

Tuberculosis surveillance and monitoring in Europe

2020

2018 data

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Abbreviations

AFB acid-fast bacilli
ART antiretroviral therapy
CI confidence interval

CISID Centralized Information System for Infectious Diseases

DRS drug-resistance surveillance
DST drug-susceptibility testing

ECDC European Centre for Disease Prevention and Control

EEA European Economic Area
EQA external quality assessment

EU European Union

EU/EEA European Union/European Economic Area

HIV human immunodeficiency virus

HPCs high-priority countries (Armenia, Azerbaijan, Belarus, Bulgaria, Estonia,

Georgia, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, the Republic of Moldova, Romania, the Russian Federation, Tajikistan, Turkey, Turkmenistan, Ukraine

and Uzbekistan)

ICJ International Court of Justice
LTBI latent tuberculosis infection

MDR multidrug resistance

MDR-TB multidrug-resistant tuberculosis
RR-TB rifampicin-resistant tuberculosis

RR/MDR-TB rifampicin-resistant and multidrug-resistant tuberculosis

TB tuberculosis

TESSy The European Surveillance System

TME WHO Tuberculosis Monitoring and Evaluation platform

TOM treatment outcome monitoring
UNSCR UN Security Council Resolution

WRD WHO-recommended rapid diagnostics

XDR extensive drug resistance

XDR-TB extensively drug-resistant tuberculosis



Executive summary

The WHO European Region

Despite the notable progress achieved in the fight against tuberculosis (TB) in the WHO European Region and the ongoing decline in incidence seen as a result, TB and its drug-resistant form in particular, still poses a public health threat in most countries and areas within the Region and should not be underestimated.

TB burden

The year 2018 saw a further decrease in TB, with 259 000 incident TB cases (225 000–296 000) estimated in the WHO European Region, corresponding to 28 cases (24–32) per 100 000 population. During the period 2009–2018 and between 2014 and 2018, the average annual decline in the TB incidence rate was 5.1%, which is the fastest decline among all WHO regions. If this pace of decline is maintained, the Region will achieve the 2020 End TB Strategy milestone to reduce TB incidence rate in 2020 by 20% against the 2015 baseline, even though it will fall slightly short of reaching the Regional action plan target of a 25% reduction in the TB incidence rate.

In 2018, there were an estimated 23 000 TB deaths among human immunodeficiency virus (HIV)-negative people in the European Region, a cumulative 56% decrease since 2009 and equivalent to 2.5 deaths per 100 000 population (range 2.4–2.6). With a decline of 11.5% between 2017 and 2018, this rate is notably higher than the average global decline in TB mortality (3.6% between 2017 and 2018).

In 2018, there were an estimated 77 000 new cases of rifampicin-resistant and multidrug-resistant TB (RR/MDR TB) in the Region, with 49 000 estimated among notified bacteriologically-confirmed pulmonary TB patients. This represents around 16% of the 484 000 global RR/MDR TB burden in the same cohort. The proportion of RR/MDR TB among new and previously-treated TB cases in the Region also significantly exceeds the global average, with 18% in new and 54% in previously-treated cases compared to 3.4% and 18% respectively.

HIV prevalence in incident TB cases was estimated to be 12% in 2018, marking the second year of halted growth after an unprecedented increase from 3% to 12% during the period 2007–2016. There were an estimated 30 000 HIV-positive TB cases in the Region, with the Russian Federation (53%) and Ukraine (27%) contributing to the highest burden of coinfection.

TB disease notification and treatment outcomes

Overall, a 19% decrease was observed in the notification rates of new TB cases and relapses during the period 2014–2018 (incident TB cases), from 30.3 to 24.5 cases per 100 000 population. In 2018, 227 240 incident TB cases

were notified, amounting to 88% of the estimated new and relapse cases in the Region.

The percentage of newly-notified TB patients tested using WHO-recommended rapid diagnostic tests increased from 45.3% in 2015 to 66.3% in 2018, overachieving the initial target of 30% set in the Tuberculosis Action Plan for the WHO European Region 2016–2020, but remaining below the global End TB Strategy target of 90%.

A total of 189 992 patients with pulmonary TB (84%) were notified among incident TB cases, 67% of which were laboratory-confirmed, marking another year of increase in the number of laboratory-confirmed TB diagnoses which began in 2013 with a baseline of 57.1%.

Among bacteriologically-confirmed pulmonary TB cases, 84% were tested for first-line drug susceptibility (DST).

Overall, 29.1% of pulmonary TB patients who were reported as having tested for drug susceptibility had MDR TB. Prevalence of MDR TB among new and previously-treated bacteriologically-confirmed pulmonary TB cases was 18.3% and 49.1% respectively.

There has been an increasing trend in extensively-drugresistant TB (XDR TB) and with 94.7% second-line DST coverage, 19.2% of pulmonary MDR TB cases had XDR TB in 2018. In absolute numbers, XDR TB cases among pulmonary TB cases increased from 999 in 2014 to 6 672 in 2018, largely due to the increase in the number of countries reporting on second-line DST data.

Of the new and relapsed TB patients notified from countries reporting HIV testing data, 91.5% were screened for HIV. A total of 24 365 TB cases were detected with HIV-positive status, which is 13.1% of those tested, representing a slight increase on last year (12.8% in 2017).

A total of 17 435 (73.1%) of HIV-positive patients are reported to have received antiretroviral therapy (ART). ART coverage has been increasing over the last five years but is still far below the WHO target of universal ART coverage for TB/HIV-co-infected patients.

Despite universal treatment coverage for TB and RR/MDR TB patients, the treatment success rate in the Region remains below the respective regional targets of 85% and 75%. The successful treatment outcome for both incident TB and RR/MDR TB cohorts were 77.1% and 57.4% respectively, which is comparable with the previous year's results.

Conclusions

Analysis of the 2018 TB surveillance data shows that the Member States are making good progress. This progress was particularly impressive in terms of efforts to reduce TB mortality and notification (as a proxy of TB incidence)

and to increase testing coverage of new and relapse TB patients using WHO recommended rapid tests, indicating that overall the Region is on the right track in its efforts to contain TB epidemic. Most of the high-priority countries have already achieved or are on track to reach the 2020 milestones of the global End TB Strategy and the targets articulated in the Tuberculosis Regional Action Plan fir the WHO Europe Region.

However, although there is evidence of slow improvement, the treatment success rates for new and relapse cases and RR/MDR TB patients are still below regional and global targets. Despite the efforts made, the burden in relation to RR-TB and TB/HIV is still considerable, underlining the need to introduce more innovative and effective approaches to the diagnosis and treatment of TB and MDR-TB.

European Union and European Economic Area countries

Epidemiology and treatment outcome

In 2018, 52 862 cases of tuberculosis TB were reported in 30 European Union and European Economic Area (EU/EEA) countries (Latvia did not report any case-based data), resulting in a notification rate of 10.2 per 100 000 population in the EU/EEA. The overall notification rate and the rates in most countries have been decreasing over the last five years.

Of all notified TB cases, 40 625 (76.9%) were newly diagnosed and 36 047 (68.2%) were confirmed by culture, or smear and nucleic acid amplification test. Overall, adult age groups had a higher new and relapse TB notification rate than children under 15 years. Children under 15 years accounted for 4.0% of all new and relapse TB cases, corresponding to a notification rate of 2.5 per 100 000 population. The highest rates among those aged o-4-years were reported in Portugal, Romania, Slovakia and Spain (Table 9). For every female new and relapsed case of TB in the EU/EEA, two male new and relapsed cases were reported. Thirty-five per cent of all TB cases reported in the EU/EEA were of foreign origin, but, with the exception of Malta, less than 25% of TB cases from countries with TB notification rates higher than 10 per 100 000 population were reported as being of foreign origin.

Of 26 881 cases with the relevant DST results, 999 (3.7%) had MDR TB; the highest percentage (more than 10%) of MDR TB cases were reported from Estonia and Lithuania. XDR TB was reported for 19.6% of 808 MDR TB cases tested for second-line drug susceptibility. After remaining at 0.3 per 100 000 population from 2014 to 2016, the rate of notified MDR TB cases decreased to 0.2 in 2017 and remained the same in 2018 (Table VII). Between 2014 and 2017, resistance to second-line anti-TB drugs among pulmonary MDR TB cases increased from 19.7% to 23.5%, before decreasing to 20.4% in 2018 (Table VIII). Over 55% of these pulmonary XDR TB cases were reported from Lithuania and Romania.

Even though in 2018 the number of countries reporting data on HIV coinfection, (which had increased between

2016 and 2017) decreased, the data remain incomplete. Of all TB cases with reported HIV status, 4.2% were coinfected with the virus. TB in prisons remains poorly reported; for the 17 EU/EEA countries reporting data, the notification rate amounted to 217 new and relapse TB cases per 100 000 inmates, that is, a relative risk of 14.7 compared to the general population in the same countries.

Of all 55 337 TB cases notified in 2017 with a treatment outcome reported in 2018, 67.6% were treated successfully and 6.9% died. Of 1 182 MDR TB cases notified in 2016 with a treatment outcome reported in 2018, 49.9% were treated successfully and 15.7% died.

Conclusions

In 2018, 30 of 31 EU/EEA countries reported TB notification data. There was a further decline in the overall TB notification rate (10.2 per 100 000 population) continuing the trend observed since 2002. However, in order to achieve the United Nations Sustainable Development Goal 3 target of an 80% reduction in the TB incidence rate in 2030 compared to 2015, the target notification rate at EU/EEA level would have to be 2.4 per 100 000. Therefore, while the continuing decline is encouraging, there is some way to go before the EU/EEA countries meet the targets for elimination of TB by 2030.

Of the 55 337 TB cases notified in 2017 with a treatment outcome reported in 2018, only two-thirds (67.6%) were treated successfully, and 7% died during TB treatment. The overall MDR TB notification rate among cases with relevant DST results declined in the EU/EEA countries in 2018 and the number of XDR TB cases was low compared with the total number of reported TB cases.

Data on HIV coinfection and TB in prisons remain incomplete in the EU/EEA, with a decline in the number of countries reporting HIV status in 2018.

Monitoring progress towards TB elimination

In 2018, 20 of 26 WHO Regional action plan indicators were effectively monitored and evaluated using routine surveillance data. Of the 20 targets monitored, nine were achieved at the Regional level. The progress in reducing the burden of TB mortality and notifying new and relapse TB patients (as a proxy of TB incidence) was particularly impressive for the Region. Most high-priority countries have already achieved or are on track to achieve the 2020 milestones of the global End TB Strategy, as well as Regional action plan targets.

In addition, a substantial increase in HIV testing and ART coverage has been observed over the past few years and an increase in coverage of WHO-recommended rapid diagnostics has also been documented.

Although eleven targets set under the Regional action plan were not achieved, improvement has been observed against the baseline data. The treatment success rate of new and relapse TB cases as well as RR/MDR TB cases are still below the global and Regional targets, however, a comparison of data collected in 2016 with that for 2019 indicates

a slow but sustainable increase in both incident TB and RR/MDR TB cohorts, from 75.78% to 77.1% and 48.8% to 57.4% respectively.

Unfortunately, the Region will fall short of achieving six targets, including the percentage of RR/MDR TB among new and previously treated TB cases, prevalence of HIV among new and relapse TB cases, preventive treatment coverage among children under five years and treatment success rate for TB patients in prison. Despite the efforts made, the burden related to RR-TB and TB/HIV is still increasing, indicating the need to introduce more innovative and effective approaches to address those issues. Prevention efforts, including contact tracing, latent tuberculosis infection (LTBI) treatment coverage and ART coverage among people living with HIV, needs to be intensified.

Резюме

Европейский регион ВОЗ

Несмотря на заметные успехи, достигнутые в борьбе с туберкулезом (ТБ) в Европейском регионе ВОЗ, и последовавшую за этим стабильную тенденцию к снижению заболеваемости, туберкулез и, в особенности, его лекарственно-устойчивые формы, по-прежнему представляет угрозу для общественного здоровья в большинстве стран Региона, и эту угрозу не следует недооценивать.

Бремя туберкулеза

В 2018 г. было отмечено дальнейшее снижение заболеваемости туберкулезом: в Европейском регионе ВОЗ расчетное число новых случаев и рецидивов туберкулеза составило 259 000 (225 000-296 000), что соответствует 28 случаям (24-32) на 100 000 населения. В 2009-2018 гг. и в период с 2014 г. по 2018 г. среднегодовое снижение заболеваемости туберкулезом составило 5,1%, что является самым быстрым темпом снижения среди всех регионов ВОЗ. Если подобный темп снижения сохранится, то Регион достигнет основного рубежа, намеченного в Стратегии по ликвидации туберкулеза к 2020 г., – сократить показатель заболеваемости туберкулезом в 2020 г. на 20% по сравнению с исходным уровнем 2015 г. Однако даже такой темп не вполне достаточен для достижения целевого ориентира, обозначенного в Региональном плане действий по борьбе с туберкулезом, – сократить показатель заболеваемости туберкулезом на 25%.

По оценкам, в 2018 г. в Европейском регионе от туберкулеза умерли 23 000 человек, не инфицированных вирусом иммунодефицита человека (ВИЧ), что представляет собой совокупное сокращение на 56% с 2009 г. и эквивалентно 2,5 смертям на 100 000 населения (в диапазоне 2,4–2,6). Снижение на 11,5% за период 2017-2018 гг. заметно превышает темп сокращения среднемирового показателя смертности от туберкулеза (3,6% в 2017-2018 гг.).

В 2018 г. в Регионе, согласно расчетам, были зарегистрированы 77 000 новых случаев туберкулеза с устойчивостью к рифампицину и множественной лекарственной устойчивостью (РУ/МЛУ-ТБ), из которых 49 000 представляют пациентов с бактериологически подтвержденным туберкулезом легких — около 16% от 484 000 (бремя РУ/МЛУ-ТБ в мире в той же самой когорте). Доля РУ/МЛУ-ТБ среди новых и ранее леченных случаев туберкулеза в Регионе также значительно превышает среднемировой показатель: 18% новых и 54% ранее леченных случаев по сравнению с 3,4% и 18%, соответственно.

В 2018 г. расчетная распространенность ВИЧ-инфекции среди новых случаев и рецидивов туберкулеза составила 12%, что знаменует собой второй год приостановления роста после беспрецедентного увеличения с 3% до 12% в 2007–2016 гг. В этот период расчетное число

случаев туберкулеза среди ВИЧ-инфицированных в Регионе составило 30 000, причем наибольшее бремя коинфекции пришлось на Российскую Федерацию (53%) и Украину (27%).

Регистрация случаев туберкулеза и исходы лечения

В целом в период 2014—2018 гг. показатели регистрации новых случаев и рецидивов туберкулеза сократились на 19% — с 30,3 до 24,5 случаев на 100 000 населения. В 2018 г. было зарегистрировано 227 240 случаев ТБ, что составляет 88% от расчетного числа новых случаев и рецидивов туберкулеза в Регионе.

Доля впервые зарегистрированных пациентов с туберкулезом, прошедших тестирование с использованием рекомендованных ВОЗ быстрых диагностических тестов, увеличилась с 45,3% в 2015 г. до 66,3% в 2018 г., превысив 30% — первоначальный целевой ориентир, установленный в Региональном плане действий по борьбе с туберкулезом, но оставаясь ниже глобального 90% целевого ориентира Стратегии по ликвидации туберкулеза.

В общей сложности, среди новых случаев и рецидивов туберкулеза было зарегистрировано 189 992 случая туберкулеза легких (84%), из которых 67% имели лабораторное подтверждение; таким образом, отмечено начавшееся в 2013 г. увеличение числа лабораторно подтвержденных диагнозов туберкулеза в сравнении с исходными значениями на уровне 57,1%.

Среди случаев туберкулеза легких с бактериологическим подтверждением 84% тестировались на лекарственную чувствительность (ТЛЧ) к противотуберкулезным препаратам первого ряда.

У 29,1% больных туберкулезом легких, тестировавшихся на лекарственную чувствительность, был обнаружен МЛУ-ТБ. Распространенность МЛУ-ТБ среди новых и ранее леченных случаев туберкулеза легких с бактериологическим подтверждением составила 18,3% и 49,1%, соответственно.

Наблюдалась тенденция к росту туберкулеза с широкой лекарственной устойчивостью (ШЛУ-ТБ), так что в 2018 г. при охвате тестированием на лекарственную чувствительность (ТЛЧ) к противотуберкулезным препаратам второго ряда на уровне 94,7% в 19,2% случаев легочного МЛУ-ТБ был диагностирован ШЛУ-ТБ. В абсолютных цифрах число случаев ШЛУ-ТБ среди больных туберкулезом легких увеличились с 999 в 2014 г. до 6 672 в 2018 г., в основном, вследствие увеличения числа стран, подающих сведения о ТЛЧ к препаратам второго ряда.

91,5% новых случаев и рецидивов туберкулеза из стран, предоставляющих данные о тестировании на

ВИЧ, прошли скрининг на ВИЧ-инфекцию. Всего среди лиц с ВИЧ-положительным статусом было выявлено 24 365 случаев туберкулеза, что составляет 13,1% от числа обследованных — некоторое увеличение по сравнению с прошлым годом (12,8% в 2017 г.).

Согласно данным отчетов, антиретровирусную терапию (АРТ) в общей сложности получили 17 435 (73,1%) ВИЧ-положительных пациентов. За последние пять лет охват АРТ демонстрирует тенденцию к росту, но он все еще намного ниже целевого ориентира ВОЗ по всеобщему охвату АРТ пациентов с сочетанной инфекцией ТБ/ВИЧ.

Несмотря на всеобщий охват лечением больных туберкулезом и РУ/МЛУ-ТБ, показатель успешного лечения в Регионе остается ниже соответствующих региональных целевых ориентиров — 85% и 75%. Успешный исход лечения как в когортах новых случаев и рецидивов туберкулеза, так и среди пациентов с РУ/МЛУ-ТБ зафиксирован в 77,1% и 57,4% случаев, соответственно, что сопоставимо с результатами предыдущего года.

Выводы

Анализ данных эпиднадзора за туберкулезом за 2018 г. показывает, что государства-члены добиваются значительных успехов. Прогресс наиболее ощутим в области снижения смертности от туберкулеза и сокращения показателей регистрации (в качестве прокси-показателя заболеваемости туберкулезом), а также повышения охвата тестированием новых случаев и рецидивов туберкулеза с использованием рекомендованных ВОЗ быстрых диагностических тестов (БДТ). Полученные данные указывают на то, что Регион в целом находится на правильном пути в своих усилиях по сдерживанию эпидемии туберкулеза. Большинство высокоприоритетных стран уже достигли или движутся в направлении достижения рубежей, намеченных на 2020 г. Глобальной стратегии по ликвидации туберкулеза, и целевых ориентиров согласно формулировкам Регионального плана действий по борьбе с туберкулезом.

Несмотря на наличие свидетельств медленного улучшения ситуации, показатель успешного лечения новых случаев и рецидивов у пациентов с РУ/МЛУ-ТБ все еще ниже региональных и глобальных целевых ориентиров. Вопреки предпринимаемым усилиям бремя РУ-ТБ и ТБ/ВИЧ все еще остается значительным, что подчеркивает необходимость внедрения более новаторских и эффективных подходов к диагностике и лечению туберкулеза и ЛУ-ТБ.

Страны Европейского Союза и Европейской экономической зоны

Эпидемиология и исходы лечения

В 2018 г. в 30 странах Европейского Союза и Европейской экономической зоны (EC/EЭЗ) было зарегистрировано 52 862 случаев туберкулеза (ТБ) (Латвия не представила данных по случаям заболевания); таким образом,

показатель регистрации в ЕС/ЕЭЗ составляет 10,2 на 100 000 населения. В последние пять лет отмечено снижение как общего показателя регистрации, так и показателей регистрации в большинстве стран.

Из всех зарегистрированных случаев заболевания туберкулезом у 40 625 (76,9%) пациентов диагноз был установлен впервые, а у 36 о47 (68,2%) диагноз был подтвержден при помощи культурального анализа или мазка и теста амплификации нуклеиновых кислот. В целом, у взрослых показатель регистрации новых случаев и рецидивов туберкулеза был выше, чем у детей младше 15 лет. На долю детей в возрасте до 15 лет приходилось 4,0% всех новых случаев и рецидивов туберкулеза, что соответствует показателю в 2,5 на 100 000 населения. Самые высокие показатели среди детей в возрасте о-4 лет были отмечены, в Испании, Португалии, Румынии и Словакии (Таблица 9). На каждый новый случай и рецидив туберкулеза среди женщин в ЕС/ЕЭЗ было зарегистрировано два новых случая и рецидива среди мужчин. Тридцать пять процентов всех случаев туберкулеза, зарегистрированных в ЕС/ЕЭЗ, были иностранного происхождения, но, за исключением Мальты, менее 25% случаев туберкулеза из стран с показателями регистрации туберкулеза, превышающими 10 на 100 000 населения, отмечены как случаи иностранного происхождения.

Из 26 881 случаев с релевантными результатами тестирования чувствительности к лекарственным препаратам (ТЛЧ), в 999 (3,7%) случаях диагностирован туберкулез с множественной лекарственной устойчивостью (МЛУ-ТБ); наиболее высокий процент (свыше 10%) случаев МЛУ-ТБ был зарегистрирован в Литве и Эстонии. Туберкулез с широкой лекарственной устойчивостью (ШЛУ-ТБ) был зарегистрирован у 19,6% из 808 случаев МЛУ-ТБ с результатами тестирования чувствительности к противотуберкулезным препаратам второго ряда. В период с 2014 г. по 2016 г. показатель регистрации случаев МЛУ-ТБ стабилизировался на уровне 0,3 на 100 000 населения, после чего снизился до 0,2 в 2017 г., оставаясь тем же самым в 2018 г. (Таблица VII). В период 2014–2017 гг. устойчивость к противотуберкулезным препаратам второго ряда среди случаев МЛУ-ТБ легких увеличилась с 19,7% до 23,5%, снизившись до 20,4% в 2018 г. (Таблица VIII). Свыше 55% всех случаев ШЛУ-ТБ легких были зарегистрированы в Литве и Румынии.

Хотя число стран, подавших сведения о сочетанной инфекции с вирусом иммунодефицита человека (ВИЧ), возросшее в период 2016—2017 гг., сократилось в 2018 г., полученные данные остаются неполными. Из всех случаев регистрации туберкулеза с известным ВИЧ-статусом в 4,2% имела место коинфекция с вирусом. Регистрация туберкулеза в тюрьмах остается неудовлетворительной; для 17 подающих сведения стран ЕС/ЕЭЗ показатель регистрации составил 217 новых случаев и рецидивов туберкулеза на 100 000 заключенных, что соответствует относительному риску (ОР) 14,7 в сравнении с общей популяцией в тех же странах.

Из всех 55 337 случаев туберкулеза, зарегистрированных в 2017 г., сведения об исходе лечения которых

подавались в 2018 г., 67,6% были успешно пролечены, а 6,9% пациентов умерли. Из 1 182 случаев МЛУ-ТБ, зарегистрированных в 2016 г., сведения об исходе лечения которых подавались в 2018 г., 49,9% были успешно пролечены, а 15,7% пациентов умерли.

Выводы

В 2018 г. 30 из 31 страны ЕС/ЕЭЗ подали сведения о регистрации туберкулеза. Отмечалось дальнейшее снижение общего показателя регистрации туберкулеза (10,2 на 100 000 населения) в продолжение тенденции, наблюдавшейся с 2002 г. Однако для достижения Цели 3 в области устойчивого развития Организации Объединенных Наций, предусматривающей снижение заболеваемости туберкулезом на 80% в 2030 г. по сравнению с 2015 г., целевой ориентир показателя регистрации на уровне ЕС/ЕЭЗ должен составлять 2,4 на 100 000 населения. Поэтому, хотя неуклонное снижение и обнадеживает, предстоит преодолеть нелегкий путь, прежде чем страны ЕС/ЕЭЗ достигнут целей Стратегии по ликвидации туберкулеза к 2030 г.

Из 55 337 случаев туберкулеза, зарегистрированных в 2017 г., сведения об исходах лечения которых подавались в 2018 г., только две трети (67,6%) были успешно пролечены, а 7% пациентов умерли на фоне противотуберкулезного лечения. В странах ЕС/ЕЭЗ в 2018 г. снизился общий показатель регистрации МЛУ-ТБ среди случаев с релевантными результатами тестирования чувствительности к лекарственным препаратам, а число случаев ШЛУ-ТБ было низким в сравнении с общим количеством зарегистрированных случаев туберкулеза.

Данные EC/EЭЗ о конифекции ВИЧ/ТБ в тюрьмах остаются неполными при уменьшении количества стран, подавших сведения о ВИЧ-статусе в 2018 г.

Мониторинг прогресса в деле ликвидации туберкулеза

В 2018 г. 20 из 26 индикаторов Регионального плана действий ВОЗ эффективно отслеживались и оценивались с использованием данных планового эпиднадзора. Из 20 подлежащих мониторингу целей девять были достигнуты на региональном уровне. Особенно впечатляющим для Региона стал прогресс в сокращении бремени смертности от туберкулеза и показателей регистрации новых случаев и рецидивов туберкулеза (в качестве прокси-показателя заболеваемости туберкулезом). Большинство высокоприоритетных стран уже достигли или движутся в направлении достижения рубежей, намеченных в Глобальной стратегии по ликвидации туберкулеза на 2020 г., а также целевых ориентиров Регионального плана действий по борьбе с туберкулезом.

Кроме того, за последние несколько лет документально подтверждено значительное увеличение охвата тестированием на ВИЧ-инфекцию и АРТ наряду с повышением охвата тестированием с применением рекомендованных ВОЗ быстрых диагностических тестов.

Хотя одиннадцать целей, намеченных в Региональном плане действий, достигнуты не были, отмечается улучшение по сравнению с исходным состоянием.

Показатель успешного лечения новых случаев и рецидивов туберкулеза, а также случаев РУ/МЛУ-ТБ все еще ниже глобальных и региональных целевых ориентиров; однако сравнение данных, собранных в 2016 г., с данными за 2019 г. указывает на медленное, но устойчивое увеличение и когорт новых случаев и рецидивов туберкулеза, и когорт пациентов с РУ/МЛУ-ТБ с 75,78% до 77,1% и с 48,8% до 57,4%, соответственно.

К сожалению, Регион не достигнет шести целевых ориентиров, в том числе таких, как доля РУ/МЛУ-ТБ среди новых и ранее леченных случаев туберкулеза, распространенность ВИЧ-инфекции среди новых случаев и рецидивов туберкулеза, охват профилактическым лечением детей в возрасте до пяти лет и показатель успешного лечения больных туберкулезом пациентов в тюрьмах. Несмотря на предпринимаемые усилия, бремя, связанное с РУ-ТБ и ТБ/ВИЧ, все еще увеличивается, что указывает на необходимость внедрения более новаторских и эффективных подходов для решения этих проблем. Нужно активизировать усилия по профилактике, включая отслеживание контактов, а также по повышению охвата лечением латентной туберкулезной инфекции (ЛТИ) и охвата АРТ людей, живущих с ВИЧ.

1. Main facts about tuberculosis



1. Main facts about tuberculosis

TB is an infectious disease caused by a group of *Mycobacterium* species called the *Mycobacterium tuber-culosis* complex [1]. TB ranks among the top 10 causes of death on a global scale [2]. Although TB typically affects the lungs (pulmonary TB), it can cause disease in any organ (extrapulmonary TB). TB is transmitted from person to person, for example, when an individual with pulmonary TB expels bacteria into the air by coughing.

Approximately 25% of the world's population is infected with *M. tuberculosis* [3], but only a small proportion of people (≈10%) will develop TB disease during their lifetime; the risk is much higher among immunocompromised individuals (such as people infected with HIV).

Sputum-smear microscopy has been the most common initial TB diagnostic method worldwide, but culture remains the gold standard, while the use of rapid molecular testing is increasing.

Standard treatment of non-resistant TB consists of a sixmonth regimen of four first-line drugs (isoniazid, rifampicin, ethambutol and pyrazinamide), with success rates usually above 85% [4]. Multidrug-resistant (MDR) and extensively drug-resistant (XDR) TB require longer treatments with more drugs and are associated with lower success rates.

WHO estimated that 10 million people fell ill with TB in 2018. Most cases were thought to occur in the WHO South-East Asia Region (44%), the WHO African Region (24%) and the WHO Western Pacific Region (18%). Smaller

proportions of cases were estimated for the WHO Eastern Mediterranean Region (8%) and the WHO Region of the Americas (3%). The WHO European Region accounted for 3% of all cases [2].

Overall, this report shows that in the EU/EEA, TB remains a public health issue. Most EU/EEA countries, however, are low-incidence countries (with a notification rate below 10 per 100 000) in which TB predominantly affects vulnerable populations, such as migrants, prison inmates or people coinfected with HIV.

The overall aim of TB surveillance is to help inform public health action. The annual TB surveillance and monitoring report presents key figures and trends and provides an overview of the TB situation in the EU/EEA and the WHO European Region.

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2. Technical note



Technical note

Between 1996 and 2007, TB surveillance data from the European Region were collected and analysed annually under the EuroTB project.

Since 1 January 2008, the European Centre for Disease Prevention and Control (ECDC) and the WHO Regional Office for Europe have jointly coordinated the collection and analysis of TB surveillance data in Europe, aiming to ensure data standardisation and high quality across the WHO European Region. The underlying standards and definitions have been agreed by leading European experts. The definitions used in this report are in line with the latest WHO revised definitions [1]. In the EU/EEA the reporting follows the EU case definitions [2].

The report covers the 53 countries of the WHO European Region and Liechtenstein. These are collectively referred to as the European Region.

Data published in the report may differ from figures in national reports due to variations in reporting periods and the deadlines for data collection. The deadline for updating the data used in this report was 3 October 2019.

2.1 Data reporting and analysis

Designated experts within national surveillance, infectious disease or public health institutes submitted TB surveillance and control programme management data for 2018 electronically to the ECDC-WHO Regional Office for Europe Joint TB Information System via a common portal. TB surveillance data from the EU/EEA countries were later redirected to The European Surveillance System (TESSy) platform hosted by ECDC (Annex 1). Surveillance data from non-EU/EEA countries and areas and programme management data from the entire European Region were processed through WHO's Tuberculosis Monitoring and Evaluation (TME) platform in aggregated format. In all, 30 out of 31 EU/EEA Member States reported case-based data. All countries in the European Region were also asked to provide updates for 2015, 2016 and 2017 to allow for the exclusion of duplicate cases or those found later not to have TB, and for the reporting of treatment outcomes in previously notified cases.

The TESSy variable list for collection of the 2018 data (Annex 2) has not undergone changes compared to the previous year.

Reporting completeness (Annexes 3 and 4) varied among countries and areas due to differences in legislation, specifics of national surveillance systems and TB case ascertainment. Readers should be cautious when making comparisons across countries, even though the quality and comparability of reported data have improved in recent

years and the reporting completeness is generally high in the EU/EEA, with a few exceptions, such as HIV status and DST data.

Estimates of TB disease burden presented in Tables 1, 2, I and II are provided by WHO using a methodology developed by the Global Task Force on TB Impact Measurement. Estimates are updated annually using the latest available data and analytical methods [3]. Population denominators were obtained from United Nations Population Division statistics [4] for the calculation of rates in these tables.

For the calculation of notification rates, country total population denominators by age group and gender were obtained from Eurostat [5] (10 May 2019) for the EU/EEA countries and from United Nations Population Division statistics for all other countries and areas.

Reported data were analysed using the main epidemiological (time, place, gender, age, patient origin) and case management (history of previous anti-TB treatment, localisation of disease, laboratory results, HIV status and treatment outcome) variables. Associations between variables were, if indicated, quantified as relative risk and their 95% confidence intervals (CI), and results were considered significant if the confidence interval did not include 1.

TB/HIV coinfection

Case-based HIV status for 2018 was reported by Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Greece, Hungary, Iceland, Ireland, Lithuania, Luxembourg, the Netherlands, Norway, Portugal, Romania, Slovakia, Slovenia, Spain and the United Kingdom. The proportion of HIV/TB coinfection was expressed as a percentage of reported TB cases with known HIV status. HIV status had to be available for more than 50% of all TB cases to be considered complete in the country profiles. For the reported new and relapse TB cases with known HIV status in 2018, start or continuation on antiretroviral therapy (ART) was reported by eight EU/EEA Member States.

Laboratory network performance and drug resistance

Results of DST from initial isolates of *M. tuberculosis* have been collected for isoniazid and rifampicin since the reporting year 1998. EU/EEA countries have also reported susceptibility to ethambutol and streptomycin, with 74% of EU/EEA countries reporting the latter for the last six years (2013–2018). Data on second-line drug resistance to amikacin, capreomycin, kanamycin, ciprofloxacin and ofloxacin have been reported via TESSy since 2008 and via the Centralized Information System for Infectious Diseases (CISID)/TME since 2009. Data on ciprofloxacin are no longer collected in TESSy (since 2017), as ciprofloxacin is no longer recommended for treatment of drugsusceptible or drug-resistant TB. Data on resistance to

¹ ECDC/WHO Europe Joint Surveillance can be accessed at: http://www.ecdcwhosurveillance.org/

gatifloxacin, levofloxacin and moxifloxacin were added in 2013, bedaquiline and delamanid in 2016 and pyrazinamide in 2017. Case-based information on DST is collected in countries/areas where DST results are linked to TB case notifications (29 countries in 2018). Where individual DST data are not available, data have been obtained from WHO's Tuberculosis Monitoring and Evaluation platform (TME) in aggregated format, when possible and deemed adequate. Information on the organisation and laboratory practices for anti-TB DST in the country/area is collected using the TME module of the joint TB surveillance system. From 2019 onwards, when collecting data to report resistance to anti-TB drugs, EU/EEA Member States are required to report the resistance pattern used on initiation of the treatment to TESSy, irrespective of the method used for drug susceptibility testing or resistance prediction. Drug resistance surveillance (DRS) methods vary across countries and areas. Initial DST results may be collected routinely for all culture-positive TB cases notified, or only for cases included in specific surveys or diagnosed in/referred to selected laboratories. DRS data were considered complete

- they were collected nationwide; or
- culture results were available for 90% or more of all cases; and
- more than 50% of all cases were culture-positive; and
- more than 75% of all culture-positive cases had DST results available for isoniazid and rifampicin; and
- at least 95% of the external quality assessment (EQA) results were confirmed by a supranational reference laboratory.

DRS data are considered incomplete for Albania, Bosnia and Herzegovina, Italy, Georgia, Latvia (did not report case-based data), Kazakhstan, Kyrgyzstan, Serbia, Tajikistan and Turkmenistan. France reported complete national DRS data only for rifampicin resistant TB cases.

EQA systems are essential for ensuring accurate diagnosis of TB and drug-resistant TB. Implementing EQA by organising regular EQA rounds and identifying training needs is one of the key activities of the European TB Reference Laboratory Network (ERLTB-Net) [6]. The EQA test results for 2018 are published in Annex 5.

Percentages of laboratory-confirmed drug-resistant cases were calculated using cases with known DST results (for at least isoniazid and rifampicin) as the denominator. The results of DST for second-line drugs were analysed for multidrug-resistant TB (MDR-TB) cases only.

Treatment outcome monitoring

EU/EEA countries have provided treatment outcome data since the reporting year 2002, through the submission of an updated dataset for cases notified one year prior to the year of reporting. The same applies to MDR-TB treatment outcome for cases reported two years earlier and XDR TB treatment outcome for cases reported three years earlier.

As part of the 2019 data call, for 2018 data, outcome data were collected for TB cases reported in 2017, MDR TB cases in 2016 and XDR TB cases in 2015. Non-EU/EEA countries and areas have reported aggregated treatment outcome data following the same principle since 2013.

If enrolment for treatment is taken into account for treatment outcome monitoring (TOM) analysis, two types of TB cases are included: cases enrolled for treatment and cases with no indication of enrolment for treatment. For countries and areas reporting case-based data, the most recently updated information was used. This may result in denominators differing from the number of notified cases reported in the previous year's report. For countries and areas reporting aggregate outcome data, completeness of cohorts is assessed by comparing the total number of cases included in TOM cohorts with those initially notified as pulmonary and culture- or smear-positive, depending on the type of cohort.

Geographical areas

The following 31 EU/EEA countries are presented separately in tables and in Chapter 3: Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia (case-based data not reported for 2018), Liechtenstein, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden and the United Kingdom.

The 23 remaining (non-EU/EEA) countries in the WHO European Region are: Albania, Andorra, Armenia, Azerbaijan, Belarus, Bosnia and Herzegovina, Georgia, Israel, Kazakhstan, Kyrgyzstan, Moldova, Monaco, Montenegro, North Macedonia, Russia, San Marino, Serbia, Switzerland, Tajikistan, Turkey, Turkmenistan, Ukraine and Uzbekistan.

Data from Serbia include TB cases reported from Kosovo,² and these are also stratified in tables to reflect United Nations Security Council Resolution 1244 (1999).

Data from the 18 high-priority countries (HPCs) identified in the *Plan to stop TB in 18 high-priority countries in the WHO European Region, 2007–2015* [7] are presented in italics and as subtotals alongside the subtotals for the EU/EEA countries and non-EU/EEA countries and areas. The 18 HPCs in the WHO European Region are: Armenia, Azerbaijan, Belarus, Bulgaria, Estonia, Georgia, Kazakhstan, Kyrgyzstan, Latvia (did not report case-based data for 2018), Lithuania, Moldova, Romania, Russia, Tajikistan, Turkey, Turkmenistan, Ukraine and Uzbekistan.

TB notifications from France include overseas territories. TB notifications from Greenland are not included in the report.

² For the purposes of this publication, all references to "Kosovo", including in the bibliography, should be understood/read as "Kosovo (in accordance with Security Council resolution 1244 (1999))".

2.2 Definitions

TB case definition for surveillance

Information from EU/EEA countries was collected to enable the classification of cases according to the case definition approved by EU Member States and published by the European Commission [2]. This classifies cases as "possible", "probable" or "confirmed". Possible cases meet clinical criteria only. Probable cases are defined by the additional detection of acid-fast bacilli (AFB), *M. tuberculosis* complex nucleic acid or granulomata. Confirmed cases require a positive culture or detection of both AFB by microscopy and *M. tuberculosis* complex by nucleic acid amplification testing.

Data from all countries and areas in the European Region also follow the WHO-recommended definitions, 2013 revision [1]. They define a "case of tuberculosis" as a patient in whom TB has been confirmed by bacteriology or diagnosed by a clinician. A "bacteriologically confirmed TB case" is one from whom a biological specimen is positive by smear microscopy, culture or WHO-recommended rapid diagnostics (WRD) such as Xpert MTB/RIF. A "clinically diagnosed TB case" is one that does not fulfil the criteria for bacteriological confirmation, but has been diagnosed with active TB by a clinician or other medical practitioner who has decided to give the patient a full course of TB treatment.

Cases discovered post-mortem as having gross pathological findings consistent with active TB that would have indicated anti-TB treatment, had the patient been diagnosed before dying, also fit the clinical criteria and are included.

Previous anti-TB treatment status

New cases have never been treated for TB or have taken anti-TB drugs for less than one month. For EU/EEA countries, cases diagnosed before 1951 are analysed as new cases.

Previously treated patients have received one month or more of anti-TB drugs in the past. They are further classified by the outcome of their most recent course of treatment as follows:

- relapse: patients have previously been treated for TB, were declared cured or to have completed their treatment at the end of their most recent course of treatment, and are now diagnosed with a recurrent episode of TB (either a true relapse or a new episode of TB caused by reinfection);
- treatment after failure: patients who have previously been treated for TB and whose treatment failed at the end of their most recent course of treatment;
- treatment after loss to follow-up: patients have previously been treated for TB and were declared lost to follow-up at the end of their most recent course of treatment (these were previously classified as "treatment after default"); and

 other previous treatment: patients who have previously been treated for TB but whose outcome after their most recent course of treatment is unknown or undocumented.

Patients with an unknown previous TB treatment history do not fit any of the categories listed above.

New cases and relapses of TB are incident TB cases.

Site of disease

Pulmonary TB refers to any bacteriologically confirmed or clinically diagnosed case of TB involving the lung parenchyma or the tracheobronchial tree (laryngeal TB is classified as pulmonary). A patient with both pulmonary and extrapulmonary TB should be classified as a case of pulmonary TB.

Extrapulmonary TB refers to any bacteriologically confirmed or clinically diagnosed case of TB involving organs or anatomical sites other than the lungs (such as pleura, lymph nodes, abdomen, genitourinary tract, skin, joints and bones, or meninges).

Notes on the definition

The above TB case definition, and the definition of previous anti-TB treatment status and site of disease, are in accordance with the European Commission's approved definitions for TB surveillance.

All possible, probable and confirmed cases are reported to the joint European surveillance database. For countries and areas with laboratory-based reporting where no clinical information is available, laboratory-confirmed cases should be reported.

Cases should be notified only once in a given 12-month period, but a case should be reported again if the diagnosis of confirmed TB is made following completion of anti-TB treatment (relapse), even if this occurs within 12 months of reporting the initial disease episode.

Cases that have never been treated are commonly referred to as new cases, although this term should not be considered to indicate incidence in the strict epidemiological sense.

Among re-treated cases, relapses are included in notifications from all countries, whereas cases re-treated after failure or loss to follow-up and chronic cases are not included or further defined by Belgium, Cyprus, Denmark, France, Luxembourg, Malta, Norway, Spain and the United Kingdom.

DST data were analysed for laboratory-confirmed cases.

Origin of cases

The geographic origin of a TB case is classified according to the place of birth of a person with TB disease (i.e. born in the country/born outside of the country) for Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Iceland, Ireland, Israel, Italy, Kyrgyzstan, Latvia, Liechtenstein, Lithuania, Luxembourg,

Malta, the Netherlands, North Macedonia, Norway, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Tajikistan, Turkey, the United Kingdom and Uzbekistan. For Albania, Andorra, Armenia, Austria, Belarus, Belgium, Bosnia and Herzegovina, Georgia, Greece, Hungary, Kazakhstan, Moldova, Montenegro, Poland, Russia, Serbia, Turkmenistan and Ukraine, origin is classified according to citizenship (citizen/non-citizen). Azerbaijan, Georgia, Kyrgyzstan, Monaco and Turkmenistan did not report information on origin. In Denmark, the birthplace of the parents is also used to classify origin (similarly, for cases born in the Netherlands the birthplace of parents is also notified for case management purposes). The country of origin is included in case-based data.

The term "native" as used in this report refers to cases born in, or having the citizenship (nationality) of the reporting country. "Foreign origin" refers to cases born in (or citizens of) a country different to the reporting country.

Drug resistance

Resistance among cases never treated (new TB cases) indicates primary drug resistance due to infection with resistant bacilli.

Resistance among cases previously treated usually indicates acquired drug resistance emerging during treatment following selection of drug-resistant mutant bacilli. It can also result from exogenous re-infection with resistant bacilli.

MDR refers to resistance to at least isoniazid and rifampicin.

XDR refers to resistance to: (i) isoniazid and rifampicin (that is, MDR); (ii) a fluoroquinolone; and (iii) one or more of the following injectable drugs: amikacin, capreomycin or kanamycin [1].

Rifampicin resistance refers to resistance to rifampicin detected using phenotypic or genotypic methods, with or without resistance to other anti-TB drugs. This includes any resistance to rifampicin, whether monoresistance, multidrug resistance, polydrug resistance or extensive drug resistance.

Treatment outcome

Cohorts

A cohort is defined as all TB cases notified in the calendar year of interest, after exclusion of cases with a final diagnosis other than TB, or cases found to have been reported more than once.

In accordance with the WHO treatment outcome definitions [1], this report distinguishes between two types of cases:

- patients treated for drug-susceptible TB; and
- patients treated for rifampicin-resistant TB (RR-TB). For non-EU/EEA countries this includes those placed on second-line treatment (defined as combination chemotherapy for drug-resistant TB).

The two groups are mutually exclusive. For EU/EEA countries the case types are based on drug susceptibility testing results. Any patient reported as having RR-TB is assumed to be on second-line treatment and is excluded from the drug-susceptible TB outcome cohort.

Period of observation

All cases are observed until the first outcome assessment up to a maximum of 12 months after the start of treatment. For MDR-TB cases in EU/EEA countries, treatment outcome after 24 months should be reported if treatment lasts longer than 12 months and the reported 12-month outcome is coded as "still on treatment". For XDR TB cases in EU/EEA countries, treatment outcome after 36 months should be reported if treatment lasts longer than 24 months and the reported 12-month and 24-month outcomes are coded as "still on treatment". Non-EU/EEA countries and areas evaluate treatment outcomes according to the WHO definition.

Treatment outcome categories

All outcome categories but one apply to the entire Region and follow the WHO recommendations in Definitions and reporting framework for tuberculosis – 2013 revision [1]. The additional category "still on treatment" only applies to the EU/EEA Member States. The categories are as follows.

Cured is a pulmonary TB patient with bacteriologically confirmed TB at the beginning of treatment who was smearor culture-negative in the last month of treatment and on at least one previous occasion.

Cured of MDR TB is treatment completed as recommended under national policy, without evidence of failure AND three or more consecutive cultures taken at least 30 days apart are negative after the intensive phase.

Treatment completed is treatment completed but does not meet the criteria to be classified as cure or treatment failure.

Treatment failed is a TB patient whose sputum smear or culture is positive at month five or later during treatment.

Treatment failed for MDR TB case is treatment terminated or the need for permanent regimen change of at least two anti-TB drugs because of:

- lack of conversion by the end of the intensive phase;
 or
- bacteriological reversion in the continuation phase after conversion to negative; or
- evidence of additional acquired resistance to fluoroquinolones or second-line injectable drugs; or
- adverse drug reactions.

³ The degree of adherence to the 12-month limit is unknown, and a number of countries are known to exceed it.

 $^{\,{\}bf 4}\,\,$ The degree of adherence to the 24-month limit is unknown.

Died is a TB patient who dies for any reason before starting, or during the course of, treatment.

Lost to follow-up is a TB patient who did not start treatment or whose treatment was interrupted for two consecutive months or more (defined in previous reports as "defaulted").

Still on treatment is:5

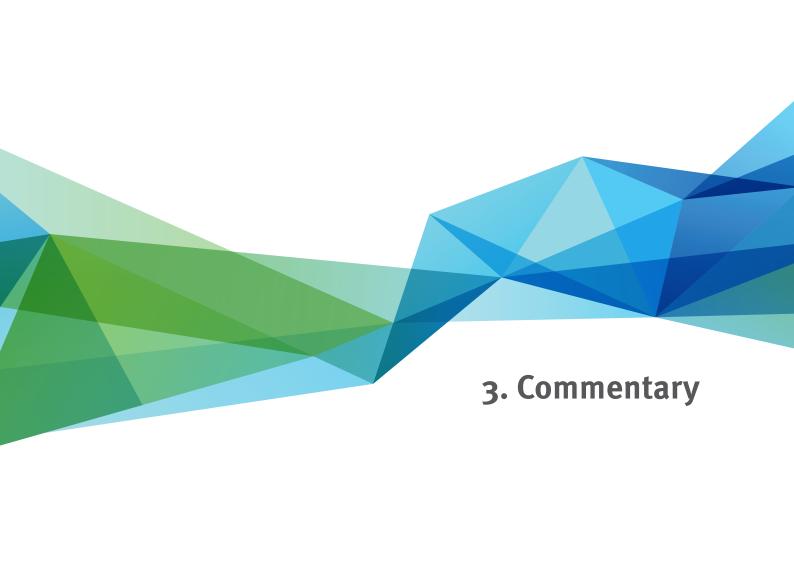
- a patient reported as still on treatment at 12 months without any other outcome during treatment; or
- a patient reported as still on treatment at 12 months and still on treatment at 24 months without any other outcome.

Not evaluated is a TB patient for whom no treatment outcome is assigned; this includes cases "transferred out" to another treatment unit and cases for whom the treatment outcome is unknown to the reporting unit.

In this report, success is the sum of "cured" and "treatment completed".

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3. Commentary

3.1 The WHO European Region

TB burden estimates (incidence and mortality, HIV and MDR)

An estimated 259 000 new and relapse TB cases (range 225 000–296 000) occurred in countries and areas of the WHO European Region in 2018, equivalent to an average incidence of 28 cases (24–32) per 100 000 population. This represents about 2.6% of the total burden of TB in the world.

The absolute number of incident TB cases in the WHO European Region fell by 15 000 in 2018 compared to the previous year. About 83% of the estimated TB cases in the Region occur in the 18 high-priority countries (HPCs), where estimated TB incidence was 52.5 cases per 100 000 population, which is over four times higher than the EU/EEA average. The six countries with the absolute highest number of incident TB cases over 10 000 were the Russian Federation (79 000), Ukraine (36 000), Uzbekistan (23 000), Romania (13 000), Turkey (13 000) and Kazakhstan (12 000). The number relative to population (incidence rate) was highest in Kyrgyzstan (116 per 100 000 population), followed by the Republic of Moldova (86), Tajikistan (84), Georgia and Ukraine (80 each).

The estimated number of TB cases in the Region has been decreasing consistently since 2000. During the period 2009–2018, the average annual decline in the TB incidence rate was 5.1%, with 6.0% between 2017 and 2018, which is notably higher than the global rate of decline for TB incidence (2.0%), and the fastest decline in the world compared to other regions [1]. The cumulative reduction for the period 2015-2018 was 15.2%, indicating that the Region is on track to achieve the 2020 End TB Strategy milestone to reduce the TB incidence rate in 2020 by 20% against the 2015 baseline, but will fall short of achieving the Regional action plan target of a 25% reduction in the TB incidence rate. It should nevertheless be emphasized that all the HPCs in the Region have also experienced a decline in the TB incidence rate. During the period 2009-2018, the high-priority countries with the highest annual rate of decline were Estonia (-9.2%), Belarus (-8.7%) Kazakhstan (-8.5%), Armenia (-8.4%) and Azerbaijan (-8.0%).

There were an estimated 23 000 TB deaths among HIV-negative people in the European Region in 2018, equivalent to 2.5 deaths per 100 000 population (range 2.4–2.6). Considerable variation was seen across the Region, ranging from less than one TB death per 100 000 population in western European countries to more than 10 per 100 000 in HPCs. The TB mortality rate was highest in Turkmenistan (10.4 deaths per 100 000), followed by Azerbaijan (10.1) and Ukraine (8.4). Together, the 18 HPCs accounted for over 87% of TB deaths in the Region.

Between 2009 and 2018, the TB mortality rate at regional level fell cumulatively by 57%, from 5.8 to 2.5 deaths per 100 000 population, (Table I) which on average is a decline of 9.1% per year. This decline was over 12% between 2017 and 2018, which is notably higher than the global rate of decline for TB mortality (3.6% between 2017 and 2018). With a cumulative reduction of 26% between 2015 and 2018, the Region is on track to reach the End TB Strategy milestone of a 35% reduction in the total number of TB deaths between 2015 and 2020 [1].

An estimated 12.0% (range 7.5–16.0%) of incident TB cases in 2018 were coinfected with HIV (Table 2). The proportion of TB cases coinfected with HIV was highest in Turkmenistan (24.0%), followed by Ukraine (23.0%), the Russian Federation (20.0%), Malta (16.0%) and Armenia (10.0%). The top five countries with the highest absolute number of TB/HIV coinfection cases were the Russian Federation (16 000) and Ukraine (8 200), amounting to 81% of the total number of cases, followed by Uzbekistan (1000), Kazakhstan (730) and Turkmenistan (650).

Nine out of the 30 countries with the highest MDR TB burden in the world are in the WHO European Region.⁶ In 2018, there were an estimated 49 000 incident cases of rifampicin-resistant and multidrug-resistant TB (RR/MDR TB) in the WHO European Region among notified bacteriologically confirmed pulmonary TB cases, with MDR TB accounting for 84%.

An estimated 18% (95% CI: 16–19%) of newly diagnosed patients and 54% (95% CI: 47–61%) of previously treated patients had RR/MDR TB. If all TB patients were tested for drug resistance to rifampicin and isoniazid, it is estimated that around 77 000 (range 69 000–95 000) would be detected.

TB notification and trends

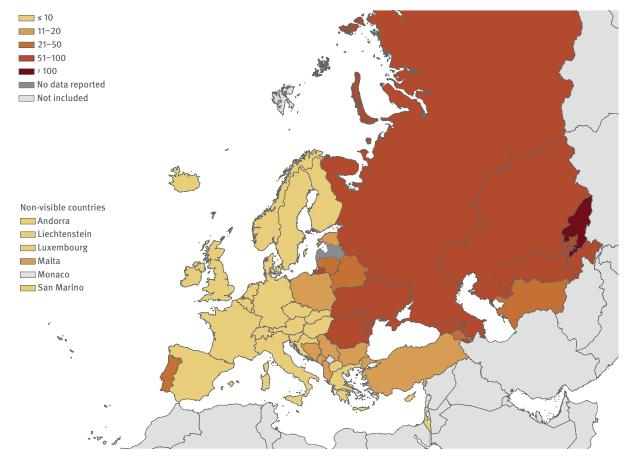
In 2018, 269 859 TB patients were reported from 52 countries? in the WHO European Region, 227 240 of which were new, relapses or had an unknown previous treatment history (Table 4). This represents 84% of all TB cases notified in 2018.

The notification rate of new and relapse cases varies widely among countries, from zero (San Marino) to 100.5 (Kyrgyzstan) per 100 000 population (Map 1 and Table 4).

Thirty-six countries, all located in the western and central part of the Region and mostly high-income countries, had low notification of new and relapse cases (less than 20 cases per 100 000) in 2018. Seven reported new or relapse

⁶ The top 10 countries with the highest global MDR TB burden (in alphabetical order) are: Azerbaijan, Belarus, Kazakhstan, Kyrgyzstan, the Republic of Moldova, the Russian Federation, Somalia, Tajikistan, Ukraine and Uzbekistan.

⁷ Monaco did not report and San Marino reported zero cases in 2019.



Map 1. TB notification rates of new TB cases and relapses per 100 000 population, European Region, 2018

case rates of between 20 and 50 per 100 000 population and nine reported between 50 and 100 cases per 100 000 population (the Republic of Moldova (74.6), Kazakhstan (70.0), Tajikistan (62.9), Ukraine (59.9), Romania (59.3), Georgia (57.9), the Russian Federation (53.7), Azerbaijan (50.6) and Uzbekistan (50.5)). Kyrgyzstan was the only country reporting above 100 new and relapse cases per 100 000 population. The 18 HPCs with new and relapse case notifications account for about 83% of the regional burden. The largest proportion of new and relapse cases (78 258, or 34.4%) comes from the Russian Federation, even though the Russian Federation accounts for only 16% of the Region's population. Most HPC rates continue to show a decreasing trend compared to the previous year, with the exception of Kazakhstan and Turkmenistan.

During the period 2014–2018, an overall downward trend of 19.0% was observed in the notification of incident TB cases, from 30.3 to 24.5 cases per 100 000 population (Table 4). This trend reflects a genuine reduction in the spread of the disease, significantly influenced by the decrease in notification rates in the Region's 18 HPCs, from 58.5 to 46.0 per 100 000 population. The notification rate of new and relapse cases in the 18 HPCs is almost twice as high as for the Region overall (46.0 cases per 100 000, compared to 24.5 for the Region) and about five times higher than the rate in the EU/EEA (9.8 cases per 100 000 population) (Fig. 3.1.1).

Previous treatment history

In 2018, previously treated cases represented 9.9% and 32.3% in the EU/EEA and non-EU/EEA respectively (Table 5). The average in the 18 HPCs was 31.8%, impacting the pan-European average of 27.9%. Previously treated cases accounted for 15% or more of all TB cases in 14 countries: Azerbaijan (45.4%), Russia (39.0%), Kazakhstan (33.1%), Kyrgyzstan (30.8%), Ukraine (29.8%), Moldova (29.1%), Belarus (25.8%), Georgia (24.9%), Turkmenistan (24.8%), Uzbekistan (23.4%), Armenia (22.0%), Romania (19.8%), Lithuania (19.3%) and Estonia (17.7%). Reasons for the high percentage of previously treated cases include clinical failure or poor treatment adherence in previous treatment episodes, and possible re-infection and misclassification during the current treatment episode.

Disease localisation

Pulmonary localisation was notified in about 84% of the incident TB cases in the Region in 2018 (Table 7). The proportion of patients with pulmonary localisation in the non-EU/EEA countries was higher than in the EU/EEA. Extrapulmonary TB was notified on average for 16.4% of all incident TB cases in the Region. Seven countries reported more than 30% of their TB cases having extrapulmonary localisation: Finland, the Netherlands, Norway, Sweden, Turkey, the United Kingdom and Uzbekistan.

San Marino 2014 Iceland **2**018 Andorra Liechtenstein Israel Norway ${\sf Greece}$ Czech Republic Finland Netherlands Denmark Sweden Slovenia Slovakia Austria SwitzerlandCyprus Ireland Hungary Italy Germany Luxembourg France United Kingdom Belgium Croatia Spain North Macedonia Estonia Malta Montenegro Poland Turkey Serbia Albania Bulgaria 0 5 10 15 20 25 Bosnia and Herzegovina Portugal Armenia Belarus Turkmenistan Lithuania Uzbekistan Azerbaijan Russia Georgia Romania Ukraine Tajikistan Kazakhstan Moldova Kyrgyzstan European Region Subtotal 18 HPC 15 35 75 115 135 Rate per 100 000

Fig. 3.1.1 Trend in TB notification rate per 100 000, WHO European Region, between 2014 and 2018

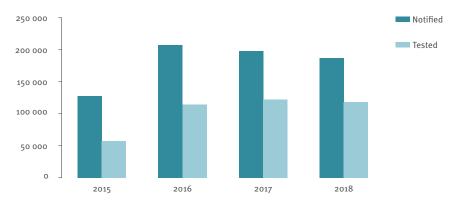


Fig. 3.1.2 New and relapse TB cases tested using WHO-recommended rapid diagnostics, such as Xpert MTB/RIFa, European Region, 2015–2018

Bacteriological confirmation

Bacteriological confirmation of TB diagnosis was reported for 126 648 (66.7%) of all 189 992 new and relapse pulmonary cases in the Region (Table 7). Testing of cases using WHO-recommended rapid diagnostics (WRD) (such as Xpert MTB/RIF) was much lower in the EU/EEA countries (27.9%) than in the non-EU/EEA countries (78.2). Nevertheless, the four-year trend shows a continuing increase in usage of WRDs across the Region, from 55.2% in 2016 to 66.3% in 2018 (Table XV) (Figure 3.1.2). Testing also varied considerably among countries, from 0.5% to 93.2% in Bulgaria and Moldova respectively. Bacteriological confirmation of new and relapse pulmonary cases was below 60% in five countries, underlining the need to strengthen diagnostics: Turkmenistan (48.5%), Armenia (52.2%), Russia (53.9%), Uzbekistan (54.8%) and Hungary (59.3%). In 34 countries, bacteriological confirmation of new and relapse pulmonary cases was 75% and above.

Age and sex

There is wide variation in the distribution of age- and sexspecific notification rates across countries (Table 9). Notification rates in eastern European countries are highest in young adults (25–44 years) and subsequently decrease, while in the countries of central Asia and in Turkey, the notification rates either increase with age or are relatively constant across adult age groups.

In the group of 18 HPCs, the rate of TB in children under five years was lower than the notification rate among children aged 5–14 years, indicating that detection of TB remains particularly challenging in young children.

In countries with at least 100 new and relapse TB cases, the proportion of TB cases notified in children (0–14 years) varied at country level from below 1% (Albania, Bosnia and Herzegovina, Belarus, Finland, Hungary and Turkmenistan) to 14.7% (Slovakia) of all new cases and relapses. The difference in proportions of childhood TB cases across the countries and areas may reflect differences in case-finding practice (such as contact tracing), population age structure and under/over-diagnosis or reporting of childhood TB. The average percentage of new

and relapse TB patients under 15 years in the Region is around 3.9%.

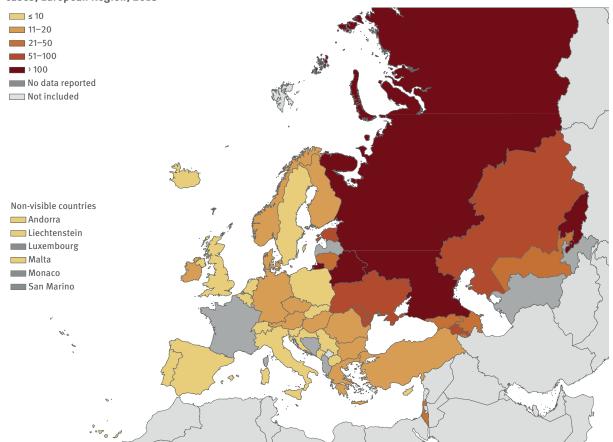
There were twice as many males as females reported among all incident TB cases, but large variation was observed for male predominance in the sex distribution of TB cases, ranging from almost even distribution to over three times greater in Armenia. In most countries, gender differences in notification rates appear to be more significant among middle-aged and older adults. TB rates in males and females appear to be more similar in children and younger adults (0–14 and 15–24 years). This gender difference in TB case notification most probably reflects the overrepresentation of males in the various TB risk groups, notably homeless people, prisoners, seasonal migrant workers, people living with HIV, men who have sex with men and people who inject drugs.

Drug resistance

Fifty countries in the Region reported on first-line anti-TB DST results in 2018.

Overall, DST coverage in the Region, at least for rifampicin and isoniazid among bacteriologically confirmed pulmonary TB cases, was 83.5%, with 34 countries achieving coverage of 85% or higher. However, coverage in six countries was less than 50%: Serbia (38.2%), Spain (37.6%), Albania (30.3%), Tajikistan (18.1%), France (4.0%) and Bosnia and Herzegovina (0.4%). The percentage of confirmed MDR TB cases among 81 106 new pulmonary TB cases tested for first-line DST in the Region was 18.3%, which is slightly higher than the rate observed in 2017 (17.6%) (Map 2, Fig. 3.1.3, Table 12 and Table V). While 15 countries reported no MDR TB or less than 1% among new TB cases, the rate was over 20% in eight (Table 12). With the exception of Estonia, Latvia and France, prevalence was lower than 5% in all EU/EEA countries, with an average of 2.3% (Fig. 3.1.4).

Four HPC countries had an MDR TB prevalence ranging from 10–19% among new cases tested for first-line DST: Armenia (17.2%), Kazakhstan (16.0%), Lithuania (11.7%) and Georgia (11.5%). Three had 20–29% MDR TB among new cases: Estonia (22.0%), Moldova (24.4%), and Ukraine (22.3%); and four had an MDR TB prevalence over 30%:



Map 2. Percentage of notified TB cases with multidrug resistance among new pulmonary laboratory confirmed TB cases, European Region, 2018

Tajikistan (72.7%), Belarus (36.6%), Russia (31.8%) and Kyrgyzstan (30.4%). The percentage of MDR TB in Tajikistan is over-estimated. Actual prevalence of RR-TB among new pulmonary TB cases in 2018 was 28.0% (Table 30). As most of the RR-TB patients in Tajikistan were detected using WRD (such as Xpert MTB/RIF) and those identified as RR-TB were then tested for other first-line TB drugs, the percentage of MDR TB among new TB cases with DST results is not representative.

The percentage of confirmed MDR TB cases among 43 850 previously treated pulmonary bacteriologically confirmed TB cases whose isolates were tested for first-line DST was 49.1%, which is slightly higher than the 2017 rate (47.3%) (Fig. 3.1.3, Table 12 and Table VI).

Fourteen countries had between 15% and 49% MDR TB among previously treated TB cases tested for first-line DST. The rate was even higher in some HPCs: Tajikistan (83.3%), Belarus (69.4%), Russia (62.9%), Moldova (60.9%) and Kyrgyzstan (70.0%) (Fig. 3.1.5, Table 12).

The rate of MDR TB notification among new bacteriologically confirmed pulmonary TB cases with available DST results at regional level was 1.6 per 100 000 in 2018. This represents an average annual decrease of 2.3% between 2014 and 2018 (Table V).

Trends in the MDR percentage among new bacteriologically confirmed pulmonary TB cases and trends in the

notification rate have differed by country in recent years (Table V). At sub-regional level, the proportion of MDR among new pulmonary TB cases remained stable in the EU/EEA sub-region over the last five years, ranging between 2.2% to 2.4%. Similarly, the rate of notified MDR TB cases remained stable at around 0.1 case per 100 000 population. The MDR percentage among new bacteriologically confirmed pulmonary TB cases in the non-EU/EEA countries increased slightly, from 18.0% in 2014 to 18.3% in 2018 but the rate per 100 000 population declined from 1.8 to 1.6 per 100 000 population during the same period.

Forty-seven countries reported on second-line DST data among pulmonary TB patients in 2018. Data on second-line DST were available for about 94.7% of all notified pulmonary MDR TB cases. Of the 34 723 pulmonary MDR TB cases subjected to second-line DST, 6 672 (19.2%) were XDR TB (Table 14).

XDR TB cases are rising in absolute terms; 999 cases were notified among pulmonary MDR TB cases in 2015 and 6 672 in 2018, and this is largely due to the increase in the number of countries reporting on second-line DST data (Table VIII).

In EU/EEA countries, where 81% of MDR TB cases were tested for second-line drugs, the prevalence of XDR among MDR cases was 20.1%.

10

2014

2015

New

Freviously treated

20 -

2016

Fig. 3.1.3 Percentages of MDR among laboratory-confirmed pulmonary TB cases, European Region, 2014-2018



2018

2017

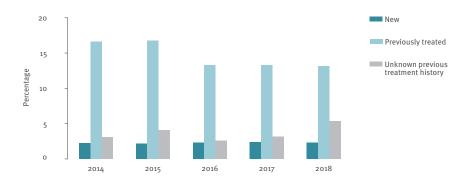


Fig. 3.1.5 Percentages of MDR among laboratory-confirmed pulmonary TB cases, 18 high-priority countries, 2014–2018



Among the countries reporting at least 30 MDR cases with second-line DST results, six reported over 20% XDR prevalence among MDR TB cases: Lithuania (34.1%), Poland (29.3%), Estonia (26.7%), Georgia (21.4%), Russia (20.7%) and Romania (20.6%).

There is no clear trend in relation to XDR TB prevalence in countries with a long history of second-line drug DST surveillance among pulmonary MDR TB cases (with data reported every year from 2014 to 2018). An alarming peak in XDR was observed in Belarus in 2016, (45.6% prevalence), however this decreased to 18.8% in 2018 (Table VIII).

Similar reversing trends have been observed in Estonia and Romania, while in Armenia, Georgia, Moldova and Turkey XDR prevalence among MDR TB cases has increased over the past five years (Table VIII).

Of the 49 oo1 laboratory-confirmed RR/MDR TB patients notified, 43 813 (89.4%) were enrolled into MDR TB treatment programmes and another 16.9% were enrolled into XDR treatment. Three HPCs reported a gap of over 5% between the number of patients enrolled and the number diagnosed: Kyrgyzstan (73.9%), Turkey (78.9%), and Tajikistan (80.4%). The rest of the HPCs reported a gap of

over 5% in treatment coverage (Azerbaijan, Georgia, Kazakhstan, Moldova and Russia) have over 95% treatment coverage if XDR TB treatment is taken into account (Table 16).

In 2018, access to XDR TB treatment at regional level was 93.3%, which is higher than the 88.5% treatment coverage reported in the previous year. This trend is influenced by the Russian Federation as it accounts for more than half of the XDR TB patients detected in the Region.

TB/HIV coinfection

Forty countries provided surveillance data on TB/HIV coinfection (Table 17). Of the 203 006 new and relapse TB patients notified in the reporting countries, 185 673 were screened for HIV (91.5%). Ten HPCs achieved a testing level above 90%: Armenia, Azerbaijan, Belarus, Estonia, Georgia, Moldova, Russia, Tajikistan, Ukraine and Uzbekistan. A total of 24 365 TB cases were detected with HIV-positive status, representing 13.1% of those tested versus 12.8% recorded in 2017.

Among those countries reporting representative HIV testing (above 50% HIV testing coverage), four documented a significant overlap of the HIV and TB epidemics by exceeding 10% HIV prevalence among new and relapse TB cases (Table 17): Ukraine (23.0%), Russia (20.0%), Spain (10.6%) and Armenia (10.3%). Six countries with representative routine surveillance had 5–10% HIV prevalence among TB patients: Portugal (9.4%), Estonia (8.9%), Moldova (8.6%), Belarus (7.7%), Belgium (7.1%) and Kazakhstan (5.9%).

Twenty-seven countries in the Region provided information on ART enrolment among TB cases with HIV-positive status in 2018. Of 23 840 HIV-positive TB cases, 17 435 (73.1%) had received ART. This is much higher than in 2017 (66.6%), but far below the WHO target of universal ART coverage. However, four of the HPCs did achieve coverage of over 90%: Armenia, Belarus, Georgia and Kazakhstan.

Country of origin

TB patients of foreign origin represent 8.5% of all TB cases notified Region-wide: 34.5% in EU/EEA countries, and only 2.0% in non-EU/EEA countries and areas (Table 10). TB patients of foreign origin represent a large majority in several countries: Iceland, Liechtenstein (100% each), Malta (96.4%), Cyprus (94.2%), Norway (86.4%), Sweden (86.2%), Israel (83.9%), Luxembourg (81.0%) and the Netherlands (76.8%)

TB in prisons

Thirty-six countries in the Region provided information on TB case detection and treatment in prisons during 2018 (Table 19). Overall, 9 890 (5.1%) of the new and relapse TB cases in the Region were reported from prisons, 9 476 (95.8%) of which were in the HPCs. The proportion of TB cases in prisons represented about 2.0 % of the country total in EU/EEA countries and in non-EU/EEA countries the proportion was 5.9%. The notification rate in prisons in the non-EU/EEA countries was 886 new TB cases per 100 000 population, which is about four times higher than in

the EU/EEA sub-region (217 per 100 000). The overall notification rate for new TB cases in prisons in the WHO European Region was 749 per 100 000 population. The TB notification rate exceeded 1 000 cases per 100 000 detainees in six countries: Azerbaijan, Kazakhstan, Kyrgyzstan, Moldova, Russia and Ukraine. The highest TB-related risks in prison (relative to incidence in the general population) are calculated to be in Slovakia (40.7) followed by Czech Republic (24.9), Ukraine (23.8), Russia (23.5) and Azerbaijan (22.1).

Treatment outcome

The treatment success rate among 187 137 new TB cases and relapses having started treatment in 2017 was 77.1% (Table 21). In the HPCs, the average rate of cases cured or for whom treatment was completed was 78.2%. The treatment success rate was slightly lower in the EU/EEA countries than in non-EU/EEA countries (75.5% versus 77.5%), both showing results comparable with the previous year. Only 19 countries achieved an 85% treatment success rate in this treatment cohort. Another nine were close to the target, with success rates of 80–85%. Six countries had treatment success rates below 60%, with a very high proportion of cases not evaluated.

A total of 15 073 (8.1%) cases were reported to have died in the same cohort, 4.4% to have been lost to follow-up and 4.0% to have had treatment that failed. These unfavourable outcomes were lower in the EU/EEA countries than in the rest of the Region, exemplified by the proportion of patients with failed treatment – 0.7% in the EU/EEA versus 4.8% in non-EU/EEA countries (Table 21). Countries reporting fatal outcomes in excess of 10% were Croatia (18.0%), the Czech Republic (13.5%), Estonia (18.1%), Hungary (12.7%), Slovenia (18.0%), Moldova (10.5%) and Russia (10.6%): Russia accounted for almost half of the deaths in the Region in absolute numbers.

The treatment success rate among the 7 o81 child TB cases in the 2017 cohort was 92.0% (Table 22). The treatment success rate in EU/EEA countries was somewhat lower than in the non-EU/EEA countries (85.7% versus 94.4%). Among child TB cases in the Region, 0.9% died, another 0.9% failed and 1.1% were lost to follow-up.

Of the 15 736 TB/HIV coinfected patients who started treatment throughout the Region in 2017, only 8 089 (51.4%) had a successful treatment outcome (Table 24). Reporting of treatment outcome for TB/HIV improved significantly to around 63% of notified cases, which is around twice as high as the 29% reporting completeness for the previous year.

In the 2016 cohort, treatment outcome was notified for 46 193 laboratory-confirmed RR/MDR TB cases reported by 45 countries (Table 26). The treatment success rate for the whole Region was 57.4%, which is comparable to the 57.2% rate reported for the 2015 RR/MDR TB treatment cohort. The treatment success rate for RR/MDR TB patients was higher in non-EU/EEA countries than in the EU/EEA (57.6% versus 49.9%). The countries that performed best were Belgium (83.3%), Norway (90.9%) and Sweden (both 92.0%).

In the Region as a whole, 14.0% of RR/MDR TB cases died, 11.8% failed and 10.5% were lost to follow-up.

Conclusion for the WHO European Region

As in past years, the fastest annual decline in TB incidence in the world was observed in the WHO European Region in 2018 (5.1%). The cumulative reductions for the period 2015–2018 were 15.0%, indicating that the Region is on track to achieve the 2020 End TB Strategy milestone to reduce the TB incidence rate in 2020 by 20% against the 2015 baseline, as well as to achieve the Regional action plan target of a 25% reduction in the TB incidence rate.

There were an estimated 23 000 TB deaths among HIV-negative people in 2018, with considerable variation across the Region, and 87% of TB deaths being attributed to the 18 HPCs. Twelve per cent of incident TB cases were estimated to be coinfected with HIV, marking the second year of halted growth after the unprecedented increase from 3% to 12% during 2007–2016. Two countries, the Russian Federation and Ukraine, account for almost 81% of the estimated TB/HIV coinfected patients in the Region.

Eighty-eight per cent of the estimated new and relapse cases were notified in the Region in 2018, which is substantially higher than the global detection rate of 69%.

The Region is faced with the challenge of having a high burden of RR/MDR TB. Nine of the 30 countries with the highest RR/MDR TB burden in the world are in the WHO European Region (Azerbaijan, Belarus, Kazakhstan, Kyrgyzstan, the Republic of Moldova, the Russian Federation, Tajikistan, Ukraine and Uzbekistan). Around 77 000 people in the Region are estimated to become ill with RR/MDR TB each year, and it is of the utmost importance to have the capacity at country level to rapidly detect resistant TB. Over the past four years there has been a rapid uptake of WRD, with 63.4% of incident TB cases tested using this platform in 2018, compared to 45.3% in 2015.

Overall, most countries achieved a coverage of 85% or higher for first-line DST among bacteriologically confirmed pulmonary TB cases, but countries should aim to have universal coverage. Ninety-three per cent of all notified RR/MDR TB cases in the Region had second-line DST available, with most countries reporting coverage close to 100%.

TB is a major cause of death among people living with HIV, so rapid detection and appropriate treatment are vital. In 2018, 81% of an estimated 30 000 HIV patients coinfected with TB were detected, and 73% of them were offered ART. Only 63% of coinfected patients notified in 2017 had TB treatment outcomes available in 2018. This underlines the need to strengthen collaboration between TB and HIV programmes and to improve surveillance of coinfection in the Region.

Most countries offer universal access to TB and MDR TB treatment. Eighty-nine per cent of the RR/MDR TB cases and 93% of the XDR TB cases notified in 2018 were enrolled into the respective treatment programmes. The regional

average is heavily influenced by the Russian Federation, as it includes more than half of all MDR TB and XDR TB patients detected in the Region.

The treatment outcome for both incident TB and RR/MDR TB cohorts were 77.1% and 57.4% respectively, which is comparable with the results for the previous year.

3.2 European Union and European Economic Area countries

Data completeness

TB notification data for 2018 were reported by 30 countries (no case-based data from Latvia for 2018). The reporting of non-mandatory variables in 2018 was complete or near complete for age, gender, TB site and variables defining the origin of a case (Annex 3). Previous treatment history was available for 86.7% of cases, which was higher than in the previous three years (82.1%, 76.8% and 84.3% for 2017, 2016, and 2015 data, respectively) but lower than that reported in 2014 (87.7%). However, the over-80% completeness for this variable masked substantial differences across countries. For example, previous treatment history was not available from Luxembourg and only available for 57.1% of cases from France.

The reporting completeness for culture results (82.5%) was the same as that reported for 2017 data, with only five countries remaining below 75.0% (France, Greece, Iceland, Malta and the United Kingdom). Reporting completeness for microscopy (84.1%) was higher than that reported for 2017 data (82.9%). For 2018, drug-susceptibility reporting completeness was 74.6% for the first-line TB drugs, isoniazid and rifampicin, however no adequate data on DST were available from Italy and France. Second-line DST reporting completeness was 100% for the countries that reported at least one MDR-TB case. Six countries (Cyprus, Iceland, Italy, Liechtenstein, Malta and Slovenia) reported no MDR-TB cases (Table 13).

In 2018, the number of countries reporting HIV status decreased from 23 in 2017 to 21. HIV status was available for 45.0% of all cases reported in 2018. Austria, Finland, France, Germany, Italy, Liechtenstein, Malta, Poland and Sweden did not report HIV status. Furthermore, HIV status reporting completeness was less than 10% for Croatia and Hungary. In 2018, treatment outcome at 12 months, 24 months and 36 months was available for 70.0% of all reported cases, 98.0% of MDR-TB and 96.4% of XDR TB cases, respectively. Greece, Italy, Malta and Poland did not report treatment outcome.

Time and place

In 2018, 52 862 cases of TB were reported in 30 EU/EEA countries (Table 3). Five countries reported more than 5 000 cases (France, Germany, Poland, Romania and the United Kingdom) accounting for 63% of all reported cases, with Romania alone accounting for 23.0% of all TB cases reported in 2018.

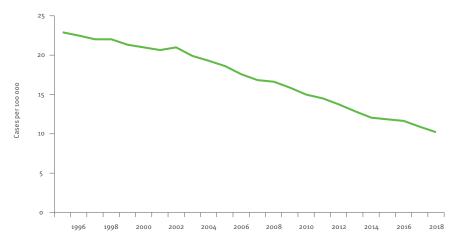


Fig. 3.2.1 TB notification rate per 100 000 population by year of reporting, EU/EEA, 1995-2018

Data source: ECDC Surveillance Atlas of Infectious Diseases. http://www.ecdc.europa.eu/en/data-tools/atlas/Pages/atlas.aspx

The EU/EEA notification rate in 2018 was 10.2 per 100 000 population (Table I), continuing the downward trend observed since the launch of European enhanced TB surveillance in 1996 (Figure 3.2.1). Assuming that Latvia would have reported a similar number of cases as for 2017 (552 cases), the overall EU/EEA notification rate for 2018 would have been 10.3 per 100 000 population. During the period 2014–2018, the average annual decline in the notification rate was 4.0% (Table 3).

As in previous years, country-specific notification rates differed considerably in 2018, ranging from 2.3 in Iceland to 62.5 per 100 000 in Romania. Rates were below 10 per 100 000 in 23 countries and below 20 per 100 000 in 27 countries. The highest notification rates in the EU/EEA were reported from Bulgaria, Estonia, Lithuania, Malta, Poland, Portugal and Romania (Table 3).

Notification rates in the majority of countries have fallen since 2013 (Table 3). The downward trend was particularly pronounced in Estonia and Norway, where the average annual rate of decrease exceeded 10%.

Previous treatment, laboratory confirmation and TB site

The distribution of cases by previous treatment history was similar in 2018 to that reported in previous years: 40 625 (76.9%) of 52 862 TB cases reported in 2018 were newly diagnosed, 5 213 (9.9%) had been previously treated for TB and 7 024 (13.3%) had an unknown previous treatment status (Table 5). The Member States with the lowest proportions of new cases had the highest proportions of cases with unknown previous treatment status. The proportion of previously treated cases was above 10% in seven countries: Bulgaria, Estonia, Hungary, Lithuania, Poland, Romania and Slovenia.

Laboratory confirmation was reported for 36 047 (68.2%) of the 52 862 TB cases reported in 2018 (Table 8). Country-specific proportions of laboratory-confirmed cases ranged from 25.0% in Iceland to 100% in Liechtenstein. Of the five

HPCs, Estonia and Lithuania had proportions of confirmed cases above 80%. The proportion of laboratory-confirmed TB cases remained steady in 2018 compared to 2017 (68.1%).

Of all 52 862 TB cases reported in 2018, 36 406 (68.9%) were diagnosed with pulmonary TB, 11 857 (22.4%) with extrapulmonary TB, 4 419 (8.4%) with a combination of both and 180 (0.3%) had no TB site reported (Table 6). The proportion of extrapulmonary TB was highest in the Netherlands (42.2%), Norway (39.7%) and the United Kingdom (41.8%), and lowest in Hungary (3.0%) and Liechtenstein (0%).

Of 38 926 new and relapse pulmonary TB cases reported in 2018, 31589 (81.2%) were confirmed by culture, smear and/or nucleic acid amplification test (Table 7). Iceland and Hungary reported the highest proportions of new and relapse pulmonary TB cases diagnosed only clinically (50.0% and 40.7%, respectively), followed by Bulgaria (39.3%).

According to the EU case definition, 36 o47 (68.2%) of 52 862 TB cases reported in 2018 would be classified as confirmed, 4 802 (9.1%) as probable and 12 013 (22.7%) as possible (Table 8). Six countries reported less than one tenth of their TB cases as possible cases (i.e. only clinically diagnosed). When analysing all reported TB cases for the percentage of clinically diagnosed cases, Iceland had the highest proportion (50.0%), followed by Bulgaria (45.5%) and Hungary (40.8%). It is unclear if the high proportions of only clinically diagnosed cases in Bulgaria and Hungary reflect a potential risk that TB is being over diagnosed in these countries, or if it is linked to underreporting of laboratory results to the national surveillance systems.

Age and sex

Of 50 455 new TB cases and relapses reported in 2018, 32 488 (64.4%) were aged between 25 and 64 years (Table 9). The highest notification rate was observed in the age group 25–44 years (12.5 per 100 000). Overall, adults over 64 years accounted for less than 20% of all cases, but

more than one third of all cases reported by Croatia, Finland, Iceland and Slovenia were in this age group.

Children under 15 years accounted for 2 035 (4.0%) of 50 455 new TB cases and relapses reported in 2018 and had a lower notification rate than the adult age groups (Table 9). The notification rate for all TB cases in children under 15 years of age was 2.6 per 100 000 (Table III). Romania reported a notification rate of 17.8 per 100 000 children under 15 years. The highest rates of new and relapse TB cases among 0-4-year-olds were noted in Romania (18.9 per 100 000) and Slovakia (8.0 per 100 000) and the highest rates for 5-14-year-olds were reported from Romania (17.1 per 100 000) and Bulgaria (6.9 per 100 000).

In 2018, the male-to-female ratio in new TB cases and relapses was 2.0, higher than the ratio reported in 2017 (Table 9). All EU/EEA Member States reported more male than female new and relapse TB cases, except Cyprus, Iceland and Norway. For children under 15 years, the male-to-female ratio among new and relapsed cases was 1.0.

Origin of cases

Of the 52 862 TB cases notified in 2018, 33 365 (63.1%) were born in, or were citizens of, the reporting country (referred to as "native"), 18 246 (34.5%) were of foreign origin and 1 251 (2.4%) were of unknown origin (Table 10). From countries with TB notification rates higher than 10 per 100 000 population, with exception of Malta, 25% or less were reported as being of foreign origin. The annual number and proportion of native TB cases has been declining since 2014 (from 42 144 to 33 365, and from 68.2% to 63.1%, respectively) (Table IV). The proportion of TB cases of foreign origin increased over the same period from 28.2% in 2014 to 34.5% in 2018, while the proportion of cases of unknown origin decreased. Of the 18 246 cases of foreign origin in 2018, 10 533 (57.7%) were reported by France, Germany and the United Kingdom. Country-specific proportions of foreign-origin TB cases ranged from 0.3% in Romania to above 85% in Cyprus, Iceland, Liechtenstein, Malta, Norway and Sweden.

Drug resistance

Annex 5 displays participation and performance in an EQA scheme for DST by Member State.

Of 33 319 laboratory-confirmed TB cases notified in 2018, 26 881 (80.7%) had isoniazid and rifampicin susceptibility testing results reported (Table 13). Resistance to any anti-TB drug was reported for 3 090 (11.5%) cases. Overall, MDR-TB was reported for 999 (3.7%) of 26 881 cases with the relevant DST results, with the highest proportion reported in France (100%), followed by Estonia (24.6%) and Lithuania (17.1%). After remaining at 0.3 per 100 000 population from 2013 to 2016, the rate of notified MDR-TB cases decreased to 0.2 in 2017 and remained at 0.2 in 2018 (Table VII).

In 2018, XDR TB was reported for 158 (19.6%) of 808 MDR-TB cases with results for second-line DST (Table 15). Lithuania and Romania reported 66.5% of all reported XDR TB cases. The proportion of XDR TB cases among pulmonary MDR-TB

cases with results for second-line DST increased from 19.7% in 2014 to 23.5% in 2017, before decreasing to 20.4% in 2018 (Table VIII). Between 2014 and 2018, Lithuania and Romania reported more than 55% of the pulmonary XDR TB cases annually.

Of 20 718 new confirmed pulmonary TB cases with DST results, 471 (2.3%) were resistant to isoniazid and rifampicin (Table 12). In contrast, 422 (13.1%) of 3 210 previously treated confirmed pulmonary TB cases with DST results were resistant to isoniazid and rifampicin. Compared with new pulmonary cases, previously treated pulmonary TB cases had an almost six-fold higher risk of being reported as resistant to isoniazid and rifampicin.

TB/HIV coinfection

HIV status was reported for 23 783 (75.1%) of 31 683 TB cases from the 21 countries that reported HIV status of TB cases (Table 18). Of the 23 783 cases with known HIV status, 991 (4.2%) were reported as HIV positive. The proportion of co-infected cases among countries with at least 50% reporting completeness for HIV status was highest in Iceland, Portugal and Spain (12.5%, 9.6% and 11.2%, respectively). Between 2014 and 2017, there was a decreasing proportion of HIV-coinfected TB cases reported (4.6% in 2014 to 4.0% in 2017) but in 2018 there was a slight increase to 4.2% (Table IX).

TB in prisons

For 2018, 17 EU/EEA countries reported 583 new and relapsed TB cases in prisons, resulting in a notification rate of 217 per 100 000 inmates and a relative risk of 14.7 compared to the general population in the same countries (Table 19). TB cases in prisons accounted for 2.0% of all new and relapse cases notified in the 17 reporting EU/EEA countries, but this proportion was above 4% in the Czech Republic, Greece, Lithuania and Slovakia.

Treatment outcome

Of the 45 499 TB cases notified in 2017 with a treatment outcome reported in 2018, 30 764 (67.6%) were treated successfully, 3 125 (6.9%) died, 440 (1.0%) experienced treatment failure, 1 771 (3.9%) were lost to follow-up, 2 400 (5.3%) were still on treatment in 2018 and 6 999 (15.4%) had not been evaluated (Table 20). Greece, Italy, Malta and Poland did not report treatment outcome. Among the 36 918 TB cases notified in 2017 and classified as new and relapse cases, including those with unknown previous treatment history and excluding those that were started on second-line treatment, 27 867 (75.5%) had been treated successfully (Table 21). In countries where at least 75% of these new confirmed TB cases and relapses had a known outcome, treatment success ranged from 37.6% in Portugal to 100.0% in Liechtenstein. The overall proportion of successfully treated cases among these new TB cases and relapses decreased from 77.1% in cases notified in 2013 to 75.5% in cases notified in 2017 (Table X). In three countries (Croatia, Estonia and Slovenia), over 15.0% of the new and relapse cases notified in 2017 died, including those with unknown previous treatment history and excluding those started on second-line treatment. In contrast, the proportion was less than 10.0% in 20 of the 25 countries that reported treatment outcome for this cohort.

Of 1 052 MDR-TB cases notified in 2016 with a treatment outcome reported in 2018, 506 (48.1%) were treated successfully, 180 (17.1%) died, 123 (11.7%) experienced treatment failure, 119 (11.3%) were lost to follow-up, 49 (4.7%) were still on treatment in 2018 and 75 (7.1%) had not been evaluated (Table 27). In addition to the countries that did not report treatment outcome data or data on DST (Croatia, Iceland, Liechtenstein), Malta and Slovenia did not report any MDR-TB cases for 2016. Overall, the 24-month treatment success rate for RR/MDR-TB remains low, although it has improved (from 44.2% for cases reported in 2012 to 49.9% for cases reported in 2016) (Table XII).

Thirteen countries reported 174 XDR TB cases for 2015 and a treatment outcome for these cases in 2018: 65 (37.4%) were treated successfully, 38 (21.8%) died, 41 (23.6%) experienced treatment failure, 22 (12.6%) were lost to follow-up and eight (4.6%) were not evaluated (Table 29). Overall, the 36-month XDR TB treatment success rate remains low; variations over time should be interpreted with caution due to the small number of cases (Table XIV).

Of 813 HIV-positive TB cases notified in 2017 (who were not started on second-line treatment and had a treatment outcome reported in 2018), 488 (60.0%) were reported as successfully treated, 79 (9.7%) died, eight (1.0%) experienced treatment failure, 46 (5.7%) were lost to follow-up, 104 (12.8%) were still on treatment in 2018 and 88 (10.8%) were not evaluated (Table 24).

WHO disease burden estimates

According to WHO, the estimated TB incidence in the EU/EEA overall (excluding Liechtenstein) was 11.2 per 100 000 population in 2018 (Table 1 and Table II). The incidence in 22 of the 30 countries with estimates was less than 10.0 per 100 000 population and incidence was estimated to be under 20.0 per 100 000 population in 25 countries (Table 1 and Table II). The overall number of estimated TB deaths, excluding HIV deaths in people who were HIV positive, was 3 730 for the EU/EEA in 2018, which represented a decrease against the 4 000 estimated for 2017 and the 6 400 estimated for 2009 (Table I).

Conclusions for the European Union/European Economic Area

In 2018, 30 of 31 EU/EEA countries reported TB notification data. The overall crude TB notification rate continued the decline observed since 2002, dropping to 10.2 per 100 000 population. As in previous years, a few countries reported large numbers of cases, including Romania, which accounted for 23% of all reported cases in 2018.

Overall, the decreasing notification rates observed in most countries are reassuring, but when the situation is evaluated with the aim of achieving an 80% reduction in the TB incidence rate in 2030 compared to 2015 (a United Nations

Sustainable Development Goal 3 target), the challenge ahead becomes evident. The target at EU/EEA level is a notification rate of 2.4 per 100 000 (80% reduction of 2015 TB notification rate of 11.9 per 100 000). Furthermore, if the mean annual change in rate (2014–2018) in low-incidence EU/EEA countries continues at the current pace, WHO estimates [2] that the WHO target of TB elimination by 2050 in European low-incidence countries will not be met by approximately four-fifths of the countries currently in this group.

In the EU/EEA, the annual number and proportion of native TB cases has been declining since 2014 and in 2018, over a third of TB cases were of foreign origin. An ECDC public health guidance document concluded that screening for active TB or latent TB infection among newly-arrived migrants from high-incidence countries is likely to be both effective and cost—effective for TB disease prevention [3]. However, as the majority of cases notified in the EU/EEA are native cases, additional measures are needed to reach the target.

Data on HIV coinfection remained incomplete in the EU/EEA. The number of countries reporting HIV status was lower in 2018 than in 2017. HIV status was provided for less than half of all reported TB cases, limiting the conclusions that can be drawn. Between 2014 and 2017, the proportion of HIV-co-infected TB cases decreased, but in 2018 the proportion increased slightly to 4.2% for the EU/EEA overall.

Data on TB in prisons remain even scarcer for the EU/EEA than data on HIV status. Only 17 countries provided such data for 2018. Although the proportion of inmates among all new and relapse TB cases in these countries was low, the data indicate that for inmates the risk of being reported as a TB case is 14.7 times higher. In 2018, ECDC and the European Monitoring Centre for Drugs and Drug Addiction public health guidance concluded that despite limited evidence, but given current TB knowledge and the characteristics of prison settings, it is advisable to offer universal testing for active TB upon entry into prison so that treatment can be initiated and transmission prevented [4].

In 2018, the overall MDR-TB notification rate among cases with relevant DST results declined in the EU/EEA and the number of XDR TB cases was low compared to the total number of reported TB cases. However, given the high number of drug-resistant TB cases in the European Region HPCs bordering the EU/EEA, countries need to remain vigilant and prepared to diagnose and treat drug-resistant TB.

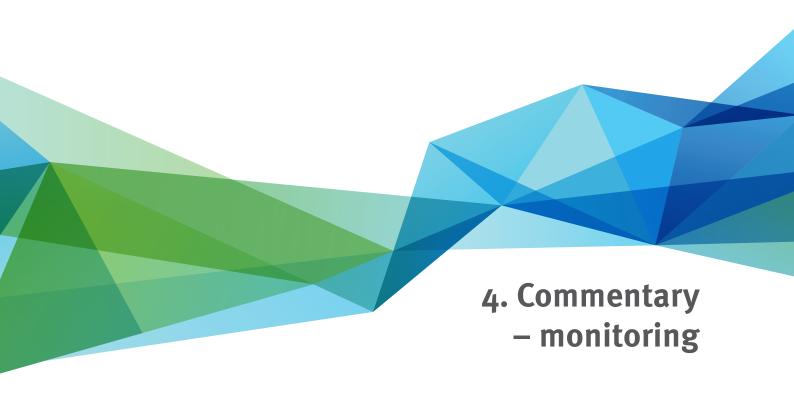
The surveillance data indicate that treatment success rates after 12 months are considerably below the WHO target of 85% [5]. Moreover, although the success rate for MDR-TB has improved, the treatment success rate after 24 months is low, as is the treatment success rate after 36 months for XDR TB.

Finally, ECDC notes that at a United Nations high-level meeting on 26 September 2018, the EU/EEA countries

reaffirmed their commitment to ending the epidemic in all countries [6]. The TB situation reflected in this report indicates that the countries face several challenges in achieving this goal and need to intensify their public health measures against TB. As previously, ECDC remains committed to supporting the EU/EEA countries in these efforts.

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4. Commentary – monitoring

4.1 WHO European Region

To address the challenges to tuberculosis and M/XDR TB prevention and care, the WHO Regional Office for Europe, working in close consultation with representatives from the countries, experts and communities, has developed the Tuberculosis action plan for the WHO European Region 2016–2020 [1]. This action plan is based on lessons learned while implementing the seven areas of intervention of the Consolidated Action Plan to Prevent and Combat Multidrugand Extensively Drug-Resistant Tuberculosis in the WHO European Region 2011–2015 [2] and is in line with the global WHO End TB Strategy and other health policy guidance, such as the European policy for health and well-being: Health 2020 [3]. The plan was endorsed at the 65th meeting of WHO's Regional Committee for Europe in its resolution EUR/RC65/17.

The Tuberculosis action plan for the WHO European Region 2016–2020 is supported by a monitoring and evaluation (M&E) framework. The framework consists of 26 indicators that enable performance monitoring in the action plan's areas of intervention and follow on from the Berlin Declaration on Tuberculosis of 2007 [4]. Nine are core indicators for monitoring and reporting to the WHO Regional Committee for Europe. In addition, selection of indicators was harmonised with the End TB Strategy's recommended top 10 global indicators. The status of the core indicators, which is analysed on an annual basis, is included in the surveillance report every second year and is presented below.

Indicator 1.A.1 Coverage of population at risk with systematic screening for active TB and LTBI

WHO global TB database only collects information on coverage of TB screening outcomes among the household contacts of bacteriologically confirmed TB cases. In 2018, a total of 21 countries reported on coverage of TB screening among household contacts. Overall, 97% of household contacts were screened for TB. All 13 HPCs that provided data, achieved the targeted 80% of screening coverage.

Indicator 1.B.1 Percentage of newly notified TB patients diagnosed using WHO-recommended rapid tests (G)

There were no base-line data available and the target was first set to 30% and later updated to 90%, based on the global targets for the End TB Strategy. In 2018, a total of 46 countries reported data on the proportion of newly-notified patients diagnosed using WHO-recommended rapid tests. As is shown in Figure 4.1.1, at regional level the target has not been achieved: only 66% of new and relapse cases were diagnosed using rapid tests. This figure was even higher for the 18 HPCs, reaching 74%. Of the 18 HPCs, two met the target, 14 countries did not meet the target and three (Latvia, Lithuania and Turkey) did not provide information.

At EU/EEA sub-regional level, only 28% of cases were diagnosed using rapid tests (Figure 4.1.1).

Indicator 1.B.2. First-line DST coverage (%) among all bacteriologically confirmed TB cases (G)

The action plan aims to ensure provision of drug susceptibility testing (DST) for all bacteriologically confirmed tuberculosis cases. In 2018, a total of 50 countries reported on DST routine surveillance data. Coverage of DST among all notified TB cases confirmed by culture was 89%, which is lower than the 91% level recorded at the baseline. In all, 14 of 16 high-priority countries had DST coverage above 90% (Figure 4.1.2). Latvia and Turkmenistan did not report complete routine drug-resistance surveillance data.

Indicator 1.B.3. RR/MDR TB case detection rate (%) (G)

As of 2016, WHO began generating RR-TB estimates instead of MDR TB. The reason for this is that, due to the intensive roll-out of WHO-recommended rapid diagnostic testing, a considerable number of drug-resistant TB cases are being diagnosed based on Xpert MTB/RIF results only and RR-TB is also a good proxy for MDR TB. Therefore, the MDR TB detection rate has been slightly modified. This indicator is now calculated by dividing the total number of notified RR/MDR TB cases among bacteriologically confirmed pulmonary TB patients by the total number of estimated RR/MDR TB among notified bacteriologically confirmed pulmonary TB patients.

In 2018, a total of 45 413 RR/MDR TB cases were detected among bacteriologically confirmed pulmonary TB patients notified in the WHO European Region. This is 93% of all estimated cases, indicating comprehensive RR/MDR case detection at regional level.

Indicator 1.B.4 TB notification rate per 100 000 population (E)

The Regional action plan aims to reduce the TB incidence rate by 25% by 2020 against the 2015 baseline. In order to achieve this, countries should have at least a 5.5% annual reduction in the notification of new and relapse TB cases.

Between 2014 and 2018, the total average annual decline of TB notification was 5.1%, which is quite close to the target of 5.5% annual reduction. If this trend continues, a regional target of 25% decline in notification by 2020 against the 2015 baseline will be achieved. Of 51 Member States, 43 have seen a decline in the TB notification rate over the last five years, including all the 18 HPCs (Figure 4.1.3).

Indicator 1.B.5 TB case detection rate (%)

In 2018, a total of 227 240 incident TB cases were notified in 52 countries across the WHO European Region,

Fig. 4.1.1 Percentage of new and relapse TB patients notified in 2018 that were diagnosed using WHO-recommended rapid tests in 18 high-priority countries and WHO European Region, 2018

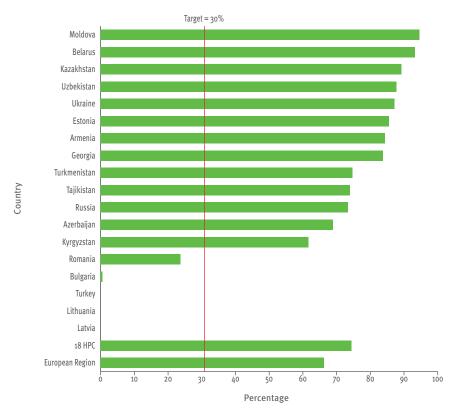
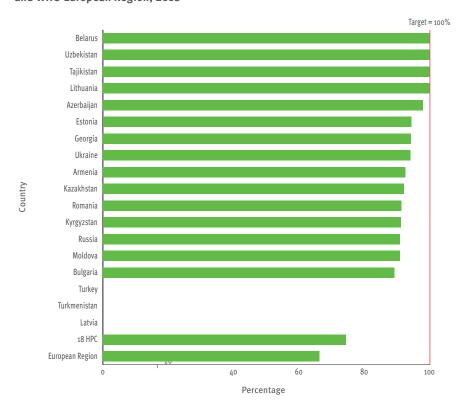


Fig. 4.1.2 First-line DST coverage (%) among all bacteriologically confirmed TB cases (G1) by 18 high-priority countries and WHO European Region, 2018



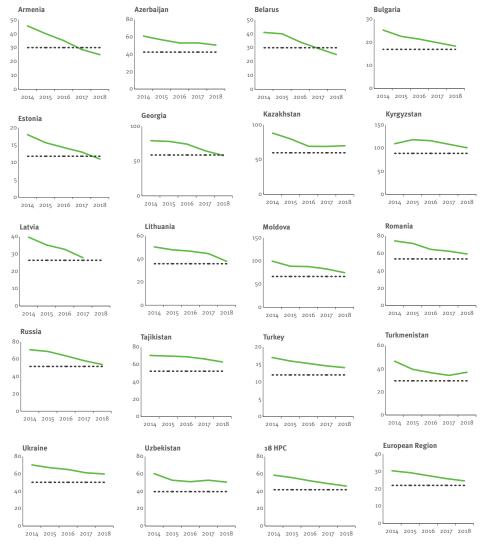


Fig. 4.1.3 Trend in new and relapse TB notification rate per 100 000 population (E) for 18 high-priority countries and WHO European Region, 2014–2018

Horizontal dashed lines indicate the 2020 milestone target of 25% reduction in TB incidence against the 2015 baseline, assuming that notification is the proxy of TB estimated incidence

compared with an estimated 259 000 cases. This represents a case detection rate of 88%, which is higher than the 84% baseline measured in 2014. In 14 of the 18 high-priority countries, the case detection rate is above 75%. Thus, detection of TB cases in the Region is improving and most of the countries are on track to increase the number of TB cases detected.

Indicator 1.B.6 Percentage of RR/MDR TB among new TB patients (E)

The Regional action plan aims to reduce RR/MDR prevalence among new TB cases. At Regional level, the prevalence of MDR-TB among 82 106 new pulmonary TB cases tested for first-line DST in the Region was 18.3%, which is comparable to the rate observed in 2015 (18.3%). Among 88 826 new pulmonary TB patients with test results for rifampicin, the proportion of patients with rifampicin resistance was 21.6%, suggesting that rifampicin resistance is still increasing in the Region. Thus, the Region is not on the track to reduce the percentage of RR-resistance among new TB

patients. Furthermore, in 11 of the 16 HPCs reporting DST data the MDR prevalence among new pulmonary TB cases was higher than or comparable to 2015 data. Azerbaijan, Kazakhstan and Uzbekistan showed a declining trend in MDR percentage over the past five years. Large year-to-year variation and missing data in several countries indicated that routine drug-resistance surveillance in these countries is challenging and that additional efforts are required to produce quality data (Figure 4.1.4).

Indicator 1.B.7 Percentage of RR/MDR TB among previously treated TB patients

In 2018, the percentage of confirmed MDR TB cases among previously-treated TB patients tested for first-line DST was 49.1%, which is higher than the 2015 rate (46.3%). Moreover, RR/MDR prevalence among all previously treated TB patients with a drug-sensitivity test to rifampicin was 56.8%, indicating that the Region is not on track to reduce the RR/MDR TB burden among previously treated patients.

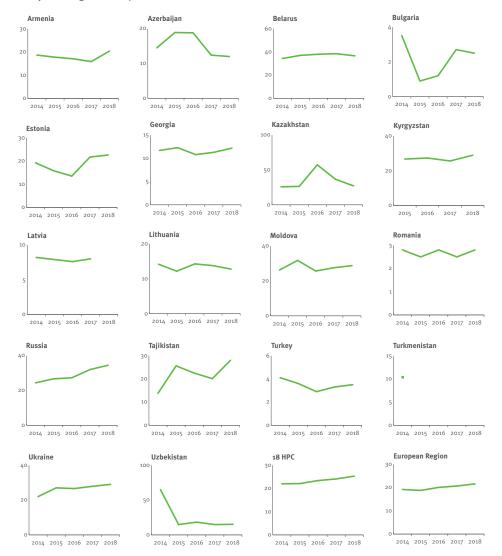


Fig. 4.1.4 Trend in RR/MDR percentage among new pulmonary TB cases (E) for 18 high-priority countries and WHO European Region, 2014–2018

1.C.1. Percentage of hospitalisation of new TB patients (E)

In 2018, a total of 35 countries provided information on the percentage of hospitalisation for TB patients enrolled in first and second-line treatment. Hospitalisation rates for first-line TB treatment ranged from 25% (Georgia) to 100% (Andorra, Bosnia and Herzegovina) among the countries. This data suggests that the hospitalisation rate is still high in most of the counties in the Region and additional efforts are required to change the model of care (Figure 4.1.5).

Indicator 1.C.2. Percentage of detected RR/MDR TB enrolled in treatment (G)

Achieving universal second-line treatment coverage for all detected RR/MDR TB patients is a fundamental requirement for reducing TB transmission in the community, as well as TB mortality.

The number of cases starting MDR TB treatment in 2018 was equivalent to 89.4% of the 49 oo1 RR/MDR TB patients notified for that year across the European Region. Access

to MDR treatment in the Region increased considerably from 2010 onwards. Over the last five years, many of the high-priority countries have consistently reported higher numbers of cases enrolled than detected. The reasons for such discrepancies include incomplete reporting; backlogs of RR/MDR TB patients; frequent treatment failures and treatment interruptions leading to re-enrolment of the same patients in the same yearly cohort and weakness of surveillance. If we take into account the proportion of patients enrolled into XDR TB treatment, only three HPCs reported a gap of over 5% between the number of patients enrolled and the number diagnosed: Kyrgyzstan (73.9%), Turkey (78.9%) and Tajikistan (80.4%). The other 15 HPCs demonstrated universal treatment coverage.

Indicator 1.C.3. Treatment success rate (%) among all new and relapsed TB patients (G)

Effective TB treatment is essential to prevent death and cut transmission. Therefore, the treatment success rate serves as a key indicator for monitoring progress with the End TB Strategy. According to the action plan, the WHO European

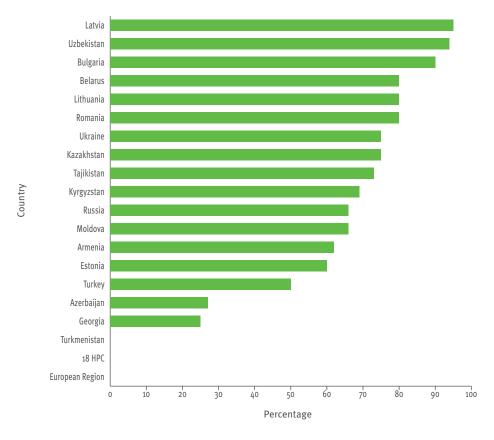


Fig. 4.1.5 Proportion of TB patients hospitalised (%) (E) for 18 high-priority countries and WHO European Region, 2018

Region needs to increase the treatment success rate for new and relapsed TB cases to at least 85%.

In 2017, the treatment success rate for new and relapse patients enrolled in treatment at Regional level was 73.8%, compared to the baseline rate of 74.1%. Only four of the 17 HPCs reporting data achieved the targeted level of an 85% treatment success rate. Another three HPCs showed a trend towards improvement in treatment success, but for most countries the pace of change is too slow to achieve the target of an 85% treatment success rate (Figure 4.1.6).

Indicator 1.C.4. Treatment success rate (%) in the MDR TB treatment cohort (G) (E)

Treatment success rate is an indicator of high-quality TB care. Despite the treatment success rate having continuously increased from 48.7 to 57.4% over the past five years, it remains far below the 75% target set in the action plan. Of the 18 HPCs, only Kazakhstan achieved the benchmark of having a treatment success rate of at least 75% for RR/MDR TB patients (Figure 4.1.7.). Overall, seven of the 18 HPCs are on track to increase their RR/MDR TB treatment success rate, however the progress to is not rapid enough to meet the 2020 target (75% treatment success rate for MDR TB cases) (Figure 4.1.7).

Indicator 1.C.5. TB mortality rate (ICD A15-19) (G10) (E)

The Tuberculosis action plan for the WHO European Region aims to reduce the number of TB deaths in 2020 by 35%

compared to 2015. As shown in Figure 4.1.8, all the HPCs have shown a rapid decline in TB mortality over the last five years, with the exception of Azerbaijan and Belarus. If the current declining trend continues, the Regional target will probably be exceeded. Although decline is comparatively slow in Georgia and Turkmenistan, in eight countries (Armenia, Bulgaria, Estonia, Kazakhstan, Latvia, Moldova, Russia and Turkey) the decline has been so rapid that the 2020 target of reducing the TB mortality rate by 35% has already been achieved (Figure 4.1.8).

Indicator 1.D.1 Percentage of detected cases out of estimated incident TB/HIV co-infected cases

In 2018, the number of HIV/TB coinfections detected was 85.3% of the estimated number of HIV/TB incident cases in the Region, which is comparable with the baseline 84.8% level. Only three of the 18 HPCs (Azerbaijan, Kazakhstan and Russia) achieved a detection rate of over 90%. In three high-priority countries (Bulgaria, Georgia and Turkey) the rate was below 70%, indicating the need to invest more effort into improving detection.

Indicator 1.D.2 HIV testing coverage (G) (E)

The action plan aims for countries to achieve HIV testing coverage of close to 100%. In 2018, HIV testing coverage at Regional level was 92.2%, which is a notable improvement on the 67.6% testing coverage at baseline. Twelve HPCs reported HIV testing coverage of over 90% (Figure 4.1.9).

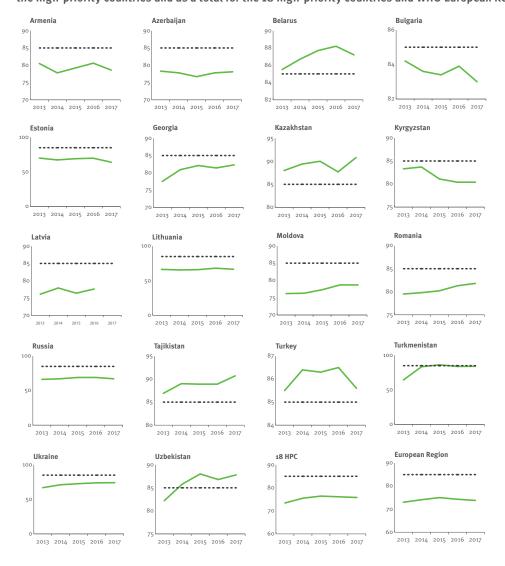


Fig. 4.1.6 Trend in treatment success rate for new and relapse TB cases enrolled into treatment 2014-2017 (G) in each of the high-priority countries and as a total for the 18 high-priority countries and WHO European Region, 2013-2017

 $Horizontal\ dashed\ line\ shows\ Regional\ target\ of\ 85\%\ treatment\ success\ rate.$

Indicator 1.D.3 Percentage of HIV coinfection among all TB (new and relapsed TB cases)

In 2018, 13.1% of new TB patients with known HIV status were HIV-positive compared to the 7.8% baseline in 2014. This rapid change is partially due to improvement of the surveillance system in the Russian Federation. An increase in TB/HIV coinfection has been recorded in eleven of the 18 HPCs. In 2018, Estonia, Georgia and Uzbekistan reported a lower percentage of HIV/TB cases than in 2015, however there is no clear trend towards reversion. The rapid increase in eleven of the HPCs is an indication that HIV transmission is continuing apace in most eastern European and Central Asian countries and that efforts towards the early identification of people living with HIV (PLHIV) and the administration of preventive TB treatment are inadequate.

Indicator 1.D.4 Percentage of HIV/TB coinfected patients enrolled in ART

The TB action plan aims to achieve full coverage with antiretroviral therapy (ART) for all patients detected with TB/HIV coinfection, as per WHO recommendations. In 2018, 27 countries in the Region provided information on ART enrolment among TB cases with positive HIV status. Among the reporting countries, ART coverage was 73.1%. This is a remarkable improvement compared to the baseline of 53.8%. Four of the high-priority countries attained coverage above 90% (Armenia, Belarus, Georgia and Kazakhstan). Most of the 18 HPCs showed an increase in ART coverage, however the trends are quite slow and not stable. Consequently, more efforts are needed to further strengthen TB/HIV collaborative activities in the Region.

Azerbaijan Belarus Bulgaria Armenia 2013 2014 2015 2016 2017 2013 2014 2015 2016 2017 2013 2014 2015 2016 2017 2013 2014 2015 2016 2017 Kazakhstan Kyrgyzstan Georgia Estonia 2013 2014 2015 2016 2017 2013 2014 2015 2016 2017 2013 2014 2015 2016 2017 Latvia Lithuania Moldova Romania 2013 2014 2015 2016 2017 2013 2014 2015 2016 2017 2013 2014 2015 2016 2017 Russia Taiikistan Turkey Turkmenistan 2013 2014 2015 2016 2017 Ukraine Uzbekistan 18 HPC **European Region**

Fig. 4.1.7 Trend in treatment success rate in the RR/MDR-TB cohort enrolled in treatment (G) (E) between 2012 and 2016 for each of the 18 high-priority countries, and as a total for the 18 high-priority countries and WHO European Region, 2012–2016

Horizontal dashed line shows Regional target of 75% treatment success rate.

Indicator 1.D.5 Latent TB infection treatment coverage among people living with HIV/AIDS (PLHIV)(G)

In 2018, a total of 10 countries in the Region provided information on latent TB infection (LTBI) treatment to the UNAIDS reporting system. Overall, of 40 470 PLHIV newly enrolled in HIV care, 69% received LTBI treatment. In Russia, which accounted for 40% of data, 97% of PLHIV received LTBI treatment, which is a much higher figure than the 30% target. Belarus reported no child contacts under five years enrolled in LTBI treatment, while in Armenia and Tajikistan the coverage was far below the target of 30%. Such significant variation from country to country indicates a lack of standardised approach and shortcomings in adherence to WHO recommendations (Figure 4.1.10).

Indicator 1.E.1 Contact investigation coverage (G)(E)

2013 2014 2015 2016 2017

Contact tracing is a key component of TB prevention, especially in children. Contact investigation may result in earlier identification of people who are ill or infected with TB, possibly decreasing disease severity and reducing transmission of *Mycobacterium tuberculosis*. WHO recommends that all contacts of bacteriologically confirmed TB patients be followed up and screened for TB.

This indicator is calculated as the number of contacts of people with bacteriologically confirmed TB evaluated for TB, divided by the number eligible. Only 13 countries in the Region reported contact-tracing data to the WHO Global TB Database, and 95.1% of all contacts with TB cases were investigated for TB/LTBI in 2018. The target of 90% was achieved by all seven reporting HPCs (Figure 4.1.11).

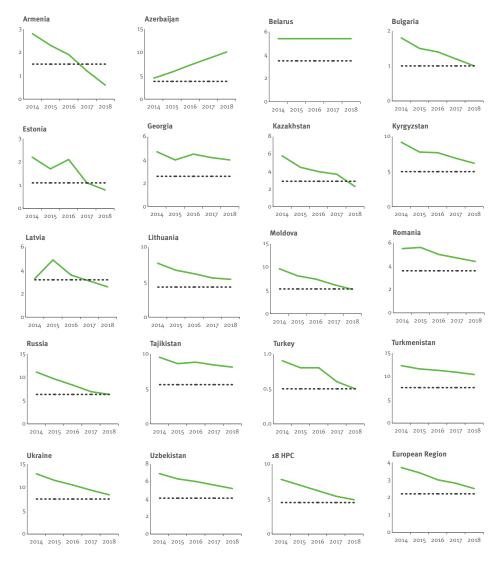


Fig. 4.1.8 Trend in TB mortality rate (G) (E) for the 18 high-priority countries and WHO European Region, 2012-2018

Horizontal dashed line shows Regional milestone of 35% reduction in TB deaths by 2020 compared to 2015

Indicator 1.E.2 LTBI treatment coverage of childhood TB contacts aged under 5 years (G) (E)

WHO recommends that children <5 years of age who are household or close contacts of people with TB and who, after an appropriate clinical evaluation, are found not to have active TB should be treated for presumed LTBI as per WHO guidelines. The Regional action plan aims to achieve at least 90% presumptive LTBI treatment coverage of childhood TB contacts aged under five years. This indicator is calculated as the number of children aged <5 years who are household contacts of cases started on LTBI treatment, divided by the number of all child contacts <5 years. In 2018, a total of 12 countries provided information in the Global TB database on childhood contact investigations. At Regional level, LTBI treatment coverage of childhood TB contacts aged under 5 years was 42.1%. Uzbekistan and

Ukraine were the only countries among the 18 HPCs that achieved the 90% target (Figure 4.1.12).

Indicator 2.E.1 Treatment success (%) of new and relapsed TB cases among prisoners

In 2018, 25 countries in the Region provided data on treatment outcome of prison TB cases. Overall the treatment success rate of new and relapse TB cases at Regional level was 59.9%, which is much lower than the 77.1% treatment success rate in the general population or the 63.2% baseline. The Regional indicator is largely influenced by the results for Russia, which accounts for around 79% of prison TB cases with available treatment outcomes. Seven of the 18 HPCs achieved the target treatment success rate of 85%.

Conclusions and monitoring recommendations

In 2018, 20 out of 26 indicators in the TB action plan for the WHO European Region were effectively monitored

Fig. 4.1.9 HIV testing coverage among new and relapse TB patients (G) (E) for the 18 high-priority countries and WHO European Region, 2018

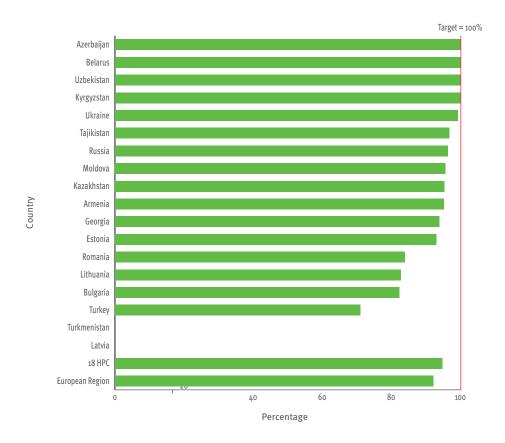
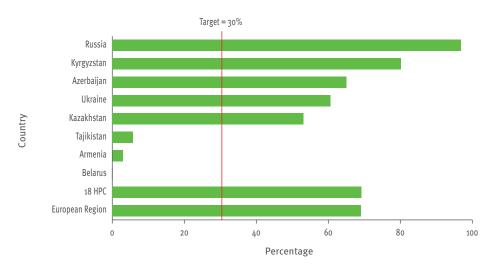


Fig. 4.1.10 LTBI treatment coverage among PLHIV (G) for the 18 high-priority countries and WHO European Region, 2018



and evaluated using routine surveillance data. Of the 20 targets monitored nine were achieved at Regional level. The progress achieved in reducing the burden of TB mortality and notifying new and relapse TB patients (as a proxy of TB incidence) was particularly impressive for the Region.

The cumulative reduction in incidence for the period 2015–2018 was 15.0%, with a 26% cumulative decrease in TB

deaths observed during the same period. This indicates that the Region is on track to achieve the 2020 Regional action plan target to reduce the TB incidence rate in 2020 by 25% and TB deaths by 35% against the 2015 baseline. Most high-priority countries in the Region have already achieved or are on track to reach the 2020 milestones of the global End TB strategy as well as the targets of the Regional action plan.

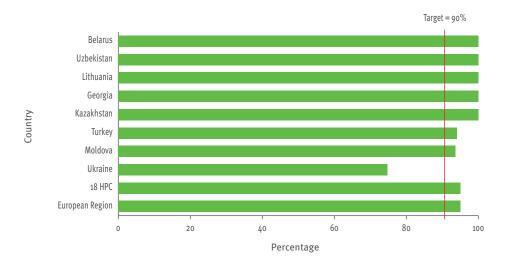
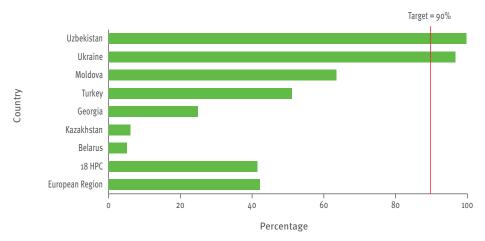


Fig. 4.1.11 Contact investigation coverage (G) (E) for the 18 high-priority countries and WHO European Region, 2018

Fig. 4.1.12 LTBI treatment coverage in childhood TB contacts aged under five years (G) (E) for the 18 high-priority countries and WHO European Region, 2018



In addition, a substantial increase in HIV testing and ART coverage has been observed, from 69.7% to 91.5% and 59.1% to 73.1% respectively. Moreover, in the past few years, an increase in testing coverage using WHO-recommended rapid diagnostics has been documented, with 63.4% of incident TB cases being tested using this platform in 2018, compared to 45.3% in 2015.

Although eleven targets set by the Regional action plan were not achieved, improvement has been noted against the baseline data. The treatment success rates for new and relapse TB cases and RR/MDR TB cases are still below the global and Regional targets, however, when data collected between 2016 and 2019 are compared, a slow but sustainable increase can be seen in both incident TB and RR/MDR TB cohorts, from 75.78% to 77.1% and 48.8% to 57.4% respectively.

The Region is not on track to achieve six targets, including the percentage of RR/MDR TB among new and previously TB cases, the prevalence of HIV among new and relapse TB cases, preventive treatment coverage among children

under five years and the treatment success rate among TB patients in prison. Despite the efforts made, the burden related to RR-TB and TB/HIV is still increasing, indicating the need to introduce new, more innovative and effective approaches to address those issues. Prevention efforts, including contact tracing, LTBI treatment coverage and ART coverage among PLHIV, need to be intensified.

4.2 European Union and European Economic Area countries

In 2016, WHO's Regional Office for Europe, working closely with representatives from the countries, experts and communities, developed the 'Roadmap to implement the tuberculosis action plan for the WHO European Region 2016–2020'. This roadmap is based on lessons learnt implementing the Regional Committee Resolution on The Consolidated Action Plan to Prevent and Combat Multidrugand Extensively Drug-Resistant Tuberculosis in the WHO European Region 2011–2015. It is applicable to all Member

States in the WHO European Region, including high-priority countries and those with a low incidence of TB.

The Roadmap to implement the tuberculosis action plan for the WHO European Region 2016–2020 was published in 2016, establishing three areas of intervention with 26 indicators to assess the performance of the countries in tackling TB.

This is the second monitoring report containing these WHO indicators. A summary of findings by EU/EEA Member State and indicator is provided in Table 30, while indicator definitions and targets can be found in Annex 6.

1. Integrated patient-centred care and prevention

1.A. Systematic screening of contacts and high-risk groups

Indicator 1.A.1 Coverage of population at risk with systematic screening for active TB and LTBI

Screening for active TB and LTBI should be promoted to contribute to the detection of active and latent cases of TB, especially in at-risk populations. The less generalised the epidemic becomes, the more emphasis needs to be placed on this activity. This indicator is a direct measure of the level of screening in the community. Strategies for screening should be developed and/or revised taking into account the WHO recommendations [1-2] and ECDC guidance [3-4]. Of the 30 countries reporting on this data, seven also reported on the coverage of systematic screening for active TB and LTBI for 2018 and six countries (Bulgaria, Lithuania, Norway, Portugal, Romania and Slovakia) reported a screening coverage of over 80% for the population at risk (Table 30).

1.B. Early diagnosis of all forms of TB and universal access to drug-susceptibility testing, including the use of rapid tests

Indicator 1.B.1 Percentage of TB patients diagnosed using WHO-recommended rapid tests (G)

Thirty EU/EEA Member States reported on the proportion of patients notified with new and relapse TB in 2018 who were diagnosed using WHO-recommended rapid tests (Table XV). Overall, 27.9% of cases reported in the EU/EEA are diagnosed using WHO-recommended rapid tests. The target for 2018 was 30%, which was met by 17 Member States (Figure 4.2.1).

Indicator 1.B.2 First-line DST coverage (%) among all bacteriologically-confirmed TB cases (G)

In 2018, 31 469 incident TB cases were bacteriologically confirmed in 30 EU/EEA Member States, and for 25 248 (80.2%) of them, DST results for rifampicin and isoniazid were also provided (Table 11). The target (close to 100%) was achieved by six countries (Cyprus, Iceland, Liechtenstein, Lithuania, Luxembourg and Slovenia) (Figure 4.2.2).

Indicator 1.B.3 RR/MDR TB case detection rate (%)

In 2016, WHO started replacing MDR TB estimates with RR TB estimates, since the latter is a good proxy of the former and the recommended management is identical for both. The RR/MDR TB case detection rate is calculated by dividing the number of notified cases with RR/MDR TB by the estimated number of such cases. In 2018, 17 EU/EEA countries achieved an RR/MDR TB detection rate of 85% or more (Table 30). Six countries (Cyprus, Iceland, Latvia (which did not report case-based data for 2018), Liechtenstein, Malta and Slovenia) did not report any RR/MDR TB cases for 2018 so their detection rate could not be calculated. Croatia had a RR TB estimate of 0 cases and their detection rate could also not be calculated.

Indicator 1.B.4 TB notification rate per 100 0000 population (E)

One target of the Regional action plan is to reduce the TB incidence rate by 25% by 2020 against the 2015 baseline. To achieve this, countries should have at least a 5.5% annual reduction in the notification of new and relapse TB cases.

In 2018, country-specific notification rates in EU/EEA Member States differed considerably, ranging from 2.3 per 100 000 in Iceland to 59.3 in Romania (Table 4). Rates were below the Regional target (24.6 per 100 000) in 28 countries. Only Lithuania and Romania reported rates above the Regional target, but as they have had an average annual decrease of over -5.5% since 2015, they are on track to meet the 2020 target and are shown in green (Table 30) (Figure 4.2.3).

Indicator 1.B.5 TB case-detection rate (%)

In 2018, 50 455 new and relapse TB cases (Table 4) were notified in 30 countries compared to an estimated 58 000 TB cases (Table 1) representing a case-detection rate of 87.8%. In 2018, 28 EU/EEA Member States reported a case detection rate of over 75% and above (Table 30), with 18 countries achieving the target of an increase in case-detection rate against 2016.

Indicator 1.B.6 Percentage of RR/MDR TB among new TB patients (E)

In 2018, 29 EU/EEA countries reported on first-line anti-TB DST results. The prevalence of RR/MDR TB among 20 718 new pulmonary TB cases with first-line DST results was 2.7% (Table 30), the same as in 2016. Cyprus, Iceland, Liechtenstein, Malta and Slovenia did not report any new RR/MDR TB cases in 2016 or 2018. The target of a decreasing percentage was met by 10 EU/EEA countries (Figure 4.2.4).

Indicator 1.B.7 Percentage of RR/MDR TB among previously treated TB patients

In 2018, the prevalence of RR/MDR TB among 3 210 previously treated pulmonary TB cases tested for first-line DST was 14.4% (Table 30), which is slightly less than in 2016 (15.0%). Cyprus, Denmark, Norway and Slovenia did not report any previously treated RR/MDR TB cases in 2016 or 2018 and were not assessed.

1.C Equitable access to quality treatment and continuity of care for all people with TB, including drug-resistant TB, and patient support to facilitate treatment adherence

Indicator 1.C.1 Percentage of hospitalisation of new TB patients (E)

In the EU/EEA, 16 Member States reported on hospitalisation of new TB patients in 2018. There were no baseline data available for 2014. A decrease in hospitalisation of new TB patients was observed in five countries between 2016 and 2018 (Figure 4.2.5).

Indicator 1.C.2 Percentage of detected RR/MDR TB enrolled in treatment (G)

Twenty-four Member States reported on treatment enrolment of RR/MDR TB patients in 2018. The target of close to 100% treatment enrolment was met by 18 countries and two countries enrolled >95% of RR/MDR TB patients. Cyprus, Iceland, Italy, Latvia (which did not report casebased data for 2018), Liechtenstein, Malta and Slovenia did not diagnose any MDR TB cases in 2018. Altogether, 98.4% of RR/MDR TB cases reported in the EU/EEA started treatment with second-line anti-TB drugs in accordance with WHO guidelines (Figure 4.2.6).

Indicator 1.C.3 TB treatment success rate (%) among all new and relapsed TB patients (G)

Of the 36 918 new and relapse TB cases notified in 2017 with a treatment outcome reported in 2018, 27 867 (75.5%) were treated successfully (Table 21). France, Greece, Italy, (Latvia), Luxembourg, Malta and Poland did not report treatment outcome. Only seven countries (Iceland, Liechtenstein, the Netherlands, Norway, Romania, Slovakia and Sweden) met the treatment success target of 85% (Figure 4.2.7).

Indicator 1.C.4 TB treatment success rate (%) among the RR/MDR TB treatment cohort (G) (E)

Of the 1 182 RR TB cases notified in 2016 with a treatment outcome reported in 2018, 590 (49.9%) were treated successfully (Table 26). Of 18 Member States reporting treatment success for cases diagnosed in 2016, only three countries (Belgium, Norway and Sweden) met the treatment success target of 75%. Treatment success ranged from 26.3% in Portugal to 92.0% in Sweden (Figure 4.2.8).

Indicator 1.C.5 TB mortality rate (ICD A15-19) (G) (E)

For 2018, WHO estimated 3 730 TB deaths among HIV-negative people in the European Region (Table 1). The estimated mortality for the EU/EEA was 0.7 deaths per 100 000 population, ranging from 0.0 in Liechtenstein to over four in Lithuania and Romania. The Regional target of below 2.7 cases per 100 000 was met by all EU/EEA Member States except Lithuania and Romania (Figure 4.2.9).

1.D Collaborative TB/HIV activities and management of comorbidities

Indicator 1.D.1 TB/HIV case-detection rate (%)

In 2018, 21 EU/EEA Member States reported on TB patients with HIV infection (Table 17). The detection rate of TB/HIV co-infected cases is based on reporting data (numerator) and WHO estimates (denominator, not available for Cyprus and Liechtenstein). The target HIV case-detection rate of close to 100% was only reached by Iceland, Ireland and Slovakia.

Indicator 1.D.2 HIV testing coverage (%) (G) (E)

Twenty-one EU/EEA countries provided information on the HIV status of their TB cases and 74.9% of cases had a known HIV status (Table 17). The target testing coverage of close to 100% was achieved by Iceland (Figure 4.2.10).

Indicator 1.D.3 Percentage of HIV among all TB

In 2018, 21 EU/EEA Member States reported 991 new and relapse TB cases with HIV infection. Country-specific proportions ranged from 0.0% in Bulgaria, Croatia, Luxembourg and Slovenia to above 12% in Hungary and Iceland (Table IX). It was not possible to assess any change in this target for countries with less than 50% reporting completeness for HIV. Six countries (Estonia, Lithuania, Norway, Portugal, Romania and Slovenia) reached the target (decrease in the percentage of HIV among all TB cases reported against 2016).

Indicator 1.D.4 ART coverage (%) among TB/HIV co-infected

Six EU/EEA Member States reported ART enrolment to the WHO Global TB Database (Table 17). In these countries 84.2% of HIV-coinfected TB cases had started ART in 2018. The target for enrolment coverage of close to 100% was not achieved by any of the EU/EEA Member States.

Indicator 1.D.5 LTBI treatment coverage (%) among PLHIV (G)

The target for LTBI treatment coverage among PLHIV is 30%. No relevant data were available in the WHO Global TB database for any EU/EEA Member States in 2018, therefore this indicator could not be monitored.

1.E Management of LTBI and preventive treatment of persons at high risk, and vaccination against TB

Indicator 1.E.1 Contact investigation coverage (%) (G) (E)

Only three EU/EEA Member States reported contact investigation data whereby 98.6% of all eligible contacts of people with bacteriologically confirmed TB had been investigated for TB/LTBI in 2018 (Table 30). The target of 90% was achieved by all reporting Member States (Figure 4.2.11).

Indicator 1.E.2 LTBI treatment coverage (%) in childhood TB contacts aged under five years (G) (E)

Only two EU/EEA Member States reported LTBI treatment coverage data for childhood TB contacts aged under five years, with 65.9% of these contacts reported to have started LTBI treatment in 2018 (Table 30). However, the target of 90% was not achieved by either of the two reporting countries (Norway and Slovakia) (Figure 4.2.12).

2. Bold policies and supportive system

2.A Political commitment with adequate resources, including universal health coverage policy

Indicator 2.A.1 Number of Member States that have a regular TB control/elimination performance publication every five years (E)

Target: 53 countries. Data are not available for 2018.

2.B Health system strengthening in all functions, including well aligned functioning mechanisms for TB and human resources

Indicator 2.B.1 Percentage of TB patients and their households that experience catastrophic financial consequences due to TB (G) (E)

Target: Close to o. Data are not available for 2018.

2.C Regulatory frameworks for case-based surveillance, strengthening vital registration, quality and rational use of medicines and pharmacovigilance

Indicator 2.C.1 Treatment coverage with new TB drugs (%)

Target: 20%. Data are not available for 2018.

2.D Community systems and civil society engagement

Indicator 2.D.1 Number of Member States with functioning multi-stakeholder coalitions advocating for TB care and resources

Target: 53 countries. Data are not available for 2018.

2.E Social protection, poverty alleviation and actions on other determinants of TB, such as migration and prisons

Indicator 2.E.1 Treatment success rate (%) of new and relapse TB cases among prisoners

Of the 326 TB cases notified in prisons across 11 EU/EEA Member States in 2017 for whom treatment outcome data are available, 246 (75.5%) were treated successfully (Table 25). Ireland, Luxembourg and Malta reported no TB cases among prisoners. Among the 11 Member States reporting, treatment success ranged from 45.0% in the Netherlands to 100% in Slovakia. Three countries (Bulgaria, Romania and Slovakia) met the treatment success target of 85% for TB cases diagnosed in prisons.

3. Intensified research and innovation

3.A Discovery, development and rapid uptake of new tools, interventions and strategies

Indicator 3.A.1 European TB research initiative established by mid-2016

Target: Established. The country-specific indicators are not defined for 2018.

Conclusions and monitoring recommendations

In 2018, 20 of 26 WHO targets were monitored based on the data available from EU/EEA Member States. A large number of the EU/EEA Member States met the four targets regarding estimated TB case detection (at least 84%), estimated RR/MDR TB case detection (at least 85%), TB notification (below 24.6 per 100 000), treatment enrolment of RR/MDR TB cases (100%) and estimated TB mortality (below 2.7 per 100 000). A majority of reporting EU/EEA Member States also met or were close to meeting the targets on use of WHO-recommended rapid tests for diagnosis (30% of new cases and relapses) and first-line DST coverage among bacteriologically confirmed cases (100%).

However, only a minority of Member States reported meeting the targets regarding the percentage of RR/MDR TB among new TB patients and previously treated patients (decrease against 2016), treatment success rate among all new and relapse TB patients (85%), and the percentage of HIV coinfection (decrease against 2016). Finally, a small minority of countries met the targets regarding RR/MDR TB treatment success (75%), HIV testing coverage (100%) and the estimated detection of TB/HIV coinfection (90%).

Although, TB seems well under control in most of the EU/EEA Member States, certain aspects could be improved, especially the treatment success of TB and MDR TB, and HIV testing coverage and detection. Special efforts are needed to improve the reporting of LTBI, HIV status and treatment outcome results.

References

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Fig. 4.2.1 Indicator 1.B.1. Percentage of TB patients diagnosed using WHO-recommended rapid tests (G), EU/EEA, 2018

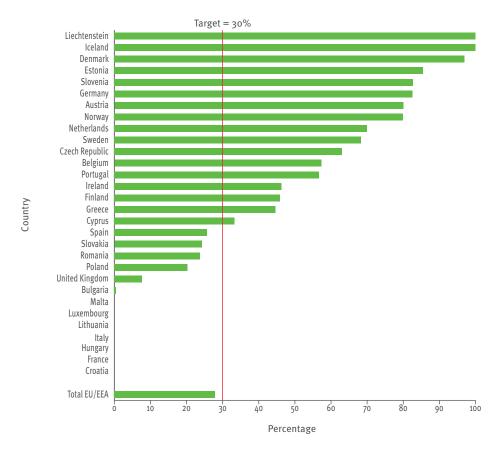


Fig. 4.2.2 Indicator 1.B.2. First-line DST coverage (%) among all bacteriologically confirmed TB cases (G), EU/EEA, 2018

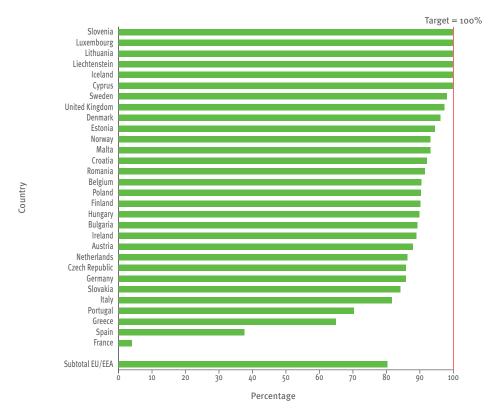


Fig. 4.2.3 Indicator 1.B.4. TB notification rate per 100 000 population (E), EU/EEA, 2018

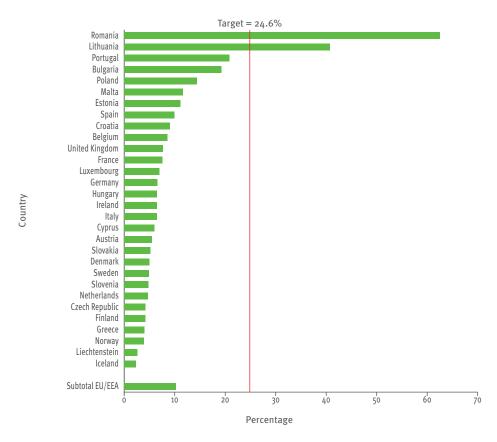


Fig. 4.2.4 Indicator 1.B.6 Percentage of RR/MDR TB among new TB patients (E), 2016 and 2018, EU/EEA, 2018

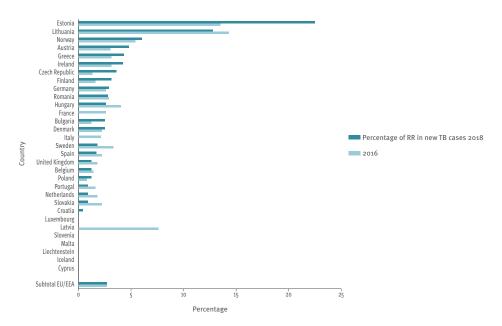


Fig. 4.2.5 Indicator 1.C.1 Percentage of hospitalisation for new TB patients (E), EU/EEA, 2018

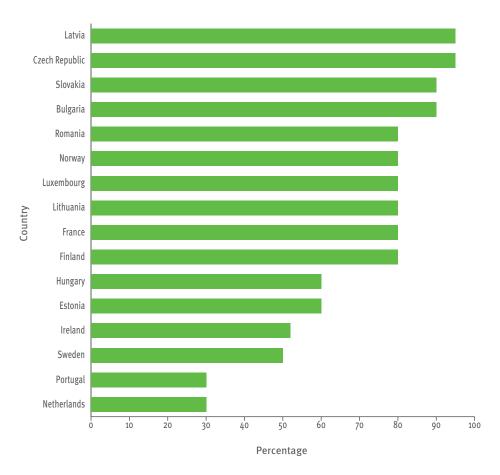


Fig. 4.2.6 Indicator 1.C.2 Percentage of detected RR/MDR TB enrolled in treatment (G), EU/EEA, 2018

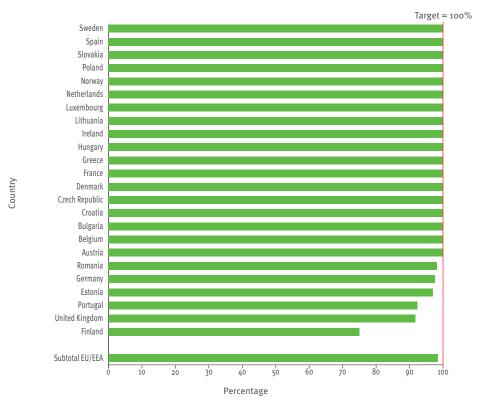


Fig. 4.2.7 Indicator 1.C.3 TB treatment success rate (%) among all new and relapsed TB cases (G), EU/EEA, 2018

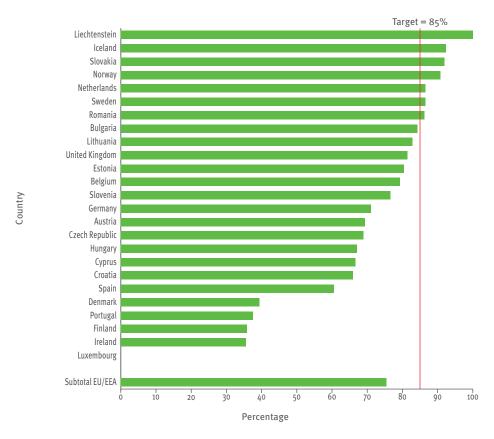


Fig. 4.2.8 Indicator 1.C.4 TB treatment success rate (%) among the RR/MDR TB cohort (G) (E), EU/EEA, 2018

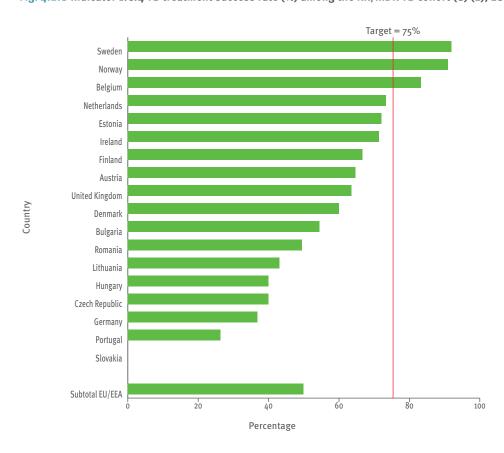


Fig. 4.2.9 Indicator 1.C.5 TB mortality rate (ICD A15-19) (G) (E), EU/EEA, 2018

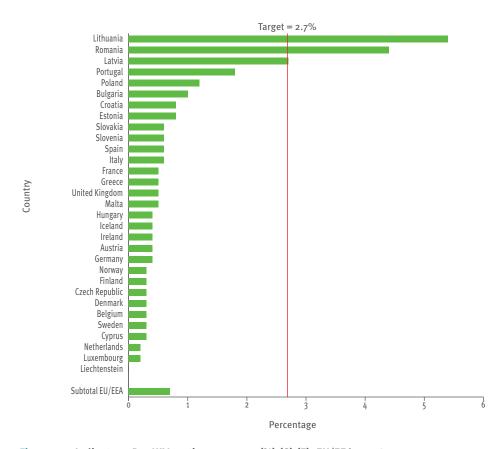


Fig. 4.2.10 Indicator 1.D.2 HIV testing coverage (%) (G) (E), EU/EEA, 2018

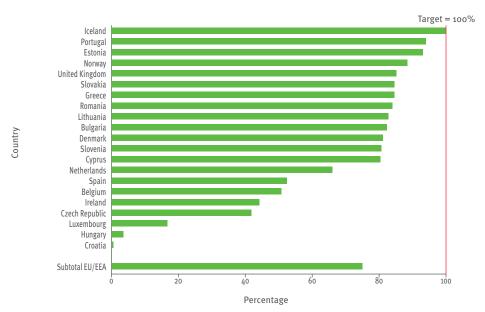


Fig. 4.2.11 Indicator 1.E.1 Contact investigation coverage (%)(G) (E), EU/EEA, 2018

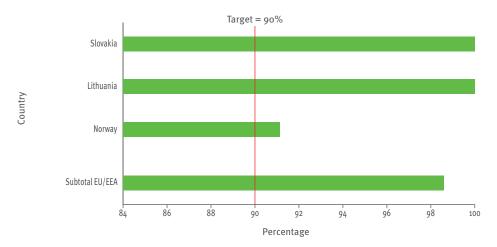
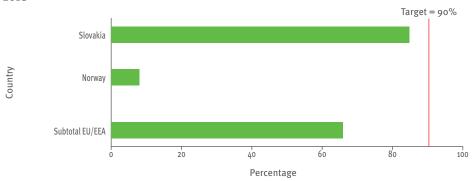
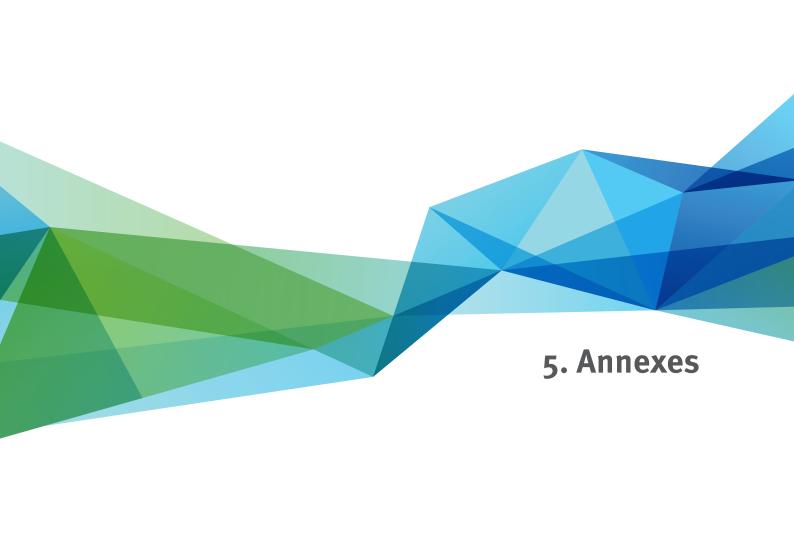


Fig. 4.2.12 Indicator 1.E.2 LTBI treatment coverage (%) of childhood TB contacts aged under five years (G) (E), EU/EEA, 2018





Annex 1. Tuberculosis surveillance system overview, EU/EEA, 2018

| Country | | Level | C | | Nettend | Data available | | | | | |
|----------------|--------------------------------------|--------------------|------------------------|------|----------------------|---------------------------|------------------------------------|--|--|--|--|
| | Data source | Legal character | Compre- hensiveness | Туре | National coverage | EuroTB aggregated data | TESSy case-based data ^a | | | | |
| Austria | AT-TUBERKULOSEGESETZ | Ср | Со | С | Υ | - | 1995-2018 | | | | |
| Belgium | BE-TUBERCULOSIS | Ср | Со | C | Υ | - | 1995-2018 | | | | |
| Bulgaria | BG-MOH | Ср | Co | C | Υ | 1995-2006 | 2007-2018 | | | | |
| Croatiab | HR-CNIPH | Ср | Со | C | Υ | 1995-2007 | 2012-2018 | | | | |
| Cyprus | CY-NOTIFIED_DISEASES | Ср | Co | C | Υ | 1995-2001 | 2002-2018 | | | | |
| Czech Republic | CZ-TUBERCULOSIS | Ср | Co | C | Υ | - | 1995-2018 | | | | |
| Denmark | DK-MIS | Ср | Co | С | Υ | - | 1995-2018 | | | | |
| Estonia | EE-TBC | Ср | Со | C | Υ | - | 1995-2018 | | | | |
| Finland | FI-NIDR | Ср | Co | С | Υ | - | 1995-2018 | | | | |
| France | FR-MANDATORY_INFECTIOUS_ DISEASES | Ср | Co | C | Υ | - | 1995-2018 | | | | |
| Germany | DE-SURVNET@RKI-7.1/6 | Ср | Co | C | Υ | 1995-2000 | 2001-2018 | | | | |
| Greece | EL-NOTIFIABLE_DISEASES | Ср | Со | C | Υ | 1995-2001 | 2002-2018 | | | | |
| Hungary | HU-TUBERCULOSIS | Ср | Co | C | Υ | 1995-1998 | 1999-2018 | | | | |
| Iceland | IS-TUBERCULOSIS | Ср | Со | C | Υ | - | 1995-2018 | | | | |
| Ireland | IE-CIDR | Ср | Со | C | Υ | 1995-1997 | 1998-2018 | | | | |
| Italy | IT-NRS | Ср | Со | C | Υ | - | 1995-2018 | | | | |
| Latvia | LV-TB | Ср | Co | С | Υ | 1995-2000 | 2001-2018 | | | | |
| Liechtenstein | CH-SFOPH-LI | Ср | Со | C | Υ | - | 1995-2018 | | | | |
| Lithuania | LT-TB_REGISTER | Ср | Co | С | Υ | 1995-2002 | 2003-2018 | | | | |
| Luxembourg | LU-SYSTEM1 | Ср | Со | C | Υ | - | 1995-2018 | | | | |
| Malta | MT-DISEASE_SURVEILLANCE | Ср | Co | С | Υ | - | 1995-2018 | | | | |
| Netherlands | NL-NTR | Ср | Со | C | Υ | - | 1995-2018 | | | | |
| Norway | NO-MSIS_A | Ср | Co | С | Υ | - | 1995-2018 | | | | |
| Poland | PL_CR | Ср | Со | C | Υ | 1995-1999 | 2000-2018 | | | | |
| Portugal | PT-TUBERCULOSIS | Ср | Co | С | Υ | 1995-1999 | 2000-2018 | | | | |
| Romania | RO-NTBSy | Ср | Со | C | Υ | - | 1995-2018 | | | | |
| Slovakia | SK-NRT | Ср | Co | С | Υ | 1995 | 1996-2018 | | | | |
| Slovenia | SI-TUBERCULOSIS | Ср | Со | C | Υ | - | 1995-2018 | | | | |
| Spain | ES-STATUTORY_DISEASES | Ср | Co | С | Υ | 1995-2006 | 2007-2018 | | | | |
| Sweden | SE-SweTBReg | Ср | Со | C | Υ | - | 1995-2018 | | | | |
| United Kingdom | UK-TUBERCULOSIS | Ср | Co | С | Y | 1995-1997 | 1998-2018 | | | | |

Cp - compulsory reporting.
Co - comprehensive.
C - case-based.
Y - yes.
For some years data from France, Spain and Italy related to drug susceptibility testing are collected in aggregated format from the WHO TB Monitoring and Evaluation data (TME).
Data reported since 2012 to TESSy, historical data extracted from WHO TB Monitoring and Evaluation data (TME).

Annex 2. List of variables for 2018 tuberculosis data collection^a

| | List | Description |
|-------|-----------------------------|--|
| Comr | non set of variables | |
| | RecordId | Unique identifier for each record generated by the national surveillance system |
| _ | RecordType | Structure and format of the data |
| 3 | RecordTypeVersion | Indicates which version the sender uses when generating the data for upload |
| 4 | Subject | Disease to report |
| 5 | Status | Status of reporting NEW/UPDATE or DELETE (inactivate) |
| 6 | DataSource | The data source (surveillance system) that the record originates from |
| 7 | ReportingCountry | The country reporting the record |
| 8 | PlaceOfNotification | Place of the first notification of the case to a regional authority |
| 9 | PlaceOfResidence | Place of residence of patient at the time of disease onset |
| | Age | Age of patient in years as reported in the national system |
| | Gender | Gender of the reported case |
| 12 | DateOfDiagnosis | First date of clinical or lab diagnosis |
| 13 | DateOfNotification | Date when the case is first reported to public health authorities |
| 14 | DateUsedForStatistics | The reference date used for standard reports (usually one of the above) |
| Disea | ase-specific variables | |
| 15 | BornReportingCountry | The patient was born in the country of report |
| 16 | CountryOfBirth | Country of birth of patient |
| 17 | CountryOfNationality | Country of nationality of patient |
| 18 | DateOfEntryToCountry | Date of entry to country – for TB cases not born in the reporting country |
| 19 | NationalityReportingCountry | Origin of the patient (based on citizenship) |
| 20 | MajorSiteOfTB | Major site of the disease |
| 21 | MinorSiteOfTB | Minor site of the disease |
| 22 | PrevDiagnosis | Previous diagnosis of tuberculosis |
| 23 | PrevDiagnosisYear | Year of previous diagnosis |
| 24 | PrevTreatment | Previous anti-TB drug treatment (at least one month of drug combination) |
| 25 | PrevTreatmentCompletion | Completion of the previous anti–TB drug treatment |
| 26 | DiagnosedAnteMortem | Vital status of the patient at the time of diagnosis |
| , | EnrolledToTreatment | Patient started appropriate TB treatment according to international recommendations |
| | Outcome12Months | Patient first outcome at 12 months from the start of the treatment |
| | Outcome24Months | The first outcome observed 13 to 24 months from the start of treatment |
| 30 | Outcome36Months | The first outcome observed 25 to 36 months from the start of treatment |
| 31 | ResultCulture | The result of the culture test for Mycobacterium tuberculosis complex |
| _ | ResultMicroscopy | The result of the microscopy test performed |
| | ResultOtherTest | Additional lab test results |
| | Pathogen | Species and gene (<i>M. tuberculosis</i> complex) of the pathogen which is the cause of the reported disease |
| | HIVStatus | Result of the last HIV test |
| | SIR_AMK | Susceptibility to a mikacin |
| | SIR_BDQ | Susceptibility to bedaquiline |
| | SIR_CAP | Susceptibility to capreomycin |
| | SIR_DLM | Susceptibility to delamanid |
| | SIR_ETH | Susceptibility to ethambutol |
| | SIR_GAT | Susceptibility to gatifloxacin Susceptibility to isoniazid |
| | SIR_INH SIR_KAN | Susceptibility to isoniazio |
| | | Susceptibility to levofloxacin |
| | SIR_LVX SIR_MFX | Susceptibility to moxifloxacin |
| | SIR_OFX | Susceptibility to ofloxacin |
| | SIR_PZA | Susceptibility to pyrazinamide |
| 47 | SIR_RIF | Susceptibility to rifampicin |
| | SIR_STR | Susceptibility to streptomycin |
| | IsolateID | Unique identifier for each isolate within the data source/lab system related to the case |
| | | Identifier for each isolate record that is guaranteed to be unique across countries/labs/pathogens and not contain |
| 51 | ECDCIsolateID | additional encoded information |
| 52 | SpoligoCode ^b | Spoligo pattern code |
| 53 | MiruCode ^b | MIRU pattern code |
| 54 | BeijingGenotypeb | Beijing genotype identification |
| | | |

Notification of TB cases for 2018, treatment outcome data updated for cohort 2017 and MDR TB treatment outcome data updated for cohort 2015.
 Optional variable. No need to be reported if the "IsolateID" or "ECDCIsolateID" is provided.

Annex 3. Completeness of data reported for 2018, EU/EEA

| | 1 | 1 | 1 | 1 | 1 | (100.0) | 1 | (100.0) | I | ı | (100.0) | 1 | (0.0) | I | I | 1 | 1 | ı | (100.0) | 1 | I | I | I | 1 | (100.0) | 1 | ı | 1 | 1 | (0.0) | (100.0) | (1) |
|---|---------|---------|----------|---------|---------|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------------|-----------|------------|---------|-------------|---------|---------|----------|---------|----------|----------|---------|---------|-----------------------------|--------------|
| Outcome 36 months* (%) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Outcome 24 months ^d (%) | (88.9) | (100.0) | (100.0) | ı | 1 | (100.0) | (100.0) | (100.0) | (100.0) | ı | (100.0) | 1 | (100.0) | 1 | (83.3) | I | 1 | ı | (100.0) | 1 | I | (100.0) | (100.0) | (0.0) | (42.9) | (100.0) | (100.0) | 1 | 1 | (100.0) | (100.0) | (0 00) |
| Outcome 12 months ^c (%) | (88.8) | (67.2) | (100.0) | (93.7) | (83.0) | (100.0) | (45.5) | (100.0) | (38.6) | (31.0) | (86.8) | (0.0) | (68.2) | (100.0) | (41.6) | (0.0) | 1 | (100.0) | (100.0) | (3.1) | (0.0) | (67.7) | (9.66) | (0.0) | (100.0) | (100.0) | (84.8) | (1.66) | (73.5) | (92.6) | (88.2) | (20 0) |
| Enrolled in treatment (%) | (0.0) | (98.2) | (100.0) | (89.0) | (100.0) | (100.0) | (0.0) | (100.0) | (82.6) | (0.0) | (68.5) | (66.3) | (100.0) | (100.0) | (100.0) | (80.5) | 1 | (100.0) | (100.0) | (100.0) | (64.5) | (186) | (100.0) | (0.1) | (8.66) | (100.0) | (100.0) | (100.0) | (0.0) | (100.0) | (8.4.8) | (1/27) |
| HIV Status (%) | (0.0) | (51.3) | (82.3) | (0.5) | (78.8) | (42.8) | (80.4) | (93.2) | (0.0) | (0.0) | (0.0) | (83.8) | (3.6) | (100.0) | (44.6) | (0.0) | 1 | (0.0) | (83.5) | (16.7) | (0.0) | (66.3) | (88.0) | (0.0) | (1,46) | (83.9) | (84.7) | (80.8) | (52.7) | (0.0) | (85.2) | (45.0) |
| DST SLD (%) | (100.0) | (100.0) | (100.0) | (100.0) | 1 | (100.0) | (100.0) | (100.0) | (100.0) | (100.0) | (100.0) | (100.0) | (100.0) | 1 | (100.0) | 1 | 1 | 1 | (100.0) | (100.0) | I | (100.0) | (100.0) | (100.0) | (100.0) | (100.0) | (100.0) | 1 | (100.0) | (100.0) | (100.0) | (4000) |
| DST FLD (%) | (92.6) | (92.3) | (89.2) | (80.8) | (67.5) | (90.6) | (98.6) | (97.6) | (93.8) | (3.7) | (60.4) | (88.4) | (88.9) | (100.0) | (88.6) | (0.0) | 1 | (100.0) | (100.0) | (100.0) | (1.46) | (89.3) | (88.7) | (92.4) | (8.69) | (92.2) | (98.6) | (100.0) | (38.7) | (86.8) | (68.2) | (2 1/2) |
| Result other test (%) | (84.9) | (68.1) | (6.7) | (0.0) | (32.7) | (73.6) | (67.3) | (88.4) | (53.5) | (0.0) | (82.6) | (43.5) | (0.0) | (100.0) | (56.1) | (0.0) | 1 | (100.0) | (1.8) | (0.0) | (0.0) | (48.6) | (93.8) | (20.0) | (70.4) | (28.8) | (56.6) | (0.96) | (32.7) | (6.07) | (14.9) | () (0) |
| Result microscopy (%) | (77.4) | (36.7) | (88.8) | (74.7) | (78.8) | (89.4) | (62.6) | (67.3) | (26.1) | (84.9) | (6003) | (67.1) | (86.4) | (62.5) | (43.6) | (69.4) | 1 | (100.0) | (100.0) | (60.2) | (1.69) | (75.9) | (82.8) | (87.1) | (77.4) | (6.4) | (61.5) | (86.6) | (88.8) | (75.4) | (64.2) | (0.4.4) |
| Result culture (%) | (93.4) | (0.96) | (87.7) | (0.96) | (64.2) | (6.86) | (67.3) | (67.3) | (84.3) | (49.4) | (86.4) | (52.8) | (88.8) | (37.5) | (78.3) | (77.3) | 1 | (100.0) | (100.0) | (88.1) | (61.8) | (82.0) | (92.8) | (88.1) | (84.2) | (95.8) | (81.8) | (0.76) | (87.3) | (9.66) | (61.8) | (200) |
| Diagnosed antemortem (%) | (100.0) | (100.0) | (100.0) | (92.5) | (100.0) | (100.0) | (100.0) | (100.0) | (100.0) | (0.0) | (98.6) | (66.3) | (100.0) | (100.0) | (100.0) | (0.0) | 1 | (0.0) | (100.0) | (100.0) | (0.0) | (1.86) | (100.0) | (100.0) | (81.3) | (100.0) | (100.0) | (100.0) | (0.0) | (100.0) | (100.0) | (123.4) |
| Previous treatment history ^b (%) | (78.4) | (84.1) | (100.0) | (85.2) | (66.2) | (100.0) | (100.0) | (100.0) | (68.3) | (57.1) | (72.7) | (92.1) | (100.0) | (100.0) | (63.4) | (77.9) | 1 | (100.0) | (100.0) | (0.0) | (64.5) | (9.66) | (100.0) | (100.0) | (62.3) | (100.0) | (026) | (0.86) | (0.99) | (66.4) | (62.6) | (6 / 4) |
| Site (%) | (100.0) | (100.0) | (6.66) | (95.4) | (100.0) | (100.0) | (0.66) | (100.0) | (100.0) | (9.66) | (6.86) | (67.5) | (100.0) | (87.5) | (62.6) | (1.66) | 1 | (100.0) | (100.0) | (100.0) | (100.0) | (866) | (100.0) | (100.0) | (66) | (100.0) | (100.0) | (100.0) | (100.0) | (100.0) | (6.66) | (00 1) |
| Country of origin (%) | (100.0) | (100.0) | (100.0) | (100.0) | (100.0) | (100.0) | (2.66) | (100.0) | (196.1) | (63.3) | (92.6) | (92.6) | (100.0) | (100.0) | (90.4) | (62.6) | 1 | (100.0) | (100.0) | (100.0) | (100.0) | (166) | (100.0) | (866) | (66.66) | (100.0) | (100.0) | (100.0) | (85.1) | (100.0) | (67.4) | (07.4) |
| Origin ^a (%) | (100.0) | (100.0) | (100.0) | (48.7) | (100.0) | (100.0) | (100.0) | (100.0) | (6.5) | (0.46) | (0.76) | (866) | (100.0) | (100.0) | (60.4) | (67.7) | 1 | (100.0) | (100.0) | (100.0) | (100.0) | (66.3) | (100.0) | (100.0) | (100.0) | (100.0) | (100.0) | (100.0) | (92.5) | (100.0) | (6.7.9) | (0.4.7) |
| Gender (%) | (100.0) | (100.0) | (100.0) | (100.0) | (100.0) | (100.0) | (100.0) | (100.0) | (100.0) | (66.2) | (66.6) | (100.0) | (100.0) | (100.0) | (100.0) | (100.0) | 1 | (100.0) | (100.0) | (100.0) | (100.0) | (66.6) | (100.0) | (100.0) | (100.0) | (100.0) | (100.0) | (100.0) | (100.0) | (100.0) | (100.0) | (000) |
| Age (%) | (100.0) | (100.0) | (100.0) | (100.0) | (100.0) | (100.0) | (100.0) | (100.0) | (100.0) | (100.0) | (100.0) | (66.3) | (100.0) | (100.0) | (100.0) | (866) | ı | (100.0) | (100.0) | (100.0) | (38.2) | (100.0) | (100.0) | (100.0) | (100.0) | (100.0) | (100.0) | (100.0) | (66.3) | (100.0) | (100.0) | (000) |
| | | u | , a | | | Szech Republic | 논 | | | | γL | | ý | | | | | nstein | ia | ourg | | lands | | | al | ia | a | a | | ٦ | United Kingdom ^f | A LINE A |
| Country | Austria | Belgium | Bulgaria | Croatia | Cyprus | Czech F | Denmark | Estonia | Finland | France | Germany | Greece | Hungary | Iceland | Ireland | Italy | Latvia | Liechtenstein | Lithuania | Luxembourg | Malta | Netherlands | Norway | Poland | Portugal | Romania | Slovakia | Slovenia | Spain | Sweden | United | Amelia Later |

WHO European Region TB high-priority countries presented in italics.

DST FLD - drug susceptibility testing for first line anti-tuberculosis drugs, calculated for confirmed tuberculosis cases.

DST FLD - drug susceptibility testing for first line anti-tuberculosis drugs, calculated only for multidrug-resistant tuberculosis cases.

HIV - Human immunodeficiency virus.

For determining the origin into variables merged: BornReporting Country and NationalityReportingCountry, depending on countries preference.

Flatory of previous treatment defined by previous diagnosis of tuberculosis for cases reported by Belgium, Denmark, Ireland, Norway and the United Kingdom.

Data for the acory cohort.

Data for the walkidrug-resistant tuberculosis 2016 cohort cases that are previously reported as still on treatment.

Data for the extensively drug-resistant tuberculosis 2015 cohort cases that are previously proported as still on treatment.

DST results are only reported for culture-confirmed cases (negative results are not provided).

⁶³

Annex 4. Reporting completeness into Global TB database, 2018

| Country/area | Identification (%) (17 fields) | Notification (%) (56 fields) | Anti-tuberculosis drug resistance surveillance (%) (40 fields) | Treatment outcome of TB cases by risk categories (%) (80 fields) | Implementing End TB Strategy (%) (98 fields) | Budget and expenditure (%) (70 fields) |
|--------------------------------------|-----------------------------------|---------------------------------|---|---|--|--|
| EU/EEA | | | | | | |
| Austria | (0.0) | (57.1) | (85.0) | (45.0) | (0.0) | (0.0) |
| Belgium | (100.0) | (85.7) | (100.0) | (82.5) | (41.8) | (4.3) |
| Bulgaria | (100.0) | (89.3) | (100.0) | (100.0) | (75.5) | (94.3) |
| Croatia | (0.0) | (57.1) | (100.0) | (37.5) | (0.0) | (0.0) |
| Cyprus | (0.0) | (57.1) | (82.5) | (37.5) | (0.0) | (0.0) |
| Czech Republic | (70.6) | (89.3) | (100.0) | (100.0) | (55.1) | (10.0) |
| Denmark | (0.0) | (51.8) | (100.0) | (37.5) | (0.0) | (0.0) |
| Estonia | (100.0) | (91.1) | (100.0) | (67.5) | (77.6) | (91.4) |
| Finland | (64.7) | (78.6) | (85.0) | (46.3) | (43.9) | (10.0) |
| France | (94.1) | (80.4) | (80.0) | (30.0) | (45.9) | (5.7) |
| Germany | (100.0) | (60.7) | (85.0) | (46.3) | (37.8) | (1.4) |
| Greece | (52.9) | (69.6) | (100.0) | (0.0) | (14.3) | (1.4) |
| Hungary | (70.6) | (85.7) | (100.0) | (100.0) | (60.2) | (12.9) |
| Iceland | (0.0) | (57.1) | (82.5) | (37.5) | (0.0) | (0.0) |
| Ireland | (88.2) | (83.9) | (100.0) | (65.0) | (57.1) | (5.7) |
| Italy | (29.4) | (73.2) | (100.0) | (0.0) | (31.6) | (0.0) |
| Latvia | (100.0) | (14.3) | (0.0) | (22.5) | (56.1) | (37.1) |
| Liechtenstein | (100.0) | (14.5) | (0.0) | (22.3) | (50.1) | (37.1) |
| Lithuania | (47.1) | (85.7) | (100.0) | (100.0) | (41.8) | (10.0) |
| Luxembourg | (88.2) | (89.3) | (82.5) | (43.8) | (54.1) | (4.3) |
| Malta | (88.2) | (85.7) | (67.5) | (25.0) | (35.7) | (2.9) |
| Netherlands | (100.0) | (89.3) | (100.0) | (100.0) | (44.9) | (8.6) |
| | (70.6) | (80.4) | | | (53.1) | (10.0) |
| Norway | | | (100.0) | (53.8) | | |
| Poland | (94.1) | (78.6) | (85.0) | (16.3) | (38.8) | (0.0) |
| Portugal Romania | (70.6) | (85.7) | (100.0) | (77.5) | (60.2) | (10.0) |
| | (100.0) | (92.9) | (100.0) | (100.0) | (83.7) | (100.0) |
| Slovakia | (64.7) | (91.1) | (100.0) | (100.0) | (69.4) | (12.9) |
| Slovenia | (0.0) | (57.1) | (82.5) | (37.5) | (0.0) | (0.0) |
| Spain | (0.0) | (57.1) | (7.5) | (52.5) | (0.0) | (0.0) |
| Sweden | (70.6) | (80.4) | (85.0) | (55.0) | (43.9) | (8.6) |
| United Kingdom | (100.0) | (82.1) | (100.0) | (92.5) | (16.3) | (1.4) |
| Subtotal EU/EEA | (60.2) | (72.2) | (84.2) | (52.1) | (36.7) | (14.3) |
| Non-EU/EEA | (*** *) | () | (22.5) | (1000) | (4= a) | (10.0) |
| Albania | (100.0) | (85.7) | (82.5) | (100.0) | (67.3) | (10.0) |
| Andorra | (58.8) | (87.5) | (47.5) | (100.0) | (53.1) | (10.0) |
| Armenia | (94.1) | (98.2) | (100.0) | (85.0) | (60.2) | (82.9) |
| Azerbaijan | (94.1) | (92.9) | (47.5) | (46.3) | (57.1) | (85.7) |
| Belarus | (100.0) | (100.0) | (95.0) | (85.0) | (66.3) | (94.3) |
| Bosnia and Herzegovina | (100.0) | (67.9) | (55.0) | (20.0) | (42.9) | (77.1) |
| Georgia | (100.0) | (92.9) | (85.0) | (78.8) | (81.6) | (100.0) |
| Israel | (100.0) | (87.5) | (100.0) | (53.8) | (35.7) | (1.4) |
| Kazakhstan | (100.0) | (98.2) | (50.0) | (70.0) | (76.5) | (100.0) |
| Kyrgyzstan | (100.0) | (96.4) | (100.0) | (86.3) | (61.2) | (100.0) |
| Moldova | (100.0) | (94.6) | (100.0) | (87.5) | (87.8) | (100.0) |
| Monaco | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) | (0.0) |
| Montenegro | (100.0) | (96.4) | (100.0) | (76.3) | (39.8) | (12.9) |
| North Macedonia | (100.0) | (96.4) | (100.0) | (100.0) | (71.4) | (10.0) |
| Russia | (64.7) | (91.1) | (50.0) | (85.0) | (56.1) | (100.0) |
| San Marino | (100.0) | (87.5) | (100.0) | (76.3) | (64.3) | (12.9) |
| Serbia | (94.1) | (92.9) | (100.0) | (100.0) | (79.6) | (98.6) |
| Serbia excluding Kosovo ^a | (94.1) | (92.9) | (100.0) | (100.0) | (79.6) | - |
| Kosovoa | (100.0) | (80.4) | (20.0) | (96.3) | (78.6) | - |
| Switzerland | (100.0) | (78.6) | (85.0) | (46.3) | (39.8) | (12.9) |
| Tajikistan | (100.0) | (100.0) | (100.0) | (100.0) | (66.3) | (100.0) |
| Turkey | (100.0) | (87.5) | (100.0) | (100.0) | (73.5) | (10.0) |
| Turkmenistan | (88.2) | (64.3) | (7.5) | (30.0) | (67.3) | (10.0) |
| Ukraine | (100.0) | (98.2) | (55.0) | (93.8) | (92.9) | (94.3) |
| Uzbekistan | (94.1) | (87.5) | (72.5) | (38.8) | (84.7) | (10.0) |
| Subtotal non-EU/EEA | (90.8) | (86.2) | (75.3) | (72.1) | (65.4) | (53.6) |
| Total European Region | (75.1) | (79.6) | (80.8) | (64.1) | (48.9) | (31.0) |
| Subtotal 18 HPCs | (93.5) | (87.5) | (75.7) | (76.5) | (70.4) | (73.3) |

'European Region' comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB High Priority Countries presented in italics.

a In accordance with the UN Security Council Resolution No. 1244 (1999).

Annex 5. Laboratory network capacity, European Region, 2018^a

| | | | | | Country | / laboratoi | y network | | | | . , |
|----------------------------|---|----------------------------|--|--|----------------------------|---------------|----------------------|--------------------------------|----------------------------|----------------------------------|-------------------------------------|
| | | | | | | | | Internation | nal profici al referenc | iency test e lab <u>orato</u> | ing of ory |
| Country/area | Micro | scopy | Culture | DST for is and rifa | | Line probe | Xpert MTB/ Rif | | Percer agreem result | itage ent of | |
| | Number of laboratories performing | EQA passed ^b | Number of aboratories performing | Number of aboratories performing | EQA passed ^b | assay | (N) | Year | isoniazid | rifampicin | Acceptable performance ^c |
| EU/EEA | | | | | | | | | | | |
| Austria | - | - | - | - | - | - | - | - | - | - | - |
| Belgium | 92 | 92 | - | 15 | 15 | 1 | 26 | 2018 | 100 | 100 | Υ |
| Bulgaria | 33 | 33 | 30 | 9 | 9 | 3 | 4 | 2018 | 100 | 100 | Y |
| Croatia | 15 | 1 | 15 | 6 | 6 | 1 | 1 | 2018 | 100 | 100 | Υ |
| Cyprus | - | - | - | - | - | - | - | - | - | - | - |
| Czech Republic | 38 | 38 | 38 | 22 | 12 | 3 | 12 | 2018 | 100 | 100 | Υ |
| Denmark | - | - | - | - | - | - | - | - | - | - | - |
| Estonia | 6 | 6 | 2 | 2 | 2 | 0 | 5 | 2018 | 100 | 95 | N |
| Finland | 9 | 9 | 9 | 1 | 1 | 2 | 5 | 2018 | 100 | 100 | Υ |
| France | 120 | 120 | 120 | 51 | - | 37 | 67 | 2018 | 100 | 100 | Υ |
| Germany | 125 | 125 | 96 | 44 | 44 | - | 41 | 2018 | 100 | 100 | Υ |
| Greece | - | - | - | - | 2 | - | - | - | - | - | - |
| Hungary | 11 | 11 | 11 | 6 | 2 | 1 | 5 | 2018 | 100 | 100 | Υ |
| Iceland | - | - | - | - | - | - | - | - | - | - | - |
| Ireland | 11 | 11 | 10 | 4 | 4 | 0 | 7 | 2018 | 100 | 100 | Υ |
| Italy | 42 | - | 42 | 66 | 59 | 24 | 32 | 2018 | 100 | 100 | Υ |
| Latvia | 11 | 11 | 4 | 1 | 1 | 0 | 2 | 2018 | 100 | 100 | Υ |
| Liechtenstein | - | - | - | - | - | - | - | - | - | - | - |
| Lithuania | - | - | - | - | - | - | - | - | - | - | - |
| Luxembourg | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 2018 | 100 | 100 | Y |
| Malta | 1 | 1 | 1 | 2 | | 0 | 1 | - | - | - | - |
| Netherlands | - | - | 30 | 8 | - | - | 0 | 2018 | 100 | 100 | Υ |
| Norway | 13 | - | 8 | 3 | 3 | 1 | 5 | 2018 | 100 | 100 | Υ |
| Poland | 49 | 49 | 49 | 39 | 39 | 0 | 22 | 2018 | 100 | 100 | Υ |
| Portugal | 48 | 39 | 47 | 27 | - | 15 | 21 | 2018 | 100 | 100 | Υ |
| Romania | 93 | - | 85 | 48 | 31 | 7 | 27 | 2018 | 100 | 100 | Υ |
| Slovakia | 5 | 5 | 4 | 2 | 2 | 1 | 1 | 2018 | 100 | 100 | Υ |
| Slovenia | - | - | - | - | - | - | - | - | - | - | - |
| Spain | - | - | - | - | - | - | - | - | - | - | - |
| Sweden | 5 | 5 | 5 | 6 | 6 | 2 | 3 | 2018 | 100 | 100 | Υ |
| United Kingdom | - | - | - | - | 0 | - | - | - | - | - | - |
| Subtotal EU/EEA Non-EU/EEA | 728 | 557 | 607 | 363 | 239 | 99 | 287 | 2018 | | | |
| Albania | 12 | 1 | 1 | 1 | 1 | 0 | 0 | 2017 | 100 | 100 | Υ |
| Andorra | 8 | - | 8 | 6 | - | 4 | 3 | 2017 | | - | - |
| Armenia | 24 | 24 | 1 | 1 | 1 | 0 | 13 | 2017 | 100 | 100 | Y |
| Azerbaijan | 55 | 27 | 7 | 5 | 5 | 2 | 11 | 2017 | 80 | 100 | N |
| D. I. | | 0.4 | 0.4 | | | | 28 | | 400 | 400 | Y |
| Bosnia and Herzegovina | 116 | 91 | 11 | 7 | - | 3 | - | 2018 | 100 | 100 | - |
| Georgia | 11 | 11 | 2 | 2 | 2 | 2 | 27 | 2018 | 88 | 91 | N |
| Israel | 17 | - | 17 | 3 | 3 | 1 | - | 2018 | 100 | 100 | Y |
| Kazakhstan | 295 | 290 | 20 | 40 | 40 | 11 | 59 | 2018 | 100 | 100 | Y |
| Kyrgyzstan | 126 | 126 | 5 | 3 | 2 | 2 | 24 | 2018 | 100 | 100 | Y |
| Moldova | 57 | 57 | 4 | 8 | 8 | 4 | 57 | 2018 | 100 | 100 | Y |
| Monaco | _ | _ | - | - | - | - | - | - | - | - | _ |
| Montenegro | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 2018 | 100 | 100 | Υ |
| North Macedonia | 7 | 7 | 3 | 1 | 0 | 0 | 1 | 2017 | 100 | 100 | Y |
| Russia | 5913 | 924 | 373 | 295 | 88 | 4 | 207 | - | - | - | _ |
| San Marino | 1 | 0 | 1 | 2 | 0 | 1 | 1 | - | - | - | _ |
| Serbia | 41 | 11 | 32 | 6 | 5 | 1 | 4 | 2018 | 100 | 100 | Υ |
| Serbia excluding Kosovod | 31 | 1 | 29 | 4 | 4 | 1 | 2 | 2018 | 100 | 100 | Y |
| Kosovo ^d | 10 | 10 | 3 | 2 | 1 | 0 | 2 | 2018 | 100 | 100 | Y |
| Switzerland | 32 | 32 | 21 | 11 | 11 | 5 | 53 | 2018 | - | - | _ |
| Tajikistan | 84 | 80 | 6 | 2 | 2 | 6 | 46 | 2018 | 100 | 100 | Υ |
| Turkey | 270 | 111 | 127 | 66 | - | - | 23 | 2018 | 100 | 100 | Y |
| - / | 64 | 1 | 5 | 9 | 2 | 6 | 6 | 2018 | 100 | 100 | Y |
| Turkmenistan | | | | 70 | 70 | 4 | 67 | 2018 | 100 | 100 | Y |
| Turkmenistan Ukraine | 840 | 836 | 90 | 70 | | | | | | | |
| | 840 270 | 836 259 | 90 | 70 | 2 | 7 | 58 | 2018 | 100 | 100 | Y |
| Ukraine | | | | | | | 58 689 | | 100 | 100 | Υ |
| Ukraine Uzbekistan | 270 | 259 | 6 | 7 | 2 | 7 | | 2018 2017-2018 2017-2018 | 100 | 100 | Υ |

^{&#}x27;European Region' comprises the 53 countries of the WHO European Region and Liechtenstein.
WHO European Region 18 TB high-priority countries presented in italics.
DST - drug susceptibility testing.

Data obtained from WHO Tuberculosis Monitoring and Evaluation database (TME).

EQA - External quality assessment.

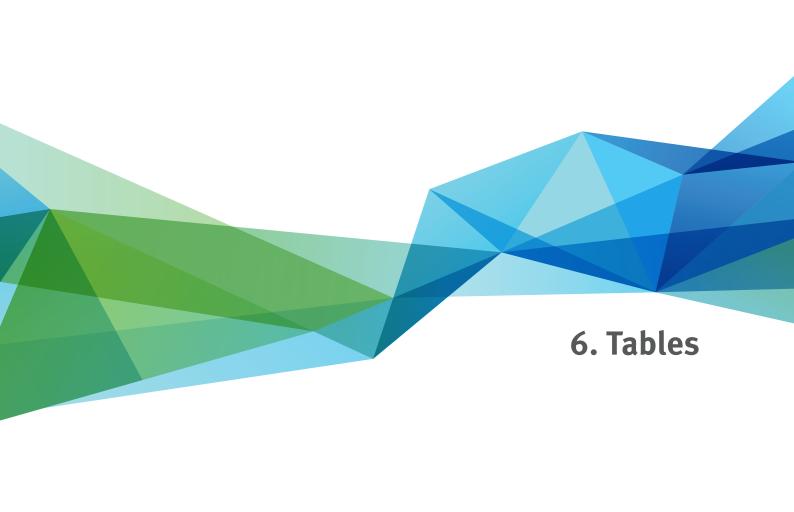
Acceptable performance defined as reference laboratory achieving 95% performance (smear and DST).
In accordance with the UN Security Council Resolution No. 1244 (1999).

Annex 6. Monitoring framework for follow up of the TB Action Plan for the WHO European Region, 2016-2020

| Area of intervention | Indicator | Baseline for WHO European Region (2014) | Target | Frequency of assessment | Data source | Monitoring mechanism | Indicator definition | Indicator level |
|----------------------|--|---|------------------|-------------------------------|------------------------------|-------------------------|---|--------------------|
| 1. Integrated | patient-centered care and prev | rention | | | | | | |
| 1.A Systema | tic screening of contacts and hig | gh-risk groups | | | | | | |
| 1.A.1 | Coverage of population at risk with systematic screening for active TB and LTBI | N/A | Full coverage | 01–2016 01–2021 | NTP | Desk review | Total number of people screened for TB and/ or LTBI in a defined period over the total number of people at risk according to the national guidelines, in the same period | 97.0% |
| 1.B Early dia | gnosis of all forms of TB and un | versal access to DS1 | 「, including th | e use of rapid | tests | | | |
| 1.B.1 | Percentage of TB patients diagnosed using WHO-recommended rapid tests (G) | N/A | 30% | Annually | NTP | Desk review | Number of newly notified TB patients diagnosed with WHO-recommended rapid tests, divided by the total number of newly notified TB patient. | 66.3% |
| 1.B.2 | First-line DST coverage (%) among all bacteriologically- confirmed TB cases (G) | 91.90% | Close to 100% | Annually | WHO global TB database | Routine reporting | "Number of TB patients with DST results divided by the number of notified cases in the same year, expressed as a percentage. DST coverage includes results from molecular (e.g. Xpert MTB/RIF) as well as conventional because in ST results." | 89.4% |
| 1.B.3 | RR/MDR TB case detection rate (%) (G) | 46.5% | 85% | Annually | WHO global TB database | Routine reporting | phenotypic DST results." Total number of notified RR/MDR TB cases over total number of estimated RR/MDR-TB cases among notified bacteriologically confirmed pulmonary TB patients | 92.7% |
| 1.B.4 | TB notification rate per 100 000 population (E) | 32.8 | 24.6 | Annually | WHO global TB database | Routine reporting | Total number of new and relapse TB cases notified per 100,000 population | 24.5 |
| 1.B.5 | TB case-detection rate (%) | 84.1% | Increase | Annually | WHO global TB database | Routine reporting | Total number of notified TB cases over total number of estimated TB cases expressed as percentage | 87.7% |
| 1.B.6 | Percentage of RR/MDR TB among new TB patients (E) | 16.9% | Decrease | Annually | WHO global TB database | Routine reporting | Total number of laboratory confirmed new RR/MDR TB cases over total number of new TB cases with DST results expressed as percentage | 21.6% |
| 1.B.7 | Percentage of RR/MDR TB among previously treated TB patients | 48.0% | Decrease | Annually | WHO global TB database | Routine reporting | Total number of laboratory confiirmed previously treated RR/MDR TB cases over total number of previously treated TB cases with DST results expressed as percentage | 56.8% |
| 1.C Equitable | e access to quality treatment an | d continuity of care f | or all people | with TB, includ | ding drug-resi | stant TB, and | patient support to facilitate treatment adherence | e |
| 1.C.1 | Percentage of hospitalisation of new TB patients (E) | N/A | Decrease | 01–2016 01–2021 | NTP | Desk review | Total number of new TB cases hospitalized in a specified period over total number of new TB cases registered in the same period expressed as percentage | N/A |
| 1.C.2 | Percentage of detected RR/MDR TB enrolled in treatment (G) | 61.9% | Close to 100% | Annually | WHO global TB database | Routine reporting | Total number of laboratory confirmed RR/ MDR TB cases enrolled into SLD treatment in-line with WHO recommendations over total number of laboratory confirmed RR/MDR TB cases notified expressed as percentagE | 89.4% |
| 1.C.3 | Treatment success rate (%) among all new and relapsed TB patients (G) | 75.2% | 85% | Annually | WHO global TB database | Routine reporting | New and relapse TB cases registered in a specified period that were sucessfully treated. | 77.1% |
| 1.C.4 | Treatment success rate (%) among the RR/MDR TB treatment cohort (G) (E) | 49% | 75% | Annually | WHO global TB database | Routine reporting | Number of confirmed RR/MDR-TB cases during the specified period that were succesfully treated over number of confirmed RR/MDR-TB cases that started on a prescribed MDR-TB treatment regimen during the specified period. | 57.4% |
| 1.C.5 | TB mortality rate (ICD A15–19) per 100 000 population (G) (E) | 4.1 | 2.7 | Annually | WHO global TB database | Routine reporting | Estimated number of TB deaths (from VRS) per 100,000 population | 2.5 |
| 1.D Collabora | ative TB/HIV activities and mana | agement of comorbic | lities | | | | | |
| 1.D.1 | TB/HIV case-detection rate (%) | 84.8% | Close to 100% | Annually | WHO global TB database | Routine reporting | Total number of registered HIV co-infected TB patients in a specified period over total number of estimated TB/HIV co-infected patients | 85.3% |
| 1.D.2 | HIV testing coverage (%) (G) (E) | 67.6% | Close to 100% | Annually | WHO global TB database | Routine reporting | Number of new and relapse TB patients with documented HIV status divided by the number of new and relapse TB patients notified in the same year, expressed as percentage | 91.5% |
| 1.D.3 | Percentage of HIV among all TB | 7.8% | Decrease | Annually | WHO global TB database | Routine reporting | Total number of registered TB patients in a specified period who are HIV positive over total number of registered TB patients in the same period with documented HIV test results | 13.1% |
| 1.D.4 | ART coverage (%) among TB/ HIV cases | 53.8% | Close to 100% | Annually | WHO global TB database | Routine reporting | Total number of registered HIV/TB patients in a specified period who are enrolled in antiretroviral therapy ART) over total number of registered TB patients in the same period who are HIV positive | 73.1% |
| 1.D.5 | LTBI treatment enrolment rate (%) among PLHIV (G) | 4.8% | 30% | Annually | WHO global TB database | Routine reporting | Total number of new HIV cases enrolled in LTBI treatment in a specified period Total number of new HIV cases eligible for LTBI treatment in the same period. | 69.1% |

Annex 6 cont. Monitoring framework for follow up of the TB Action Plan for the WHO European Region, 2016-2020

| Area of intervention | Indicator | Baseline for WHO European Region (2014) | Target | Frequency of assessment | Data source | Monitoring mechanism | Indicator definition | Indicator level |
|----------------------|--|---|-----------------|-------------------------------|------------------------------|-------------------------|--|--------------------|
| 1.E Managem | nent of LTBI and preventive treat | ment of people at hi | gh risk, and v | accination ag | ainst TB | | | |
| 1.E.1 | Contact investigation coverage (%) (G) (E) | N/A | 90% | 01–2016 01–2021 | NTP | Desk review | Number of contacts of people with bacteriologically-confirmed TB who were investigated for TB/LTBI in a defined period over the number of contacts eligible for contact investigation in the same period | 95.1% |
| 1.E.2 | LTBI treatment coverage (%) in childhood TB contact persons aged under 5 years (G) | N/A | 90% | 01-2016 | NTP | Desk review | Total number of child TB contacts age <5 years enrolled in LTBI treatment in a defined period over Number of child TB contact cases eligible for LTBI treatment in the same period | 42.1% |
| 2. Bold Polic | ies and supportive systems | | | | | | | |
| 2.A Political | commitment with adequate reso | ources, including uni | versal health | coverage poli | су | | | |
| 2.A.1 | Number of Members States that have a regular TB control/elimination performance publication every five years (E8) | N/A | 53 | Cumulative 2016-2020 | NTP | Desk review | | |
| 2.B Health sy | ystem strengthening in all funct | ions, including well | aligned funct | ioning mechar | isms for TB a | ind human res | ources | |
| 2.B.1 | Percentage of TB patients and their households that experience catastrophic financial consequences due to TB (G) (E) | N/A | Close to 0 | Annually | NTP | Desk review | Number of people treated for TB (and their households) who incur catastrophic costs (direct and indirect combined), divided by the total number of people treated for TB. | |
| 2.C Regulato | ry frameworks for case-based s | urveillance, strengt | hening vital re | egistration, qu | ality and rati | onal use of m | edicines and pharmacovigilance | |
| 2.C.1 | Treatment coverage (%) with new TB drugs | N/A | 20% | Cumulative 2016-2020 | NTP | Desk review | Number of TB patients treated with regimens that include new TB drugs, divided by the number of notified patients eligible for treatment with new TB drugs, expressed as a percentage | |
| 2.D Commun | ity systems and civil society en | gagement | | | | | | |
| 2.D.1 | Number of Member States with functioning multistakeholder coalitions advocating for TB care and resources | N/A | 53 | Cumulative 2016-2020 | NTP | Desk review | | |
| 2.E Social pr | otection, poverty alleviation an | d actions on other de | eterminants o | f TB, such as r | nigration and | l prisons | | |
| 2.E.1 | Treatment success rate (%) of new and relapsed TB cases among prisoners | 63.2% | 85% | Annually | WHO global TB database | Routine reporting | New and relapse prison TB cases registered in a specified period that were sucessfully treated. | 59.9% |
| J | d research and innovation | | | | | | | |
| 3.A Discover | y, development and rapid uptak | e of new tools, inter | ventions and | strategies | | | | |
| 3.A.1 | European TB research initiative established by mid-2016 | | Established | Cumulative 2016-2020 | NTP | Desk review | | |



Summary table. Tuberculosis surveillance data by region, European Region, 2018

| | | | | | Re | gion | | | |
|--|-------------------------------|-------------------------------|----------------|-------------------------------|----------------|-------------------------------|----------------|--|-------------------------------------|
| | | EU | /EEA | Non | -EU/EEA | 1 | Total . | | gh-priority untries ^a |
| | Table showing data by country | Number of reporting countries | | Number of reporting countries | | Number of reporting countries | | Number of reporting countries ^b | |
| Total population (millions) | - | 30 | 518.1 | 23 | 409.6 | 53 | 926.9 | 18 | 407.4 |
| Estimates of TB disease burden 2018 ^c Estimated TB mortality rate (excluding HIV-related deaths) per 100 000 population | 1 | 30 | 0.7 | 21 | 4.6 | 51 | 2.5 | 18 | 4.9 |
| Estimated TB incidence rate per 100 000 population | 1 | 30 | 11.2 | 23 | 49.3 | 53 | 27.9 | 18 | 52.5 |
| Estimated RR tuberculosis cases among notified bacteriologically-confirmed pulmonary tuberculosis patients | 2 | 29 | 1300 | 22 | 47 800 | 51 | 49 000 | 17 | 48 500 |
| Estimated percentage of HIV infection among incident TB cases (new and relapses) | 2 | 29 | 3.6 | 19 | 13.9 | 48 | 12.0 | 18 | 13.3 |
| Notifications of TB cases, 2018 | | | | | | | | | |
| Total number of TB cases | 3 | 30 | 52 862 | 22 | 216 997 | 52 | 269 859 | 17 | 228 271 |
| All TB cases per 100 000 population | 3 | 30 | 10.2 | 22 | 53.0 | 52 | 29.1 | 17 | 56.0 |
| Mean annual percentage change of notification rate (2014-2018) | 3 | 30 | -4.0% | 22 | -6.1% | 52 | -5.5% | 17 | -6.1% |
| Number of new TB cases and relapses | 4 | 30 | 50 455 | 22 | 176 785 | 52 | 227 240 | 17 | 187 365 |
| New TB cases and relapses per 100 000 population | 4 | 30 | 9.8 | 22 | 43.2 | 52 | 24.5 | 17 | 46.0 |
| Mean annual percentage change of notification rate of new TB cases and relapses (2014–2018) | 5 | 30 30 | -3.9% 76.9% | 22 | -5.7% 67.7% | 52 52 | -5.1% 69.5% | 17 17 | -5.9% 68.2% |
| Percentage of new cases among all TB cases Percentage of retreatment cases among all TB cases | 5 | 30 | 9.9% | 22 | 32.3% | 52 | 27.9% | 17 | 31.8% |
| Percentage of pulmonary TB among all TB cases | 6 | 30 | 77.2% | _ | J2.J70 - | - | 27.970 | - | 31.0% |
| Percentage of laboratory-confirmed TB cases among all TB cases | 8 | 30 | 68.2% | _ | _ | _ | _ | _ | _ |
| Male-to-female ratio of new TB cases and relapses | 9 | 30 | 2.0 | 22 | 1.9 | 52 | 1.9 | 17 | 2.0 |
| Percentage of foreign TB cases among all TB cases | 10 | 30 | 34.5% | 20 | 2.0% | 50 | 8.5% | 15 | 1.7% |
| TB case laboratory confirmation, MDR and XDR, 2018 | 10 | 50 | 74.770 | 20 | 2.0 /0 | 50 | 0.570 | U | 1.7 70 |
| Percentage of laboratory-confirmed cases among new pulmonary TB cases | 12 | 29 | 74.8% | 21 | 61.9% | 50 | 64.5% | 16 | 62.9% |
| Percentage of DST results reported among new bacteriologically confirmed pulmonary TB cases | 12 | 29 | 87.2% | 21 | 81.6% | 50 | 83.0% | 16 | 83.5% |
| Percentage of MDR TB among new pulmonary TB cases | 12 | 29 | 2.3% | 21 | 23.8% | 50 | 18.3% | 16 | 21.9% |
| Percentage of MDR TB among previously treated pulmonary TB cases | 12 | 29 | 13.1% | 21 | 52.0% | 50 | 49.1% | 16 | 50.2% |
| Percentage of DST results reported among all confirmed TB cases | 13 | 29 | 80.7% | - | - | - | - | - | - |
| Percentage of MDR TB among all TB cases | 13 | 29 | 3.7% | - | - | - | - | - | - |
| Percentage of XDR TB among all MDR TB cases with DST for SLD TB/HIV coinfection, 2018 | 14 | 30 | 20.4% | 21 | 19.2% | 51 | 19.2% | 15 | 19.3% |
| Percentage of new TB cases and relapses with known HIV status | 17 | 21 | 74.9% | 19 | 94.4% | 40 | 91.5% | 16 | 94.0% |
| Percentage of HIV-positive cases among new TB cases and relapses with known HIV status | 17 | 21 | 4.1% | 19 | 14.4% | 40 | 13.1% | 16 | 13.6% |
| Percentage of HIV-positive new and relapsed TB cases started on ART | 17 | 8 | 84.2% | 19 | 72.9% | 27 | 73.1% | 15 | 73.0% |
| Percentage of all TB cases with known HIV status Percentage of HIV-positive cases among all TB cases with known | 18 18 | 21 | 75.1% 4.2% | - | _ | _ | _ | _ | _ |
| HIV status | .0 | | 1,270 | | | | | | |
| Treatment outcome | 20 | 37 | 67.69/ | 22 | 75 40/ | 60 | 72 00/ | 47 | 75 00/ |
| Treatment success of all TB cases reported in 2017 Treatment success of new TB cases and relapses notified in 2017 | 20 21 | 26 25 | 67.6% 75.5% | 22 | 75.4% 77.5% | 48 47 | 73.8% 77.1% | 17 17 | 75.8% 78.2% |
| Treatment success of new 1B cases and relapses notified in 2017 Treatment success of childhood TB cases notified in 2017 | 22 | 26 | 75.5% 85.7% | 18 | 94.4% | 47 | 92.0% | 17 | 94.8% |
| Treatment success of TB/HIV cases notified in 2017 | 24 | 20 | 60.0% | 17 | 50.9% | 37 | 51.4% | 14 | 51.2% |
| Treatment success of RR/MDR TB cases enrolled in SLD treatment in 2016 | 26 | 23 | 49.9% | 22 | 57.6% | 45 | 57.4% | 17 | 57.4% |
| Treatment success of all MDR TB cases notified in 2016 | 27 | 23 | 48.1% | - | | _ | | _ | _ |
| | | | | | | | | | |

^{&#}x27;European Region' comprises the 53 countries of the WHO European Region and Liechtenstein.

ART - antiretroviral therapy.

DST - drug susceptibility.

HIV - human immunodeficiency virus.

MDR - multidrug resistance.

RR - rifampicin-resistant.

SLD - second-line anti-tuberculosis drugs.

TB - tuberculosis.

XDR - extensive drug resistance.

* High-priority countries: the 18 high-priority countries under the 'STOP TB in the WHO European Region' scheme are: Armenia, Azerbaijan, Belarus, Bulgaria, Estonia, Georgia, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Moldova, Romania, Russia, Tajikistan, Turkey, Turkmenistan, Ukraine and Uzbekistan.

* Number of countries with available data included in the statistics.

* WHO estimates, as published in Global tuberculosis report 2019 (Geneva: World Health Organization; 2019.

* Laboratory-confirmed cases – cases with positive identification for Mycobacterium tuberculosis complex confirmed by culture and/or line probe assay for non-EU/EEA countries. For EU/EEA countries: culture-positive OR microscopy-positive and nucleic acid amplification test-positive cases.

Table 1. Estimates of the TB disease burden, European Region, 2018

| | | Es | timated nu (al | mber of de l forms. ex | | | sis | Estimated number of incident cases (all forms) | | | | | |
|-------------------------------|-------------------------|--------|-------------------|---------------------------|------|-------------|------|--|-----------------------|-----------------------|------------------|--------------------|--------------------|
| Country/area | Population ^a | | Number | | | Per 100 000 | | | Number | | | er 100 000 | |
| | | Best | Low | High | Best | Low | High | Best | Low | High | Best | Low | High |
| EU/EEA | | | | | | | | | | | | | |
| Austria | 8 891 388 | 35 | 34 | 36 | 0.4 | 0.4 | 0.4 | 630 | 540 | 730 | 7.1 | 6.1 | 8.2 |
| Belgium | 11 482 178 | 33 | 32 | 35 | 0.3 | 0.3 | 0.3 | 1 000 | 880 | 1200 | 9 | 7.7 | 10 |
| Bulgaria | 7 051 608 | 71 | 69 | 72 | 1.0 | 1.0 | 1.0 | 1 600 | 1200 | 2000 | 22 | 17 | 28 |
| Croatia | 4 156 405 | 34 | 34 | 35 | 0.8 | 0.8 | 0.8 | 350 | 300 | 400 | 8.4 | 7.2 | 9.7 |
| Cyprus | 1 189 265 | 3 | 2 | 4 | 0.3 | 0.2 | 0.3 | 65 | 55 | 75 | 5.4 | 4.7 | 6.3 |
| Czech Republic | 10 665 677 | 37 | 36 | 37 | 0.3 | 0.3 | 0.4 | 580 | 500 | 670 | 5.4 | 4.6 | 6.3 |
| Denmark | 5 752 126 | 18 | 17 | 18 | 0.3 | 0.3 | 0.3 | 310 | 270 | 360 | 5.4 | 4.6 | 6.2 |
| Estonia | 1 322 920 | 10 | 10 | 11 | 0.8 | 0.7 | 0.8 | 170 | 140 | 190 | 13 | 11 | 15 |
| Finland | 5 522 576 | 19 | 19 | 19 | 0.3 | 0.3 | 0.3 | 260 | 220 | 300 | 4.7 | 4 | 5.5 |
| France | 64 990 511 | 310 | 290 | 330 | 0.5 | 0.4 | 0.5 | 5 800 | 5100 | 6500 | 8.9 | 7.8 | 10 |
| Germany | 83 124 418 | 300 | 290 | 310 | 0.4 | 0.4 | 0.4 | 6 100 | 5200 | 7000 | 7.3 | 6.2 | 8.4 |
| Greece | 10 522 246 | 48 | 46 | 51 | 0.5 | 0.4 | 0.5 | 470 | 400 | 550 | 4.5 | 3.8 | 5.2 |
| | | 43 | 43 | 43 | 0.4 | 0.4 | 0.5 | 620 | 530 | | 6.4 | | |
| Hungary | 9 707 499 | | | | | | | | | 720 | | 5.5 | 7.4 |
| Iceland | 336 713 | 1 | 1 | 1 | 0.4 | 0.4 | 0.4 | 9 | 8 | 11 | 2.7 | 2.3 | 3.2 |
| Ireland | 4 818 690 | 19 | 19 | 19 | 0.4 | 0.4 | 0.4 | 340 | 290 | 390 | 7 | 6 | 8.1 |
| Italy | 60 627 291 | 340 | 340 | 340 | 0.6 | 0.6 | 0.6 | 4 300 | 3700 | 4900 | 7 | 6 | 8.1 |
| Latvia | 1 928 459 | 51 | 51 | 52 | 2.7 | 2.6 | 2.7 | 560 | 480 | 650 | 29 | 25 | 33 |
| Liechtenstein | | | | | | | | | | | | | |
| Lithuania | 2 801 264 | 150 | 150 | 150 | 5.4 | 5.3 | 5.4 | 1 200 | 1000 | 1400 | 44 | 37 | 50 |
| Luxembourg | 604 245 | 1 | 1 | 1 | 0.2 | 0.2 | 0.2 | 48 | 41 | 56 | 8 | 6.8 | 9.2 |
| Malta | 439 248 | 2 | 2 | 2 | 0.5 | 0.5 | 0.5 | 60 | 51 | 69 | 14 | 12 | 16 |
| Netherlands | 17 059 560 | 30 | 30 | 31 | 0.2 | 0.2 | 0.2 | 910 | 780 | 1100 | 5.3 | 4.6 | 6.2 |
| Norway | 5 337 962 | 18 | 18 | 19 | 0.3 | 0.3 | 0.4 | 220 | 190 | 250 | 4.1 | 3.5 | 4.7 |
| Poland | 37 921 592 | 470 | 440 | 500 | 1.2 | 1.2 | 1.3 | 6 000 | 5100 | 6900 | 16 | 13 | 18 |
| Portugal | 10 256 193 | 190 | 180 | 190 | 1.8 | 1.8 | 1.9 | 2 400 | 2100 | 2800 | 24 | 20 | 27 |
| Romania | 19 506 114 | 860 | 860 | 870 | 4.4 | 4.4 | 4.4 | 13 000 | 11000 | 15000 | 68 | 58 | 79 |
| Slovakia | 5 453 014 | 35 | 35 | 35 | 0.6 | 0.6 | 0.7 | 310 | 270 | 360 | 5.8 | 4.9 | 6.7 |
| Slovenia | 2 077 837 | 12 | 12 | 12 | 0.6 | 0.6 | 0.6 | 110 | 95 | 130 | 5.3 | 4.6 | 6.2 |
| Spain | 46 692 858 | 260 | 260 | 270 | 0.6 | 0.6 | 0.6 | 4 400 | 3800 | 5100 | 9.4 | 8.1 | 11 |
| Sweden | 9 971 638 | 26 | 26 | 27 | 0.3 | 0.0 | | 550 | 470 | 630 | 5.5 | | 6.4 |
| | | | | | | | 0.3 | | | | | 4.7 | |
| United Kingdom | 67 141 684 | 300 | 300 | 310 | 0.5 | 0.5 | 0.5 | 5 400 | 4800 55 000 | 5900 61 000 | 8 11.2 | 7.2 10.6 | 8.8 11.8 |
| Subtotal EU/EEA Non-EU/EEA | 517 353 179 | 3 730 | 3 690 | 3 770 | 0.7 | 0.7 | 0.7 | 58 000 | 22 000 | 01000 | 11.2 | 10.0 | 11.0 |
| • | 2 002 740 | 0 | 6 | 14 | 0.2 | 0.2 | 0.5 | F10 | 420 | F00 | 10 | 15 | 20 |
| Albania | 2 882 740 | 8 | 4 | 14 | 0.3 | 0.2 | 0.5 | 510 | 430 | 580 | 18 | 15 | 20 |
| Andorra | 77 006 | 0 | 0 | 0 | 0.3 | 0.2 | 0.4 | 2 | 2 | 3 | 3 | 2.6 | 3.5 |
| Armenia | 2 951 745 | 18 | 18 | 19 | 0.6 | 0.6 | 0.6 | 920 | 700 | 1200 | 31 | 24 | 39 |
| Azerbaijan | 9 949 537 | 1 000 | 960 | 1100 | 10.0 | 9.6 | 11.0 | 6300 | 4800 | 8000 | 63 | 48 | 80 |
| Belarus | 9 452 617 | 510 | 480 | 550 | 5.4 | 5.0 | 5.8 | 2 900 | 2300 | 3700 | 31 | 24 | 39 |
| Bosnia and Herzegovina | 3 323 925 | 100 | 94 | 110 | 3.0 | 2.8 | 3.2 | 830 | 640 | 1100 | 25 | 19 | 32 |
| Georgia | 4 002 942 | 160 | 150 | 180 | 4.0 | 3.6 | 4.4 | 3 200 | 2700 | 3800 | 80 | 67 | 94 |
| Israel | 8 381 516 | 16 | 15 | 16 | 0.2 | 0.2 | 0.2 | 340 | 290 | 390 | 4 | 3.4 | 4.6 |
| Kazakhstan | 18 319 618 | 430 | 350 | 510 | 2.3 | 1.9 | 2.8 | 12 000 | 8100 | 18000 | 68 | 44 | 97 |
| Kyrgyzstan | 6 304 030 | 390 | 360 | 420 | 6.2 | 5.8 | 6.7 | 7 3 0 0 | 6200 | 8400 | 116 | 99 | 134 |
| Moldova | 4 051 944 | 210 | 180 | 230 | 5.1 | 4.5 | 5.8 | 3 500 | 3000 | 4000 | 86 | 73 | 99 |
| Monaco | 38 682 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Montenegro | 627 809 | 1 | 1 | 1 | 0.2 | 0.2 | 0.2 | 97 | 83 | 110 | 15 | 13 | 18 |
| North Macedonia | 2 082 957 | 20 | 20 | 21 | 1.0 | 0.9 | 1.0 | 270 | 210 | 340 | 13 | 10 | 16 |
| Russia | 145 734 038 | 9 200 | 8300 | 10000 | 6.3 | 5.7 | 7.0 | 79 000 | 51000 | 112000 | 54 | 35 | 77 |
| San Marino | 33 785 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Serbia | 8 802 754 | | | | 0.6 | | | 1500 | | 1800 | | | 20 |
| Switzerland | | 55 | 50 | 61 | | 0.6 | 0.7 | | 1300 | | 17 | 15 | |
| | 8 525 611 | 27 | 25 | 28 | 0.3 | 0.3 | 0.3 | 540 | 470 | 630 | 6.4 | 5.5 | 7.4 |
| Tajikistan - | 9 100 835 | 740 | 670 | 820 | 8.2 | 7.3 | 9.1 | 7 600 | 5900 | 9600 | 84 | 64 | 105 |
| Turkey | 82 340 088 | 400 | 370 | 440 | 0.5 | 0.5 | 0.5 | 13 000 | 11000 | 15000 | 16 | 14 | 19 |
| Turkmenistan | 5 850 901 | 610 | 540 | 700 | 11.0 | 9.2 | 12.0 | 2 700 | 2100 | 3400 | 46 | 35 | 58 |
| Ukraine | 44 246 156 | 3 700 | 3200 | 4100 | 8.3 | 7.3 | 9.3 | 36 000 | 23000 | 51000 | 80 | 52 | 115 |
| Uzbekistan | 32 476 244 | 1 700 | 1600 | 1800 | 5.2 | 4.8 | 5.5 | 23 000 | 16000 | 31000 | 70 | 49 | 95 |
| Subtotal non-EU/EEA | 409 557 480 | 19 000 | 18 000 | 20 000 | 4.6 | 4.4 | 4.9 | 202 000 | 168 000 | 236 000 | 49 | 41 | 58 |
| Total European Region | 926 910 659 | 23 000 | 22 000 | 24 000 | 2.5 | 2.4 | 2.6 | 259 000 | 225 000 | 296 000 | 28 | 24 | 32 |
| Subtotal 18 HPCs | 407 391 060 | 20 000 | 19 000 | 21 000 | 4.9 | 4.7 | 5.2 | 214 000 | 177 000 | 251 000 | 53 | 43 | 62 |

^{&#}x27;European Region' comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. HIV - human immunodeficiency virus. HIV - hp-priority countries.

a Population estimate 2019 by United Nations statistical database for all countries.

| | Estimated | incidence cas | | berculosis | | | Estimat | | | | | | |
|--------|-----------|------------------|------------|-------------|------------|-----------|-----------|------------|------------|-------------|-------------|--------------------------|--|
| | Number | | | Per 100 000 | | | Number | | | Per 100 000 | | Country/area | |
| Best | Low | High | Best | Low | High | Best | Low | High | Best | Low | High | | |
| | | | | | | | | | | | | EU/EEA | |
| 24 | 20 | 27 | 1.9 | 1.6 | 2.1 | 230 | 180 | 270 | 5.1 | 4.0 | 6.0 | Austria | |
| 77 | 64 | 89 | 3.9 | 3.3 | 4.5 | 360 | 290 | 430 | 6.2 | 5.0 | 7.4 | Belgium | |
| 130 | 97 | 170 | 12.6 | 9.4 | 16.5 | 550 | 360 | 730 | 15.2 | 9.9 | 20.1 | Bulgaria | |
| 3 | 2 | 3 | 0.5 | 0.3 | 0.5 2.0 | 140 36 | 110 | 170 | 6.5 | 5.1 | 7.9 | Croatia | |
| 4 7 | 6 | 4 | 2.0 | 1.5 | | 160 | 29 | 44 | 6.1 | 4.9 | 7.4 | Cyprus Czech Republic | |
| 12 | 10 | 8 13 | 0.4 1.3 | 0.4 1.1 | 0.5 1.4 | 120 | 130 96 | 190 150 | 3.0 4.1 | 2.4 3.3 | 3.5 5.2 | Denmark | |
| 2 | 2 | 3 | 0.9 | 0.9 | 1.4 | 48 | 39 | 58 | 6.9 | 5.6 | 8.3 | Estonia | |
| 2 | 2 | 3 | 0.2 | 0.9 | 0.3 | 87 | 70 | 100 | 3.1 | 2.5 | 3.6 | Finland | |
| 320 | 280 | 360 | 2.7 | 2.4 | 3.1 | 2 000 | 1700 | 2 400 | 6.0 | 5.1 | 7.2 | France | |
| 250 | 210 | 290 | 2.2 | 1.9 | 2.6 | 2 000 | 1600 | 2 400 | 4.7 | 3.8 | 5.7 | Germany | |
| 12 | 10 | 14 | 0.8 | 0.7 | 0.9 | 130 | 110 | 160 | 2.4 | 2.1 | 3.0 | Greece | |
| 6 | 5 | 7 | 0.4 | 0.4 | 0.5 | 220 | 180 | 270 | 4.3 | 3.5 | 5.3 | Hungary | |
| 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 2 | 2 | 3 | 1.2 | 1.2 | 1.8 | Iceland | |
| 8 | 7 | 9 | 0.8 | 0.7 | 0.9 | 140 | 110 | 170 | 5.8 | 4.5 | 7.0 | Ireland | |
| 190 | 160 | 220 | 2.4 | 2.0 | 2.7 | 1400 | 1100 | 1700 | 4.5 | 3.5 | 5.5 | Italy | |
| 10 | 9 | 12 | 3.2 | 2.9 | 3.9 | 170 | 140 | 200 | 16.3 | 13.4 | 19.2 | Latvia | |
| | | | | | - | | | | | | | Liechtenstein | |
| 22 | 19 | 25 | 5.3 | 4.6 | 6.0 | 330 | 270 | 400 | 21.9 | 17.9 | 26.5 | Lithuania | |
| 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 10 | 8 | 12 | 3.3 | 2.7 | 4.0 | Luxembourg | |
| 1 | 1 | 1 | 1.6 | 1.6 | 1.6 | 16 | 13 | 20 | 7.3 | 5.9 | 9.1 | Malta | |
| 23 | 19 | 27 | 0.8 | 0.7 | 1.0 | 340 | 270 | 420 | 4.0 | 3.2 | 4.9 | Netherlands | |
| 8 | 7 | 9 | 0.9 | 0.7 | 1.0 | 110 | 86 | 130 | 4.2 | 3.3 | 4.9 | Norway | |
| 60 | 51 | 69 | 1.1 | 0.9 | 1.2 | 1800 | 1400 | 2 10 0 | 9.2 | 7.2 | 10.7 | Poland | |
| 69 | 58 | 80 | 5.0 | 4.2 | 5.8 | 820 | 650 | 990 | 15.2 | 12.0 | 18.3 | Portugal | |
| 620 | 520 | 720 | 20.5 | 17.2 | 23.8 | 4 000 | 3 200 | 4 800 | 39.9 | 32.0 | 47.9 | Romania | |
| 46 | 38 | 54 | 5.5 | 4.5 | 6.4 | 130 | 110 | 160 | 4.6 | 3.9 | 5.7 | Slovakia | |
| 2 | 2 | 2 | 0.6 | 0.6 | 0.6 | 46 | 37 | 56 | 4.4 | 3.5 | 5.4 | Slovenia | |
| 280 | 230 | 320 | 4.1 | 3.4 | 4.7 | 1600 | 1300 | 1900 | 6.7 | 5.5 | 8.0 | Spain | |
| 36 | 30 | 41 | 2.1 | 1.7 | 2.3 | 240 | 190 | 290 | 4.8 | 3.8 | 5.8 | Sweden | |
| 200 | 180 | 220 | 1.7 | 1.5 | 1.9 | 2 200 | 1900 | 2 500 | 6.5 | 5.6 | 7.4 | United Kingdom | |
| 2 420 | 2 290 | 2 550 | 3.0 | 2.9 | 3.2 | 19 000 | 18 000 | 20 000 | 7.2 | 6.8 | 7.6 | Subtotal EU/EEA | |
| Е | 6 | Е | 1.0 | 0.0 | 1.0 | 120 | 110 | 160 | 0.2 | 7.0 | 11 2 | Non-EU/EEA Albania | |
| 5 | 0 | 5 | 1.0 | 0.8 | 1.0 | 130 | 110 | 160 | 9.2 | 7.8 | 11.3 0.0 | Andorra | |
| 46 | 34 | 58 | 7.6 | 5.6 | 9.5 | 210 | 140 | 280 | 13.4 | 9.0 | 17.9 | Armenia | |
| 480 | 350 | 610 | 20.6 | 15.1 | 26.2 | 2 200 | 1500 | 3 000 | 44.1 | 30.1 | 60.2 | Azerbaijan | |
| 77 | 57 | 97 | 4.8 | 3.6 | 6.1 | 880 | 590 | 1200 | 17.4 | 11.7 | 23.7 | Belarus | |
| 6 | 5 | 8 | 1.2 | 1.0 | 1.6 | 330 | 210 | 440 | 19.5 | 12.4 | 26.0 | Bosnia and Herzegovina | |
| 170 | 140 | 210 | 21.5 | 17.7 | 26.5 | 1 100 | 850 | 1400 | 52.6 | 40.6 | 66.9 | Georgia | |
| 18 | 15 | 21 | 0.8 | 0.6 | 0.9 | 110 | 90 | 140 | 2.6 | 2.1 | 3.3 | Israel | |
| 350 | 210 | 490 | 6.7 | 4.0 | 9.4 | 4 900 | 2 200 | 7 500 | 51.9 | 23.3 | 79.5 | Kazakhstan | |
| 360 | 300 | 410 | 17.7 | 14.7 | 20.1 | 3 000 | 2 400 | 3 600 | 94.2 | 75.4 | 113.0 | Kyrgyzstan | |
| 110 | 92 | 130 | 17.1 | 14.3 | 20.2 | 920 | 740 | 1 100 | 43.6 | 35.1 | 52.2 | Moldova | |
| 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | Monaco | |
| 2 | 2 | 3 | 1.7 | 1.7 | 2.6 | 33 | 27 | 40 | 10.4 | 8.5 | 12.6 | Montenegro | |
| 15 | 11 | 19 | 4.4 | 3.2 | 5.5 | 94 | 62 | 130 | 9.0 | 6.0 | 12.5 | North Macedonia | |
| 2 200 | 1300 | 3100 | 8.4 | 5.0 | 11.9 | 24 000 | 12 000 | 36 000 | 30.7 | 15.3 | 46.0 | Russia | |
| 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.0 | San Marino | |
| 33 | 28 | 38 | 2.4 | 2.0 | 2.8 | 710 | 560 | 860 | 15.8 | 12.5 | 19.2 | Serbia | |
| 30 | 25 | 35 | 2.4 | 2.0 | 2.8 | 210 | 170 | 260 | 4.9 | 4.0 | 6.0 | Switzerland | |
| 530 | 390 | 670 | 15.8 | 11.6 | 20.0 | 3 500 | 2 300 | 4 700 | 77.6 | 51.0 | 104.2 | Tajikistan | |
| 630 | 530 | 720 | 3.1 | 2.6 | 3.5 | 5 700 | 4 500 | 6 900 | 13.7 | 10.8 | 16.5 | Turkey | |
| 87 | 64 | 110 | 4.8 | 3.5 | 6.1 | 1 100 | 720 | 1 500 | 37.0 | 24.2 | 50.5 | Turkmenistan | |
| 1 300 | 770 | 1800 | 18.6 | 11.0 | 25.7 | 11 000 | 5 400 | 17 000 | 46.3 | 22.7 | 71.6 | Ukraine | |
| 3 200 | 2000 | 4300 | 34.3 | 21.5 | 46.2 | 10 000 | 5 600 | 15 000 | 61.4 | 34.4 | 92.1 | Uzbekistan | |
| 10 000 | 8 000 | 12 000 | 11.4 | 9.1 | 13.7 | 70 000 | 56 000 | 84 000 | 32.8 | 26.2 | 39.4 | Subtotal non-EU/EEA | |
| 12 000 | 10 000 | 14 000 | 7.2 | 6.0 | 8.3 | 90 000 | 74 000 | 107 000 | 18.8 | 15.5 | 22.4 | Total European Region | |
| 10 000 | 8 000 | 12 000 | 10.7 | 8.5 | 12.8 | 74 000 | 60 000 | 88 000 | 30.5 | 24.7 | 36.2 | Subtotal 18 HPCs | |

Table 2. Estimates for tuberculosis/HIV coinfection and MDR-tuberculosis, European Region, 2018

| Country/area | Estim | ated HIV inf | ection amor (new and | ng incident (relapses) | tuberculosis | cases | RR-tube | ated percen rculosis cas w tuberculo patients | es among |
|------------------------|-----------|--------------|-------------------------|----------------------------|--------------|-------------|-------------|--|-------------|
| | | Number | | | % | | | % | |
| F11/FF A | Best | Low | High | Best | Low | High | Best | Low | High |
| EU/EEA | 41 | _ | 24 | 0.4 | 4.0 | 2.0 | 2.2 | 0.0 | |
| Austria | 14 | 7 | 21 | 2.1 | 1.2 | 3.3 | 2.3 | 0.8 | 4.9 |
| Belgium | 40 | 13 | 81 | 3.8 | 1.3 | 7.7 | 1.6 | 0.7 | 3.3 |
| Bulgaria | 19 | 6 | 40 | 1.2 | 0.4 | 2.5 | 1.2 | 0.5 | 2.5 |
| Croatia | 3 | 2 | 5 | 0.9 | 0.5 | 1.4 | 0.0 | 0.0 | 1.4 |
| Cyprus | | 2 | 0 | 4.0 | 0.5 | 4.5 | 0.0 | 0.0 | 10.0 |
| Czech Republic | 6 | 3 | 9 | 1.0 | 0.5 | 1.5 | 2.2 | 0.9 | 4.6 |
| Denmark Estonia | 8 15 | 3 7 | 16 | 2.6 | 0.8 | 5.2 | 2.5 22.0 | 0.7 | 6.4 31.0 |
| | 4 | 2 | 25 7 | 8.9 | 4.6 | 14.0 2.7 | 3.2 | 15.0 | |
| Finland | | | | 1.7 | 0.9 | | | 0.9 | 8.0 |
| France | 360 | 280 | 450 | 6.2 | 5.1 | 7.5 | 1.0 | 0.7 | 1.5 |
| Germany Greece | 150 16 | 79 9 | 230 26 | 2.4 | 1.3 2.0 | 3.8 5.4 | 2.2 1.5 | 0.8 | 4.8 8.0 |
| | 5 | 3 | 9 | 3.5 | | | 2.9 | | |
| Hungary Iceland | 0 | 0 | 0 | 0.9 | 0.5 | 1.4 4.6 | 0.0 | 1.6 | 4.8 41.0 |
| Ireland | 12 | 6 | 18 | 3.4 | 1.9 | 5.3 | 1.1 | 0.0 | 5.8 |
| Italy | 200 | 110 | | 4.8 | 2.7 | 7.4 | 2.8 | 1.8 | 4.3 |
| Latvia | 35 | 110 | 320 70 | | 2.7 | 12.0 | 8.0 | | |
| Liechtenstein | 33 | 12 | /0 | 6.2 | 2.1 | 12.0 | 0.0 | 5.4 | 11.0 |
| | 20 | 2/ | | 2.2 | 2.2 | 6. 6 | 12.0 | 10.0 | 15.0 |
| Lithuania | 39 | 26 | 55 | 3.2 | 2.2 | 4.4 | 13.0 | 10.0 | 15.0 |
| Luxembourg | 2 | 1 | 3 | 4.3 | 2.5 | 6.7 | 2.6 | 1.4 | 4.2 |
| Malta | 10 | 4 | 17 | 16.0 | 6.9 | 28.0 | 0.0 | 0.0 | 15.0 |
| Netherlands | 36 | 23 | 51 | 3.9 | 2.6 | 5.5 | 0.9 | 0.2 | 2.7 |
| Norway | 8 | 3 | 16 | 3.8 | 1.4 | 7.3 | 6.1 | 2.3 | 13.0 |
| Poland | 75 | 41 | 120 | 1.3 | 0.7 | 1.9 | 1.2 | 0.8 | 1.6 |
| Portugal | 210 | 74 | 430 | 8.8 | 3.0 | 17.0 | 1.0 | 0.5 | 1.7 |
| Romania | 320 | 260 | 380 | 2.4 | 2.1 | 2.7 | 2.7 | 2.3 | 3.2 |
| Slovakia | 2 | 0 | 6 | 0.5 | 0.0 | 1.9 | 0.9 | 0.0 | 4.7 |
| Slovenia | 1 | 0 | 3 | 1.2 | 0.3 | 2.6 | 0.0 | 0.0 | 3.9 |
| Spain | 310 | 110 | 630 | 7.1 | 2.4 | 14.0 | 4.2 | 2.9 | 5.8 |
| Sweden | 12 | 7 | 19 | 2.2 | 1.2 | 3.4 | 2.2 | 0.8 | 4.6 |
| United Kingdom | 150 | 120 | 180 | 2.8 | 2.4 | 3.3 | 1.2 | 0.8 | 1.8 |
| Subtotal EU/EEA | 2 100 | 1740 | 2 460 | 3.6 | 3.2 | 4.0 | 2.6 | 1.8 | 3.8 |
| Non-EU/EEA | 0 | _ | | | | | | - (| - 0 |
| Albania | 8 | 5 | 13 | 1.6 | 0.9 | 2.5 | 2.3 | 0.6 | 5.8 |
| Andorra | | | | | 0 . | | 0.0 | 0.0 | 98.0 |
| Armenia | 95 | 66 | 130 | 10.0 | 8.1 | 13.0 | 20.0 | 16.0 | 26.0 |
| Azerbaijan | 85 | 57 | 120 | 1.3 | 1.0 | 1.7 | 12.0 | 11.0 | 13.0 |
| Belarus | 230 | 170 | 300 | 7.7 | 6.7 | 8.8 | 37.0 | 34.0 | 39.0 |
| Bosnia and Herzegovina | 2 | 1 | 3 | 0.2 | 0.1 | 0.4 | 0.5 | 0.1 | 1.8 |
| Georgia | 66 | 46 | 90 | 2.1 | 1.5 | 2.7 | 12.0 | 10.0 | 14.0 |
| Israel | 14 | 7 | 24 | 4.1 | 2.0 | 6.9 | 9.7 | 5.6 | 16.0 |
| Kazakhstan | 730 | 470 | 1 000 | 5.9 | 5.5 | 6.3 | 27.0 | 26.0 | 28.0 |
| Kyrgyzstan | 220 | 170 | 260 | 3.0 | 2.5 | 3.4 | 29.0 | 27.0 | 31.0 |
| Moldova | 300 | 240 | 360 | 8.6 | 7.6 | 9.6 | 29.0 | 26.0 | 31.0 |
| Monaco | | | | | | | 2.6 | 1.4 | 4.2 |
| Montenegro | 1 | 0 | 3 | 1.5 | 0.5 | 3.2 | 0.0 | 0.0 | 6.0 |
| North Macedonia | | | | | | | 0.0 | 0.0 | 2.8 |
| Russia | 16 000 | 10 000 | 22 000 | 20.0 | 20.0 | 20.0 | 35.0 | 34.0 | 35.0 |
| San Marino | | | | | | | 2.6 | 1.4 | 4.2 |
| Serbia | 5 | 3 | 8 | 0.4 | 0.2 | 0.5 | 1.1 | 0.5 | 2.2 |
| Switzerland | 26 | 15 | 40 | 4.8 | 2.8 | 7.3 | 1.1 | 0.2 | 3.3 |
| Tajikistan | 310 | 230 | 400 | 4.1 | 3.6 | 4.6 | 21.0 | 19.0 | 24.0 |
| Turkey | 110 | 82 | 140 | 0.8 | 0.7 | 1.0 | 3.5 | 3.0 | 4.0 |
| Turkmenistan | 650 | 330 | 1 100 | 24.0 | 13.0 | 38.0 | 23.0 | 21.0 | 26.0 |
| Ukraine | 8 200 | 5 300 | 12 000 | 23.0 | 22.0 | 24.0 | 29.0 | 28.0 | 30.0 |
| Uzbekistan | 1 000 | 700 | 1 400 | 4.5 | 4.2 | 4.8 | 15.0 | 14.0 | 16.0 |
| Subtotal non-EU/EEA | 28 100 | 21 000 | 35 000 | 13.9 | 8.9 | 20.8 | 21 | 20 | 22 |
| Total European Region | 30 000 | 23 000 | 37 000 | 12.0 | 7.5 | 16.0 | 18 | 16 | 19 |
| Subtotal 18 HPCs | 28 400 | 22 000 | 35 000 | 13.3 | 8.8 | 19.8 | 21 | 20 | 22 |

European Region' comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. HIV - human immunodeficiency virus. HPCs - high-priority countries. RR-TB - rifampicin-resitant tuberculosis.

| Ri cases | ated percent R-tuberculos among retr tuberculosis patients | is eated | among not confi | RR tubercul ified bacter rmed pulmo rculosis pat | iologically nary | Country/area |
|--------------|--|--------------|--------------------|---|---------------------|-----------------------------------|
| | % | | | Number | | |
| Best | Low | High | Best | Low | High | |
| 10.0 | 2.0 | 42.0 | 11 | | 10 | EU/EEA |
| 18.0 8.8 | 3.8 1.9 | 43.0 24.0 | 11 13 | 4 5 | 18 21 | Austria Belgium |
| 19.0 | 11.0 | 29.0 | 24 | 15 | 33 | Bulgaria |
| 0.0 | 0.0 | 16.0 | 0 | 0 | 3 | Croatia |
| 11.0 | 7.4 | 16.0 | 0 | 0 | 2 | Cyprus |
| 12.0 | 2.4 | 30.0 | 10 | 4 | 17 | Czech Republic |
| 0.0 | 0.0 | 25.0 | 4 | 0 | 9 | Denmark |
| 50.0 | 27.0 | 73.0 | 33 | 24 | 43 | Estonia |
| 67.0 | 9.4 | 99.0 | 6 | 1 | 10 | Finland |
| 10.0 | 7.1 | 15.0 | 43 | 31 | 54 | France |
| 23.0 | 16.0 | 30.0 | 120 | 60 | 180 | Germany |
| 9.1 | 0.2 | 41.0 | 6 | 0 | 14 | Greece |
| 8.1 | 3.3 | 16.0 | 13 | 8 | 19 | Hungary |
| 0.0 | 0.0 | 98.0 | 0 | 0 | 1 | Iceland |
| 0.0 | 0.0 | 31.0 | 2 | 0 | 6 | Ireland |
| 13.0 | 7.7 | 21.0 | 72 | 46 | 97 | Italy |
| 31.0 | 19.0 | 44.0 | | | | <i>Latvia</i> Liechtenstein |
| (2.0 | 26.0 | (0.0 | 100 | 470 | 240 | |
| 42.0 | 36.0 | 49.0 | 190 | 170 0 | 210 1 | Lithuania |
| 11.0 11.0 | 7.4 7.4 | 16.0 16.0 | 0 | 0 | 4 | Luxembourg Malta |
| 6.3 | 0.2 | 30.0 | 5 | 0 | 9 | Netherlands |
| 0.0 | 0.0 | 29.0 | 6 | 1 | 11 | Norway |
| 4.2 | 2.5 | 6.5 | 63 | 46 | 79 | Poland |
| 6.9 | 2.8 | 14.0 | 18 | 10 | 27 | Portugal |
| 15.0 | 13.0 | 16.0 | 480 | 440 | 520 | Romania |
| 13.0 | 1.7 | 40.0 | 4 | 0 | 7 | Slovakia |
| 0.0 | 0.0 | 71.0 | 0 | 0 | 3 | Slovenia |
| 18.0 | 9.4 | 30.0 | 130 | 92 | 170 | Spain |
| 18.0 | 2.3 | 52.0 | 8 | 3 | 14 | Sweden |
| 5.3 | 2.3 | 10.0 | 35 | 23 | 48 | United Kingdom |
| 12.1 | 8.7 | 20.2 | 1 300 | 1 210 | 1 400 | Subtotal EU/EEA |
| | | | | | | Non-EU/EEA |
| 6.7 | 0.2 | 32.0 | 5 | 1 | 10 | Albania |
| 11.0 | 7.4 | 16.0 | 0 | 0 | 2 | Andorra |
| 44.0 | 35.0 | 54.0 | 98 | 82 | 110 | Armenia |
| 26.0 | 24.0 | 27.0 | 960 | 910 | 1000 | Azerbaijan |
| 69.0 | 66.0 | 73.0 | 980 | 940 | 1000 | Belarus |
| 0.0 31.0 | 0.0 27.0 | 8.2 35.0 | 2 320 | 0 290 | 5 360 | Bosnia and Herzegovina Georgia |
| 0.0 | 0.0 | 46.0 | 15 | 8 | 22 | Israel |
| 64.0 | 63.0 | 66.0 | 4 400 | 4 300 | 4 500 | Kazakhstan |
| 68.0 | 66.0 | 71.0 | 1 600 | 1 600 | 1700 | Kyrgyzstan |
| 60.0 | 56.0 | 64.0 | 860 | 820 | 910 | Moldova |
| 11.0 | 7.4 | 16.0 | 300 | -20 | , , , | Monaco |
| 33.0 | 0.8 | 91.0 | 1 | 0 | 3 | Montenegro |
| 0.0 | 0.0 | 29.0 | 0 | 0 | 3 2 | North Macedonia |
| 71.0 | 70.0 | 71.0 | 29 000 | 29 000 | 29 000 | Russia |
| 11.0 | 7.4 | 16.0 | 0 | 0 | 0 | San Marino |
| 4.7 | 1.3 | 11.0 | 11 | 5 | 17 | Serbia |
| 26.0 | 9.1 | 51.0 | 10 | 4 | 17 | Switzerland |
| 38.0 | 34.0 | 42.0 | 740 | 680 | 800 | Tajikistan |
| 12.0 | 9.0 | 15.0 | 250 | 220 | 280 | Turkey |
| 54.0 | 48.0 | 60.0 | 270 | 250 | 300 | Turkmenistan |
| 46.0 | 45.0 | 48.0 | 6 900 | 6 800 | 7 0 0 0 | Ukraine |
| 34.0 | 32.0 | 36.0 | 1400 | 1 400 | 1 500 | Uzbekistan |
| 54 | 47 | 61 | 47 800 | 48 000 | 48 000 | Subtotal non-EU/EEA |
| 54 | 47 | 61 | 49 000 | 49 000 | 49 000 | Total European Region |
| 54 | 47 | 61 | 48 500 | 48 000 | 49 000 | Subtotal 18 HPCs |

Table 3. Tuberculosis cases, notification rates per 100 000 population and mean annual change in rates, European Region, 2014-2018

| Countrylors | 20 | 14 | 20 | 15 | 20 | 16 | 20 | 17 | 20 | 18 | Mean annual % | |
|--------------------------------------|---------|-------------|---------|-------------|---------|-------|---------|-------|---------|-------|------------------------------|--|
| Country/area | N | Rate | N | Rate | N | Rate | N | Rate | N | Rate | change in rate, 2014–2018 | |
| EU/EEA | | | | | | | | | | | | |
| Austria | 586 | 6.9 | 583 | 6.8 | 634 | 7.3 | 569 | 6.5 | 482 | 5.5 | -5.6% | |
| Belgium | 949 | 8.5 | 977 | 8.7 | 1,042 | 9.2 | 967 | 8.5 | 981 | 8.6 | 0.3% | |
| Bulgaria | 1 872 | 25.8 | 1 660 | 23.0 | 1 603 | 22.4 | 1 463 | 20.6 | 1 358 | 19.3 | -7.1% | |
| Croatia | 499 | 11.7 | 488 | 11.5 | 464 | 11.1 | 378 | 9.1 | 372 | 9.1 | -6.3% | |
| Cyprus | 41 | 4.8 | 63 | 7.4 | 60 | 7.1 | 53 | 6.2 | 52 | 6.0 | 5.9% | |
| Czech Republic | 511 | 4.9 | 517 | 4.9 | 516 | 4.9 | 501 | 4.7 | 444 | 4.2 | -3.7% | |
| Denmark | 320 | 5.7 | 357 | 6.3 | 330 | 5.8 | 275 | 4.8 | 291 | 5.0 | -3.0% | |
| Estonia | 248 | 18.8 | 217 | 16.5 | 192 | 14.6 | 175 | 13.3 | 147 | 11.1 | -12.3% | |
| Finland | 263 | 4.8 | 272 | 5.0 | 233 | 4.2 | 246 | 4.5 | 230 | 4.2 | -3.6% | |
| France | 4 888 | 7.4 | 4 744 | 7.1 | 5 735 | 8.6 | 5 005 | 7.5 | 5 092 | 7.6 | 0.7% | |
| Germany | 4 524 | 5.6 | 5 837 | 7.2 | 5 926 | 7.2 | 5 495 | 6.7 | 5 429 | 6.6 | 4.0% | |
| Greece | 519 | 4.7 | 482 | 4.4 | 440 | 4.1 | 467 | 4.3 | 432 | 4.0 | -4.1% | |
| Hungary | 851 | 8.6 | 906 | 9.2 | 786 | 8.0 | 685 | 7.0 | 640 | 6.5 | -6.6% | |
| Iceland | 9 | 2.8 | 7 | 2.1 | 6 | 1.8 | 14 | 4.1 | 8 | 2.3 | -4.5% | |
| Ireland | 311 | 6.7 | 283 | 6.1 | 315 | 6.7 | 305 | 6.4 | 314 | 6.5 | -0.8% | |
| | 3 916 | 6.4 | 3 769 | 6.2 | 4 032 | 6.6 | 3 944 | 6.5 | 3 912 | 6.5 | 0.1% | |
| Italy Latvia | 761 | 38.0 | 721 | 36.3 | 660 | 33.5 | 552 | 28.3 | 2712 | 0.0 | U.170 | |
| Liechtenstein | 1 | | 2 | 36.3 5.4 | | | 1 | 28.3 | 1 | 2.6 | -0.70/ | |
| Lithuania | 1 607 | 2.7 54.6 | 1 507 | | 1 442 | 5.3 | 1 387 | 48.7 | 1 142 | | -0.7% | |
| | | | | 51.6 | | 49.9 | | | | 40.7 | -7.1% 12.49/ | |
| Luxembourg | 24 | 4.4 | 30 | 5.3 | 29 | 5.0 | 32 | 5.4 | 42 | 7.0 | 12.4% | |
| Malta | 46 | 10.7 | 32 | 7.3 | 50 | 11.1 | 42 | 9.1 | 55 | 11.6 | 1.9% | |
| Netherlands | 814 | 4.8 | 862 | 5.1 | 887 | 5.2 | 783 | 4.6 | 806 | 4.7 | -0.8% | |
| Norway | 323 | 6.3 | 313 | 6.1 | 295 | 5.7 | 261 | 5.0 | 209 | 3.9 | -11.1% | |
| Poland | 6 698 | 17.6 | 6 430 | 16.9 | 6 444 | 17.0 | 5 787 | 15.2 | 5 487 | 14.4 | -4.8% | |
| Portugal | 2 278 | 21.8 | 2 196 | 21.2 | 1936 | 18.7 | 1800 | 17.5 | 2 137 | 20.8 | -1.3% | |
| Romania | 15 879 | 79.6 | 15 183 | 76.4 | 13 601 | 68.8 | 12 997 | 66.2 | 12 205 | 62.5 | -5.9% | |
| Slovakia | 336 | 6.2 | 317 | 5.8 | 296 | 5.5 | 249 | 4.6 | 281 | 5.2 | -4.5% | |
| Slovenia | 144 | 7.0 | 130 | 6.3 | 118 | 5.7 | 112 | 5.4 | 99 | 4.8 | -9.0% | |
| Spain | 4 913 | 10.6 | 5 020 | 10.8 | 5 070 | 10.9 | 5 690 | 12.2 | 4 648 | 10.0 | -1.5% | |
| Sweden | 659 | 6.8 | 815 | 8.4 | 714 | 7.2 | 519 | 5.2 | 491 | 4.9 | -8.2% | |
| United Kingdom | 7 030 | 10.9 | 6 229 | 9.6 | 6 117 | 9.4 | 5 537 | 8.4 | 5 075 | 7.7 | -8.5% | |
| Subtotal EU/EEA | 61 820 | 12.1 | 60 949 | 11.9 | 59 975 | 11.6 | 56 291 | 10.9 | 52 862 | 10.2 | -4.0% | |
| Non-EU/EEA | | | | | | | | | | | | |
| Albania | 408 | 14.1 | 415 | 14.4 | 415 | 14.4 | 503 | 17.4 | 440 | 15.3 | 2.0% | |
| Andorra | 6 | 7.6 | 4 | 5.1 | 4 | 5.2 | 1 | 1.3 | 2 | 2.6 | -23.5% | |
| Armenia | 1 342 | 46.1 | 1 185 | 40.5 | 1 080 | 36.8 | 926 | 31.4 | 796 | 27.0 | -12.5% | |
| Azerbaijan | 7 539 | 79.3 | 7 501 | 78.0 | 6 707 | 68.9 | 7 129 | 72.4 | 6 896 | 69.3 | -3.3% | |
| Belarus | 4 274 | 45.3 | 4 177 | 44.3 | 3 598 | 38.1 | 3 052 | 32.3 | 2 5 4 2 | 26.9 | -12.2% | |
| Bosnia and Herzegovina | 1 196 | 34.3 | 1095 | 31.9 | 907 | 26.8 | 768 | 22.9 | 669 | 20.1 | -12.5% | |
| Georgia | 3 850 | 95.4 | 3 611 | 89.7 | 3 330 | 82.9 | 2 927 | 73.0 | 2 590 | 64.7 | -9.3% | |
| Israel | 361 | 4.6 | 280 | 3.5 | 250 | 3.1 | 234 | 2.8 | 292 | 3.5 | -6.7% | |
| Kazakhstan | 15 718 | 90.8 | 14 631 | 83.3 | 12 658 | 71.0 | 12 942 | 71.6 | 13 361 | 72.9 | -5.3% | |
| Kyrgyzstan | 7 423 | 127.0 | 7 833 | 131.4 | 7 995 | 131.6 | 7 695 | 124.3 | 7 585 | 120.3 | -1.3% | |
| Moldova | 4 636 | 113.8 | 4 211 | 103.4 | 4 134 | 101.7 | 3 858 | 95.0 | 3 465 | 85.5 | -6.9% | |
| Monaco | 0 | 0.0 | 0 | 0.0 | - | - | - | - | - | - | - | |
| Montenegro | 113 | 18.0 | 80 | 12.8 | 87 | 13.9 | 77 | 12.3 | 84 | 13.4 | -7.2% | |
| North Macedonia | 285 | 13.7 | 284 | 13.7 | 267 | 12.8 | 219 | 10.5 | 217 | 10.4 | -6.6% | |
| Russia | 136 168 | 94.1 | 130 904 | 90.3 | 121 046 | 83.3 | 114 187 | 78.5 | 106 913 | 73.4 | -6.0% | |
| San Marino | - | 74.1 | - | - | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0% | |
| Serbia | 1832 | 20.6 | 1658 | 18.7 | 1 488 | 16.8 | 1466 | 16.6 | 1358 | 15.4 | -7.0% | |
| Serbia excluding Kosovo ^a | 998 | 14.0 | 888 | 12.5 | 767 | 10.8 | 745 | 10.6 | 656 | 9.4 | -9.6% | |
| Kosovo ^a | 834 | | 770 | | 767 | 40.6 | 745 | 40.4 | 702 | 39.2 | | |
| | | 47.3 | | 43.5 | | | | | | | -4.6% | |
| Switzerland Tailkistan | 473 | 5.8 | 564 | 6.8 | 609 | 7.3 | 555 | 6.6 | 516 | 6.1 | 1.2% | |
| Tajikistan | 6 260 | 75.9 | 6 232 | 73.7 | 6 241 | 72.0 | 6 279 | 70.7 | 5 975 | 65.7 | -3.5% | |
| Turkey | 13 378 | 17.3 | 12 772 | 16.3 | 12 417 | 15.6 | 12 046 | 14.9 | 11 786 | 14.3 | -4.7% | |
| Turkmenistan | 2 854 | 52.2 | 2 472 | 44.4 | 2 340 | 41.3 | 2 232 | 38.8 | 2 636 | 45.1 | -3.6% | |
| Ukraine | 40 302 | 89.3 | 35 304 | 78.6 | 34 088 | 76.2 | 31 584 | 71.0 | 30 378 | 68.7 | -6.4% | |
| Uzbekistan | 22 804 | 74.9 | 19 055 | 61.6 | 18 441 | 58.7 | 19 329 | 60.5 | 18 496 | 57.0 | -6.6% | |
| Subtotal non-EU/EEA | 271 222 | 68.1 | 254 268 | 63.4 | 238 102 | 58.9 | 228 009 | 56.0 | 216 997 | 53.0 | -6.1% | |
| Total European Region | 333 042 | 36.6 | 315 217 | 34.4 | 298 077 | 32.4 | 284 300 | 30.8 | 269 859 | 29.1 | -5.5% | |
| Subtotal 18 HPCs | 286 915 | 72.1 | 269 176 | 67 | 251 573 | 62 | 240 760 | 59 | 228 271 | 56.0 | -6.1% | |

'European Region' comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. The data published in this report might differ from figures in national reports due to different times of reporting. The deadline for correcting and updating the data used in this report in the joint database was 3 October 2019. HPCs - high-priority countries.

This designation is without prejudice to positions on status, and is in line with UN Security Council Resolution 1244 and the International Court of Justice Opinion on the Kosovo Declaration of Independence.

Table 4. New tuberculosis cases and relapses^a, notification rates per 100 000 population and mean annual change in rates, European Region, 2014-2018

| Countryloros | 20 | 14 | 20 | 2015 | | 2016 | | 17 | 20 | 18 | Mean annual % |
|--------------------------------------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|------------------------------|
| Country/area | N | Rate | change in rate, 2014–2018 |
| EU/EEA | | | | | | | | | | | |
| Austria | 567 | 6.7 | 564 | 6.6 | 619 | 7.1 | 561 | 6.4 | 470 | 5.3 | -5.4% |
| Belgium ^b | 878 | 7.9 | 919 | 8.2 | 982 | 8.7 | 911 | 8.0 | 913 | 8.0 | 0.5% |
| Bulgaria | 1 825 | 25.2 | 1 619 | 22.5 | 1 525 | 21.3 | 1 408 | 19.8 | 1290 | 18.3 | -7.7% |
| Croatia | 498 | 11.7 | 485 | 11.5 | 452 | 10.8 | 372 | 9.0 | 364 | 8.9 | -6.8% |
| Cyprus | 39 | 4.5 | 63 | 7.4 | 57 | 6.7 | 52 | 6.1 | 51 | 5.9 | 6.7% |
| Czech Republic | 472 | 4.5 | 507 | 4.8 | 511 | 4.8 | 495 | 4.7 | 435 | 4.1 | -2.2% |
| Denmark ^b | 293 | 5.2 | 320 | 5.7 | 292 | 5.1 | 253 | 4.4 | 270 | 4.7 | -2.7% |
| Estonia | 237 | 18.0 | 206 | 15.7 | 188 | 14.3 | 171 | 13.0 | 145 | 11.0 | -11.6% |
| Finland | 256 | 4.7 | 268 | 4.9 | 222 | 4.0 | 243 | 4.4 | 229 | 4.2 | -3.0% |
| France | 4 888 | 7.4 | 4 457 | 6.7 | 5 446 | 8.2 | 4 715 | 7.1 | 4779 | 7.1 | -0.8% |
| Germany | 4 350 | 5.4 | 5 626 | 6.9 | 5 740 | 7.0 | 5 349 | 6.5 | 5 265 | 6.4 | 4.2% |
| Greece | 4 350 | | 438 | | 417 | 3.9 | | 4.0 | 406 | 3.8 | -3.9% |
| | 799 | 4.4 | | 4.0 | | | 434 | | | | -6.6% |
| Hungary | | 8.1 | 858 | 8.7 | 737 | 7.5 | 650 | 6.6 | 602 | 6.2 | |
| Iceland | 9 | 2.8 | 7 | 2.1 | 6 | 1.8 | 13 | 3.8 | 8 | 2.3 | -4.5% |
| Ireland ^b | 290 | 6.3 | 266 | 5.7 | 290 | 6.1 | 288 | 6.0 | 294 | 6.1 | -0.7% |
| Italy | 3 663 | 6.0 | 3 476 | 5.7 | 3 778 | 6.2 | 3 828 | 6.3 | 3 777 | 6.2 | 0.9% |
| Latvia | 738 | 36.9 | 697 | 35.1 | 641 | 32.6 | 543 | 27.8 | - | - | - |
| Liechtenstein | 0 | 0.0 | 1 | 2.7 | 2 | 5.3 | 1 | 2.6 | 1 | 2.6 | - |
| Lithuania | 1 481 | 50.3 | 1 3 9 5 | 47.8 | 1347 | 46.6 | 1268 | 44.5 | 1 063 | 37.8 | -6.9% |
| Luxembourg | 24 | 4.4 | 30 | 5.3 | 29 | 5.0 | 32 | 5.4 | 42 | 7.0 | 12.4% |
| Malta | 45 | 10.5 | 32 | 7.3 | 50 | 11.1 | 42 | 9.1 | 55 | 11.6 | 2.5% |
| Netherlands | 805 | 4.8 | 846 | 5.0 | 875 | 5.2 | 772 | 4.5 | 791 | 4.6 | -1.0% |
| Norway ^b | 299 | 5.9 | 282 | 5.5 | 273 | 5.2 | 237 | 4.5 | 189 | 3.6 | -11.6% |
| Poland | 6 539 | 17.2 | 6 237 | 16.4 | 6 143 | 16.2 | 5 535 | 14.6 | 5 196 | 13.7 | -5.6% |
| Portugal | 2 223 | 21.3 | 2 155 | 20.8 | 1891 | 18.3 | 1760 | 17.1 | 2 111 | 20.5 | -1.0% |
| Romania | 14 834 | 74.4 | 14 215 | 71.5 | 12 774 | 64.6 | 12 303 | 62.6 | 11 586 | 59.3 | -5.5% |
| Slovakia | 320 | 5.9 | 308 | 5.7 | 281 | 5.2 | 228 | 4.2 | 273 | 5.0 | -4.0% |
| Slovenia | 142 | 6.9 | 129 | 6.3 | 118 | 5.7 | 112 | 5.4 | 98 | 4.7 | -8.9% |
| Spain | 4 685 | 10.1 | 4 818 | 10.4 | 3 973 | 8.6 | 4 551 | 9.8 | 4 500 | 9.6 | -1.1% |
| Sweden | 625 | 6.5 | 776 | 8.0 | 691 | 7.0 | 487 | 4.9 | 477 | 4.7 | -7.7% |
| United Kingdom ^b | 6 570 | 10.2 | 5 8 4 5 | 9.0 | 5 727 | 8.8 | 5 225 | 7.9 | 4 775 | 7.2 | -8.3% |
| Subtotal EU/EEA | 58 878 | 11.5 | 57 845 | 11.3 | 56 077 | 10.9 | 52 839 | 10.2 | 50 455 | 9.8 | -3.9% |
| Non-EU/EEA | 00070 | 1119 | 77 5 15 | 1119 | | 10.0 | 7 - 557 | | J 1 100 | 7 | 217.17 |
| Albania | 408 | 14.1 | 415 | 14.4 | 415 | 14.4 | 503 | 17.4 | 440 | 15.3 | 2.0% |
| Andorra | 6 | 7.6 | 4 | 5.1 | 4 | 5.2 | 1 | 1.3 | 2 | 2.6 | -23.5% |
| Armenia | 1 329 | 45.6 | 1 171 | 40.0 | 1 027 | 35.0 | 841 | 28.6 | 734 | 24.9 | -14.1% |
| Azerbaijan | 5 788 | 60.9 | 5 456 | 56.7 | 5 159 | 53.0 | 5 231 | 53.1 | 5 038 | 50.6 | -4.5% |
| Belarus | 3 858 | 40.9 | 3 765 | 39.9 | 3 211 | 34.0 | 2 781 | 29.4 | 2 359 | 25.0 | -11.6% |
| Bosnia and Herzegovina | 1196 | 34.3 | 1092 | 31.8 | 907 | 26.8 | 766 | 22.9 | 666 | 20.0 | -12.6% |
| Georgia | 3 200 | 79.3 | 3 152 | 78.3 | 2 983 | 74.3 | 2 597 | 64.8 | 2 316 | 57.9 | -7.6% |
| Israel | 361 | 4.6 | 280 | 3.5 | 250 | 3.1 | 234 | 2.8 | 292 | 3.5 | -6.7% |
| Kazakhstan | 15 244 | 88.1 | 14 006 | 79.7 | 12 322 | 69.1 | 12 449 | 68.9 | 12 832 | 70.0 | -5.6% |
| | | | 7 027 | | | | | 108.0 | | | -5.6% |
| Kyrgyzstan Moldova | 6 390 | 109.3 | | 117.9 | 7 026 | 115.7 | 6 687 | | 6 338 | 100.5 | |
| | 4 058 | 99.6 | 3 608 | 88.6 | 3 571 | 87.8 | 3 358 | 82.7 | 3 022 | 74.6 | -7.0% |
| Monaco | 0 | 0.0 | 0 | 0.0 | 0.7 | 12.0 | 75 | 12.0 | 0.4 | 12.7 | 7.20/ |
| Montenegro | 113 | 18.0 | 80 | 12.8 | 87 | 13.9 | 75 | 12.0 | 84 | 13.4 | -7.2% |
| North Macedonia | 284 | 13.7 | 282 | 13.6 | 263 | 12.6 | 216 | 10.4 | 217 | 10.4 | -6.6% |
| Russia | 102 340 | 70.7 | 99 590 | 68.7 | 92 407 | 63.6 | 84 510 | 58.1 | 78 258 | 53.7 | -6.7% |
| San Marino | | | | | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0.0% |
| Serbia | 1 818 | 20.4 | 1649 | 18.6 | 1 472 | 16.6 | 1 450 | 16.4 | 1330 | 15.1 | -7.3% |
| Serbia excluding Kosovo ^c | 984 | 13.8 | 879 | 12.4 | 755 | 10.7 | 738 | 10.5 | 641 | 9.1 | -9.8% |
| Kosovo ^c | 834 | 47.3 | 770 | 43.5 | 717 | 40.4 | 712 | 39.9 | 689 | 38.5 | -5.1% |
| Switzerland | 423 | 5.2 | 531 | 6.4 | 573 | 6.8 | 529 | 6.3 | 473 | 5.5 | 1.9% |
| Tajikistan | 5 807 | 70.4 | 5 894 | 69.7 | 5 965 | 68.9 | 5 895 | 66.4 | 5 726 | 62.9 | -2.8% |
| Turkey | 13 108 | 17.0 | 12 550 | 16.0 | 12 186 | 15.3 | 11 821 | 14.6 | 11 576 | 14.1 | -4.6% |
| Turkmenistan | 2 537 | 46.4 | 2 191 | 39.4 | 2 068 | 36.5 | 1 968 | 34.2 | 2 157 | 36.9 | -5.6% |
| Ukraine | 31 701 | 70.3 | 30 151 | 67.1 | 29 052 | 65.0 | 27 229 | 61.2 | 26 512 | 59.9 | -3.9% |
| Uzbekistan | 18 345 | 60.3 | 16 315 | 52.7 | 16 050 | 51.0 | 16 842 | 52.7 | 16 413 | 50.5 | -4.3% |
| Subtotal non-EU/EEA | 217 330 | 54.5 | 209 209 | 52.1 | 196 998 | 48.7 | 185 983 | 45.7 | 176 785 | 43.2 | -5.7% |
| Total European Region | 276 208 | 30.3 | 253 075 | 29.2 | 253 075 | 27.5 | 238 822 | 25.8 | 227 240 | 24.5 | -5.1% |
| | _,0 _00 | 2012 | | | | -710 | -50 011 | -5.0 | ,, | - 110 | 31170 |

European Region' comprises the 53 countries of the WHO European Region and Liechtenstein.

WHO European Region 18 tuberculosis high-priority countries presented in italics.

HPC - high-priority countries.

* Cases with unknown previous tuberculosis history are included among new tuberculosis cases.

* Previous tuberculosis history is defined by previous diagnosis.

* This designation is without prejudice to positions on status, and is in line with UN Security Council Resolution 1244 and the International Court of Justice Opinion on the Kosovo Declaration of Independence.

The data published in this report might differ from figures in national reports due to different times of reporting. The deadline for correcting and updating the data used in this report in the joint database was 3 October 2019.

Table 5. Tuberculosis cases by history of previous tuberculosis treatment, European Region, 2018

| | | | | | | | | | Previous | ly treated | | | | | |
|---|--|--|-----------------------|----------------------------------|---|---|---|--|-----------------------|-----------------------|-----------------------|---|------------------------------------|--|--|
| Country/area | Ne | | prev tuber | nown vious culosis tory | | ously d total | treat | ious ment leted | | vious ent failed | from p | follow-up previous tment ^b | retrea (incl. u pres trea | her atment nknown vious tment ails) | All tuberculosis cases |
| | N | (%) ^c | N | (%)' | N | (%) ^c | N | (%) ^d | N | (%) ^d | N | (%) ^d | N | (%) ⁴ | N |
| EU/EEA | 2/0 | (72.1) | 407 | (24.6) | 20 | ((0) | 47 | (50.6) | 4 | (2.1) | 0 | (0.0) | 44 | (27.0) | 400 |
| Austria | 349 | (72.4) | 104 | (21.6) | 29 | (6.0) | 17 | (58.6) | 1 | (3.4) | 0 | (0.0) | 11 | (37.9) | 482 |
| Belgium ^e Bulgaria | 757 | (77.2) | 156 | (15.9) | 68 | (6.9) | 0 | (0.0) | 0 | (0.0) | 9 | (0.0) | 68 | (100.0) | 981 |
| Croatia | 1 163 291 | (85.6) (78.2) | <i>0</i> 55 | (0.0) (14.8) | 195 26 | (14.4) (7.0) | 127 18 | (65.1) (69.2) | 27 4 | (13.8) (15.4) | 0 | (4.6) | <i>32</i> 4 | (16.4) (15.4) | 1 358 372 |
| Cyprus | 47 | (90.4) | 2 | (3.8) | 3 | (5.8) | 2 | (66.7) | 0 | (0.0) | 0 | (0.0) | 1 | (33.3) | 52 |
| Czech Republic | 413 | (93.0) | 0 | (0.0) | 31 | (7.0) | 22 | (71.0) | 0 | (0.0) | 1 | (3.2) | 8 | (25.8) | 444 |
| Denmark ^e | 270 | (92.8) | 0 | (0.0) | 21 | (7.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 21 | (100.0) | 291 |
| Estonia | 121 | (82.3) | 0 | (0.0) | 26 | (17.7) | 24 | (92.3) | 2 | (7.7) | 0 | (0.0) | 0 | (0.0) | 147 |
| Finland | 222 | (96.5) | 4 | (1.7) | 4 | (1.7) | 3 | (75.0) | 0 | (0.0) | 0 | (0.0) | 1 | (25.0) | 230 |
| France | 2 593 | (50.9) | 2 186 | (42.9) | 313 | (6.1) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 313 | (100.0) | 5 092 |
| Germany | 3 635 | (67.0) | 1484 | (27.3) | 310 | (5.7) | 146 | (47.1) | 12 | (3.9) | 48 | (15.5) | 104 | (33.5) | 5 429 |
| Greece | 361 | (83.6) | 34 | (7.9) | 37 | (8.6) | 11 | (29.7) | 0 | (0.0) | 0 | (0.0) | 26 | (70.3) | 432 |
| Hungary | 573 | (89.5) | 0 | (0.0) | 67 | (10.5) | 29 | (43.3) | 0 | (0.0) | 27 | (40.3) | 11 | (16.4) | 640 |
| Iceland | 8 | (100.0) | 0 | (0.0) | 0 | (0.0) | 0 | - | 0 | - | 0 | - | 0 | - | 8 |
| Ireland ^e | 179 | (57.0) | 115 | (36.6) | 20 | (6.4) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 20 | (100.0) | 314 |
| Italy | 2 913 | (74.5) | 864 | (22.1) | 135 | (3.5) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 135 | (100.0) | 3,912 |
| Latvia | - | - | - | - | - | | - | - | - | - | - | - | | - | - |
| Liechtenstein | 1 | (100.0) | 0 | (0.0) | 0 | (0.0) | 0 | - | 0 | - | 0 | - | 0 | - | 1 |
| Lithuania | 922 | (80.7) | 0 | (0.0) | 220 | (19.3) | 141 | (64.1) | 40 | (18.2) | 39 | (17.7) | 0 | (0.0) | 1 142 |
| Luxembourg | 0 | (0.0) | 42 | (100.0) | 0 | (0.0) | 0 | - | 0 | - | 0 | - | 0 | - | 42 |
| Malta | 52 | (94.5) | 3 | (5.5) | 0 | (0.0) | 0 | - | 0 | - | 0 | - | 0 | - | 55 |
| Netherlands | 767 | (95.2) | 3 | (0.4) | 36 | (4.5) | 21 | (58.3) | 0 | (0.0) | 5 | (13.9) | 10 | (27.8) | 806 |
| Norwaye | 189 | (90.4) | 0 | (0.0) | 20 | (9.6) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 20 | (100.0) | 209 |
| Poland | 4 852 | (88.4) | 0 | (0.0) | 635 | (11.6) | 344 | (54.2) | 0 | (0.0) | 0 | (0.0) | 291 | (45.8) | 5 487 |
| Portugal | 1883 | (88.1) | 164 | (7.7) | 90 | (4.2) | 64 | (71.1) | 1 | (1.1) | 0 | (0.0) | 25 | (27.8) | 2 137 |
| Romania Slovakia | 9 786 240 | (80.2) (85.4) | <i>0</i> | (0.0) | 2 419 27 | (19.8) (9.6) | 1 800 19 | (74.4) (70.4) | 137 | (5.7) | 331 0 | (13.7) | 151 8 | (6.2) (29.6) | <i>12 205</i> 281 |
| Slovenia | 87 | (87.9) | 2 | (2.0) | 10 | (10.1) | 9 | (90.0) | 0 | (0.0) | 1 | (10.0) | 0 | (0.0) | 99 |
| Spain | 2 920 | (62.8) | 1580 | (34.0) | 148 | (3.2) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 148 | (100.0) | 4 648 |
| Sweden | 465 | (94.7) | 3 | (0.6) | 23 | (4.7) | 9 | (39.1) | 0 | (0.0) | 0 | (0.0) | 14 | (60.9) | 491 |
| United Kingdome | 4 566 | (90.0) | 209 | (4.1) | 300 | (5.9) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 300 | (100.0) | 5 075 |
| Subtotal EU/EEA | 40 625 | (76.9) | 7 024 | (13.3) | 5,213 | (9.9) | 2 806 | (53.8) | 224 | (4.3) | 461 | (8.8) | 1,722 | (33.0) | 52 862 |
| Non-EU/EEA | | | | | | | | | ' | | <u>'</u> | | | | |
| Albania | 424 | (96.4) | - | - | 16 | (3.6) | 16 | (100.0) | - | - | - | - | - | _ | 440 |
| Andorra | 2 | (100.0) | - | - | 0 | (0.0) | 0 | (0.0) | - | - | - | - | - | - | 2 |
| Armenia | 621 | (78.0) | - | - | 175 | (22.0) | 113 | (64.6) | - | - | - | - | - | - | 796 |
| Azerbaijan | 3 762 | (54.6) | - | - | 3 134 | (45.4) | 1 276 | (40.7) | - | - | - | - | - | - | 6 896 |
| Belarus | 1886 | (74.2) | - | - | 656 | (25.8) | 473 | (72.1) | - | - | - | - | - | - | 2 542 |
| Bosnia and Herzegovina | 617 | (92.2) | - | - | 52 | (7.8) | 49 | (94.2) | - | - | - | - | - | - | 669 |
| Georgia | 1944 | (75.1) | - | - | 646 | (24.9) | 372 | (57.6) | - | - | - | - | - | - | 2 590 |
| Israel | 284 | (97.3) | - | - | 8 | (2.7) | 8 | (100.0) | - | - | - | - | - | - | 292 |
| Kazakhstan | 8 937 | (66.9) | - | - | 4 424 | (33.1) | 3 895 | (88.0) | - | - | _ | - | - | - | 13 361 |
| | 5 249 | (69.2) | - | - | 2 336 | (30.8) | 1 089 | (46.6) | - | _ | _ | - | - | - | 7 585 |
| Kyrgyzstan | | | | | 4 040 | (204) | F/7 | | | | - | - | - | - | 3 465 |
| Moldova | 2 455 | (70.9) | - | - | 1 010 | (29.1) | 567 | (56.1) | - | _ | | | | | 0 |
| Moldova Monaco | 2 455 | (70.9) | - | - | 0 | (0.0) | 0 | (0.0) | - | - | - | - | | | 0 / |
| Moldova Monaco Montenegro | 2 455 81 | (70.9) (96.4) | - | - | 0 | (0.0) | 0 | (0.0) (100.0) | - | - | - | - | - | - | 84 |
| Moldova Monaco Montenegro North Macedonia | 2 455 81 202 | (70.9) (96.4) (93.1) | - - - | - - - | 0 3 15 | (0.0) (3.6) (6.9) | 0 3 15 | (0.0) (100.0) (100.0) | - - - | - - - | - | - | | - | 217 |
| Moldova Monaco Montenegro North Macedonia Russia | 2 455 81 202 65 234 | (70.9) (96.4) | - | - | 0 3 15 41 679 | (0.0) | 0 3 15 13 024 | (0.0) (100.0) | - | - | | - | - | | 217 106 913 |
| Moldova Monaco Montenegro North Macedonia Russia San Marino | 2 455 81 202 65 234 0 | (96.4) (93.1) (61.0) | - - - | - - - | 0 3 15 41 679 0 | (0.0) (3.6) (6.9) (39.0) | 0 3 15 13 024 0 | (0.0) (100.0) (100.0) (31.2) | - - - | - - - | - | | - - - | - | 217 106 913 0 |
| Moldova Monaco Montenegro North Macedonia Russia | 2 455 81 202 65 234 | (70.9) (96.4) (93.1) | - - - - | - - - - | 0 3 15 41 679 | (0.0) (3.6) (6.9) | 0 3 15 13 024 | (0.0) (100.0) (100.0) | - - - - | - - - - | - - - | - - - | - - - | - - - | 217 106 913 |
| Moldova Monaco Montenegro North Macedonia Russia San Marino Serbia Serbia excluding Kosovo [†] Kosovo [†] | 2 455 81 202 65 234 0 1 240 | (70.9) (96.4) (93.1) (61.0) (91.3) (88.9) (93.6) | - | | 0 3 15 41 679 0 118 73 45 | (0.0) (3.6) (6.9) (39.0) (8.7) (11.1) (6.4) | 0 3 15 13 024 0 90 58 | (0.0) (100.0) (100.0) (31.2) (76.3) (79.5) (71.1) | | | - - - - | - - - - | - - - - | - - - | 217 106 913 0 1 358 656 702 |
| Moldova Monaco Montenegro North Macedonia Russia San Marino Serbia Serbia excluding Kosovo ^f | 2 455 81 202 65 234 0 1 240 583 | (70.9) (96.4) (93.1) (61.0) (91.3) (88.9) | - - - - - | - | 0 3 15 41 679 0 118 73 | (0.0) (3.6) (6.9) (39.0) (8.7) (11.1) | 0 3 15 13 024 0 90 58 | (0.0) (100.0) (100.0) (31.2) (76.3) (79.5) | - | - | - - - - | - | - - - - | - - - - | 217 106 913 0 1 358 656 |
| Moldova Monaco Montenegro North Macedonia Russia San Marino Serbia Serbia excluding Kosovo [†] Kosovo [†] | 2 455 81 202 65 234 0 1 240 583 657 | (70.9) (96.4) (93.1) (61.0) (91.3) (88.9) (93.6) | - | - - - - - | 0 3 15 41 679 0 118 73 45 | (0.0) (3.6) (6.9) (39.0) (8.7) (11.1) (6.4) | 0 3 15 13 024 0 90 58 | (0.0) (100.0) (100.0) (31.2) (76.3) (79.5) (71.1) | - - - - - | - | - - - - | - - - - | - - - - - | - | 217 106 913 0 1 358 656 702 |
| Moldova Monaco Montenegro North Macedonia Russia San Marino Serbia Serbia excluding Kosovof Kosovof Switzerland Tajikistan Turkey | 2 455 81 202 65 234 0 1 240 583 657 473 | (70.9) (96.4) (93.1) (61.0) (91.3) (88.9) (93.6) (91.7) | - - - - - | - - - - - - | 0 3 15 41 679 0 118 73 45 43 | (0.0) (3.6) (6.9) (39.0) (8.7) (11.1) (6.4) (8.3) | 0 3 15 13 024 0 90 58 32 | (0.0) (100.0) (100.0) (31.2) (76.3) (79.5) (71.1) (0.0) | - | - - - - - | - - - - - | | - - - - - | - - - - | 217 106 913 0 1358 656 702 516 |
| Moldova Monaco Montenegro North Macedonia Russia San Marino Serbia Serbia excluding Kosovof Kosovof Switzerland Tajikistan Turkey Turkmenistan | 2 455 81 202 65 234 0 1 240 583 657 473 5 102 10 948 1 981 | (70.9) (96.4) (93.1) (61.0) (91.3) (88.9) (93.6) (91.7) (85.4) (92.9) (75.2) | - | | 0 3 15 41 679 0 118 73 45 43 873 838 655 | (0.0) (3.6) (6.9) (39.0) (8.7) (11.1) (6.4) (8.3) (14.6) (7.1) (24.8) | 0 3 15 13 024 0 90 58 32 0 624 628 176 | (0.0) (100.0) (100.0) (31.2) (76.3) (79.5) (71.1) (0.0) (71.5) (74.9) (26.9) | | - - - - - | - - - - - | | - - - - - | | 217 106 913 0 1358 656 702 516 5 975 11 786 2 636 |
| Moidova Monaco Montenegro North Macedonia Russia San Marino Serbia Serbia excluding Kosovof Kosovof Switzerland Tajikistan Turkey Turkmenistan Ukraine | 2 455 81 202 65 234 0 1 240 583 657 473 5 102 10 948 1 981 21 323 | (70.9) (96.4) (93.1) (61.0) (91.3) (88.9) (93.6) (91.7) (85.4) (92.9) (75.2) (70.2) | - | - | 0 3 15 41 679 0 118 73 45 43 873 838 655 9 055 | (0.0) (3.6) (6.9) (39.0) (8.7) (11.1) (6.4) (8.3) (14.6) (7.1) (24.8) (29.8) | 0 3 15 13 024 0 90 58 32 0 624 628 176 5 189 | (0.0) (100.0) (100.0) (31.2) (76.3) (79.5) (71.1) (0.0) (71.5) (74.9) (26.9) (57.3) | - | - | - | - | - | - | 217 106 913 0 1358 656 702 516 5 975 11 786 2 636 30 378 |
| Moidova Monaco Montenegro North Macedonia Russia San Marino Serbia Serbia excluding Kosovo¹ Kosovo¹ Switzerland Tajikistan Turkey Turkmenistan Ukraine Uzbekistan | 2 455 81 202 65 234 0 1 240 583 657 473 5102 10 948 1 981 21 323 14 162 | (96.4) (93.1) (61.0) (91.3) (88.9) (93.6) (91.7) (85.4) (92.9) (75.2) (70.2) (76.6) | - | - | 0 3 15 41 679 0 118 73 45 43 873 838 655 9 055 4 334 | (0.0) (3.6) (6.9) (39.0) (8.7) (11.1) (6.4) (8.3) (14.6) (7.1) (24.8) (29.8) (23.4) | 0 3 15 13 024 0 90 58 32 0 624 628 176 5 189 2 251 | (0.0) (100.0) (100.0) (31.2) (76.3) (79.5) (71.1) (0.0) (71.5) (74.9) (26.9) (57.3) (51.9) | - | - | - | - | - | - | 217 106 913 0 1358 656 702 516 5 975 11 786 2 636 30 378 18 496 |
| Moidova Monaco Montenegro North Macedonia Russia San Marino Serbia Serbia excluding Kosovof Kosovof Switzerland Tajikistan Turkey Turkmenistan Ukraine | 2 455 81 202 65 234 0 1 240 583 657 473 5 102 10 948 1 981 21 323 | (70.9) (96.4) (93.1) (61.0) (91.3) (88.9) (93.6) (91.7) (85.4) (92.9) (75.2) (70.2) | - | - | 0 3 15 41 679 0 118 73 45 43 873 838 655 9 055 | (0.0) (3.6) (6.9) (39.0) (8.7) (11.1) (6.4) (8.3) (14.6) (7.1) (24.8) (29.8) | 0 3 15 13 024 0 90 58 32 0 624 628 176 5 189 | (0.0) (100.0) (100.0) (31.2) (76.3) (79.5) (71.1) (0.0) (71.5) (74.9) (26.9) (57.3) | - | - | - | - | - | - | 217 106 913 0 1358 656 702 516 5 975 11 786 2 636 30 378 |

^{*}European Region' comprises the 53 countries of the WHO European Region and Liechtenstein.

WHO European Region 18 tuberculosis high-priority countries presented in italics.

HPC - high-priority countries.

*For non-EU/EEA countries, cases with unknown previous tuberculosis history are included among new tuberculosis cases.

*For non-EU/EEA countries, cases with unknown previous tuberculosis history are included among new tuberculosis cases.

*Proportion of all tuberculosis cases.

*Proportion of all previously treated tuberculosis cases.

*Previous tuberculosis history is defined by previous diagnosis. Treatment completion is not analysed for these countries.

*This designation is without prejudice to positions on status, and is in line with UN Security Council Resolution 1244 and the International Court of Justice Opinion on the Kosovo Declaration of Independence.

Table 6. Tuberculosis cases by site of disease, EU/EEA, 2018

| | | | Pulm | onary | | | | | | | Total |
|----------------|---------|----------|-------------------|--------------------|----------|---------|---------|---------|---------|----------|--------|
| Country | Pulmon | ary only | Pulmon extrapu | ary and Imonary | Total pu | lmonary | Extrapu | lmonary | No site | reported | Total |
| | N | (%) | N | (%) | N | (%) | N | (%) | N | (%) | N |
| EU/EEA | | | | | | | | | | | |
| Austria | 317 | (65.8) | 47 | (9.8) | 364 | (75.5) | 118 | (24.5) | 0 | (0.0) | 482 |
| Belgium | 563 | (57.4) | 140 | (14.3) | 703 | (71.7) | 278 | (28.3) | 0 | (0.0) | 981 |
| Bulgaria | 1 006 | (74.1) | 57 | (4.2) | 1 063 | (78.3) | 294 | (21.6) | 1 | (0.1) | 1 358 |
| Croatia | 299 | (80.4) | 20 | (5.4) | 319 | (85.8) | 36 | (9.7) | 17 | (4.6) | 372 |
| Cyprus | 41 | (78.8) | 1 | (1.9) | 42 | (80.8) | 10 | (19.2) | 0 | (0.0) | 52 |
| Czech Republic | 372 | (83.8) | 25 | (5.6) | 397 | (89.4) | 47 | (10.6) | 0 | (0.0) | 444 |
| Denmark | 210 | (72.2) | 11 | (3.8) | 221 | (75.9) | 67 | (23.0) | 3 | (1.0) | 291 |
| Estonia | 123 | (83.7) | 15 | (10.2) | 138 | (93.9) | 9 | (6.1) | 0 | (0.0) | 147 |
| Finland | 155 | (67.4) | 0 | (0.0) | 155 | (67.4) | 75 | (32.6) | 0 | (0.0) | 230 |
| France | 2 757 | (54.1) | 826 | (16.2) | 3 583 | (70.4) | 1487 | (29.2) | 22 | (0.4) | 5 092 |
| Germany | 3 254 | (59.9) | 662 | (12.2) | 3 916 | (72.1) | 1 454 | (26.8) | 59 | (1.1) | 5 429 |
| Greece | 331 | (76.6) | 30 | (6.9) | 361 | (83.6) | 60 | (13.9) | 11 | (2.5) | 432 |
| Hungary | 610 | (95.3) | 11 | (1.7) | 621 | (97.0) | 19 | (3.0) | 0 | (0.0) | 640 |
| Iceland | 5 | (62.5) | 0 | (0.0) | 5 | (62.5) | 2 | (25.0) | 1 | (12.5) | 8 |
| Ireland | 192 | (61.1) | 23 | (7.3) | 215 | (68.5) | 86 | (27.4) | 13 | (4.1) | 314 |
| Italy | 2 672 | (68.3) | 72 | (1.8) | 2 744 | (70.1) | 1134 | (29.0) | 34 | (0.9) | 3 912 |
| Latvia | _ | - | - | - | - | - | - | - | - | - | - |
| Liechtenstein | 1 | (100.0) | 0 | (0.0) | 1 | (100.0) | 0 | (0.0) | 0 | (0.0) | 1 |
| Lithuania | 1 0 6 0 | (92.8) | 5 | (0.4) | 1 065 | (93.3) | 77 | (6.7) | 0 | (0.0) | 1 142 |
| Luxembourg | 31 | (73.8) | 1 | (2.4) | 32 | (76.2) | 10 | (23.8) | 0 | (0.0) | 42 |
| Malta | 30 | (54.5) | 9 | (16.4) | 39 | (70.9) | 16 | (29.1) | 0 | (0.0) | 55 |
| Netherlands | 371 | (46.0) | 93 | (11.5) | 464 | (57.6) | 340 | (42.2) | 2 | (0.2) | 806 |
| Norway | 94 | (45.0) | 32 | (15.3) | 126 | (60.3) | 83 | (39.7) | 0 | (0.0) | 209 |
| Poland | 5 221 | (95.2) | 23 | (0.4) | 5 244 | (95.6) | 243 | (4.4) | 0 | (0.0) | 5 487 |
| Portugal | 1 3 2 5 | (62.0) | 287 | (13.4) | 1 612 | (75.4) | 512 | (24.0) | 13 | (0.6) | 2 137 |
| Romania | 9 661 | (79.2) | 755 | (6.2) | 10 416 | (85.3) | 1789 | (14.7) | 0 | (0.0) | 12 205 |
| Slovakia | 188 | (66.9) | 56 | (19.9) | 244 | (86.8) | 37 | (13.2) | 0 | (0.0) | 281 |
| Slovenia | 74 | (74.7) | 10 | (10.1) | 84 | (84.8) | 15 | (15.2) | 0 | (0.0) | 99 |
| Spain | 3 042 | (65.4) | 327 | (7.0) | 3 369 | (72.5) | 1 279 | (27.5) | 0 | (0.0) | 4 648 |
| Sweden | 273 | (55.6) | 61 | (12.4) | 334 | (68.0) | 157 | (32.0) | 0 | (0.0) | 491 |
| United Kingdom | 2 128 | (41.9) | 820 | (16.2) | 2 948 | (58.1) | 2 123 | (41.8) | 4 | (0.1) | 5 075 |
| Total EU/EEA | 36 406 | (68.9) | 4 419 | (8.4) | 40 825 | (77.2) | 11 857 | (22.4) | 180 | (0.3) | 52 862 |

 $\hbox{WHO European Region five tuberculosis high-priority countries presented in italics.}$

Table 7. Tuberculosis cases by history of previous tuberculosis treatment, site of disease and diagnostic method according to the WHO definitions^a, European Region, 2018

| | | | | New⁵ a | nd relapse t | | is cases | | | | | | All |
|-----------------------------|--------------|------------------|---------------------|------------------|--------------|------------------|----------------|------------------|-----------|-----------------|----------|------------------|--------------|
| | | | | | Pulmo | | | | | | | ly treated | tuberculosis |
| Country/area | N | (%) ^c | N | (%)° | confi | | Clini diagr | osed | <u> </u> | lmonary | Cas | ses | cases |
| | | | | | N | (%) ^g | N | (%) ^g | N | (%)° | N | (%) ^c | N |
| EU/EEA | 180 | (0==) | | (== 4) | | (22.5) | | (10.5) | | (0.1.0) | | (2.5) | |
| Austria | 470 | (97.5) | 353 | (75.1) | 316 | (89.5) | 37 | (10.5) | 117 | (24.9) | 12 | (2.5) | 482 |
| Belgium ^h | 913 | (93.1) | 648 | (71.0) | 550 | (84.9) | 98 | (15.1) | 265 | (29.0) | 68 | (6.9) | 981 |
| Bulgaria | 1290 | (95.0) | 1 009 | (78.2) | 612 | (60.7) | 397 | (39.3) | 281 | (21.8) | 68 | (5.0) | 1 358 |
| Croatia | 364 | (97.8) | 328 | (90.1) (80.4) | 300 | (91.5) (85.4) | 28 | (8.5) (14.6) | 36 | (9.9) (19.6) | 8 | (2.2) | 372 52 |
| Cyprus Czech Republic | 51 435 | (98.1) (98.0) | 41 388 | (89.2) | 35 341 | (87.9) | 6 47 | (12.1) | 10 47 | (19.6) | 9 | (1.9) (2.0) | 444 |
| Denmark ^h | 270 | (92.8) | 209 | (77.4) | 166 | (79.4) | 47 | (20.6) | 61 | (22.6) | 21 | (7.2) | 291 |
| Estonia | 145 | (98.6) | 136 | (93.8) | 123 | (90.4) | 13 | (9.6) | 9 | (6.2) | 2 | (1.4) | 147 |
| Finland | 229 | (99.6) | 155 | (67.7) | 144 | (92.9) | 11 | (7.1) | 74 | (32.3) | 1 | (0.4) | 230 |
| France | 4779 | (93.9) | 3 367 | (70.5) | 2 426 | (72.1) | 941 | (27.9) | 1 412 | (29.5) | 313 | (6.1) | 5 092 |
| Germany | 5 265 | (97.0) | 3 836 | (72.9) | 3 341 | (87.1) | 495 | (12.9) | 1429 | (27.1) | 164 | (3.0) | 5 429 |
| Greece | 406 | (94.0) | 348 | (85.7) | 263 | (75.6) | 85 | (24.4) | 58 | (14.3) | 26 | (6.0) | 432 |
| Hungary | 602 | (94.1) | 583 | (96.8) | 346 | (59.3) | 237 | (40.7) | 19 | (3.2) | 38 | (5.9) | 640 |
| Iceland | 8 | (100.0) | 6 | (75.0) | 3 | (50.0) | 3 | (50.0) | 2 | (25.0) | 0 | (0.0) | 8 |
| Ireland ^h | 294 | (93.6) | 215 | (73.1) | 177 | (82.3) | 38 | (17.7) | 79 | (26.9) | 20 | (6.4) | 314 |
| Italy | 3 777 | (96.5) | 2 667 | (70.6) | 2 135 | (80.1) | 532 | (19.9) | 1 110 | (29.4) | 135 | (3.5) | 3 912 |
| Latvia | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Liechtenstein | 1 | (100.0) | 1 | (100.0) | 1 | (100.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 1 |
| Lithuania | 1 0 6 3 | (93.1) | 986 | (92.8) | 890 | (90.3) | 96 | (9.7) | 77 | (7.2) | 79 | (6.9) | 1 142 |
| Luxembourg | 42 | (100.0) | 32 | (76.2) | 29 | (90.6) | 3 | (9.4) | 10 | (23.8) | 0 | (0.0) | 42 |
| Malta | 55 | (100.0) | 39 | (70.9) | 29 | (74.4) | 10 | (25.6) | 16 | (29.1) | 0 | (0.0) | 55 |
| Netherlands | 791 | (98.1) | 454 | (57.4) | 388 | (85.5) | 66 | (14.5) | 337 | (42.6) | 15 | (1.9) | 806 |
| Norway ^h | 189 | (90.4) | 114 | (60.3) | 104 | (91.2) | 10 | (8.8) | 75 | (39.7) | 20 | (9.6) | 209 |
| Poland | 5 196 | (94.7) | 4 955 | (95.4) | 3,821 | (77.1) | 1134 | (22.9) | 241 | (4.6) | 291 | (5.3) | 5 487 |
| Portugal | 2 111 | (98.8) | 1604 | (76.0) | 1 452 | (90.5) | 152 | (9.5) | 507 | (24.0) | 26 | (1.2) | 2 137 |
| Romania | 11 586 | (94.9) | 9 805 | (84.6) | 8 157 | (83.2) | 1 648 | (16.8) | 1 781 | (15.4) | 619 | (5.1) | 12 205 |
| Slovakia | 273 | (97.2) | 236 | (86.4) | 160 | (67.8) | 76 | (32.2) | 37 | (13.6) | 8 | (2.8) | 281 |
| Slovenia | 98 | (99.0) | 83 | (84.7) | 79 | (95.2) | 4 | (4.8) | 15 | (15.3) | 1 | (1.0) | 99 |
| Spain | 4 500 | (96.8) | 3 254 | (72.3) | 2 762 | (84.9) | 492 | (15.1) | 1246 | (27.7) | 148 | (3.2) | 4 648 |
| Sweden | 477 | (97.1) | 324 | (67.9) | 289 | (89.2) | 35 | (10.8) | 153 | (32.1) | 14 | (2.9) | 491 |
| United Kingdom ^h | 4 775 | (94.1) | 2 750 | (57.6) | 2 150 | (78.2) | 600 | (21.8) | 2 025 | (42.4) | 300 | (5.9) | 5 075 |
| Subtotal EU/EEA | 50 455 | (95.4) | 38 926 | (77.1) | 31 589 | (81.2) | 7 337 | (18.8) | 11 529 | (22.9) | 2 407 | (4.6) | 52 862 |
| Non-EU/EEA | | (1.5.5.5) | | () | | (11 - 1) | | () | | () | | () | |
| Albania | 440 | (100.0) | 330 | (75.0) | 208 | (63.0) | 122 | (37.0) | 110 | (25.0) | 0 | (0.0) | 440 |
| Andorra | 2 | (100.0) | 2 | (100.0) | 2 | (100.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 2 |
| Armenia | 734 | (92.2) | 567 | (77.2) | 296 | (52.2) | 271 | (47.8) | 167 | (22.8) | 62 | (7.8) | 796 |
| Azerbaijan | 5 038 | (73.1) | 4 021 | (79.8) | 3 029 | (75.3) | 992 | (24.7) | 1 017 | (20.2) | 1 858 | (26.9) | 6 896 |
| Belarus | 2 359 | (92.8) | 2 143 | (90.8) | 1981 | (92.4) | 162 | (7.6) | 216 | (9.2) | 183 | (7.2) | 2 5 4 2 |
| Bosnia and Herzegovina | 666 2 316 | (99.6) (89.4) | 600 1 <i>863</i> | (90.1) (80.4) | 448 1 628 | (74.7) (87.4) | 152 235 | (25.3) (12.6) | 66 453 | (9.9) (19.6) | 3 274 | (0.4) | 669 2 590 |
| Georgia Israel | 292 | (100.0) | 225 | (77.1) | 160 | (71.1) | 65 | (28.9) | 67 | (22.9) | 0 | (10.6) | 292 |
| Kazakhstan | 12 832 | (96.0) | 11 695 | (91.1) | 10 307 | (88.1) | 1 388 | (11.9) | 1 137 | (8.9) | 529 | (4.0) | 13 361 |
| Kyrgyzstan | 6 338 | (83.6) | 4 978 | (78.5) | 3 050 | (61.3) | 1 928 | (38.7) | 1 360 | (21.5) | 1 247 | (16.4) | 7 585 |
| Moldova | 3 022 | (87.2) | | (90.5) | 1 839 | (67.2) | 896 | (32.8) | 287 | (9.5) | | (12.8) | 3 465 |
| Monaco | 0 | (0).2) | 2 735 | (/0.5) | - | (07.2) | - | (32.0) | - | ().5) | 443 | (12.0) | - |
| Montenegro | 84 | (100.0) | 74 | (88.1) | 64 | (86.5) | 10 | (13.5) | 10 | (11.9) | 0 | (0.0) | 84 |
| North Macedonia | 217 | (100.0) | 165 | (76.0) | 146 | (88.5) | 19 | (11.5) | 52 | (24.0) | 0 | (0.0) | 217 |
| Russia | 78 258 | (73.2) | 71 913 | (91.9) | 38 774 | (53.9) | 33 139 | (46.1) | 6 345 | (8.1) | 28 655 | (26.8) | 106 913 |
| San Marino | 0 | - | 0 | - | 0 | (-2-) | 0 | - | 0 | (317) | 0 | - | 0 |
| Serbia | 1 330 | (97.9) | 1 071 | (80.5) | 772 | (72.1) | 299 | (27.9) | 259 | (19.5) | 28 | (2.1) | 1358 |
| Serbia excluding Kosovoi | 677 | (97.8) | 605 | (89.4) | 543 | (89.8) | 62 | (10.2) | 72 | (10.6) | 15 | (2.2) | 692 |
| Kosovoi | 653 | (98.0) | 466 | (71.4) | 229 | (49.1) | 237 | (50.9) | 187 | (28.6) | 13 | (2.0) | 666 |
| Switzerland | 473 | (91.7) | 337 | (71.2) | 317 | (94.1) | 20 | (5.9) | 136 | (28.8) | 43 | (8.3) | 516 |
| Tajikistan | 5 726 | (95.8) | 4 153 | (72.5) | 2 870 | (69.1) | 1 283 | (30.9) | 1 573 | (27.5) | 249 | (4.2) | 5 975 |
| Turkey | 11 576 | (98.2) | 7 559 | (65.3) | 5 861 | (77.5) | 1 698 | (22.5) | 4 017 | (34.7) | 210 | (1.8) | 11 786 |
| Turkmenistan | 2 157 | (81.8) | 1 611 | (74.7) | 782 | (48.5) | 829 | (51.5) | 546 | (25.3) | 479 | (18.2) | 2 636 |
| Ukraine | 26 512 | (87.3) | 24 213 | (91.3) | 16 596 | (68.5) | 7 617 | (31.5) | 2 299 | (8.7) | 3 866 | (12.7) | 30 378 |
| Uzbekistan | 16 413 | (88.7) | 10 811 | (65.9) | 5 929 | (54.8) | 4 882 | (45.2) | 5 602 | (34.1) | 2 083 | (11.3) | 18 496 |
| Subtotal non-EU/EEA | 176 785 | (81.5) | 151 066 | (85.5) | 95 059 | (62.9) | 56 007 | (37.1) | 25 719 | (14.5) | 40 212 | (18.5) | 216 997 |
| Total European Region | 227 240 | (84.2) | 189 992 | (83.6) | 126,648 | (66.7) | 63 344 | (33.3) | 37 248 | (16.4) | 42,619 | (15.8) | 269 859 |
| Subtotal 18 HPCs | 187 365 | (82.1) | 160 198 | (85.5) | 102 724 | (64.1) | 57 474 | (35.9) | 27 167 | (14.5) | 40 906 | (17.9) | 228 271 |

^{*}European Region' comprises the 53 countries of the WHO European Region and Liechtenstein.

WHO European Region 18 tuberculosis high-priority countries are presented in italics.

HPC - high-priority countries.

World Health Organization. Definitions and reporting framework for tuberculosis - 2013 revision. WHO/HTM/TB/ 2013.2. Geneva, Switzerland: WHO, 2013.

Cases with unknown previous tuberculosis history are included among new tuberculosis cases.

Proportion of all tuberculosis cases.

For the EU/EEA countries, cases with no disease site reported are included among pulmonary tuberculosis cases.

Proportion of all new and relapse tuberculosis cases.

Confirmed by culture, smear and/or nucleic acid amplification test. Microscopy results from any specimen are included for EU/EEA countries.

Proportion of all new and relapse pulmonary tuberculosis cases.

Proportion of all new and relapse pulmonary tuberculosis cases.

Proportion of all new and relapse pulmonary tuberculosis cases.

Proportion of all new and relapse pulmonary tuberculosis cases.

Provious tuberculosis shistory is defined by previous diagnosis.

This designation is without prejudice to positions on status, and is in line with UN Security Council Resolution 1244 and the International Court of Justice Opinion on the Kosovo Declaration of Independence.

Table 8. Tuberculosis cases according to EU case definition, EU/EEA, 2018

| | | All la | boratory-c | onfirmed c | asesª | | | | | | | | |
|----------------|-----------|---|------------|-------------------------------|-------|------------------|---------|-----------------------|--------|------------------|--------|------------------|----------------------------------|
| Country | nucleic a | only the sitive and acid test- criterion | culture- | only the positive erion | | ng both teria | Confirm | ed cases ^b | Probab | le cases | Possib | e cases | All tuberculosis cases (N) |
| | N | (%)° | N | (%)° | N | (%)° | N | (%) ^d | N | (%) ^d | N | (%) ^d | |
| Austria | 15 | (4.1) | 248 | (67.9) | 102 | (27.9) | 365 | (75.7) | 72 | (14.9) | 45 | (9.3) | 482 |
| Belgium | 14 | (1.9) | 456 | (62.5) | 260 | (35.6) | 730 | (74.4) | 121 | (12.3) | 130 | (13.3) | 981 |
| Bulgaria | 0 | (0.0) | 617 | (99.8) | 1 | (0.2) | 618 | (45.5) | 122 | (9.0) | 618 | (45.5) | 1 358 |
| Croatia | 0 | (0.0) | 325 | (100.0) | 0 | (0.0) | 325 | (87.4) | 5 | (1.3) | 42 | (11.3) | 372 |
| Cyprus | 0 | (0.0) | 32 | (80.0) | 8 | (20.0) | 40 | (76.9) | 0 | (0.0) | 12 | (23.1) | 52 |
| Czech Republic | 2 | (0.6) | 250 | (69.3) | 109 | (30.2) | 361 | (81.3) | 51 | (11.5) | 32 | (7.2) | 444 |
| Denmark | 2 | (0.9) | 107 | (48.4) | 112 | (50.7) | 221 | (75.9) | 9 | (3.1) | 61 | (21.0) | 291 |
| Estonia | 2 | (1.6) | 58 | (46.4) | 65 | (52.0) | 125 | (85.0) | 13 | (8.8) | 9 | (6.1) | 147 |
| Finland | 0 | (0.0) | 166 | (85.6) | 28 | (14.4) | 194 | (84.3) | 21 | (9.1) | 15 | (6.5) | 230 |
| France | 0 | (0.0) | 2 234 | (100.0) | 0 | (0.0) | 2 234 | (43.9) | 938 | (18.4) | 1920 | (37.7) | 5 092 |
| Germany | 142 | (3.4) | 2 285 | (55.4) | 1700 | (41.2) | 4 127 | (76.0) | 510 | (9.4) | 792 | (14.6) | 5 429 |
| Greece | 8 | (3.6) | 137 | (60.9) | 80 | (35.6) | 225 | (52.1) | 78 | (18.1) | 129 | (29.9) | 432 |
| Hungary | 0 | (0.0) | 367 | (100.0) | 0 | (0.0) | 367 | (57.3) | 12 | (1.9) | 261 | (40.8) | 640 |
| Iceland | 0 | (0.0) | 0 | (0.0) | 2 | (100.0) | 2 | (25.0) | 2 | (25.0) | 4 | (50.0) | 8 |
| Ireland | 0 | (0.0) | 185 | (81.1) | 43 | (18.9) | 228 | (72.6) | 37 | (11.8) | 49 | (15.6) | 314 |
| Italy | 0 | (0.0) | 2728 | (100.0) | 0 | (0.0) | 2 7 2 8 | (69.7) | 301 | (7.7) | 883 | (22.6) | 3 912 |
| Latvia | _ | - | - | - | - | - | - | - | - | - | - | - | - |
| Liechtenstein | 0 | (0.0) | 1 | (100.0) | 0 | (0.0) | 1 | (100.0) | 0 | (0.0) | 0 | (0.0) | 1 |
| Lithuania | 0 | (0.0) | 992 | (100.0) | 0 | (0.0) | 992 | (86.9) | 9 | (0.8) | 141 | (12.3) | 1 142 |
| Luxembourg | 0 | (0.0) | 35 | (100.0) | 0 | (0.0) | 35 | (83.3) | 0 | (0.0) | 7 | (16.7) | 42 |
| Malta | 0 | (0.0) | 34 | (100.0) | 0 | (0.0) | 34 | (61.8) | 0 | (0.0) | 21 | (38.2) | 55 |
| Netherlands | 4 | (0.7) | 373 | (66.6) | 183 | (32.7) | 560 | (69.5) | 73 | (9.1) | 173 | (21.5) | 806 |
| Norway | 3 | (1.8) | 120 | (70.6) | 47 | (27.6) | 170 | (81.3) | 16 | (7.7) | 23 | (11.0) | 209 |
| Poland | 0 | (0.0) | 3 388 | (83.1) | 687 | (16.9) | 4 075 | (74.3) | 129 | (2.4) | 1283 | (23.4) | 5 487 |
| Portugal | 101 | (6.6) | 1 018 | (66.7) | 408 | (26.7) | 1,527 | (71.5) | 326 | (15.3) | 284 | (13.3) | 2 137 |
| Romania | 40 | (0.5) | 6 775 | (77.7) | 1 905 | (21.8) | 8 720 | (71.4) | 916 | (7.5) | 2 569 | (21.0) | 12 205 |
| Slovakia | 2 | (1.4) | 128 | (87.7) | 16 | (11.0) | 146 | (52.0) | 50 | (17.8) | 85 | (30.2) | 281 |
| Slovenia | 0 | (0.0) | 52 | (56.5) | 40 | (43.5) | 92 | (92.9) | 4 | (4.0) | 3 | (3.0) | 99 |
| Spain | 48 | (1.5) | 2 611 | (80.3) | 591 | (18.2) | 3 250 | (69.9) | 556 | (12.0) | 842 | (18.1) | 4 648 |
| Sweden | 0 | (0.0) | 302 | (74.0) | 106 | (26.0) | 408 | (83.1) | 26 | (5.3) | 57 | (11.6) | 491 |
| United Kingdom | 9 | (0.3) | 3 012 | (95.7) | 126 | (4.0) | 3 147 | (62.0) | 405 | (8.0) | 1523 | (30.0) | 5 075 |
| Total EU/EEA | 392 | (1.1) | 29 036 | (80.6) | 6 619 | (18.4) | 36 047 | (68.2) | 4 802 | (9.1) | 12 013 | (22.7) | 52 862 |

WHO European Region 18 tuberculosis high-priority countries are presented in italics.
^a Laboratory-confirmed tuberculosis cases according to the EU case definition.
^b Culture-positive OR microscopy-positive and nucleic acid amplification test-positive.
^c Proportion of all laboratory-confirmed tuberculosis cases.
^d Proportion of all tuberculosis cases.

Table 9. New tuberculosis cases and relapses, by age group and male-to-female ratio, European Region, 2018°

| | | (| 0-4 | | | | 5-14 | | | 15 | 5-24 | | | 25- | -44 | | |
|--------------------------------------|-------|-------|----------|--------------|-------|--------|----------|--------------|--------|--------|----------|--------------|--------|---------|----------|--------------|--|
| Country/area | N | (%) | Rate per | M/F ratio | N | (%) | Rate per | M/F ratio | N | (%) | Rate per | M/F ratio | N | (%) | Rate per | M/F ratio | |
| EU/EEA | | | | | | | | | | | | | | | | | |
| Austria | 12 | (2.6) | 2.8 | 2.0 | 16 | (3.4) | 1.9 | 1.7 | 73 | (15.5) | 7.4 | 1.8 | 153 | (32.6) | 6.5 | 1.1 | |
| Belgium ^b | 27 | (3.0) | 4.3 | 0.9 | 33 | (3.6) | 2.5 | 1.8 | 160 | (17.5) | 12.3 | 2.1 | 362 | (39.6) | 12.3 | 1.8 | |
| Bulgaria | 20 | (1.6) | 6.1 | 1.0 | 47 | (3.6) | 6.9 | 1.0 | 92 | (7.1) | 14.4 | 1.2 | 356 | (27.6) | 18.0 | 1.9 | |
| Croatia | 1 | (0.3) | 0.5 | N/M | 7 | (1.9) | 1.7 | 0.8 | 21 | (5.8) | 4.6 | 1.3 | 62 | (17.0) | 5.8 | 1.6 | |
| Cyprus | 1 | (2.0) | 2.2 | N/F | 0 | (0.0) | 0.0 | - | 4 | (7.8) | 3.5 | 3.0 | 34 | (66.7) | 12.9 | 0.6 | |
| Czech Republic | 5 | (1.1) | 0.9 | 0.7 | 0 | (0.0) | 0.0 | - | 24 | (5.5) | 2.4 | 2.0 | 143 | (32.9) | 4.5 | 2.5 | |
| Denmark ^b | 5 | (1.9) | 1.7 | 1.5 | 5 | (1.9) | 0.8 | 0.7 | 23 | (8.5) | 3.1 | 3.6 | 109 | (40.4) | 7.6 | 1.2 | |
| Estonia | 1 | (0.7) | 1.4 | N/F | 1 | (0.7) | 0.7 | N/M | 4 | (2.8) | 3.2 | 3.0 | 51 | (35.2) | 13.7 | 2.4 | |
| Finland | 1 | (0.4) | 0.4 | N/F | 1 | (0.4) | 0.2 | N/F | 31 | (13.5) | 5.0 | 1.8 | 47 | (20.5) | 3.4 | 1.8 | |
| France | 118 | (2.5) | 3.1 | 1.0 | 116 | (2.4) | 1.4 | 1.3 | 865 | (18.1) | 11.0 | 2.6 | 1758 | (36.8) | 10.7 | 2.0 | |
| Germany | 113 | (2.1) | 2.9 | 1.0 | 101 | (1.9) | 1.4 | 1.1 | 1300 | (24.7) | 15.0 | 2.7 | 1859 | (35.3) | 9.1 | 1.9 | |
| Greece | 0 | (0.0) | 0.0 | - | 5 | (1.2) | 0.5 | 1.5 | 69 | (17.0) | 6.3 | 7.6 | 122 | (30.0) | 4.3 | 3.5 | |
| Hungary | 2 | (0.3) | 0.4 | 1.0 | 1 | (0.2) | 0.1 | N/F | 26 | (4.3) | 2.4 | 1.4 | 142 | (23.6) | 5.1 | 1.5 | |
| Iceland | 0 | (0.0) | 0.0 | - | 0 | (0.0) | 0.0 | - | 0 | (0.0) | 0.0 | - | 3 | (37.5) | 3.0 | 2.0 | |
| Ireland ^b | 4 | (1.4) | 1.3 | 1.0 | 3 | (1.0) | 0.4 | 0.5 | 30 | (10.2) | 5.0 | 2.0 | 117 | (39.8) | 8.4 | 1.0 | |
| Italy | 82 | (2.2) | 3.4 | 0.8 | 80 | (2.1) | 1.4 | 1.1 | 713 | (18.9) | 12.1 | 3.7 | 1 415 | (37.5) | 9.4 | 1.9 | |
| Latvia | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Liechtenstein | 0 | (0.0) | 0.0 | - | 0 | (0.0) | 0.0 | - | 0 | (0.0) | 0.0 | - | 1 | (100.0) | 10.2 | N/M | |
| Lithuania | 1 | (0.1) | 0.7 | N/F | 18 | (1.7) | 6.6 | 2.6 | 64 | (6.0) | 20.7 | 1.5 | 351 | (33.0) | 49.1 | 2.6 | |
| Luxembourg | 0 | (0.0) | 0.0 | - | 0 | (0.0) | 0.0 | - | 5 | (11.9) | 7.0 | N/F | 23 | (54.8) | 12.5 | 3.6 | |
| Malta | 0 | (0.0) | 0.0 | - | 1 | (1.8) | 2.3 | N/F | 22 | (40.0) | 40.9 | 3.4 | 26 | (47.3) | 17.5 | 4.2 | |
| Netherlands | 7 | (0.9) | 0.8 | 0.4 | 13 | (1.6) | 0.7 | 1.6 | 164 | (20.7) | 7.7 | 2.2 | 323 | (40.8) | 7.6 | 1.4 | |
| Norway ^b | 2 | (1.1) | 0.7 | 1.0 | 5 | (2.6) | 0.8 | 0.7 | 35 | (18.5) | 5.3 | 1.3 | 100 | (52.9) | 7.0 | 1.0 | |
| Poland | 20 | (0.4) | 1.1 | 0.7 | 32 | (0.6) | 0.8 | 0.7 | 194 | (3.7) | 4.8 | 1.2 | 1266 | (24.4) | 10.9 | 2.4 | |
| Portugal | 33 | (1.6) | 7.8 | 1.1 | 27 | (1.3) | 2.7 | 1.3 | 161 | (7.6) | 14.7 | 1.1 | 649 | (30.7) | 24.4 | 1.6 | |
| Romania | 187 | (1.6) | 18.9 | 1.0 | 353 | (3.0) | 17.1 | 0.9 | 1 075 | (9.3) | 51.7 | 1.3 | 3 777 | (32.6) | 68.6 | 2.1 | |
| Slovakia | 23 | (8.4) | 8.0 | 1.6 | 17 | (6.2) | 3.0 | 1.4 | 12 | (4.4) | 2.0 | 1.4 | 57 | (20.9) | 3.3 | 1.3 | |
| Slovenia | 1 | (1.0) | 1.0 | N/F | 0 | (0.0) | 0.0 | - | 5 | (5.1) | 2.6 | 4.0 | 23 | (23.5) | 4.1 | 2.3 | |
| Spain | 148 | (3.3) | 7.0 | 1.2 | 149 | (3.3) | 3.1 | 1.1 | 439 | (9.8) | 9.7 | 1.8 | 1466 | (32.6) | 11.4 | 1.5 | |
| Sweden | 7 | (1.5) | 1.2 | 2.5 | 24 | (5.0) | 2.0 | 2.0 | 96 | (20.1) | 8.3 | 1.5 | 208 | (43.6) | 7.8 | 1.4 | |
| United Kingdom ^b | 75 | (1.6) | 1.9 | 1.5 | 84 | (1.8) | 1.1 | 0.9 | 590 | (12.4) | 7.5 | 1.3 | 2 006 | (42.0) | 11.6 | 1.5 | |
| Subtotal EU/EEA Non-EU/EEA | 896 | (1.8) | 3.5 | 1.1 | 1 139 | (2.3) | 2.1 | 1.0 | 6 297 | (12.5) | 11.2 | 2.0 | 17 009 | (33.7) | 12.5 | 1.9 | |
| Albania | 1 | (0.2) | 0.6 | N/F | 3 | (0.7) | 0.9 | N/F | 81 | (18.4) | 17.7 | 2.9 | 120 | (27.3) | 15.6 | 3.3 | |
| Andorra | 0 | (0.0) | 0.0 | - | 0 | (0.0) | 0.9 | - | 0 | (0.0) | 0.0 | - | 2 | (100.0) | 9.9 | N/F | |
| Armenia | 15 | (2.0) | 7.1 | 0.7 | 22 | (3.0) | 5.5 | 1.4 | 89 | (12.1) | 24.3 | 7.9 | 232 | (31.6) | 25.4 | 2.6 | |
| Azerbaijan | 44 | (0.9) | 5.0 | 0.3 | 156 | (3.1) | 10.7 | 1.3 | 938 | (18.6) | 65.0 | 2.3 | 1365 | (27.1) | 42.2 | 1.8 | |
| Belarus | 5 | (0.2) | 0.9 | 0.1 | 7 | (0.3) | 0.7 | 0.8 | 71 | (3.0) | 7.7 | 1.2 | 942 | (39.9) | 33.0 | 2.8 | |
| Bosnia and Herzegovina | 1 | (0.2) | 0.7 | 0.0 | 4 | (0.6) | 1.1 | 3.0 | 76 | (11.4) | 18.9 | 1.6 | 125 | (18.8) | 13.9 | 1.8 | |
| Georgia | 23 | (1.0) | 8.2 | 0.4 | 54 | (2.3) | 10.5 | 1.3 | 293 | (12.7) | 62.3 | 1.1 | 932 | (40.2) | 84.0 | 1.9 | |
| Israel | 9 | (3.1) | 1.1 | 3.5 | 7 | (2.4) | 0.5 | 0.8 | 21 | (7.2) | 1.7 | 2.5 | 126 | (43.2) | 5.7 | 2.0 | |
| Kazakhstan | 92 | (0.7) | 4.7 | 1.3 | 270 | (2.1) | 8.3 | 0.6 | 1 705 | (13.3) | 74.4 | 1.0 | 5 565 | (43.4) | 99.3 | 1.6 | |
| Kyrgyzstan | 59 | (0.9) | 7.5 | 1.3 | 251 | (4.0) | 20.1 | 0.9 | 1362 | (21.5) | 131.6 | 1.3 | 2 216 | (35.0) | 118.7 | 1.4 | |
| Moldova | 35 | (1.2) | 16.7 | 1.3 | 60 | (2.0) | 13.9 | 0.8 | 199 | (6.6) | 41.1 | 2.1 | 1 330 | (44.0) | 94.9 | 2.9 | |
| Monaco | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Montenegro | 2 | (2.4) | 5.5 | 1.0 | 0 | (0.0) | 0.0 | - | 11 | (13.1) | 13.4 | 1.8 | 28 | (33.3) | 16.0 | 1.2 | |
| North Macedonia | 4 | (1.8) | 3.5 | 1.0 | 8 | (3.7) | 3.5 | 1.0 | 37 | (17.1) | 14.0 | 1.6 | 61 | (28.1) | 9.6 | 2.2 | |
| Russia | 883 | (1.1) | 9.3 | 0.9 | 1 286 | (1.6) | 7.7 | 0.9 | 4 546 | (5.8) | 32.7 | 1.3 | 42 740 | (54.6) | 94.7 | 2.4 | |
| San Marino | 0 | (0.0) | 0.0 | 0.0 | 0 | (0.0) | 0.0 | - | 0 | (0.0) | 0.0 | - | 0 | (0.0) | 0.0 | - | |
| Serbia | 10 | (0.8) | 2.4 | 0.7 | 19 | (1.4) | 2.0 | 0.6 | 159 | (12.0) | 15.0 | 1.3 | 320 | (24.1) | 13.1 | 1.0 | |
| Serbia excluding Kosovo ^c | 1 | (0.2) | 0.4 | N/M | 5 | (0.8) | 0.8 | 0.3 | 57 | (8.9) | 7.7 | 1.3 | 131 | (20.4) | 6.8 | 1.1 | |
| Kosovo | 9 | (1.3) | 6.1 | 0.8 | 14 | (2.0) | 4.8 | 0.8 | 102 | (14.8) | 31.4 | 1.4 | 189 | (27.4) | 36.6 | 1.0 | |
| Switzerland | 13 | (2.7) | 2.9 | 0.9 | 13 | (2.7) | 1.6 | 1.6 | 85 | (18.0) | 9.2 | 2.1 | 179 | (37.8) | 7.7 | 1.6 | |
| Tajikistan | 93 | (1.6) | 7.0 | 1.3 | 253 | (4.4) | 12.5 | 1.0 | 1 436 | (25.1) | 86.8 | 1.4 | 2 144 | (37.4) | 84.3 | 1.4 | |
| Turkey | 213 | (1.8) | 3.2 | 1.2 | 386 | (3.3) | 2.8 | 1.2 | 1 791 | (15.5) | 13.3 | 1.0 | 3 410 | (29.5) | 13.7 | 1.3 | |
| Turkmenistan | 0 | (0.0) | 0.0 | - | 0.0 | (0.0) | 0.0 | - | 339 | (15.7) | 35.2 | 1.1 | 920 | (42.7) | 50.6 | 1.5 | |
| Ukraine | 219 | (0.8) | 9.7 | 0.9 | 361 | (1.4) | 7.6 | 1.0 | 1 473 | (5.6) | 34.2 | 1.2 | 13 313 | (50.2) | 97.6 | 2.4 | |
| Uzbekistan | 367 | (2.2) | 10.8 | 1.2 | 1 662 | (10.1) | 28.1 | 1.4 | 1 824 | (11.1) | 32.9 | 1.2 | 5 443 | (33.2) | 52.3 | 1.2 | |
| Subtotal non-EU/EEA | 2 088 | (1.2) | 6.7 | 1.1 | 4 822 | (2.7) | 8.5 | 1.1 | 16 536 | (9.4) | 32.3 | 1.3 | 81 513 | (46.1) | 65.3 | 2.1 | |
| Total European Region | 2 984 | (1.3) | 5.2 | 1.1 | 5 961 | (2.6) | 5.4 | 1.1 | 22 833 | (10.0) | 21.3 | 1.5 | 98 522 | (43.4) | 37.8 | 2.0 | |
| Subtotal 18 HPCs | 2 257 | (1.2) | 7.4 | 1.1 | 5 187 | (2.8) | 9.3 | 1.1 | 17 301 | (9.2) | 34.5 | 1.3 | 85 087 | (45.4) | 68.4 | 2.1 | |

^{*}European Region' comprises the 53 countries of the WHO European Region and Liechtenstein.

WHO European Region 18 tuberculosis high-priority countries presented in italics.

M - male.

F - female.

HPC - high-priority countries.

N/F - no female in the subgroup.

N/M - no male in the subgroup.

*Cases with unknown previous tuberculosis history are included among new tuberculosis cases.

* Previous tuberculosis history is defined by previous diagnosis.

* This designation is without prejudice to positions on status, and is in line with UN Security Council Resolution 1244 and the International Court of Justice Opinion on the Kosovo Declaration of Independence.

| | 4 | 5-64 | | | > | 64 | | | Unknow | n | Tota | | |
|---|--|--|---|---|---|---|---|---|--|---|--|--|--|
| N | (%) | Rate per | M/F ratio | N | (%) | Rate per | M/F ratio | N | (%) | Rate per 100 000 | N | M/F ratio | Country/area |
| | | | | | | | | | | | | | EU/EEA |
| 125 | (26.6) | 4.9 | 2.0 | 91 | (19.4) | 5.5 | 1.5 | 0 | (0.0) | - | | | Austria |
| 205 | (22.5) | 6.7 | 2.5 | 126 | (13.8) | 5.9 | 1.9 | ۵ | (0.0) | - | 470 | 1.5 | Belgium ^b |
| 510 | (39.5) | 26.1 | 2.8 | 265 | (20.5) | 17.9 | 1.6 | 0 | (0.0) | - | 913 | 2.0 | Bulgaria |
| 138 | (37.9) | 11.9 | 2.9 | 135 | (37.1) | 16.4 | 1.1 | 0 | (0.0) | - | 1290 | 2.0 | Croatia |
| 9 | (17.6) | 4.3 | 3.5 | 3 | (5.9) | 2.2 | 2.0 | 0 | (0.0) | - | 364 | 1.7 | Cyprus |
| 164 | (37.7) | 5.9 | 4.0 | 99 | (22.8) | 4.9 | 1.1 | 0 | (0.0) | - | 51 | 1.0 | Czech Republic |
| 95 | (35.2) | 6.2 | 2.1 | 33 | (12.2) | 3.0 | 1.4 | 0 | (0.0) | - | 435 | 2.3 | Denmark ^b |
| 57 | (39.3) | 16.4 | 3.8 | 31 | (21.4) | 12.0 | 1.4 | 0 | (0.0) | - | 270 | 1.6 | Estonia |
| 37 | (16.2) | 2.6 | 4.3 | 112 | (48.9) | 9.5 | 1.7 | 0 | (0.0) | - | 145 | 2.5 | Finland |
| 1029 | (21.5) | 5.9 | 2.2 | 891 | (18.6) | 6.8 | 1.6 | 2 | (0.0) | 1.0 | 229 | 2.0 | France |
| 1 0 2 6 | (19.5) | 4.2 | 2.2 | 864 | (16.4) | 4.9 | 1.4 | 2 | (0.0) | N/F | 4 779 | 2.0 | Germany |
| 95 | (23.4) | 3.2 | 3.0 | 112 | (27.6) | 4.8 | 1.9 | 3 | (0.7) | N/F | 5 265 | 2.0 | Greece |
| 262 | (43.5) | 9.9 | 2.6 | 169 | (28.1) | 9.1 | 1.3 | 0 | (0.0) | - | 406 | 3.1 | Hungary |
| 1 | (12.5) | 1.2 | N/F | 4 | (50.0) | 8.2 | 0.3 | 0 | (0.0) | - | 602 | 1.8 | Iceland |
| 78 | (26.5) | 6.7 | 2.1 | 62 | (21.1) | 9.3 | 1.7 | 0 | (0.0) | - | 8 | 1.0 | Ireland ^b |
| 824 | (21.8) | 4.6 | 2.1 | 654 | (17.3) | 4.8 | 1.4 | 9 | (0.2) | 1.3 | 294 | 1.5 | Italy |
| - | - (0.0) | - | - | - | - (0.0) | - | - | - | - (0.0) | - | 3 777 | 2.0 | Latvia |
| 0 | (0.0) | 0.0 | - | 0 | (0.0) | 0.0 | - | 0 | (0.0) | - | - | - | Liechtenstein |
| 462 | (43.5) | 57.0 | 3.9 | 167 | (15.7) | 30.3 | 1.6 | 0 | (0.0) | - | 1 | N/M | Lithuania |
| 8 | (19.0) | 4.9 | 7.0 | 6 | (14.3) | 7.0 | 1.0 | 0 | (0.0) | - | 1063 | 2.7 | Luxembourg |
| 4 | (7.3) | 3.4 | 1.0 | 1 | (1.8) | 1.1 | N/M | 1 | (1.8) | N/F | 42 | 3.7 | Malta |
| 170 | (21.5) | 3.5 | 2.1 | 114 | (14.4) | 3.5 | 1.4 | 0 | (0.0) | - | 55 | 3.2 | Netherlands |
| 27 | (14.3) | 2.0 | 0.6 | 20 | (10.6) | 2.2 | 1.5 | 0 | (0.0) | - | 791 | 1.6 | Norway ^b |
| 2 328 | (44.8) | 23.3 | 3.8 | 1,356 | (26.1) | 20.9 | 1.4 | 0 | (0.0) | - | 189 | 1.0 | Poland |
| 721 | (34.2) | 24.8 | 3.0 | 520 | (24.6) | 23.5 | 1.9 | 0 | (0.0) | - | 5 196 | 2.4 | Portugal |
| 4 370 | (37.7) | 81.8 | 4.3 | 1 824 | (15.7) | 51.4 | 1.5 | 0 | (0.0) | - | 2,111 | 2.0 | Romania |
| 85 | (31.1) | 5.9 | 2.7 | 79 | (28.9) | 9.4 | 0.7 | 0 | (0.0) | - | 11 586 | 2.3 | Slovakia |
| 29 | (29.6) | 4.9 | 6.3 | 40 | (40.8) | 10.0 | 0.9 | 0 | (0.0) | - | 273 | 1.4 | Slovenia |
| 1 271 | (28.2) | 9.6 | 1.9 | 995 | (22.1) | 11.1 | 1.8 | 32 | (0.7) | 1.5 | 98 | 2.0 | Spain |
| 84 | (17.6) | 3.4 | 1.1 | 58 | (12.2) | 2.9 | 0.9 | 0 | (0.0) | - | 4 500 | 1.7 | Sweden |
| 1265 | (26.5) | 7.4 | 1.5 | 755 | (15.8) | 6.2 | 1.3 | 0 | (0.0) | - 47 | 477 | 1.3 | United Kingdom ^b |
| 15 479 | (30.7) | 10.9 | 2.8 | 9 586 | (19.0) | 9.4 | 1.5 | 49 | (0.1) | 1.7 | 50 455 | 2.0 | Subtotal EU/EEA Non-EU/EEA |
| 120 | (27.3) | 16.0 | 2.5 | 115 | (26.1) | 20.0 | 2.5 | 0 | (0.0) | - | 6.60 | 2.8 | Albania |
| 120 | (0.0) | 16.0 | 2.5 | 115 0 | (26.1) | 29.0 | 2.5 | 0 | (0.0) | - | 440 | N/F | Andorra |
| 291 | (39.6) | 39.9 | | 85 | (11.6) | | 2.4 | 0 | (0.0) | - | 734 | | Armenia |
| | | | 4.3 | | | 25.6 | | U | | - | 5 038 | 3.4 | Armenia |
| 1 002 | (10 0) | | | | | | 1 E | 1 276 | | | | | |
| 1 0 0 2 | (19.9) | 43.0 | 2.3 | 257 | (5.1) | 41.7 | 1.5 | 1 276 | (25.3) | | | 2.0 | , |
| 987 | (41.8) | 36.9 | 4.6 | 347 | (14.7) | 24.7 | 1.1 | 0 | (0.0) | - | 2 359 | 2.8 | Belarus |
| 987 211 | (41.8) (31.7) | 36.9 21.4 | 4.6 2.5 | 347 249 | (14.7) (37.4) | 24.7 45.5 | 1.1 1.0 | 0 | (0.0) (0.0) | - | 2 359 666 | 2.8 1.6 | Belarus Bosnia and Herzegovina |
| 987 211 754 | (41.8) (31.7) (32.6) | 36.9 21.4 72.8 | 4.6 2.5 4.3 | 347 249 260 | (14.7) (37.4) (11.2) | 24.7 45.5 43.7 | 1.1 1.0 1.7 | 0 0 0 | (0.0) (0.0) (0.0) | - - - | 2 359 666 2 316 | 2.8 1.6 2.2 | Belarus Bosnia and Herzegovina Georgia |
| 987 211 754 49 | (41.8) (31.7) (32.6) (16.8) | 36.9 21.4 72.8 3.1 | 4.6 2.5 4.3 2.8 | 347 249 260 80 | (14.7) (37.4) (11.2) (27.4) | 24.7 45.5 43.7 8.0 | 1.1 1.0 1.7 1.6 | 0 0 0 | (0.0) (0.0) (0.0) (0.0) | - - - | 2 359 666 2 316 292 | 2.8 1.6 2.2 2.0 | Belarus Bosnia and Herzegovina Georgia Israel |
| 987 211 754 49 3 826 | (41.8) (31.7) (32.6) (16.8) (29.8) | 36.9 21.4 72.8 3.1 99.2 | 4.6 2.5 4.3 2.8 2.4 | 347 249 260 80 1 374 | (14.7) (37.4) (11.2) (27.4) (10.7) | 24.7 45.5 43.7 8.0 101.5 | 1.1 1.0 1.7 1.6 0.9 | 0 0 0 0 | (0.0) (0.0) (0.0) (0.0) (0.0) | - - - - | 2 359 666 2 316 292 12 832 | 2.8 1.6 2.2 2.0 1.6 | Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan |
| 987 211 754 49 3 826 1 699 | (41.8) (31.7) (32.6) (16.8) (29.8) (26.8) | 36.9 21.4 72.8 3.1 99.2 157.4 | 4.6 2.5 4.3 2.8 2.4 1.8 | 347 249 260 80 1 374 751 | (14.7) (37.4) (11.2) (27.4) (10.7) (11.8) | 24.7 45.5 43.7 8.0 101.5 265.0 | 1.1 1.0 1.7 1.6 0.9 1.2 | 0 0 0 0 0 | (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) | - - - - | 2 359 666 2 316 292 12 832 6 338 | 2.8 1.6 2.2 2.0 1.6 1.4 | Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan |
| 987 211 754 49 3 826 1 699 1 173 | (41.8) (31.7) (32.6) (16.8) (29.8) (26.8) (38.8) | 36.9 21.4 72.8 3.1 99.2 157.4 110.8 | 4.6 2.5 4.3 2.8 2.4 1.8 3.6 | 347 249 260 80 1 374 751 225 | (14.7) (37.4) (11.2) (27.4) (10.7) (11.8) (7.4) | 24.7 45.5 43.7 8.0 101.5 265.0 48.4 | 1.1 1.0 1.7 1.6 0.9 1.2 1.6 | 0 0 0 0 0 | (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) | - - - - | 2 359 666 2 316 292 12 832 6 338 3 022 | 2.8 1.6 2.2 2.0 1.6 1.4 2.8 | Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Moldova |
| 987 211 754 49 3 826 1 699 1 173 | (41.8) (31.7) (32.6) (16.8) (29.8) (26.8) (38.8) | 36.9 21.4 72.8 3.1 99.2 157.4 110.8 | 4.6 2.5 4.3 2.8 2.4 1.8 3.6 | 347 249 260 80 1374 751 225 | (14.7) (37.4) (11.2) (27.4) (10.7) (11.8) (7.4) | 24.7 45.5 43.7 8.0 101.5 265.0 48.4 | 1.1 1.0 1.7 1.6 0.9 1.2 1.6 | 0 0 0 0 0 0 | (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) | - - - - - - | 2 359 666 2 316 292 12 832 6 338 3 022 | 2.8 1.6 2.2 2.0 1.6 1.4 2.8 | Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Moldova Monaco |
| 987 211 754 49 3 826 1 699 1 173 - | (41.8) (31.7) (32.6) (16.8) (29.8) (26.8) (38.8) - (33.3) | 36.9 21.4 72.8 3.1 99.2 157.4 110.8 | 4.6 2.5 4.3 2.8 2.4 1.8 3.6 - 2.5 | 347 249 260 80 1 374 751 225 - 15 | (14.7) (37.4) (11.2) (27.4) (10.7) (11.8) (7.4) – (17.9) | 24.7 45.5 43.7 8.0 101.5 265.0 48.4 – | 1.1 1.0 1.7 1.6 0.9 1.2 1.6 - 4.0 | 0 0 0 0 0 0 0 | (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) - (0.0) | - - - - - - | 2 359 666 2 316 292 12 832 6 338 3 022 - 84 | 2.8 1.6 2.2 2.0 1.6 1.4 2.8 - 1.9 | Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Moldova Monaco Montenegro |
| 987 211 754 49 3 826 1 699 1 173 - 28 69 | (41.8) (31.7) (32.6) (16.8) (29.8) (26.8) (38.8) - (33.3) (31.8) | 36.9 21.4 72.8 3.1 99.2 157.4 110.8 - 17.2 12.4 | 4.6 2.5 4.3 2.8 2.4 1.8 3.6 - 2.5 2.8 | 347 249 260 80 1 374 751 225 - 15 38 | (14.7) (37.4) (11.2) (27.4) (10.7) (11.8) (7.4) - (17.9) (17.5) | 24.7 45.5 43.7 8.0 101.5 265.0 48.4 - 16.0 13.3 | 1.1 1.0 1.7 1.6 0.9 1.2 1.6 - 4.0 | 0 0 0 0 0 0 0 0 | (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) - (0.0) (0.0) | - - - - - - - - | 2 359 666 2 316 292 12 832 6 338 3 022 - 84 217 | 2.8 1.6 2.2 2.0 1.6 1.4 2.8 - 1.9 | Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Moldova Monaco Montenegro North Macedonia |
| 987 211 754 49 3 826 1 699 1 173 - 28 69 22 819 | (41.8) (31.7) (32.6) (16.8) (29.8) (26.8) (38.8) - (33.3) (31.8) (29.2) | 36.9 21.4 72.8 3.1 99.2 157.4 110.8 - 17.2 12.4 58.2 | 4.6 2.5 4.3 2.8 2.4 1.8 3.6 - 2.5 2.8 3.1 | 347 249 260 80 1374 751 225 - 15 38 5 666 | (14.7) (37.4) (11.2) (27.4) (10.7) (11.8) (7.4) - (17.9) (17.5) (7.2) | 24.7 45.5 43.7 8.0 101.5 265.0 48.4 - 16.0 13.3 26.5 | 1.1 1.0 1.7 1.6 0.9 1.2 1.6 - 4.0 1.1 | 0 0 0 0 0 0 0 0 0 0 0 0 318 | (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) - (0.0) (0.0) (0.0) | - - - - - - - - - - - 62.6 | 2 359 666 2 316 292 12 832 6 338 3 022 - 84 217 78 258 | 2.8 1.6 2.2 2.0 1.6 1.4 2.8 - 1.9 1.9 | Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Moldova Monaco Montenegro North Macedonia Russia |
| 987 211 754 49 3 826 1 699 1 173 - 28 69 22 819 | (41.8) (31.7) (32.6) (16.8) (29.8) (26.8) (38.8) - (33.3) (31.8) (29.2) (0.0) | 36.9 21.4 72.8 3.1 99.2 157.4 110.8 - 17.2 12.4 58.2 0.0 | 4.6 2.5 4.3 2.8 2.4 1.8 3.6 - 2.5 2.8 3.1 | 347 249 260 80 1374 751 225 - 15 38 5 666 0 | (14.7) (37.4) (11.2) (27.4) (10.7) (11.8) (7.4) - (17.9) (17.5) (7.2) (0.0) | 24.7 45.5 43.7 8.0 101.5 265.0 48.4 - 16.0 13.3 26.5 0.0 | 1.1 1.0 1.7 1.6 0.9 1.2 1.6 - 4.0 1.1 1.3 | 0 0 0 0 0 0 0 0 - 0 0 0 318 | (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) - (0.0) (0.0) (0.4) (0.0) | - - - - - - - - - - - 62.6 | 2 359 666 2 316 292 12 832 6 338 3 022 - 84 217 78 258 0 | 2.8 1.6 2.2 2.0 1.6 1.4 2.8 - 1.9 1.9 2.3 | Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Moldova Monaco Montenegro North Macedonia Russia San Marino |
| 987 211 754 49 3 826 1 699 1 173 - 28 69 22 819 0 | (41.8) (31.7) (32.6) (16.8) (29.8) (26.8) (38.8) - (33.3) (31.8) (29.2) (0.0) (31.6) | 36.9 21.4 72.8 3.1 99.2 157.4 110.8 - 17.2 12.4 58.2 0.0 18.2 | 4.6 2.5 4.3 2.8 2.4 1.8 3.6 - 2.5 2.8 3.1 - | 347 249 260 80 1374 751 225 - 15 38 5 666 0 | (14.7) (37.4) (11.2) (27.4) (10.7) (11.8) (7.4) - (17.9) (17.5) (7.2) (0.0) (30.2) | 24.7 45.5 43.7 8.0 101.5 265.0 48.4 - 16.0 13.3 26.5 0.0 24.9 | 1.1 1.0 1.7 1.6 0.9 1.2 1.6 - 4.0 1.1 1.3 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) - (0.0) (0.0) (0.4) (0.0) (0.0) | - - - - - - - - - - - - - - - - - - - | 2 359 666 2 316 292 12 832 6 338 3 022 - 84 217 78 258 0 | 2.8 1.6 2.2 2.0 1.6 1.4 2.8 - 1.9 2.3 - 1.2 | Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Moldova Monaco Montenegro North Macedonia Russia San Marino Serbia |
| 987 211 754 49 3 826 1 699 1 173 - 28 69 22 819 0 420 229 | (41.8) (31.7) (32.6) (16.8) (29.8) (26.8) (38.8) - (33.3) (31.8) (29.2) (0.0) (31.6) (35.7) | 36.9 21.4 72.8 3.1 99.2 157.4 110.8 - 17.2 12.4 58.2 0.0 18.2 | 4.6 2.5 4.3 2.8 2.4 1.8 3.6 - 2.5 2.8 3.1 - 1.3 2.0 | 347 249 260 80 1374 751 225 - 15 38 5 666 0 402 218 | (14.7) (37.4) (11.2) (27.4) (10.7) (11.8) (7.4) - (17.9) (17.5) (7.2) (0.0) (30.2) (34.0) | 24.7 45.5 43.7 8.0 101.5 265.0 48.4 - 16.0 13.3 26.5 0.0 24.9 14.9 | 1.1 1.0 1.7 1.6 0.9 1.2 1.6 - 4.0 1.1 1.3 - | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 318 | (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.4) (0.0) (0.0) (0.0) | - - - - - - - - - - 62.6 | 2 359 666 2 316 292 12 832 6 338 3 022 - 84 217 78 258 0 1 330 641 | 2.8 1.6 2.2 2.0 1.6 1.4 2.8 - 1.9 1.9 2.3 - 1.2 | Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Moldova Monaco Montenegro North Macedonia Russia San Marino Serbia Serbia excluding Kosov |
| 987 211 754 49 3 826 1 699 1 173 - 28 69 22 819 0 420 229 191 | (41.8) (31.7) (32.6) (16.8) (29.8) (26.8) (38.8) - (33.3) (31.8) (29.2) (0.0) (31.6) (35.7) (27.7) | 36.9 21.4 72.8 3.1 99.2 157.4 110.8 - 17.2 12.4 58.2 0.0 18.2 11.7 53.5 | 4.6 2.5 4.3 2.8 2.4 1.8 3.6 - 2.5 2.8 3.1 - 1.3 2.0 0.8 | 347 249 260 80 1 374 751 225 - 15 38 5 666 0 402 218 184 | (14.7) (37.4) (11.2) (27.4) (10.7) (11.8) (7.4) - (17.9) (17.5) (7.2) (0.0) (30.2) (34.0) (26.7) | 24.7 45.5 43.7 8.0 101.5 265.0 48.4 - 16.0 13.3 26.5 0.0 24.9 14.9 122.8 | 1.1 1.0 1.7 1.6 0.9 1.2 1.6 - 4.0 1.1 1.3 - 1.1 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) | - - - - - - - - 62.6 | 2 359 666 2 316 292 12 832 6 338 3 022 - 84 217 78 258 0 1 330 641 689 | 2.8 1.6 2.2 2.0 1.6 1.4 2.8 - 1.9 1.9 2.3 - 1.2 | Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Moldova Monaco Montenegro North Macedonia Russia San Marino Serbia Serbia excluding Kosov Kosovo ^c |
| 987 211 754 49 3 826 1 699 1 173 - 28 69 22 819 0 420 229 191 | (41.8) (31.7) (32.6) (16.8) (29.8) (26.8) (38.8) - (33.3) (31.8) (29.2) (0.0) (31.6) (35.7) (27.7) (21.8) | 36.9 21.4 72.8 3.1 99.2 157.4 110.8 - 17.2 12.4 58.2 0.0 18.2 11.7 53.5 4.3 | 4.6 2.5 4.3 2.8 2.4 1.8 3.6 - 2.5 2.8 3.1 - 1.3 2.0 0.8 1.2 | 347 249 260 80 1 374 751 225 - 15 38 5 666 0 402 218 184 80 | (14.7) (37.4) (11.2) (27.4) (10.7) (11.8) (7.4) - (17.9) (17.5) (7.2) (0.0) (30.2) (34.0) (26.7) (16.9) | 24.7 45.5 43.7 8.0 101.5 265.0 48.4 - 16.0 13.3 26.5 0.0 24.9 14.9 122.8 5.0 | 1.1 1.0 1.7 1.6 0.9 1.2 1.6 - 4.0 1.1 1.3 - 1.1 1.2 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) | - - - - - - - 62.6 | 2 359 666 2 316 292 12 832 6 338 3 022 - 84 217 78 258 0 1 330 641 689 473 | 2.8 1.6 2.2 2.0 1.6 1.4 2.8 - 1.9 1.9 2.3 - 1.2 1.4 1.0 | Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Moldova Monaco Montenegro North Macedonia Russia San Marino Serbia Serbia excluding Kosov Kosovo ^c Switzerland |
| 987 211 754 49 3 826 1 699 1173 - 28 69 22 819 0 420 229 191 103 1 273 | (41.8) (31.7) (32.6) (16.8) (29.8) (26.8) (38.8) - (33.3) (31.8) (29.2) (0.0) (31.6) (35.7) (27.7) (21.8) (22.2) | 36.9 21.4 72.8 3.1 99.2 157.4 110.8 - 17.2 12.4 58.2 0.0 18.2 11.7 53.5 4.3 99.5 | 4.6 2.5 4.3 2.8 2.4 1.8 3.6 - 2.5 2.8 3.1 - 1.3 2.0 0.8 1.2 | 347 249 260 80 1374 751 225 - 15 38 5 666 0 402 218 184 80 527 | (14.7) (37.4) (11.2) (27.4) (10.7) (11.8) (7.4) - (17.5) (7.2) (0.0) (30.2) (34.0) (26.7) (16.9) (9.2) | 24.7 45.5 43.7 8.0 101.5 265.0 48.4 - 16.0 13.3 26.5 0.0 24.9 14.9 122.8 5.0 191.6 | 1.1 1.0 1.7 1.6 0.9 1.2 1.6 - 4.0 1.1 1.3 - 1.1 1.2 1.1 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) | - - - - - - - - 62.6 | 2 359 666 2 316 2 92 12 832 6 338 3 022 - 84 217 78 258 0 1 330 641 689 473 5 726 | 2.8 1.6 2.2 2.0 1.6 1.4 2.8 - 1.9 1.9 2.3 - 1.2 1.4 1.0 1.6 | Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Moldova Monaco Montenegro North Macedonia Russia San Marino Serbia excluding Kosov Kosovo ^c Switzerland Tajikistan |
| 987 211 754 49 3 826 1 699 1173 - 28 69 22 819 0 420 229 191 103 1 273 3 577 | (41.8) (31.7) (32.6) (16.8) (29.8) (26.8) (38.8) - (33.3) (31.8) (29.2) (0.0) (31.6) (35.7) (27.7) (21.8) (22.2) (30.9) | 36.9 21.4 72.8 3.1 99.2 157.4 110.8 - 17.2 12.4 58.2 0.0 18.2 11.7 53.5 4.3 99.5 21.3 | 4.6 2.5 4.3 2.8 2.4 1.8 3.6 - 2.5 2.8 3.1 - 1.3 2.0 0.8 1.2 1.0 | 347 249 260 80 1374 751 225 - 15 38 5 666 0 402 218 184 80 527 2 199 | (14.7) (37.4) (11.2) (27.4) (10.7) (11.8) (7.4) - (17.5) (7.2) (0.0) (30.2) (34.0) (26.7) (16.9) (9.2) (19.0) | 24.7 45.5 43.7 8.0 101.5 265.0 48.4 - 16.0 13.3 26.5 0.0 24.9 14.9 122.8 5.0 191.6 31.5 | 1.1 1.0 1.7 1.6 0.9 1.2 1.6 - 4.0 1.1 1.3 - 1.1 1.2 1.1 1.8 0.8 1.3 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) | - - - - - - - - - - - - - - - - - - - | 2 359 666 2 316 2 92 12 832 6 338 3 022 - 84 217 78 258 0 1 330 641 689 473 5 726 11 576 | 2.8 1.6 2.2 2.0 1.6 1.4 2.8 - 1.9 2.3 - 1.2 1.4 1.0 1.6 1.2 | Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Moldova Monaco Montenegro North Macedonia Russia San Marino Serbia Serbia excluding Kosov Kosovoc Switzerland Tajikistan Turkey |
| 987 211 754 49 3 826 1 699 1173 - 28 69 22 819 0 420 229 191 103 1 273 3 577 693 | (41.8) (31.7) (32.6) (16.8) (29.8) (26.8) (38.8) (31.8) (29.2) (0.0) (31.6) (35.7) (27.7) (21.8) (22.2) (30.9) (32.1) | 36.9 21.4 72.8 3.1 99.2 157.4 110.8 - 17.2 12.4 58.2 0.0 18.2 11.7 53.5 4.3 99.5 21.3 68.8 | 4.6 2.5 4.3 2.8 2.4 1.8 3.6 - 2.5 2.8 3.1 - 1.3 2.0 0.8 1.2 1.0 1.7 2.0 | 347 249 260 80 1374 751 225 - 15 38 5 666 0 402 218 184 80 527 2 199 168 | (14.7) (37.4) (11.2) (27.4) (10.7) (11.8) (7.4) - (17.9) (17.5) (7.2) (0.0) (30.2) (34.0) (26.7) (16.9) (9.2) (19.0) (7.8) | 24.7 45.5 43.7 8.0 101.5 265.0 48.4 - 16.0 13.3 26.5 0.0 24.9 14.9 122.8 5.0 191.6 31.5 64.9 | 1.1 1.0 1.7 1.6 0.9 1.2 1.6 - 4.0 1.1 1.3 - 1.1 1.2 1.1 1.8 0.8 1.3 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) | - - - - - - - - - - - - - - - - - - - | 2 359 666 2 316 292 12 832 6 338 3 022 - 84 217 78 258 0 1 330 641 689 473 5 726 11 576 2 157 | 2.8 1.6 2.2 2.0 1.6 1.4 2.8 - 1.9 1.9 2.3 - 1.2 1.4 1.0 1.6 1.2 1.3 | Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Moldova Monaco Montenegro North Macedonia Russia San Marino Serbia Serbia excluding Kosov Kosovo ^c Switzerland Tajikistan Turkey Turkmenistan |
| 987 211 754 49 3 826 1 699 1173 - 28 69 22 819 0 420 229 191 103 1 273 3 577 693 8 956 | (41.8) (31.7) (32.6) (16.8) (29.8) (26.8) (38.8) - (33.3) (31.8) (29.2) (0.0) (31.6) (35.7) (27.8) (22.2) (30.9) (32.1) (33.8) | 36.9 21.4 72.8 3.1 99.2 157.4 110.8 - 17.2 12.4 58.2 0.0 18.2 11.7 53.5 4.3 99.5 21.3 68.8 74.4 | 4.6 2.5 4.3 2.8 2.4 1.8 3.6 - 2.5 2.8 3.1 - 1.3 2.0 0.8 1.2 1.0 1.7 2.0 3.4 | 347 249 260 80 1374 751 225 - 15 38 5 666 0 402 218 184 80 527 2 199 168 2 190 | (14.7) (37.4) (11.2) (27.4) (10.7) (11.8) (7.4) - (17.9) (17.5) (7.2) (0.0) (30.2) (34.0) (26.7) (16.9) (9.2) (19.0) (7.8) (8.3) | 24.7 45.5 43.7 8.0 101.5 265.0 48.4 - 16.0 13.3 26.5 0.0 24.9 14.9 122.8 5.0 191.6 31.5 64.9 30.1 | 1.1 1.0 1.7 1.6 0.9 1.2 1.6 - 4.0 1.1 1.3 1.1 1.2 1.1 1.8 0.8 1.3 0.9 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) | | 2 359 666 2 316 292 12 832 6 338 3 022 - 84 217 78 258 0 1 330 641 689 473 5 726 11 576 2 157 2 6 512 | 2.8 1.6 2.2 2.0 1.6 1.4 2.8 - 1.9 2.3 - 1.2 1.4 1.0 1.6 1.2 1.3 1.5 2.4 | Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Moldova Monaco Montenegro North Macedonia Russia San Marino Serbia Serbia excluding Kosov Kosovo' Switzerland Tajikistan Turkey Turkmenistan Ukraine |
| 987 211 754 49 3 826 1 699 1 173 - 28 69 22 819 0 420 229 191 103 1 273 3 577 693 8 956 4 848 | (41.8) (31.7) (32.6) (16.8) (29.8) (26.8) (38.8) - (33.3) (31.8) (29.2) (0.0) (31.6) (35.7) (27.7) (21.8) (22.2) (30.9) (32.1) (33.8) (29.5) | 36.9 21.4 72.8 3.1 99.2 157.4 110.8 - 17.2 12.4 58.2 0.0 18.2 11.7 53.5 4.3 99.5 21.3 68.8 74.4 84.0 | 4.6 2.5 4.3 2.8 2.4 1.8 3.6 - 2.5 2.8 3.1 - 1.3 2.0 0.8 1.2 1.0 1.7 2.0 3.4 1.4 | 347 249 260 80 1 374 751 225 - 15 38 5 666 0 402 218 184 80 527 2 199 168 2 190 2 269 | (14.7) (37.4) (11.2) (27.4) (10.7) (11.8) (7.4) - (17.9) (17.5) (7.2) (0.0) (30.2) (34.0) (26.7) (16.9) (9.2) (19.0) (7.8) (8.3) (13.8) | 24.7 45.5 43.7 8.0 101.5 265.0 48.4 - 16.0 13.3 26.5 0.0 24.9 14.9 122.8 5.0 191.6 31.5 64.9 30.1 158.1 | 1.1 1.0 1.7 1.6 0.9 1.2 1.6 - 4.0 1.1 1.3 - 1.1 1.2 1.1 1.8 0.8 1.3 0.9 1.2 0.9 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) | | 2 359 666 2 316 292 12 832 6 338 3 022 - 84 217 78 258 0 1 330 641 689 473 5 726 11 576 2 157 2 6 512 16 413 | 2.8 1.6 2.2 2.0 1.6 1.4 2.8 - 1.9 1.9 2.3 - 1.2 1.4 1.0 1.6 1.2 1.3 1.5 2.4 | Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Moldova Monaco Montenegro North Macedonia Russia San Marino Serbia Serbia excluding Kosova Kosovo ^c Switzerland Tajikistan Turkey Turkmenistan Ukraine Uzbekistan |
| 987 211 754 49 3 826 1 699 1173 - 28 69 22 819 0 420 229 191 103 1 273 3 577 693 8 956 | (41.8) (31.7) (32.6) (16.8) (29.8) (26.8) (38.8) - (33.3) (31.8) (29.2) (0.0) (31.6) (35.7) (27.8) (22.2) (30.9) (32.1) (33.8) | 36.9 21.4 72.8 3.1 99.2 157.4 110.8 - 17.2 12.4 58.2 0.0 18.2 11.7 53.5 4.3 99.5 21.3 68.8 74.4 | 4.6 2.5 4.3 2.8 2.4 1.8 3.6 - 2.5 2.8 3.1 - 1.3 2.0 0.8 1.2 1.0 1.7 2.0 3.4 | 347 249 260 80 1374 751 225 - 15 38 5 666 0 402 218 184 80 527 2 199 168 2 190 | (14.7) (37.4) (11.2) (27.4) (10.7) (11.8) (7.4) - (17.9) (17.5) (7.2) (0.0) (30.2) (34.0) (26.7) (16.9) (9.2) (19.0) (7.8) (8.3) | 24.7 45.5 43.7 8.0 101.5 265.0 48.4 - 16.0 13.3 26.5 0.0 24.9 14.9 122.8 5.0 191.6 31.5 64.9 30.1 | 1.1 1.0 1.7 1.6 0.9 1.2 1.6 - 4.0 1.1 1.3 1.1 1.2 1.1 1.8 0.8 1.3 0.9 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) | | 2 359 666 2 316 292 12 832 6 338 3 022 - 84 217 78 258 0 1 330 641 689 473 5 726 11 576 2 157 2 6 512 | 2.8 1.6 2.2 2.0 1.6 1.4 2.8 - 1.9 2.3 - 1.2 1.4 1.0 1.6 1.2 1.3 1.5 2.4 | Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Moldova Monaco Montenegro North Macedonia Russia San Marino Serbia Serbia excluding Kosov Kosovo' Switzerland Tajikistan Turkey Turkmenistan Ukraine |

Table 10. Tuberculosis cases by origin, European Region, 2018

| Country/area | Origin criterion | Nat | ive | For | eign | Unknow | n origin | All tuberculosi cases |
|---|---|---|--|---------------------------------------|---|------------------|------------------|--|
| | Citterion | N | (%) | N | (%) | N | (%) | N |
| EU/EEA | | | | | | | | |
| Austria | Citizenship | 183 | (38.0) | 299 | (62.0) | 0 | (0.0) | 482 |
| Belgium | Citizenship | 470 | (47.9) | 511 | (52.1) | 0 | (0.0) | 981 |
| Bulgaria | Birthplace | 1 350 | (99.4) | 8 | (0.6) | 0 | (0.0) | 1 358 |
| Croatia | Birthplace | 177 | (47.6) | 4 | (1.1) | 191 | (51.3) | 372 |
| Cyprus | Birthplace | 3 | (5.8) | 49 | (94.2) | 0 | (0.0) | 52 |
| Czech Republic | Birthplace | 297 | (66.9) | 147 | (33.1) | 0 | (0.0) | 444 |
| Denmark | Birthplace | 93 | (32.0) | 198 | (68.0) | 0 | (0.0) | 291 |
| Estonia | Birthplace | 115 | (78.2) | 32 | (21.8) | 0 | (0.0) | 147 |
| Finland | Birthplace | 130 | (56.5) | 92 | (40.0) | 8 | (3.5) | 230 |
| France | Birthplace | 1645 | (32.3) | 3 142 | (61.7) | 305 | (6.0) | 5 092 |
| Germany | Birthplace | 1374 | (25.3) | 3 890 | (71.7) | 165 | (3.0) | 5 429 |
| Greece | Citizenship | 215 | (49.8) | 216 | (50.0) | 1 | (0.2) | 432 |
| Hungary | Citizenship | 617 | (96.4) | 23 | (3.6) | 0 | (0.0) | 640 |
| celand | Birthplace | 0 | (0.0) | 8 | (100.0) | 0 | (0.0) | 8 |
| reland | Birthplace | 144 | (45.9) | 140 | (44.6) | 30 | (9.6) | 314 |
| taly | Birthplace | 1509 | (38.6) | 2 313 | (59.1) | 90 | (2.3) | 3 912 |
| Latvia | - Distriptace | - | (36.0) | - | (35.1) | - | (2.3) | - |
| Liechtenstein | Birthplace | 0 | (0.0) | 1 | (100.0) | 0 | (0.0) | 1 |
| Lithuania | Birthplace | 1 130 | (98.9) | 12 | (1.1) | 0 | (0.0) | 1 142 |
| | , | 8 | | 34 | (81.0) | 0 | (0.0) | 42 |
| Luxembourg | Birthplace | | (19.0) | | | | | |
| Malta | Birthplace | 2 | (3.6) | 53 | (96.4) | 0 | (0.0) | 55 |
| Vetherlands | Birthplace | 181 | (22.5) | 619 | (76.8) | 6 | (0.7) | 806 |
| Vorway | Birthplace | 29 | (13.9) | 180 | (86.1) | 0 | (0.0) | 209 |
| Poland | Citizenship | 5 390 | (98.2) | 97 | (1.8) | 0 | (0.0) | 5 487 |
| Portugal | Birthplace | 1640 | (76.7) | 497 | (23.3) | 0 | (0.0) | 2 137 |
| Romania | Birthplace | 12 172 | (99.7) | 33 | (0.3) | 0 | (0.0) | 12 205 |
| Slovakia | Birthplace | 271 | (96.4) | 10 | (3.6) | 0 | (0.0) | 281 |
| Slovenia | Birthplace | 55 | (55.6) | 44 | (44.4) | 0 | (0.0) | 99 |
| Spain | Birthplace | 2 629 | (56.6) | 1 670 | (35.9) | 349 | (7.5) | 4 648 |
| Sweden | Birthplace | 68 | (13.8) | 423 | (86.2) | 0 | (0.0) | 491 |
| United Kingdom | Birthplace | 1468 | (28.9) | 3 501 | (69.0) | 106 | (2.1) | 5 075 |
| Subtotal EU/EEA | - | 33 365 | (63.1) | 18 246 | (34.5) | 1 251 | (2.4) | 52 862 |
| Non-EU/EEA | | | | | | | | |
| Albania | Citizenship | 440 | (100.0) | 0 | (0.0) | - | - | 440 |
| Andorra | Citizenship | 2 | (100.0) | 0 | (0.0) | - | - | 2 |
| Armenia | Citizenship | 786 | (98.7) | 10 | (1.3) | - | - | 796 |
| Azerbaijan | Citizenship | 6 896 | (100.0) | 0 | (0.0) | - | - | 6 896 |
| Belarus | Citizenship | 2 542 | (100.0) | 0 | (0.0) | _ | _ | 2 542 |
| Bosnia and Herzegovina | Birthplace | 669 | (100.0) | 0 | (0.0) | _ | _ | 669 |
| • | Citizenship | - | (100.0) | _ | (0.0) | _ | _ | 009 |
| Georgia srael | | | (16.1) | | (83.9) | _ | _ | |
| | Birthplace | 47 | | 245 | | | | 292 |
| Kazakhstan | Citizenship | 13 161 | (98.5) | 200 | (1.5) | - | - | 13 361 |
| Kyrgyzstan | Birthplace | 7 585 | (100.0) | 0 | (0.0) | - | - | 7 585 |
| Moldova | Citizenship | 3 448 | (99.5) | 17 | (0.5) | - | - | 3 465 |
| Monaco | - | - | - | - | - | - | - | - |
| Montenegro | Citizenship | 80 | (95.2) | 4 | (4.8) | - | - | 84 |
| North Macedonia | Birthplace | 216 | (99.5) | 1 | (0.5) | - | - | 217 |
| Russia | Citizenship | 104 847 | (98.1) | 2 0 6 6 | (1.9) | - | - | 106 913 |
| 143314 | | 0 | (0.0) | 0 | (0.0) | - | - | 0 |
| | - | U | | 5 | (0.4) | - | - | 1358 |
| San Marino | - | 1353 | (99.6) | | | | | 656 |
| San Marino | - Citizenship | | (99.6) (99.2) | 5 | (0.8) | - | - | 0,00 |
| San Marino Serbia | - Citizenship Birthplace | 1353 | | | (0.8) | - | - | 702 |
| San Marino Serbia Serbia excluding Kosovo ^a Kosovo ^a | | 1 353 651 | (99.2) | 5 | | | | |
| San Marino Serbia Serbia excluding Kosovo ^a Kosovo ^a Switzerland | Birthplace Birthplace | 1353 651 702 164 | (99.2) (100.0) (31.8) | 5 0 352 | (0.0) (68.2) | - | - | 702 516 |
| San Marino Serbia Serbia excluding Kosovo ^a Kosovo ^a Switzerland Tajikistan | Birthplace Birthplace Birthplace | 1353 651 702 164 5 975 | (99.2) (100.0) (31.8) (100.0) | 5 0 352 0 | (0.0) (68.2) (0.0) | - - - | - - - | 702 516 5 975 |
| San Marino Serbia Serbia excluding Kosovo ^a Kosovo ^a Switzerland Tajikistan Turkey | Birthplace Birthplace Birthplace Birthplace | 1353 651 702 164 5 975 10 508 | (99.2) (100.0) (31.8) (100.0) (89.2) | 5 0 352 | (0.0) (68.2) (0.0) (10.8) | - - - | - - - | 702 516 5 975 11 786 |
| San Marino Serbia Serbia excluding Kosovo ^a Kosovo ^a Switzerland Tajikistan Turkey Turkmenistan | Birthplace Birthplace Birthplace Birthplace Citizenship | 1353 651 702 164 5 975 10 508 | (99.2) (100.0) (31.8) (100.0) (89.2) | 5 0 352 0 1278 | (0.0) (68.2) (0.0) (10.8) | - - - | - - - - | 702 516 5 975 11 786 |
| San Marino Serbia Serbia excluding Kosovo ^a Kosovo ^a Switzerland Tajikistan Turkey Turkmenistan Ukraine | Birthplace Birthplace Birthplace Birthplace Citizenship Citizenship | 1353 651 702 164 5 975 10 508 - 30 331 | (99.2) (100.0) (31.8) (100.0) (89.2) - (99.8) | 5 0 352 0 1278 - 47 | (0.0) (68.2) (0.0) (10.8) - (0.2) | - - - - | - - - - | 702 516 5 975 11 786 - 30 378 |
| San Marino Serbia Serbia excluding Kosovo ^a Kosovo ^a Switzerland Tajikistan Turkey Turkey Turkmenistan Ukraine Uzbekistan | Birthplace Birthplace Birthplace Birthplace Citizenship | 1353 651 702 164 5 975 10 508 - 30 331 18 496 | (99.2) (100.0) (31.8) (100.0) (89.2) - (99.8) (100.0) | 5 0 352 0 1278 - 47 | (0.0) (68.2) (0.0) (10.8) - (0.2) (0.0) | - - - - | - - - - | 702 516 5 975 11 786 - 30 378 18 496 |
| San Marino Serbia Serbia excluding Kosovo ^a Kosovo ^a Switzerland Tajikistan Turkey Turkmenistan Ukraine | Birthplace Birthplace Birthplace Birthplace Citizenship Citizenship | 1353 651 702 164 5 975 10 508 - 30 331 | (99.2) (100.0) (31.8) (100.0) (89.2) - (99.8) | 5 0 352 0 1278 - 47 | (0.0) (68.2) (0.0) (10.8) - (0.2) | - - - - | - - - - | 702 516 5 975 11 786 - 30 378 |

'European Region' comprises the 53 countries of the WHO European Region and Liechtenstein.
WHO European Region 18 tuberculosis high-priority countries presented in italics.
HPC - high-priority countries.
**This designation is without prejudice to positions on status, and is in line with UN Security Council Resolution 1244 and the International Court of Justice Opinion on the Kosovo Declaration of Independence.

Table 11. Drug resistance surveillance of bacteriologically confirmed pulmonary tuberculosis cases, European Region, 2018

| Country/area | Source of data | Coverage | Bacteriolo confirmed | | Cases with at least for | | Cases resi any a tuberculos | nti- | resi | idrug- stant osis cases | All pulmonary tuberculosis | Reporting completeness |
|---|---|--|--|-----------------------|--|---|--|----------------------------|--|--|----------------------------------|---|
| | | | N | (%) | N | (%) | N | (%) | N | (%) | cases | |
| EU/EEA | | | | | | | | | | | | |
| Austria | TESSy | National | 323 | (88.7) | 284 | (87.9) | 37 | (13.0) | 15 | (5.3) | 364 | Υ |
| Belgium | TESSy | National | 584 | (83.1) | 528 | (90.4) | 30 | (5.7) | 7 | (1.3) | 703 | Υ |
| Bulgaria | TESSy | National | 600 | (56.4) | 536 | (89.3) | 62 | (11.6) | 24 | (4.5) | 1 063 | Υ |
| Croatia | TESSy | National | 287 | (90.0) | 264 | (92.0) | 4 | (1.5) | 2 | (0.8) | 319 | Υ |
| Cyprus | TESSy | National | 35 | (83.3) | 35 | (100.0) | 4 | (11.4) | 0 | (0.0) | 42 | Υ |
| Czech Republic | TESSy | National | 346 | (87.2) | 297 | (85.8) | 28 | (9.4) | 10 | (3.4) | 397 | Υ |
| Denmark | TESSy | National | 180 | (81.4) | 173 | (96.1) | 7 | (4.0) | 4 | (2.3) | 221 | Υ |
| Estonia | TESSy | National | 125 | (90.6) | 118 | (94.4) | 46 | (39.0) | 30 | (25.4) | 138 | Υ |
| Finland | TESSy | National | 143 | (92.3) | 129 | (90.2) | 9 | (7.0) | 4 | (3.1) | 155 | Υ |
| France | TESSy | National | 1 659 | (46.3) | 66 | (4.0) | 66 | (100.0) | 66 | (100.0) | 3,583 | - |
| Germany | TESSy | National | 3 375 | (86.2) | 2 897 | (85.8) | 379 | (13.1) | 98 | (3.4) | 3 916 | Υ |
| Greece | TESSy | National | 208 | (57.6) | 135 | (64.9) | 17 | (12.6) | 5 | (3.7) | 361 | Υ |
| Hungary | TESSy | National | 362 | (58.3) | 325 | (89.8) | 40 | (12.3) | 12 | (3.7) | 621 | Υ |
| Iceland | TESSy | National | 2 | (40.0) | 2 | (100.0) | 1 | (50.0) | 0 | (0.0) | 5 | Υ |
| Ireland | TESSy | National | 171 | (79.5) | 152 | (88.9) | 19 | (12.5) | 4 | (2.6) | 215 | Υ |
| Italy ^d | NRL-TME ^d | Partial | 2 220 | (80.9) | 1 811 | (81.6) | - | - | 42 | (2.3) | 2 744 | N |
| Latvia | - | - | - | - | - | - | - | - | - | - | - | Υ |
| Liechtenstein | TESSy | National | 1 | (100.0) | 1 | (100.0) | 0 | (0.0) | 0 | (0.0) | 1 | Υ |
| Lithuania | TESSy | National | 969 | (91.0) | 969 | (100.0) | 314 | (32.4) | 170 | (17.5) | 1 065 | Υ |
| Luxembourg | TESSy | National | 29 | (90.6) | 29 | (100.0) | 2 | (6.9) | 1 | (3.4) | 32 | Υ |
| Malta | TESSy | National | 29 | (74.4) | 27 | (93.1) | 1 | (3.7) | 0 | (0.0) | 39 | Υ |
| Netherlands | TESSy | National | 394 | (84.9) | 340 | (86.3) | 29 | (8.5) | 3 | (0.9) | 464 | Υ |
| Norway | TESSy | National | 116 | (92.1) | 108 | (93.1) | 13 | (12.0) | 4 | (3.7) | 126 | Υ |
| Poland | TESSy | National | 4 028 | (76.8) | 3,639 | (90.3) | 250 | (6.9) | 46 | (1.3) | 5 244 | Υ |
| Portugal | TESSy | National | 1 348 | (83.6) | 947 | (70.3) | 122 | (12.9) | 7 | (0.7) | 1,612 | Υ |
| Romania | TESSy | National | 8 479 | (81.4) | 7,754 | (91.4) | 723 | (9.3) | 347 | (4.5) | 10 416 | Υ |
| Slovakia | TESSy | National | 158 | (64.8) | 133 | (84.2) | 3 | (2.3) | 2 | (1.5) | 244 | Υ |
| Slovenia | TESSy | National | 80 | (95.2) | 80 | (100.0) | 3 | (3.8) | 0 | (0.0) | 84 | Υ |
| Spain | TESSy | National | 2 698 | (80.1) | 1,015 | (37.6) | 137 | (13.5) | 28 | (2.8) | 3 369 | Υ |
| Sweden | TESSy | National | 298 | (89.2) | 292 | (98.0) | 49 | (16.8) | 7 | (2.4) | 334 | Υ |
| United Kingdom | TESSy | National | 2 222 | (75.4) | 2 162 | (97.3) | 261 | (12.1) | 25 | (1.2) | 2 948 | Υ |
| Subtotal EU/EEA | | | 31 469 | (77.1) | 25 248 | (80.2) | 2 656 | (11.3) | 963 | (3.8) | 40 825 | |
| Non-EU/EEA | | | | | | () | | | | () | | |
| Albania | NRL-TME | National | 208 | - | 63 | (30.3) | - | - | 2 | (3.2) | - | N |
| Andorra | NRL-TME | National | 2 | - | 1 | (50.0) | - | - | 0 | (0.0) | - | N |
| Armenia | NRL-TME | National | 358 | - | 332 | (92.7) | - | - | 76 | (22.9) | - | Υ |
| Azerbaijan | NRL-TME | National | 4824 | - | 4 426 | (91.7) | - | - | 638 | (14.4) | - | Υ |
| Belarus | NRL-TME | National | 2141 | - | 2 141 | (100.0) | - | - | 984 | (46.0) | - | Y |
| Bosnia and Herzegovina | NRL-TME | National | 448 | - | 2 | (0.4) | - | - | 0 | (0.0) | - | N |
| Georgia | NRL-TME | National | 1862 | - | 1 032 | (55.4) | - | - | 167 | (16.2) | - | N |
| Israel | NRL-TME | National | 160 | - | 160 | (100.0) | - | - | 13 | (8.1) | - | Υ |
| Kazakhstan | AUDI TAAF | A1 - 42 1 | 40777 | | F 101 | (50.0) | | _ | 1 462 | (27.0) | - | N |
| | NRL-TME | National | 10774 | - | 5 406 | (50.2) | - | | | ((5.0) | | 8.1 |
| Kyrgyzstan | NRL-TME | National | 3875 | - | 2 747 | (70.9) | - | - | 1 241 | (45.2) | - | N |
| Moldova | | | | | | | | | 1 241 625 | (45.2) (35.1) | - | Υ |
| Moldova Monaco | NRL-TME NRL-TME – | National National – | 3875 2197 - | | 2 747 1 783 - | (70.9) (81.2) - | - - - | - - - | 1 241 625 0 | (35.1) | - | Y Y |
| Moldova Monaco Montenegro | NRL-TME NRL-TME - NRL-TME | National National - National | 3875 2197 - 64 | - | 2 747 1 783 - 60 | (70.9) (81.2) - (93.8) | - | - | 1 241 625 0 1 | (35.1) - (1.7) | | Y Y Y |
| Moldova Monaco Montenegro North Macedonia | NRL-TME NRL-TME - NRL-TME NRL-TME | National National – National National | 3875 2197 - 64 146 | - - - - | 2 747 1 783 - 60 137 | (70.9) (81.2) - (93.8) (93.8) | - - - | - - - - | 1 241 625 0 1 2 | (35.1) - (1.7) (1.5) | - | У Ү Ү Ү |
| Moldova Monaco Montenegro North Macedonia Russia | NRL-TME NRL-TME - NRL-TME NRL-TME NRL-TME | National National National National National | 3875 2197 - 64 146 57187 | - - - - | 2 747 1 783 - 60 137 52 048 | (70.9) (81.2) - (93.8) | - - - | - - - - | 1 241 625 0 1 2 24 035 | (35.1) - (1.7) (1.5) (46.2) | - | У Ү Ү Ү |
| Moldova Monaco Montenegro North Macedonia Russia San Marino | NRL-TME NRL-TME - NRL-TME NRL-TME NRL-TME | National National National National National National National | 3875 2197 - 64 146 57187 0 | - - - - - | 2 747 1783 - 60 137 52 048 | (70.9) (81.2) - (93.8) (93.8) (91.0) | - - - - - | - - - - | 1 241 625 0 1 2 24 035 | (35.1) - (1.7) (1.5) (46.2) (0.0) | - - - - | У У У У У |
| Moldova Monaco Montenegro Montenh Macedonia Russia San Marino Serbia | NRL-TME NRL-TME - NRL-TME NRL-TME NRL-TME - NRL-TME | National National - National National National National National National | 3875 2197 - 64 146 57187 0 | - | 2747 1783 - 60 137 52048 0 | (70.9) (81.2) - (93.8) (93.8) (91.0) - (38.2) | - - - - - | - - - - - | 1 241 625 0 1 2 24 035 0 3 | (35.1) - (1.7) (1.5) (46.2) (0.0) (1.4) | - - - - - | Y Y Y Y Y Y N |
| Moidova Monaco Montenegro North Macedonia Russia San Marino Serbia Serbia excluding Kosovo* | NRL-TME NRL-TME NRL-TME NRL-TME NRL-TME NRL-TME NRL-TME NRL-TME | National National - National National National National National National National | 3875 2197 - 64 146 57187 0 790 557 | - | 2 747 1783 - 60 137 52 048 0 302 302 | (70.9) (81.2) - (93.8) (93.8) (91.0) - (38.2) (54.2) | - - - - - | - - - - - | 1 241 625 0 1 2 24 035 | (35.1) - (1.7) (1.5) (46.2) (0.0) (1.4) (1.4) | - - - - - | Y Y Y Y Y Y Y Y Y |
| Moidova Monaco Montenegro North Macedonia Russia San Marino Serbia Serbia excluding Kosovoe Kosovoe | NRL-TME NRL-TME - NRL-TME NRL-TME NRL-TME NRL-TME NRL-TME NRL-TME NRL-TME | National National - National National National National National National National | 3875 2197 - 64 146 57187 0 790 557 233 | - | 2 747 1783 - 60 137 52 048 0 302 302 | (70.9) (81.2) - (93.8) (93.8) (91.0) - (38.2) (54.2) (0.0) | - - - - - - | - - - - - - | 1 241 625 0 1 2 24 035 0 3 3 | (35.1) - (1.7) (1.5) (46.2) (0.0) (1.4) (1.4) | | Y Y Y Y Y N |
| Moldova Monaco Montenegro North Macedonia Russia San Marino Serbia Serbia excluding Kosovoe Kosovoe Switzerland | NRL-TME NRL-TME - NRL-TME NRL-TME NRL-TME NRL-TME NRL-TME NRL-TME NRL-TME NRL-TME | National National National National National National National National National Subnational | 3875 2197 - 64 146 57187 0 790 557 233 342 | - | 2 747 1783 - 60 137 52 048 0 302 302 0 276 | (70.9) (81.2) - (93.8) (93.8) (91.0) - (38.2) (54.2) (0.0) (80.7) | - - - - - - - - | - | 1241 625 0 1 2 24 035 0 3 3 | (35.1) - (1.7) (1.5) (46.2) (0.0) (1.4) (1.4) - (1.4) | - - - - - - | Y Y Y Y Y Y N N Y N Y |
| Moidova Monaco Montenegro North Macedonia Russia San Marino Serbia Serbia excluding Kosovoe Kosovoe Switzerland Tajikistan | NRL-TME | National National National National National National National National National Subnational National | 3875 2197 - 64 146 57187 0 790 557 233 342 3037 | - | 2 747 1783 - 60 137 52 048 0 302 302 0 276 551 | (70.9) (81.2) - (93.8) (93.8) (91.0) - (38.2) (54.2) (0.0) (80.7) (18.1) | - - - - - - - - | - | 1 241 625 0 1 2 24 035 0 3 3 4 416 | (35.1) - (1.7) (1.5) (46.2) (0.0) (1.4) (1.4) - (1.4) (75.5) | - | Y Y Y Y Y Y N N N Y N N |
| Moldova Monaco Montenegro North Macedonia Russia San Marino Serbia Serbia excluding Kosovoe Kosovoe Switzerland Tajikistan Turkey | NRL-TME NRL-TME - NRL-TME NRL-TME NRL-TME NRL-TME NRL-TME NRL-TME NRL-TME NRL-TME NRL-TME | National | 3875 2197 - 64 146 57187 0 790 557 233 342 3037 5995 | - | 2 747 1783 - 60 137 52 048 0 302 302 0 276 551 5 152 | (70.9) (81.2) - (93.8) (93.8) (91.0) - (38.2) (54.2) (0.0) (80.7) (18.1) (85.9) | - - - - - - - - - - | - | 1 241 625 0 1 2 24 035 0 3 3 4 416 167 | (35.1) - (1.7) (1.5) (46.2) (0.0) (1.4) (1.4) - (1.4) (75.5) (3.2) | - | Y Y Y Y Y Y Y N N Y N Y N Y |
| Moldova Monaco Montenegro North Macedonia Russia San Marino Serbia Serbia excluding Kosovoe Kosovoe Switzerland Turkey Turkmenistan | NRL-TME NRL-TME - NRL-TME NRL-TME NRL-TME NRL-TME NRL-TME NRL-TME NRL-TME NRL-TME | National Subnational National National | 3875 2197 - 64 146 57187 0 790 557 233 342 3037 5995 | - | 2 747 1783 - 60 137 52 048 0 302 302 0 276 551 5 152 | (70.9) (81.2) - (93.8) (93.8) (91.0) - (38.2) (54.2) (0.0) (80.7) (18.1) (85.9) | - - - - - - - - | - | 1241 625 0 1 2 24035 0 3 3 4 416 167 | (35.1) - (1.7) (1.5) (46.2) (0.0) (1.4) (1.4) - (1.4) (75.5) (3.2) | - | Y Y Y Y Y Y N N N Y N N N N N N N N N N |
| Moidova Monaco Montenegro North Macedonia Russia San Marino Serbia Serbia excluding Kosovoe Kosovoe Switzerland Tajikistan Turkey Turkmenistan Ukraine | NRL-TME NRL-TME - NRL-TME | National Subnational National National National National | 3875 2197 - 64 146 57187 0 790 557 233 342 3037 5995 - 19705 | - | 2 747 1783 - 60 137 52 048 0 302 302 0 276 551 5 152 - 18 568 | (70.9) (81.2) - (93.8) (93.8) (91.0) - (38.2) (54.2) (0.0) (80.7) (18.1) (85.9) - (94.2) | - | - | 1241 625 0 1 2 24035 0 3 3 4 416 167 - 5 054 | (35.1) - (1.7) (1.5) (46.2) (0.0) (1.4) (1.4) - (1.4) (75.5) (3.2) - (27.2) | - | Y Y Y Y Y Y N N Y N N Y N Y N Y N Y N Y |
| Moidova Monaco Montenegro North Macedonia Russia San Marino Serbia Serbia excluding Kosovoe Kosovoe Switzerland Tajikistan Turkey Turkmenistan Ukraine Uzbekistan | NRL-TME NRL-TME - NRL-TME NRL-TME NRL-TME NRL-TME NRL-TME NRL-TME NRL-TME NRL-TME | National Subnational National National | 3875 2197 - 64 146 57187 0 790 557 233 342 3037 5995 - 19705 6841 | - | 2 747 1783 - 60 137 52 048 0 302 302 0 276 551 5 152 - 18 568 6 841 | (70.9) (81.2) - (93.8) (93.8) (91.0) - (38.2) (54.2) (0.0) (80.7) (18.5) - (94.2) (100.0) | - | - | 1 241 625 0 1 2 24 035 0 3 3 4 416 167 - 5 054 816 | (35.1) - (1.7) (1.5) (46.2) (0.0) (1.4) (1.4) - (1.4) (75.5) (3.2) - (27.2) (11.9) | - | Y Y Y Y Y Y N N N Y N N N N N N N N N N |
| Moidova Monaco Montenegro North Macedonia Russia San Marino Serbia Serbia excluding Kosovoe Kosovoe Switzerland Tajikistan Turkey Turkmenistan Ukraine | NRL-TME NRL-TME - NRL-TME | National Subnational National National National National | 3875 2197 - 64 146 57187 0 790 557 233 342 3037 5995 - 19705 | - | 2 747 1783 - 60 137 52 048 0 302 302 0 276 551 5 152 - 18 568 | (70.9) (81.2) - (93.8) (93.8) (91.0) - (38.2) (54.2) (0.0) (80.7) (18.1) (85.9) - (94.2) | - | - | 1241 625 0 1 2 24035 0 3 3 4 416 167 - 5 054 | (35.1) - (1.7) (1.5) (46.2) (0.0) (1.4) (1.4) - (1.4) (75.5) (3.2) - (27.2) | - | Y Y Y Y Y Y N N Y N N Y N Y N Y N Y N Y |

'European Region' comprises the 53 countries of the WHO European Region and

'European Region' comprises the 53 countries of the WHO European Region and Liechtenstein.
WHO European Region 18 tuberculosis high-priority countries presented in italics. The resistance pattern at the initiation of treatment is reported to TESSy irrespective of the method used for drug susceptibility testing or resistance prediction.
DST- drug susceptibility testing.
HPC- high-priority countries.
INH- Isonaizid.
NRL- national reference laboratory.
RIF- rifampicin.
TESSy - the European surveillance system.
TME- The WHO global tuberculosis data collection system.
*Bacteriologically confirmed cases – cases with positive identification for Mycobacterium tuberculosis complex confirmed by culture and/or line probe assay for non-EU/EEA countries: cases with positive identification for Mycobacterium tuberculosis complex confirmed by culture and/or line probe assay.

- b For non-EU/EEA countries, any resistance to isoniazid, rifampicin, ethambutol or streptomycin expressed as a percentage of cases with DST results available for at least isoniazid and rifampicin. No routine testing for ethambutol and streptomycin in all countries. For EU/EEA countries, cases with DST results for at least RIF and INH that have any resistance to isoniazid, rifampicin, ethambutol, streptomycin, ciprofloxacin, gatifloxacin, levofloxacin, moxifloxacin, ofloxacin, amikacin, capreomycin, kanamycin or pyrazinamide expressed as a percentage of cases with DST results available for at least isoniazid and rifampicin.

 **Data are considered complete when national coverage is 100% OR culture results are available for 90% of all cases, and 50% of all cases are culture-positive, and 75% of them have DST results, and EQA results have been accurate in 95% of samples of reported year.
- d Laboratory-related data from Italy are reported by NRL and may differ from data shown
- elsewhere in this report.

 *This designation is without prejudice to positions on status, and is in line with UN Security Council Resolution 1244 and the International Court of Justice Opinion of Kosovo Declaration of Independence.

Table 12. Drug resistance surveillance of bacteriologically confirmed pulmonary tuberculosis cases by previous tuberculosis treatment history, European Region, 2018

| | | | | New | | | | | | | Pr | reviously t | reated | | | |
|-----------------------------|-----------------|-----------|----------------|------------------|-----------------|---|--------------------|--------------------|-----------------|---|-----------------|------------------|---|-------------------------|--------|-------------------------|
| Country/area | Cases w resi | | MDR-tub cas | | confi pulmoi | logically rmed nary TB ses | pulm tuberculos | onary sis cases | Cases w resi | rith DST ults | MDR-tube cas | | bacterio confi pulmo tubero cas | rmed onary ulosis | tubero | nonary ulosis ses |
| | N | (%)° | N | (%) ^d | N | (%)° | N | (%) ^f | N | (%)° | N | (%) ^d | N | (%)° | N | (%) ^f |
| EU/EEA | | | | | | | | | | | | | | | | |
| Austria | 208 | (95.9) | 10 | (4.8) | 217 | (83.8) | 259 | (91.8) | 14 | (87.5) | 3 | (21.4) | 16 | (69.6) | 23 | (8.2) |
| Belgium ^k | 427 | (96.4) | 5 | (1.2) | 443 | (78.7) | 563 | (91.1) | 34 | (94.4) | 1 | (2.9) | 36 | (65.5) | 55 | (8.9) |
| Bulgaria | 464 | (89.7) | 10 | (2.2) | 517 | (57.5) | 899 | (84.6) | 72 | (90.0) | 14 | (19.4) | 80 | (48.8) | 164 | (15.4) |
| Croatia | 224 | (92.9) | 1 | (0.4) | 241 | (92.7) | 260 | (90.9) | 16 | (88.9) | 1 | (6.3) | 18 | (69.2) | 26 | (9.1) |
| | | | | | | | | | | | | | | | | |
| Cyprus | 33 | (100.0) | 0 | (0.0) | 33 | (89.2) | 37 | (92.5) | 1 | (100.0) | 0 | (0.0) | 1 | (33.3) | 3 | (7.5) |
| Czech Republic | 278 | (92.1) | 10 | (3.6) | 302 | (82.3) | 367 | (92.4) | 19 | (82.6) | 0 | (0.0) | 23 | (76.7) | 30 | (7.6) |
| Denmark ^k | 160 | (99.4) | 4 | (2.5) | 161 | (78.2) | 206 | (93.2) | 13 | (100.0) | 0 | (0.0) | 13 | (86.7) | 15 | (6.8) |
| Estonia | 100 | (98.0) | 22 | (22.0) | 102 | (89.5) | 114 | (82.6) | 18 | (94.7) | 8 | (44.4) | 19 | (79.2) | 24 | (17.4) |
| Finland | 127 | (96.2) | 4 | (3.1) | 132 | (88.0) | 150 | (98.7) | 0 | (0.0) | 0 | - | 1 | (50.0) | 2 | (1.3) |
| France | 21 | (2.6) | 21 | (100.0) | 794 | (44.8) | 1771 | (88.3) | 16 | (13.2) | 16 | (100.0) | 121 | (51.5) | 235 | (11.7) |
| Germany | 2 044 | (92.8) | 55 | (2.7) | 2 203 | (83.0) | 2 655 | (91.4) | 129 | (81.6) | 23 | (17.8) | 158 | (63.2) | 250 | (8.6) |
| Greece | 115 | (68.9) | 4 | (3.5) | 167 | (56.4) | 296 | (89.4) | 7 | (58.3) | 0 | (0.0) | 12 | (34.3) | 35 | (10.6) |
| Hungary | 291 | (90.9) | 8 | (2.7) | 320 | (57.8) | 554 | (89.2) | 34 | (81.0) | 4 | (11.8) | 42 | (62.7) | 67 | (10.8) |
| Iceland | 2 | (100.0) | 0 | (0.0) | 2 | (40.0) | 5 | (100.0) | 0 | - | 0 | - | 0 | | 0 | (0.0) |
| Ireland ^k | 95 | (88.8) | 3 | (3.2) | 107 | (82.9) | 129 | (90.8) | 7 | (100.0) | 0 | (0.0) | 7 | (53.8) | 13 | (9.2) |
| | | | - | | | | | | | | | | | | | |
| Italy | 1744 | (103.7) | 32 | (1.8) | 1682 | (63.1) | 2 667 | (96.9) | 67 | (78.8) | 10 | (14.9) | 85 | (100.0) | 85 | (3.1) |
| Latvia | - | - (*** *) | - | - | - | - (*** *) | - | - (122.2) | - | - | - | - | - | - | - | - |
| Liechtenstein | 1 | (100.0) | 0 | (0.0) | 1 | (100.0) | 1 | (100.0) | 0 | - | 0 | - | 0 | - | 0 | (0.0) |
| Lithuania | 751 | (100.0) | 88 | (11.7) | 751 | (88.7) | 847 | (79.5) | 218 | (100.0) | 82 | (37.6) | 218 | (100.0) | 218 | (20.5) |
| Luxembourg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Malta | 27 | (100.0) | 0 | (0.0) | 27 | (75.0) | 36 | (100.0) | 0 | - | 0 | - | 0 | - | 0 | (0.0) |
| Netherlands | 326 | (89.8) | 3 | (0.9) | 363 | (83.1) | 437 | (94.6) | 14 | (87.5) | 0 | (0.0) | 16 | (64.0) | 25 | (5.4) |
| Norway ^k | 100 | (100.0) | 4 | (4.0) | 100 | (87.7) | 114 | (90.5) | 8 | (72.7) | 0 | (0.0) | 11 | (91.7) | 12 | (9.5) |
| Poland | 3 196 | (92.6) | 31 | (1.0) | 3 451 | (74.8) | 4 616 | (88.0) | 443 | (91.5) | 15 | (3.4) | 484 | (77.1) | 628 | (12.0) |
| | | (72.7) | 6 | (0.7) | | (82.9) | | | 38 | | | | | | | (5.0) |
| Portugal | 853 | | | | 1,174 | | 1 416 | (95.0) | | (63.3) | 1 | (2.6) | 60 | (80.0) | 75 | |
| Romania | 5 940 | (92.5) | 117 | (2.0) | 6 419 | (79.2) | 8 102 | (77.8) | 1,811 | (92.9) | 230 | (12.7) | 1 949 | (84.2) | 2,314 | (22.2) |
| Slovakia | 116 | (98.3) | 0 | (0.0) | 118 | (57.3) | 206 | (89.2) | 15 | (100.0) | 2 | (13.3) | 15 | (60.0) | 25 | (10.8) |
| Slovenia | 70 | (100.0) | 0 | (0.0) | 70 | (97.2) | 72 | (87.8) | 8 | (100.0) | 0 | (0.0) | 8 | (80.0) | 10 | (12.2) |
| Spain | 808 | (49.5) | 11 | (1.4) | 1632 | (79.2) | 2,061 | (94.7) | 47 | (58.8) | 3 | (6.4) | 80 | (69.6) | 115 | (5.3) |
| Sweden | 278 | (100.0) | 5 | (1.8) | 278 | (87.7) | 317 | (95.8) | 11 | (100.0) | 2 | (18.2) | 11 | (78.6) | 14 | (4.2) |
| United Kingdom ^k | 1 919 | (98.6) | 17 | (0.9) | 1947 | (74.3) | 2,620 | (92.9) | 150 | (98.0) | 7 | (4.7) | 153 | (76.1) | 201 | (7.1) |
| Subtotal EU/EEA | 20 718 | (87.2) | 471 | (2.3) | 23 754 | (74.8) | 31777 | (87.2) | 3 210 | (88.3) | 422 | (13.1) | 3 637 | (78.0) | 4 664 | (12.8) |
| Non-EU/EEA | | 1-1-7 | | V | | (1 I I I | | Variable A | | 1 | - | 12.7 | | Vi i i i | | |
| Albania | 59 | (29.8) | 1 | (1.7) | 198 | (62.7) | 316 | - | 4 | (40.0) | 1 | (25.0) | 10 | - | _ | - |
| Andorra | 1 | (50.0) | 0 | (0.0) | 2 | (100.0) | 2 | - | 0 | (0.0) | 0 | (23.0) | 0 | - | - | _ |
| | | | | | | | | _ | | | | (40.2) | | _ | _ | _ |
| Armenia | 250 | (98.4) | 43 | (17.2) | 254 | (54.2) | 469 | | 82 | (78.8) | 33 | (40.2) | 104 | | | |
| Azerbaijan | 1904 | (95.8) | 160 | (8.4) | 1988 | (69.5) | 2 859 | - | 2 522 | (88.9) | 478 | (19.0) | 2 836 | - | - | - |
| Belarus | 1 529 | (100.0) | 559 | (36.6) | 1 529 | (90.8) | 1 683 | - | 612 | (100.0) | 425 | (69.4) | 612 | - | - | - |
| Bosnia and Herzegovina | 2 | (0.5) | 0 | (0.0) | 410 | (74.3) | 552 | - | 0 | (0.0) | 0 | (0.0) | 38 | - | - | - |
| Georgia | 810 | (60.0) | 93 | (11.5) | 1 349 | (88.3) | 1 527 | - | 222 | (43.3) | 74 | (33.3) | 513 | - | - | - |
| Israel | 154 | (100.0) | 13 | (8.4) | 154 | (71.0) | 217 | - | 6 | (100.0) | 0 | (0.0) | 6 | - | - | - |
| Kazakhstan | 2 717 | (40.4) | 435 | (16.0) | 6719 | (85.6) | 7 848 | - | 2 689 | (66.3) | 1 027 | (38.2) | 4 055 | - | - | - |
| Kyrgyzstan | 1 722 | (67.5) | 523 | (30.4) | 2 550 | (64.0) | 3 985 | - | 1 025 | (77.4) | 718 | (70.0) | 1 325 | - | - | _ |
| Moldova | 1264 | (87.4) | 309 | (24.4) | 1 446 | (66.1) | 2 189 | _ | 519 | (69.1) | 316 | (60.9) | 751 | _ | _ | _ |
| | | | | | | (00.1) | | | | (07.1) | | | | | | |
| Monaco | - 57 | (02.4) | - | - (0.0) | - (1 | | - 71 | - | - | (100.0) | - | (22.2) | - | - | - | - |
| Montenegro | 57 | (93.4) | 0 | (0.0) | 61 | (85.9) | 71 | - | 3 | (100.0) | 1 | (33.3) | 3 | - | - | - |
| North Macedonia | 128 | (94.8) | 2 | (1.6) | 135 | (90.0) | 150 | - | 9 | (81.8) | 0 | (0.0) | 11 | - | - | - |
| Russia | 27 960 | (88.1) | 8 880 | (31.8) | 31 732 | (53.3) | 59 504 | - | 24 088 | (94.6) | 15 155 | (62.9) | 25 455 | - | - | - |
| San Marino | 0 | - | 0 | - | 0 | | 0 | - | 0 | | 0 | (0.0) | 0 | - | - | - |
| Serbia | 275 | (39.1) | 2 | (0.7) | 703 | (71.2) | 987 | - | 27 | (31.4) | 1 | (3.7) | 86 | - | - | - |
| Serbia excluding Kosovol | 275 | (56.2) | 2 | (0.0) | 489 | (95.1) | 514 | _ | 27 | (39.7) | 1 | (3.7) | 68 | - | - | - |
| Kosovo ^l | 0 | (0.0) | 0 | (0.0) | 214 | (45.2) | 473 | - | 0 | (0.0) | 0 | (0.0) | 18 | - | - | _ |
| Switzerland | 261 | (92.6) | 3 | (1.1) | 282 | (83.7) | 337 | - | 15 | (60.0) | 1 | (6.7) | 25 | _ | - | _ |
| | | | | | | | | | | | | | | _ | | |
| Tajikistan | 407 | (16.4) | 296 | (72.7) | 2 487 | (68.1) | 3 651 | - | 144 | (26.2) | 120 | (83.3) | 550 | | - | - |
| Turkey | 4 711 | (86.2) | 123 | (2.6) | 5 465 | (77.3) | 7 069 | - | 441 | (83.2) | 44 | (10.0) | 530 | - | - | - |
| Turkmenistan | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ukraine | 12 349 | (95.5) | 2 755 | (22.3) | 12 931 | (66.9) | 19 318 | - | 6 219 | (91.8) | 2 299 | (37.0) | 6 774 | - | - | - |
| Uzbekistan | 4 828 | (100.0) | 392 | (8.1) | 4 828 | (54.7) | 8 831 | - | 2 013 | (100.0) | 424 | (21.1) | 2 013 | - | - | - |
| Subtotal non-EU/EEA | 61 388 | (81.6) | 14 589 | (23.8) | 75 223 | (61.9) | 121 565 | - | 40 640 | (88.9) | 21 117 | (52.0) | 45 697 | - | - | - |
| Total European Region | 82 106 | (83.0) | 15 060 | (18.3) | 98 977 | (64.5) | | - | 43 850 | (88.9) | 21 539 | (49.1) | 49 334 | - | - | - |
| | | | | , | | 4 9 | | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | / | 1 | | | |

^{&#}x27;European Region' comprises the 53 countries of the WHO European Region and Liechtenstein.

WHO European Region 18 tuberculosis high-priority countries presented in italics.

The resistance pattern at the initiation of treatment is reported to TESSy irrespective of the method used for drug susceptibility testing or resistance prediction.

DST - drug susceptibility testing.

HPC - high-priority countries.

MDR TB - multidrug-resistant tuberculosis.

Bacteriologically confirmed cases - cases with positive identification for *Mycobacterium tuberculosis* complex confirmed by culture and/or line probe assay for non-EU/EEA countries.

For EU/EEA countries: culture-positive OR microscopy-positive and nucleic acid amplification test-positive cases.

Pulmonary tuberculosis cases with unknown previous treatment are excluded.

| | | | Total | ь | | | | |
|--------------------------------------|--|---------------------------------|--------------------------------|--|-------------------------------------|-------------|--------------------------|---|
| Cases w resi | | | berculosis ases | Al bacteriol confii pulmo tuberci cas | ogically rmed onary ulosis | tubero | monary culosis ses | Country/area |
| N | (%) ⁸ | N | (%) ^h | N | (%) ⁱ | N | (%) ^j | |
| | | | | | | | | EU/EEA |
| 222 | (95.3) | 13 | (5.9) | 233 | (82.6) | 282 | (58.5) | Austria |
| 461 | (96.2) | 6 | (1.3) | 479 | (77.5) | 618 | (63.0) | Belgium ^k |
| 536 | (89.8) | 24 | (4.5) | 597 | (56.2) | 1063 | (78.3) | Bulgaria |
| 240 | (92.7) | 2 | (0.8) | 259 | (90.6) | 286 | (76.9) | Croatia |
| 34 | (100.0) | 0 | (0.0) | 34 | (85.0) | 40 | (76.9) | Cyprus |
| 297 | (91.4) | 10 | (3.4) | 325 | (81.9) | 397 | (89.4) | Czech Republic |
| 173 | (99.4) | 4 | (2.3) | 174 | (78.7) | 221 | (75.9) | Denmark ^k |
| 118 | (97.5) | 30 | (25.4) | 121 | (87.7) | 138 | (93.9) | Estonia |
| 127 | (95.5) | 4 | (3.1) | 133 | (87.5) | 152 | (66.1) | Finland |
| 37 | (4.0) | 37 | (100.0) | 915 | (45.6) | 2 0 0 6 | (39.4) | France |
| 2 173 | (92.0) | 78 | (3.6) | 2 361 | (81.3) | 2 905 | (53.5) | Germany |
| 122 | (68.2) | 4 | (3.3) | 179 | (54.1) | 331 | (76.6) | Greece |
| 325 | (89.8) | 12 | (3.7) | 362 | (58.3) | 621 | (97.0) | Hungary |
| 2 | (100.0) | 0 | (0.0) | 2 | (40.0) | 5 | (62.5) | Iceland |
| 102 | (89.5) | 3 | (2.9) | 114 | (80.3) | 142 | (45.2) | Ireland ^k |
| 1 811 | (102.5) | 42 | (2.3) | 1767 | (64.2) | 2 752 | (70.3) | Italy |
| - | - | - | - | - | - | - | - | Latvia |
| 1 | (100.0) | 0 | (0.0) | 1 | (100.0) | 1 | (100.0) | Liechtenstein |
| 969 | (100.0) | 170 | (17.5) | 969 | (91.0) | 1,065 | (93.3) | Lithuania |
| - | - | - | - | - | - | - | - | Luxembourg |
| 27 | (100.0) | 0 | (0.0) | 27 | (75.0) | 36 | (65.5) | Malta |
| 340 | (89.7) | 3 | (0.9) | 379 | (82.0) | 462 | (57.3) | Netherlands |
| 108 | (97.3) | 4 | (3.7) | 111 | (88.1) | 126 | (60.3) | Norway ^k |
| 3 639 | (92.5) | 46 | (1.3) | 3 935 | (75.0) | 5 244 | (95.6) | Poland |
| 891 | (72.2) | 7 | (0.8) | 1234 | (82.8) | 1 491 | (69.8) | Portugal |
| 7 751 | (92.6) | 347 | (4.5) | 8 368 | (80.3) | 10 416 | (85.3) | Romania |
| 131 | (98.5) | 2 | (1.5) | 133 | (57.6) | 231 | (82.2) | Slovakia |
| 78 | (100.0) | 0 | (0.0) | 78 | (95.1) | 82 | (82.8) | Slovenia |
| 855 | (49.9) | 14 | (1.6) | 1 712 | (78.7) | 2 176 | (46.8) | Spain |
| 289 | (100.0) | 7 | (2.4) | 289 | (87.3) | 331 | (67.4) | Sweden |
| 2 069 | (98.5) | 24 | (1.2) | 2 100 | (74.4) | 2 821 | (55.6) | United Kingdom ^k |
| 23 928 | (87.4) | 893 | (3.7) | 27 391 | (75.2) | 36 441 | (69.0) | Subtotal EU/EEA |
| - 10 | (2.2.2) | | (2.2) | | | | | Non-EU/EEA |
| 63 | (30.3) | 2 | (3.2) | 208 | - | - | - | Albania |
| 1 | (50.0) | 0 | (0.0) | 2 | - | - | - | Andorra |
| 332 | (92.7) | 76 | (22.9) | 358 | - | - | - | Armenia |
| 4 426 | (91.7) | 638 | (14.4) | 4 824 | - | - | - | Azerbaijan |
| 2 141 | (100.0) | 984 | (46.0) | 2 141 | - | - | - | Belarus |
| 2 | (0.4) | 0 | (0.0) | 448 | - | - | - | Bosnia and Herzegovina |
| 1 032 | (55.4) | 167 | (16.2) | 1 862 | - | - | - | Georgia |
| 160 | (100.0) | 13 | (8.1) | 160 | - | - | - | Israel |
| 5 406 | (50.2) | 1 462 | (27.0) | 10 774 | _ | _ | - | Kazakhstan |
| 2 747 | (70.9) | 1 241 | (45.2) | 3 875 | _ | _ | - | Kyrgyzstan |
| 1783 | (81.2) | 625 | (35.1) | 2 197 | - | - | - | Monaco |
| - 60 | (02.0) | - 1 | - (1.7) | - 6/1 | _ | _ | - | Monaco Montenegro |
| 60 137 | (93.8) (93.8) | 1 2 | (1.7) (1.5) | 64 146 | - | - | _ | North Macedonia |
| 52 048 | (93.8) | | | 57 187 | _ | _ | _ | Russia |
| J2 U40 | (91.0) | 24 035 0 | (46.2) (0.0) | 0 | _ | _ | _ | San Marino |
| 202 | | | | | _ | _ | _ | Serbia |
| 302 302 | (38.3) | 3 | (1.0) (0.0) | 789 557 | _ | _ | - | Serbia excluding Kosovo ¹ |
| 0 | (54.2) (0.0) | 0 | - | 232 | _ | _ | _ | Kosovo ^l |
| U | | 4 | (1.4) | 307 | _ | _ | _ | Switzerland |
| 276 | | | (1,4) | | | _ | _ | Tajikistan |
| 276 551 | (89.9) (18.1) | | (75.5) | 3 /127 | | | | |
| 551 | (18.1) | 416 | (75.5) (3.2) | 3 037 5 995 | _ | | | , |
| 551 5 152 | (18.1) (85.9) | 416 167 | (3.2) | 5 995 | - | - | - | Turkey |
| 551 5 152 - | (18.1) (85.9) | 416 167 - | (3.2) | 5 995 - | - | - | - | Turkey Turkmenistan |
| 551 5 152 - 18 568 | (18.1) (85.9) - (94.2) | 416 167 - 5 054 | (3.2) - (27.2) | 5 995 - 19 705 | - - - | - - - | - - - | Turkey Turkmenistan Ukraine |
| 551 5 152 - 18 568 6 841 | (18.1) (85.9) - (94.2) (100.0) | 416 167 - 5 054 816 | (3.2) - (27.2) (11.9) | 5 995 - 19 705 6 841 | - - - | - | - | Turkey Turkmenistan Ukraine Uzbekistan |
| 551 5 152 - 18 568 | (18.1) (85.9) - (94.2) | 416 167 - 5 054 | (3.2) - (27.2) | 5 995 - 19 705 | - - - | - - - | - - - | Turkey Turkmenistan Ukraine |

Proportion of bacteriologically confirmed pulmonary tuberculosis cases with DST results with the respective previous tuberculosis treatment history.

Proportion of bacteriologically confirmed pulmonary tuberculosis cases with DST results and the respective previous tuberculosis treatment history.

Proportion of all pulmonary tuberculosis cases. For EU/EEA, excluding the cases with unknown previous tuberculosis treatment history.

Proportion of all bacteriologically confirmed pulmonary tuberculosis cases with DST results. For EU/EEA, excluding the cases with unknown previous tuberculosis treatment history.

Proportion of all pulmonary tuberculosis cases with DST results. For EU/EEA, excluding the cases with unknown previous tuberculosis treatment history.

Proportion of all pulmonary tuberculosis cases. For EU/EEA, excluding the cases with unknown previous tuberculosis treatment history.

Proportion of all pulmonary tuberculosis cases.

Previous tuberculosis history is defined by previous diagnosis.

This designation is without prejudice to positions on status, and is in line with UN Security Council Resolution 1244 and the International Court of Justice Opinion on the Kosovo Declaration of Independence.

Table 13. Drug resistance in all laboratory-confirmed tuberculosis cases, EU/EEA, 2018

| Country | Source of data | Coverage | Laboratory- tuberculos | | Cases with D (at leas | t INH | Cases res any anti-tu dru | berculosis | Multidrug tuberculo | -resistant sis cases | Reporting completeness |
|----------------|----------------|----------|---------------------------|---------|--------------------------|---------|---------------------------------|------------|------------------------|-------------------------|---------------------------|
| | | | N | (%) | N | (%) | N | (%) | N | (%) | completeness |
| EU/EEA | | | | | | | | | | | |
| Austria | TESSy | National | 365 | (75.7) | 349 | (95.6) | 48 | (13.8) | 18 | (5.2) | Υ |
| Belgium | TESSy | National | 730 | (74.4) | 695 | (95.2) | 47 | (6.8) | 7 | (1.0) | Υ |
| Bulgaria | TESSy | National | 618 | (45.5) | 551 | (89.2) | 63 | (11.4) | 24 | (4.4) | Υ |
| Croatia | TESSy | National | 325 | (87.4) | 295 | (90.8) | 4 | (1.4) | 2 | (0.7) | Υ |
| Cyprus | TESSy | National | 40 | (76.9) | 39 | (97.5) | 4 | (10.3) | | (0.0) | Υ |
| Czech Republic | TESSy | National | 361 | (81.3) | 327 | (90.6) | 33 | (10.1) | 12 | (3.7) | Υ |
| Denmark | TESSy | National | 221 | (75.9) | 218 | (98.6) | 10 | (4.6) | 4 | (1.8) | Υ |
| Estonia | TESSy | National | 125 | (85.0) | 122 | (97.6) | 46 | (37.7) | 30 | (24.6) | Υ |
| Finland | TESSy | National | 194 | (84.3) | 182 | (93.8) | 12 | (6.6) | 4 | (2.2) | Υ |
| France | TESSy | National | 2 234 | (43.9) | 82 | (3.7) | 82 | (100.0) | 82 | (100.0) | - |
| Germany | TESSy | National | 4 127 | (76.0) | 3 731 | (90.4) | 488 | (13.1) | 116 | (3.1) | Υ |
| Greece | TESSy | National | 225 | (52.1) | 154 | (68.4) | 19 | (12.3) | 5 | (3.2) | Υ |
| Hungary | TESSy | National | 367 | (57.3) | 330 | (89.9) | 40 | (12.1) | 12 | (3.6) | Υ |
| Iceland | TESSy | National | 2 | (25.0) | 2 | (100.0) | 1 | (50.0) | 0 | (0.0) | Υ |
| Ireland | TESSy | National | 228 | (72.6) | 205 | (89.9) | 26 | (12.7) | 5 | (2.4) | Υ |
| Italy | - | - | - | - | - | - | - | - | - | - | N |
| Latvia | - | - | - | - | - | - | - | - | - | - | N |
| Liechtenstein | TESSy | National | 1 | (100.0) | 1 | (100.0) | 0 | (0.0) | 0 | (0.0) | Υ |
| Lithuania | TESSy | National | 992 | (86.9) | 992 | (100.0) | 316 | (31.9) | 170 | (17.1) | Υ |
| Luxembourg | TESSy | National | 35 | (83.3) | 35 | (100.0) | 2 | (5.7) | 1 | (2.9) | Υ |
| Malta | TESSy | National | 34 | (61.8) | 32 | (94.1) | 1 | (3.1) | 0 | (0.0) | Υ |
| Netherlands | TESSy | National | 560 | (69.5) | 500 | (89.3) | 49 | (9.8) | 6 | (1.2) | Υ |
| Norway | TESSy | National | 170 | (81.3) | 167 | (98.2) | 20 | (12.0) | 4 | (2.4) | Υ |
| Poland | TESSy | National | 4 075 | (74.3) | 3 764 | (92.4) | 258 | (6.9) | 48 | (1.3) | Υ |
| Portugal | TESSy | National | 1 527 | (71.5) | 1066 | (69.8) | 140 | (13.1) | 10 | (0.9) | Υ |
| Romania | TESSy | National | 8 720 | (71.4) | 8 042 | (92.2) | 742 | (9.2) | 354 | (4.4) | Υ |
| Slovakia | TESSy | National | 146 | (52.0) | 144 | (98.6) | 3 | (2.1) | 2 | (1.4) | Υ |
| Slovenia | TESSy | National | 92 | (92.9) | 92 | (100.0) | 3 | (3.3) | - | (0.0) | Υ |
| Spain | TESSy | National | 3 250 | (69.9) | 1258 | (38.7) | 179 | (14.2) | 33 | (2.6) | Υ |
| Sweden | TESSy | National | 408 | (83.1) | 407 | (99.8) | 71 | (17.4) | 13 | (3.2) | Υ |
| United Kingdom | TESSy | National | 3 147 | (62.0) | 3 099 | (98.5) | 383 | (12.4) | 37 | (1.2) | Υ |
| Total EU/EEA | | | 33 319 | (63.0) | 26 881 | (80.7) | | (11.5) | 999 | (3.7) | |

WHO European Region 18 tuberculosis high-priority countries presented in italics.
The resistance pattern at the initiation of treatment is reported to TESSy irrespective of the method used for drug susceptibility testing or resistance prediction.
DST - drug susceptibility testing.
INH - isoniazid.
NRL - national reference laboratory.
RIF - rifampicin.
TESSy - The European Surveillance System.
TME - The WHO global tuberculosis data collection system.
¹ Laboratory-confirmed cases − culture-positive OR microscopy-positive and nucleic acid amplification test-positive cases.
¹ Cases with DST results for at least RIF and INH that have any resistance to isoniazid, rifampicin, ethambutol, streptomycin, ciprofloxacin, gatifloxacin, levofloxacin, moxifloxacin, amikacin, capreomycin, kanamycin or pyrazinamide expressed as a percentage of cases with DST results available for at least isoniazid and rifampicin.
¹ Data considered complete when collected nationwide OR culture results available for ≥90% of all cases, and ≥50% of all cases culture-positive, and >75% of them with DST results for isoniazid and rifampicin, and ≥95% of the external quality assessment (EQA) results confirmed by a supranational reference laboratory.

Table 14. Extensively drug-resistance tuberculosis cases among bacteriologically-confirmed pulmonary multi-drug resistant tuberculosis cases, European Region, 2018

| Country/area | Source of data | Coverage | Bacteriol confirmed p MDR tube case | oulmonary erculosis | for fluoroqu | inolone econd-line | XDR tubercu | ılosis cases | Reporting completeness ^b |
|--------------------------------------|----------------|------------|--|----------------------------|-------------------------|-----------------------|----------------|---------------------------|-------------------------------------|
| | | | N | (%) | N | (%) | N | (%) | |
| EU/EEA | | | | | | | | | |
| Austria | TESSy | National | 15 | (5.3) | 15 | (100.0) | 0 | (0.0) | Υ |
| Belgium | TESSy | National | 7 | (1.3) | 7 | (100.0) | 3 | (42.9) | Υ |
| Bulgaria | TESSy | National | 24 | (4.5) | 24 | (100.0) | 0 | (0.0) | Υ |
| Croatia | TESSy | National | 2 | (0.8) | 1 | (50.0) | 0 | (0.0) | Υ |
| Cyprus | TESSy | National | 0 | (0.0) | 0 | - | 0 | - | Υ |
| Czech Republic | TESSy | National | 10 | (3.4) | 10 | (100.0) | 0 | (0.0) | Υ |
| Denmark | TESSy | National | 4 | (2.3) | 4 | (100.0) | 0 | (0.0) | Υ |
| Estonia | TESSy | National | 30 | (25.4) | 30 | (100.0) | 8 | (26.7) | Ϋ́ |
| Finland | TESSy | National | 4 | (3.1) | 4 | (100.0) | 1 | (25.0) | Y |
| France | TESSy | National | 66 | (100.0) | 61 | (92.4) | 8 | (13.1) | Υ |
| Germany | TESSy | National | 98 | (3.4) | 75 | (76.5) | 8 | (10.7) | Υ |
| Greece | TESSy | National | 5 | (3.7) | 5 | (100.0) | 1 | (20.0) | Y |
| | | | | | 11 | | 3 | | Y |
| Hungary | TESSy | National | 12 | (3.7) | | (91.7) | | (27.3) | |
| Iceland | TESSy | National | 0 | (0.0) | 0 | (100.0) | 0 | - (0,0) | Υ |
| Ireland | TESSy | National | 4 | (2.6) | 4 | (100.0) | 0 | (0.0) | Υ |
| Italy | NRL-TME | Partial | 42 | (2.3) | 37 | (88.1) | 4 | (10.8) | N |
| Latvia | - | - | - | - | - | - | - | - | N |
| Liechtenstein | TESSy | National | 0 | (0.0) | 0 | - | 0 | - | Υ |
| Lithuania | TESSy | National | 170 | (17.5) | 170 | (100.0) | 58 | (34.1) | Υ |
| Luxembourg | TESSy | National | 1 | (3.4) | 0 | (0.0) | 0 | - | Υ |
| Malta | TESSy | National | 0 | (0.0) | 0 | - | 0 | - | Υ |
| Netherlands | TESSy | National | 3 | (0.9) | 3 | (100.0) | 1 | (33.3) | Υ |
| Norway | TESSy | National | 4 | (3.7) | 4 | (100.0) | 0 | (0.0) | Υ |
| Poland | TESSy | National | 46 | (1.3) | 41 | (89.1) | 12 | (29.3) | Υ |
| Portugal | TESSy | National | 7 | (0.7) | 1 | (14.3) | 0 | (0.0) | Υ |
| Romania | TESSy | National | 347 | (4.5) | 223 | (64.3) | 46 | (20.6) | Υ |
| Slovakia | TESSy | National | 2 | (1.5) | 2 | (100.0) | 0 | (0.0) | Y |
| Slovenia | TESSy | National | 0 | (0.0) | 0 | - | 0 | - | Y |
| Spain | TESSy | National | 28 | (2.8) | 22 | (78.6) | 3 | (13.6) | Y |
| Sweden | TESSy | National | 7 | (2.4) | 7 | (100.0) | 0 | (0.0) | Y |
| United Kingdom | TESSy | National | 25 | (1.2) | 20 | (80.0) | 3 | (15.0) | Y |
| Subtotal EU/EEA | TLJJy | Nationat | 963 | (63.0) | (3.8) | 781 | 159 | (20.4) | ' |
| Non EU | | | 703 | (03.0) | (3.6) | /01 | 137 | (20.4) | |
| Albania | NRL-TME | NATIONAL | | (2.2) | | (0.0) | _ | _ | N |
| | | | 2 | (3.2) | 0 | (0.0) | | _ | |
| Andorra | NRL-TME | NATIONAL | 0 | (0.0) | - | - | - | - | N |
| Armenia | NRL-TME | NATIONAL | 76 | (22.9) | 76 | (100.0) | 14 | (18.4) | Υ |
| Azerbaijan | NRL-TME | NATIONAL | 638 | (14.4) | 864 | (135.4) | 77 | (8.9) | Υ |
| Belarus | NRL-TME | NATIONAL | 984 | (46.0) | 984 | (100.0) | 185 | (18.8) | Υ |
| Bosnia and Herzegovina | NRL-TME | NATIONAL | 0 | (0.0) | - | - | - | - | N |
| Georgia | NRL-TME | NATIONAL | 167 | (16.2) | 159 | (95.2) | 34 | (21.4) | N |
| Israel | NRL-TME | NATIONAL | 13 | (8.1) | 13 | (100.0) | 7 | (53.8) | Υ |
| Kazakhstan | NRL-TME | NATIONAL | 1 462 | (27.0) | - | - | - | - | N |
| Kyrgyzstan | NRL-TME | NATIONAL | 1 241 | (45.2) | 926 | (74.6) | 119 | (12.9) | N |
| Moldova | NRL-TME | NATIONAL | 625 | (35.1) | 616 | (98.6) | 74 | (12.0) | Υ |
| Monaco | - | - | 0 | - | - | - | - | - | Υ |
| Montenegro | NRL-TME | NATIONAL | 1 | (1.7) | 1 | (100.0) | 0 | (0.0) | Υ |
| North Macedonia | NRL-TME | NATIONAL | 2 | (1.5) | 0 | | 0 | | Υ |
| Russia | NRL-TME | NATIONAL | 24 035 | (46.2) | 23 997 | (99.8) | 4 970 | (20.7) | Υ |
| San Marino | - | NATIONAL | 0 | - | - | - | - | | Υ |
| Serbia | NRL-TME | NATIONAL | 3 | (1.0) | 0 | (0.0) | - | - | N N |
| Serbia excluding Kosovo ^c | NRL-TME | NATIONAL | 3 | (0.0) | 0 | (0.0) | - | _ | у |
| Kosovo ^c | NRL-TME | NATIONAL | 0 | (0.0) | _ | (0.0) | _ | _ | N |
| Switzerland | NRL-TME | NATIONAL | 4 | (1.4) | 4 | (100.0) | 1 | (25.0) | Y |
| Tajikistan | NRL-TME | NATIONAL | 416 | (75.5) | | (75.0) | | (16.7) | N |
| Turkey | NRL-TME | NATIONAL | | | 312 | | 52 8 | . , , , | Y |
| , | | | 167 | (3.2) | 120 | (71.9) | | (6.7) | |
| Turkmenistan | - NDL TME | - NATIONAL | - | - () | - | (40.5.5) | - | - ((0.0) | N |
| | NRL-TME | NATIONAL | 5 054 | (27.2) | 5 054 | (100.0) | 972 | (19.2) | Υ |
| Ukraine | NDL TARE | MATIONAL | ~ / | | | | | | |
| Uzbekistan | NRL-TME | NATIONAL | 816 | (11.9) | 816 | (100.0) | 0 | (0.0) | Υ |
| | NRL-TME | NATIONAL | 816 35 706 36 669 | (11.9) (35.0) (29.1) | 816 33 942 34 723 | (95.1) (94.7) | 6 513 6 672 | (0.0) (19.2) (19.2) | Y |

WHO European Region 18 tuberculosis high-priority countries presented in italics.
The resistance pattern at the initiation of treatment is reported to TESSy irrespective of the method used for drug susceptibility testing or resistance prediction.
DST - drug susceptibility testing.
HPC - high-priority countries.
MPR - multi-drug resistant.
NRL - national reference laboratory.
TESSy - the European surveillance system.
TME - The WHO global tuberculosis data collection system.
XDR - extensively drug-resistant.
*For EU/FEA countries, laboratory-confirmed cases are culture-positive OR microscopy-positive and nucleic acid amplification test-positive cases. For non-EU/FEA countries, cases with positive identification for *M. tuberculosis* complex confirmed by culture and/or line probe assay.

*Data considered complete when collected nationwide OR culture results available for ≥90% of all cases, and >50% of all cases culture-positive, and >75% of them with DST results for isoniazid and rifampicin, and ≥95% of the external quality assessment (EQA) results confirmed by a supranational reference laboratory.

*This designation is without prejudice to positions on status, and is in line with UN Security Council Resolution 1244 and the International Court of Justice
Opinion on the Kosovo Declaration of Independence.

Table 15. XDR tuberculosis cases among all laboratory-confirmed MDR tuberculosis cases, 2018

| Country/area | Tuberculosis cases with first- line DST ^b | | losis among all s with first-line DST ^b | | sis with second- DST ^c | XDR tuberculosis | | |
|--|--|--------|---|--------|--------------------------------------|------------------|----------|--|
| | N | N | (%) | N | (%) | N | (%) | |
| EU/EEA | | | | | | | | |
| Austria | 349 | 18 | (5.2) | 18 | (100.0) | 0 | (0.0) | |
| Belgium | 695 | 7 | (1.0) | 7 | (100.0) | 3 | (42.9) | |
| Bulgaria | 551 | 24 | (4.4) | 24 | (100.0) | 0 | (0.0) | |
| Croatia | 295 | 2 | (0.7) | 1 | (50.0) | 0 | (0.0) | |
| Cyprus | 39 | 0 | (0.0) | 0 | | 0 | - | |
| Czech Republic | 327 | 12 | (3.7) | 12 | (100.0) | 1 | (8.3) | |
| Denmark | 218 | 4 | (1.8) | 4 | (100.0) | 0 | (0.0) | |
| Estonia | 122 | 30 | (24.6) | 30 | (100.0) | 8 | (26.7) | |
| Finland | 182 | 4 | (2.2) | 4 | (100.0) | 1 | (25.0) | |
| France | 82 | 82 | (100.0) | 76 | (92.7) | 8 | (10.5) | |
| Germany | 3 731 | 116 | (3.1) | 90 | (77.6) | 8 | (8.9) | |
| Greece | 154 | 5 | (3.2) | 5 | (100.0) | 1 | (20.0) | |
| | 330 | 12 | (3.6) | 11 | | 3 | (20.0) | |
| Hungary | | | | | (91.7) | | , , | |
| Iceland | 2 | 0 | (0.0) | 0 | - | 0 | - (0.0) | |
| Ireland | 205 | 5 | (2.4) | 5 | (100.0) | 0 | (0.0) | |
| Italy | - | - | - | - | - | - | - | |
| Latvia | - | - | - | - | - | - | - | |
| Liechtenstein | 1 | 0 | (0.0) | 0 | - | 0 | - | |
| Lithuania | 992 | 170 | (17.1) | 170 | (100.0) | 58 | (34.1) | |
| Luxembourg | 35 | 1 | (2.9) | 0 | (0.0) | 0 | - | |
| Malta | 32 | 0 | (0.0) | 0 | - | 0 | - | |
| Netherlands | 500 | 6 | (1.2) | 6 | (100.0) | 1 | (16.7) | |
| Norway | 167 | 4 | (2.4) | 4 | (100.0) | 0 | (0.0) | |
| Poland | 3 764 | 48 | (1.3) | 43 | (89.6) | 13 | (30.2) | |
| Portugal | 1066 | 10 | (0.9) | 2 | (20.0) | 0 | (0.0) | |
| Romania | 8 042 | 354 | (4.4) | 228 | (64.4) | 47 | (20.6) | |
| Slovakia | 144 | 2 | (1.4) | 2 | (100.0) | 0 | (0.0) | |
| Slovenia | 92 | 0 | (0.0) | 0 | _ | 0 | _ | |
| Spain | 1258 | 33 | (2.6) | 24 | (72.7) | 3 | (12.5) | |
| Sweden | 407 | 13 | (3.2) | 13 | (100.0) | 0 | (0.0) | |
| United Kingdom | 3 099 | 37 | (1.2) | 29 | (78.4) | 3 | (10.3) | |
| Subtotal EU/EEA | 26 881 | | | 808 | (80.9) | 158 | (10.5) | |
| Non-EU/EEA | 20 001 | 999 | (3.7) | 000 | (60.9) | 150 | (19.0) | |
| Albania | 63 | / | (6.3) | 0 | (0.0) | 0 | | |
| Andorra | 2 | 0 | | 0 | (0.0) | 0 | _ | |
| | | | (0.0) | | (-0.0) | | (4 (7) | |
| Armenia | 370 | 85 | (23.0) | 84 | (98.8) | 14 | (16.7) | |
| Azerbaijan | 5 243 | 938 | (17.9) | 864 | (92.1) | 77 | (8.9) | |
| Belarus | 2 201 | 1024 | (46.5) | 992 | (96.9) | 422 | (42.5) | |
| Bosnia and Herzegovina | 446 | 2 | (0.4) | 0 | (0.0) | 0 | | |
| Georgia | 1 862 | 311 | (16.7) | 201 | (64.6) | 55 | (27.4) | |
| Israel | 194 | 16 | (8.2) | 16 | (100.0) | 2 | (12.5) | |
| Kazakhstan | 11 454 | 4 869 | (42.5) | 4,384 | (90.0) | 336 | (7.7) | |
| Kyrgyzstan | 3 941 | 1 685 | (42.8) | 924 | (54.8) | 137 | (14.8) | |
| Moldova | 2 251 | 927 | (41.2) | 765 | (82.5) | 111 | (14.5) | |
| Monaco | 0 | 0 | | 0 | | 0 | | |
| Montenegro | 64 | 1 | (1.6) | 1 | (100.0) | 0 | (0.0) | |
| North Macedonia | 158 | 2 | (1.3) | 0 | (0.0) | 0 | | |
| Russia | 53 620 | 27 438 | (51.2) | 24,601 | (89.7) | 5 112 | (20.8) | |
| San Marino | 0 | 0 | | 0 | // | 0 | | |
| Serbia | 731 | 3 | (0.4) | 0 | (0.0) | 0 | _ | |
| Serbia excluding Kosovo ^{c,d} | 302 | 3 | (1.0) | 0 | (0.0) | - | _ | |
| Kosovo ^{c,d} | 429 | 0 | (0.0) | 0 | (0.0) | _ | _ | |
| Switzerland | 415 | 8 | (1.9) | 8 | (100.0) | 1 | (12.5) | |
| | | | | | | | | |
| Tajikistan | 4 415 | 904 | (20.5) | 490 | (54.2) | 56 | (11.4) | |
| Turkey | 5 505 | 228 | (4.1) | 149 | (65.4) | 8 | (5.4) | |
| Turkmenistan | 1 611 | 549 | (34.1) | - | - | - | - (45.7) | |
| Ukraine | 19 964 | 6 547 | (32.8) | 6,547 | (100.0) | 1 028 | (15.7) | |
| Uzbekistan | 16 364 | 2 238 | (13.7) | 1,745 | (78.0) | 400 | (22.9) | |
| Subtotal non-EU/EEA | 130 874 | 47 779 | (36.5) | 41 771 | (87.4) | 7 759 | (18.6) | |
| Total European Region | 157 755 | 48 778 | (30.9) | 42 579 | (87.3) | 7 917 | (18.6) | |
| Subtotal 18 HPCs | 138 508 | 48 321 | (34.9) | 42 198 | (87.3) | 7 8 6 9 | (18.6) | |

^{&#}x27;European Region' comprises the 53 countries of the WHO European Region and Liechtenstein.

WHO European Region 18 tuberculosis high-priority countries presented in italics.
The resistance pattern at the initiation of treatment is reported to TESSy irrespective of the method used for drug susceptibility testing or resistance prediction.

DST - drug susceptibility testing.
HPC - high-priority countries.
MDR TB - multidrug-resistant tuberculosis.
XDR TB - extensively drug-resistant tuberculosis.
*For non-EU/EEA countries, cases with positive identification for Mycobacterium tuberculosis complex confirmed by culture and/or line probe assay; for EU/EEA countries, cases with positive and nucleic acid amplification test-positive cases.

*First-line DST - drug susceptibility testing for at least 2 main first-line anti-tuberculosis drugs: isoniazid and rifampicin.

*Second-line DST - drug susceptibility testing for second-line anti-tuberculosis drugs (at least one fluoroquinolone (ciprofloxacin, gatifloxacin, gatifloxacin, gatifloxacin, and ofloxacin) and one injectable drug (amikacin, capreomycin, and kanamycin).

*This designation is without prejudice to positions on status, and is in line with UN Security Council Resolution 1244 and the International Court of Justice Opinion on the Kosovo Declaration of Independence.

Table 16. RR/MDR and XDR tuberculosis cases enrolled to treatment, European Region, 2018

| Country/area | Total number of RR/MDR tuberculosis cases detected | | losis cases enrolled atment ^{ab} | Total number of XDR tuberculosis cases detected | XDR tuberculosis cases enrolle treatment ^{ab} | | |
|--------------------------------------|--|--------|--|---|---|---------|--|
| | N | N | (%) | N | N | % | |
| EU/EEA | | | | | | | |
| Austria | 18 | 18 | (100.0) | 0 | 0 | _ | |
| Belgium | 9 | 9 | (100.0) | 3 | 3 | (100.0) | |
| Bulgaria | 28 | 28 | (100.0) | 0 | 0 | (100.0) | |
| Croatia | 2 | 2 | (100.0) | 0 | 0 | _ | |
| Cyprus | 0 | 0 | (100.0) | 0 | 0 | _ | |
| / 1 | 12 | 12 | (100.0) | 1 | 1 | (100.0) | |
| Czech Republic | | | | | | (100.0) | |
| Denmark | 4 | 4 | (100.0) | 0 | 0 | | |
| Estonia | 33 | 32 | (97.0) | 8 | 8 | (100.0) | |
| Finland | 4 | 3 | (75.0) | 1 | 1 | (100.0) | |
| rance | 82 | 82 | (100.0) | 8 | 8 | (100.0) | |
| Germany | 127 | 124 | (97.6) | 8 | 7 | (87.5) | |
| Greece | 6 | 6 | (100.0) | 1 | 1 | (100.0) | |
| Hungary | 13 | 13 | (100.0) | 3 | 3 | (100.0) | |
| celand | 0 | 0 | | 0 | 0 | - | |
| reland | 7 | 7 | (100.0) | 0 | 0 | _ | |
| taly | 62 | _ | - | _ | _ | _ | |
| Latvia | - | _ | _ | _ | _ | _ | |
| Liechtenstein | 0 | 0 | | 0 | 0 | | |
| | 189 | | (100.0) | | | (100.0) | |
| ithuania | | 189 | (100.0) | 58 | 58 | (100.0) | |
| Luxembourg | 1 | 1 | (100.0) | 0 | 0 | - | |
| Malta | 0 | 0 | - | 0 | 0 | - | |
| Vetherlands | 6 | 6 | (100.0) | 1 | 1 | (100.0) | |
| Vorway | 6 | 6 | (100.0) | 0 | 0 | - | |
| Poland | 58 | 58 | (100.0) | 13 | 13 | (100.0) | |
| Portugal | 13 | 12 | (92.3) | 0 | 0 | - | |
| Romania | 441 | 433 | (98.2) | 47 | 46 | (97.9) | |
| Slovakia | 3 | 3 | (100.0) | 0 | 0 | - | |
| Slovenia | 0 | 0 | _ | 0 | 0 | _ | |
| Spain | 37 | 37 | (100.0) | 3 | 3 | (100.0) | |
| Sweden | 13 | 13 | (100.0) | 0 | 0 | (100.0) | |
| Jnited Kingdom | 48 | 44 | (91.7) | 3 | 3 | (100.0) | |
| - | 1222 | | | 158 | 156 | | |
| Subtotal EU/EEA | 1 222 | 1 142 | (98.4) | 158 | 150 | (98.7) | |
| Non-EU/EEA | | | (1000) | | | | |
| Albania | 4 | 4 | (100.0) | 0 | 0 | - | |
| Andorra | 0 | 0 | - | 0 | 0 | - | |
| Armenia | 85 | 85 | (100.0) | 14 | 14 | (100.0) | |
| Azerbaijan | 938 | 821 | (87.5) | 77 | 189 | (245.5) | |
| Belarus | 1 024 | 1 284 | (125.4) | 422 | 362 | (85.8) | |
| Bosnia and Herzegovina | 2 | 2 | (100.0) | 0 | 0 | | |
| Georgia | 311 | 285 | (91.6) | 55 | 55 | (100.0) | |
| srael | 16 | 16 | (100.0) | 2 | 2 | (100.0) | |
| Kazakhstan | 4 869 | 4 336 | (89.1) | 336 | 386 | (114.9) | |
| (yrgyzstan | 1 685 | 1246 | (73.9) | 137 | 105 | (76.6) | |
| Moldova | 007 | 700 | (85.5) | | | (55.9) | |
| | 927 | /93 | (03.3) | 111 | 62 | (33.7) | |
| Monaco | - | - | (100.0) | - | - | _ | |
| Montenegro | 1 | 1 | (100.0) | 0 | 0 | - | |
| North Macedonia | 2 | 2 | (100.0) | 0 | 0 | - | |
| Russiae | 27 438 | 22 666 | (82.6) | 5 112 | 4 140 | (81.0) | |
| San Marino | 0 | - | - | - | - | - | |
| Serbia | 3 | 1 | (33.3) | 0 | - | - | |
| Serbia excluding Kosovo ^c | 3 | 1 | (33.3) | - | - | - | |
| Kosovo ^c | 0 | 0 | _ | - | - | _ | |
| Switzerland | 8 | 8 | (100.0) | 1 | 1 | (100.0) | |
| Tajikistan | 904 | 727 | (80.4) | 56 | 63 | (112.5) | |
| Turkey | 228 | 180 | (78.9) | 8 | 8 | (100.0) | |
| urkey Turkmenistan | | | | | | | |
| | 549 | 549 | (100.0) | 28 | 28 | (100.0) | |
| Jkraine | 6 547 | 7 427 | (113.4) | 1 028 | 1 444 | (140.5) | |
| Jzbekistan | 2 238 | 2 238 | (100.0) | 400 | 400 | (100.0) | |
| Subtotal non-EU/EEA | 47 779 | 42 671 | (89.3) | 7 787 | 7 259 | (93.2) | |
| Total European Region | 49 001 | 43 813 | (89.4) | 7 945 | 7 415 | (93.3) | |

^{*}European Region' comprises the 53 countries of the WHO European Region and Liechtenstein.

WHO European Region 18 tuberculosis high-priority countries presented in italics.

HPC - high-priority countries.

The resistance pattern at the initiation of treatment is reported to TESSy irrespective of the method used for drug susceptibility testing or resistance prediction.

RR/MDR - rifampicin-resitant and multidrug-resistant.

XDR TB - extensively drug-resistant tuberculosis.

*For countries that do not provide information on treatment start - all reported cases are used as proxy.

*For some non-EU/EEA countries and areas, patients who were diagnosed before 2018 but started on treatment in 2018 are included, resulting in over 100% coverage.

*This designation is without prejudice to positions on status, and is in line with UN Security Council Resolution 1244 and the International Court of Justice Opinion on the Kosovo Declaration of Independence.

Table 17. New and relapse tuberculosis cases with HIV infection, European Region, 2018

| Country/area | New and relapse tuberculosis cases ^b | Tuberculosis case | es with HIV status | HIV-positive tub | erculosis cases | HIV-positive ca | ses started ART ^c |
|---|--|-------------------|--------------------|------------------|-----------------|-----------------|------------------------------|
| Country/area | N | N | (%) | N | (%) | N | (%) |
| EU/EEA | | | | | | | , i |
| Austria | - | - | - | - | - | - | - |
| Belgium | 913 | 463 | (50.7) | 33 | (7.1) | - | - |
| Bulgaria | 1290 | 1 062 | (82.3) | 0 | (0.0) | 0 | - |
| Croatia | 364 | 2 | (0.5) | 0 | (0.0) | - | - |
| Cyprus | 51 | 41 | (80.4) | 1 | (2.4) | - | - |
| Czech Republic | 435 | 182 | (41.8) | 4 | (2.2) | - | _ |
| Denmarkd | 270 | 219 | (81.1) | 3 | (1.4) | - | - |
| Estonia | 145 | 135 | (93.1) | 12 | (8.9) | 10 | (83.3) |
| Finland | - | - | _ | _ | - | _ | - |
| France | - | - | _ | _ | _ | _ | _ |
| Germany | - | - | _ | _ | - | - | - |
| Greece | 406 | 343 | (84.5) | 10 | (2.9) | _ | - |
| Hungary | 602 | 21 | (3.5) | 2 | (9.5) | _ | _ |
| Iceland | 8 | 8 | (100.0) | 1 | (12.5) | _ | _ |
| Ireland ^d | 294 | 130 | (44.2) | 12 | (9.2) | 8 | (66.7) |
| Italy | - | - | - | - | - | _ | - |
| Latvia | _ | _ | _ | _ | _ | _ | _ |
| Liechtenstein | _ | _ | _ | _ | _ | _ | _ |
| Lithuania | 1 063 | 879 | (82.7) | 28 | (3.2) | | _ |
| Luxembourg | 42 | 7 | (16.7) | 0 | (0.0) | 0 | _ |
| Malta | - | _ | - | _ | (0.0) | - | _ |
| Netherlands | 791 | 522 | (66.0) | 21 | (4.0) | 12 | (57.1) |
| Norway ^d | 189 | 167 | (88.4) | 7 | (4.2) | - | (5/-1) |
| Poland | - | - | (00.4) | _ | (4.2) | _ | _ |
| Portugal | 2 111 | 1985 | (94.0) | 187 | (9.4) | _ | _ |
| | | | | | | | (0- 0) |
| Romania | 11 586 | 9,726 | (83.9) | 233 2 | (2.4) | 200 | (85.8) |
| Slovakia | 273 | 231 | (84.6) | | (0.9) | 1 | (50.0) |
| Slovenia | 98 | 79 | (80.6) | 0 | (0.0) | - | - |
| Spain | 4 500 | 2 359 | (52.4) | 249 | (10.6) | - | - |
| Sweden | | | | | (2.8) | | |
| United Kingdom ^d | 4 775 | 4 064 | (85.1) | 113 | | 100 | (88.5) |
| Subtotal EU/EEA | 30 206 | 22 625 | (74.9) | 918 | (4.1) | 331 | (84.2) |
| Non-EU/EEA Albania | 440 | 245 | (40.0) | (| (2.0) | | (100.0) |
| | 440 | 215 | (48.9) | 6 | (2.8) | 6 | (100.0) |
| Andorra | 2 | 0 | (0.0) | - 72 | (40.2) | | (-0.6) |
| Armenia | 734 | 699 | (95.2) | 72 | (10.3) | 71 | (98.6) |
| Azerbaijan | 5 038 | 5 038 | (100.0) | 87 | (1.7) | 74 | (85.1) |
| Belarus | 2 359 | 2 359 | (100.0) | 182 | (7.7) | 171 | (94.0) |
| Bosnia and Herzegovina | - | - | - (22.2) | - | - (2.4) | - | - |
| Georgia | 2 316 | 2 174 | (93.9) | 45 | (2.1) | 45 | (100.0) |
| Israel | 292 | 292 | (100.0) | 12 | (4.1) | 12 | (100.0) |
| Kazakhstan | 12 832 | 12 236 | (95.4) | 717 | (5.9) | 689 | (96.1) |
| Kyrgyzstan | 6 338 | 6 338 | (100.0) | 187 | (3.0) | 132 | (70.6) |
| Moldova | 3 022 | 2 893 | (95.7) | 248 | (8.6) | 168 | (67.7) |
| Monaco | - | - | - | - | - | - | - |
| Montenegro | 84 | 43 | (51.2) | 0 | (0.0) | | |
| North Macedonia | 217 | 126 | (58.1) | 3 | (2.4) | 3 | (100.0) |
| Russia | 78 258 | 74 075 | (94.7) | 14 797 | (20.0) | 10 077 | (68.1) |
| San Marino | 0 | | , . | | | | |
| Serbia | 641 | 56 | (8.7) | 8 | (14.3) | 8 | (100.0) |
| Serbia excluding Kosovo ^e | 641 | 56 | (8.7) | 8 | (14.3) | 8 | (100.0) |
| Kosovo ^e | - | - | - | - | - | - | - |
| Switzerland | - | - | - | - | - | - | - |
| Tajikistan | 5 726 | 5 545 | (96.8) | 227 | (4.1) | 178 | (78.4) |
| Turkey | 11 576 | 8 234 | (71.1) | 67 | (0.8) | 52 | (77.6) |
| Turkmenistan | - | - | - | - | - | - | - |
| Ukraine | 26 512 | 26 312 | (99.2) | 6 053 | (23.0) | 4 8 0 6 | (79.4) |
| Uzbekistan | 16 413 | 16 413 | (100.0) | 736 | (4.5) | 612 | (83.2) |
| Subtotal non-EU/EEA | 172 800 | 163 048 | (94.4) | 23 447 | (14.4) | 17 104 | (72.9) |
| Total European Region | 203 006 | 185 673 | (91.5) | 24 365 | (13.1) | 17 435 | (73.1) |
| Subtotal 18 HPCs | 185 208 | 174 118 | (94.0) | 23 691 | (13.6) | 17 285 | (73.0) |

^{&#}x27;European Region' comprises the 53 countries of the WHO European Region and Liechtenstein.

WHO European Region 18 tuberculosis high priority countries presented in italics.

ART - antiretroviral therapy.

HIV - human immunodeficiency virus.

HPC - high-priority countries.

**Cases with unknown previous TB history are included among new TB cases.

**Countries are only included in this analysis if total number of cases tested for HIV and test results are provided. For EU/EEA countries, countries are only included in this analysis if the total number of cases tested for HIV is more than zero.

Data from the WHO Global tuberculosis database.

**Previous tuberculosis history is defined by previous diagnosis.

**This designation is without prejudice to positions on status, and is in line with UN Security Council Resolution 1244 and the International Court of Justice Opinion on the Kosovo Declaration of Independence.

Table 18. All tuberculosis cases with HIV infection, EU/EEA, 2018

| Country | All tuberculosis | | sis cases with known HIV status | HIV-positive tuberculosis cases | | | |
|----------------|------------------|--------|------------------------------------|---------------------------------|--------|--|--|
| | Lases | N | (%) | N | (%) | | |
| EU/EEA | | | | | | | |
| Austria | _ | - | - | - | - | | |
| Belgium | 981 | 503 | (51.3) | 36 | (7.2) | | |
| Bulgaria | 1 358 | 1 118 | (82.3) | 0 | (0.0) | | |
| Croatia | 372 | 2 | (0.5) | 0 | (0.0) | | |
| Cyprus | 52 | 41 | (78.8) | 1 | (2.4) | | |
| Czech Republic | 444 | 190 | (42.8) | 4 | (2.1) | | |
| Denmark | 291 | 234 | (80.4) | 3 | (1.3) | | |
| Estonia | 147 | 137 | (93.2) | 13 | (9.5) | | |
| Finland | - | - | - | - | - | | |
| France | _ | - | - | - | - | | |
| Germany | _ | - | _ | - | - | | |
| Greece | 432 | 362 | (83.8) | 11 | (3.0) | | |
| Hungary | 640 | 23 | (3.6) | 3 | (13.0) | | |
| Iceland | 8 | 8 | (100.0) | 1 | (12.5) | | |
| Ireland | 314 | 140 | (44.6) | 12 | (8.6) | | |
| Italy | _ | _ | _ | - | _ | | |
| Latvia | _ | _ | _ | _ | _ | | |
| Liechtenstein | _ | - | _ | _ | _ | | |
| Lithuania | 1 142 | 954 | (83,5) | 32 | (3.4) | | |
| Luxembourg | 42 | 7 | (16.7) | 0 | (0.0) | | |
| Malta | - | _ | - | _ | - | | |
| Netherlands | 806 | 534 | (66.3) | 21 | (3.9) | | |
| Norway | 209 | 184 | (88.0) | 7 | (3.8) | | |
| Poland | _ | - | - | _ | (5.0) | | |
| Portugal | 2 137 | 2 011 | (94.1) | 193 | (9.6) | | |
| Romania | 12 205 | 10 246 | (83.9) | 254 | (2.5) | | |
| Slovakia | 281 | 238 | (84.7) | 2 | (0.8) | | |
| Slovenia | 99 | 80 | (80.8) | 0 | (0.0) | | |
| Spain | 4 648 | 2 448 | (52.7) | 275 | (11.2) | | |
| Sweden | 4 040 | 2 440 | (32.7) | _ | (11.2) | | |
| United Kingdom | 5 075 | 4 323 | (85.2) | 123 | (2.8) | | |
| Total EU/EEA | 31 683 | 23 783 | (75.1) | 991 | (4.2) | | |

WHO European Region 18 tuberculosis high-priority countries presented in italics.
HIV - human immunodeficiency virus.
a Countries are only included in this analysis if the total number of cases tested for HIV is more than zero.

Table 19. Tuberculosis in prisons, European Region, 2018^a

| Country/area | Prison population | | l relapse tuberculosis cases orms) notified in prisons | Proportion of new and relapsed tuberculosis cases in prisons out of the country total | Tuberculosis relative risk in prisons (RR) ^b |
|--------------------------------------|-------------------|-----------|---|---|--|
| | N | N | Rate per 100 000 prisoners | % | - III prisons (KK) |
| EU/EEA | | | | | |
| Austria | - | - | - | - | - |
| Belgium | 10 619 | 17 | 160 | (1.9) | 20.0 |
| Bulgaria | 6 977 | 16 | 229 | (1.2) | 12.5 |
| Croatia | - | - | - | - | - |
| Cyprus | - | - | - | - | - |
| Czech Republic | 21 577 | 22 | 102 | (5.1) | 24.9 |
| Denmark | - | - | - | - | - |
| Estonia | 2 500 | 5 | 200 | (3.4) | 18.2 |
| Finland | - | - | - | - | - |
| France | 69 304 | 67 | 97 | (1.4) | 13.5 |
| Germany | - | - | - | - | - |
| Greece | - | 17 | | (4.2) | - |
| Hungary | - | 15 | | (2.5) | - |
| Iceland | - | - | - | _ | - |
| Ireland | 6 490 | 0 | 0 | (0.0) | 0.0 |
| Italy | - | - | - | _ | - |
| Latvia | - | - | - | - | - |
| Liechtenstein | - | - | - | _ | - |
| Lithuania | 6 400 | 46 | 719 | (4.3) | 19.0 |
| Luxembourg | 750 | 0 | 0 | (0.0) | 0.0 |
| Malta | - | 0 | - | (0.0) | - |
| Netherlands | 29 149 | 7 | 24 | (0.9) | 5.2 |
| Norway | - | - | - | _ | - |
| Poland | 74 077 | 171 | 231 | (3.3) | 16.9 |
| Portugal | 12 611 | 44 | 349 | (2.1) | 17.0 |
| Romania | 20 602 | 114 | 553 | (1.0) | 9.3 |
| Slovakia | 7 845 | 16 | 204 | (5.9) | 40.7 |
| Slovenia | _ | - | _ | | _ |
| Spain | _ | _ | _ | _ | _ |
| Sweden | _ | _ | _ | _ | _ |
| United Kingdom | | 26 | _ | (0.5) | |
| Subtotal EU/EEA | 268 901 | 583 | 217 | (2.0) | 14.7 |
| Non-EU/EEA | 200 701 | 303 | =1, | (2.0) | 140 |
| Albania | 6 000 | 3 | 50.0 | (0.7) | 3.3 |
| Andorra | - | 0 | 0.0 | (0.0) | - |
| Armenia | _ | 14 | _ | (1.9) | _ |
| Azerbaijan | 19 322 | 216 | 1117.9 | (4.3) | 22.1 |
| Belarus | - | 106 | - | (4.5) | - |
| Bosnia and Herzegovina | _ | 0 | 0.0 | (0.0) | _ |
| Georgia | 9 083 | 43 | 473.4 | (1.9) | 8.2 |
| Israel | - | - | - | - | - |
| Kazakhstan | 35 219 | 353 | 1002.3 | (2.8) | 14.3 |
| | 8 624 | | 1623.4 | (2.2) | 16.1 |
| Kyrgyzstan Moldova | 7 635 | 140 89 | 1165.7 | (2.2) | 15.6 |
| Monaco | / 023 | 09 | 1105./ | (2.7) | 15.0 |
| | _ | _ | - | _ | - |
| Montenegro North Macedonia | 3 000 | 3 | | (1.4) | 9.6 |
| | | | 100.0 | | |
| Russia | 578 810 | 7 291 | 1259.7 | (9.3) | 23.5 |
| San Marino | - 22.042 | 0 | - 47.7 | (0.5) | 0.0 |
| Serbia Serbia Serbia Manageria | 33 842 | 6 | 17.7 | (0.5) | 1.2 |
| Serbia excluding Kosovo ^c | 30 000 | 4 | 13.3 | (0.6) | 1.5 |
| Kosovo ^c | 3 842 | 2 | 52.1 | (0.3) | 1.4 |
| Switzerland | - | - | - | - (2.4) | - |
| Tajikistan | 15 000 | 121 | 806.7 | (2.1) | 12.8 |
| Turkey | 280 395 | 155 | 55.3 | (1.3) | 3.9 |
| Turkmenistan | - | - | - | _ | - |
| Ukraine | 53 853 | 767 | 1424.2 | (2.9) | 23.8 |
| Uzbekistan | - | - | - | - | - |
| Subtotal non-EU/EEA | 1 050 783 | 9 307 | 886 | (5.9) | 19.2 |
| Total European Region | 1 319 684 | 9 890 | 749 | (5.1) | 22.1 |
| Subtotal 18 HPCs | 1 044 420 | 9 476 | 907 | (11.6) | 22.5 |

^{&#}x27;European Region' comprises the 53 countries of the WHO European Region and Liechtenstein.
WHO European Region 18 tuberculosis high-priority countries presented in italics.
HPC - high-priority countries.

**Data from the WHO Global tuberculosis database.

**Data from the WHO Summary results, only countries reporting data on prison population and TB notification in prisons are included.

**This designation is without prejudice to positions on status, and is in line with UN Security Council Resolution 1244 and the International Court of Justice Opinion on the Kosovo Declaration of Independence.

Table 20. Treatment outcome of all tuberculosis cases notified in 2017, European Region, 2018

| Country/area | Tuberculosis cases notified | Succ | ess | Die | ed | Fail | led | Lost to fo | llow-up ^a | Still on treatment | | Not evaluated ^b | |
|---|-----------------------------|----------|---------|----------|--------|---------|-------|------------|----------------------|--------------------|-----------------|----------------------------|--------|
| | in 2017 | N | (%) | N | (%) | N | (%) | N | (%) | N | (%) | N | (%) |
| EU/EEA | | | | | | | | | | | | | |
| Austria | 569 | 382 | (67.1) | 49 | (8.6) | 0 | (0.0) | 9 | (1.6) | 65 | (11.4) | 64 | (11.2) |
| Belgium | 967 | 764 | (79.0) | 55 | (5.7) | 0 | (0.0) | 108 | (11.2) | 13 | (1.3) | 27 | (2.8) |
| Bulgaria | 1 463 | 1 215 | (83.0) | 120 | (8.2) | 15 | (1.0) | 100 | (6.8) | 10 | (0.7) | 3 | (0.2) |
| Croatia | 378 | 246 | (65.1) | 68 | (18.0) | 0 | (0.0) | 12 | (3.2) | 25 | (6.6) | 27 | (7.1) |
| Cyprus | 53 | 35 | (66.0) | 2 | (3.8) | 0 | (0.0) | 0 | (0.0) | 5 | (9.4) | 11 | (20.8) |
| Czech Republic | 501 | 341 | (68.1) | 66 | (13.2) | 2 | (0.4) | 58 | (11.6) | 21 | (4.2) | 13 | (2.6) |
| Denmark | 275 | 110 | (40.0) | 4 | (1.5) | 4 | (1.5) | 0 | (0.0) | 3 | (1.1) | 154 | (56.0) |
| Estonia | 175 | 112 | (64.0) | 30 | (17.1) | 1 | (0.6) | 2 | (1.1) | 30 | (17.1) | 0 | (0.0) |
| Finland | 246 | 88 | (35.8) | 0 | (0.0) | 1 | (0.4) | 2 | (0.8) | 4 | (1.6) | 151 | (61.4) |
| France | 5 005 | 1193 | (23.8) | 119 | (2.4) | 0 | (0.0) | 138 | (2.8) | 39 | (0.8) | 3,516 | (70.2) |
| Germany | 5 495 | 3 829 | (69.7) | 399 | (7.3) | 1 – | (0.0) | 139 | (2.5) | 182 | (3.3) | 945 | (17.2) |
| Greece | | | | | | | | | | - | | | |
| Hungary | 685 | 450 | (65.7) | 90 | (13.1) | 26 | (3.8) | 65 | (9.5) | 40 | (5.8) | 14 | (2.0) |
| Iceland | 14 | 13 | (92.9) | 1 | (7.1) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) |
| Ireland | 305 | 103 | (33.8) | 16 | (5.2) | 0 | (0.0) | 3 | (1.0) | 2 | (0.7) | 181 | (59.3) |
| Italy | - | - | - | - | - | _ | - | - | - | - | - | - | - |
| Latvia Liechtenstein | | | (100.0) | | | | | | | - | - (0,0) | | |
| Lithuania | 1 207 | 1 924 | , | 152 | (0.0) | 0 35 | (0.0) | 0 | (0.0) | 0 | (0.0) (14.9) | 0 2 | (0.0) |
| | 1387 | 0 | (66.6) | 152 1 | (11.0) | | (2.5) | 67 0 | (4.8) | 207 | (0.0) | | (0.1) |
| Luxembourg Malta | 32 | - | (0.0) | 1 | (5.1) | 0 | (0.0) | - | (0.0) | 0 | (0.0) | 31 | (96.9) |
| Netherlands | 783 | 670 | (85.6) | 27 | (3.4) | 0 | (0.0) | 32 | (4.1) | 17 | (2.2) | 37 | (4.7) |
| Norway | 261 | 226 | (86.6) | 3 | (1.1) | 2 | (0.0) | 3 | (1.1) | 15 | (5.7) | 12 | (4.7) |
| Poland | 201 | _ | (00.0) | - | (1.1) | _ | (0.0) | _ | (1.1) | - | (5.7) | - | (4.0) |
| Portugal | 1800 | 671 | (37.3) | 96 | (5.3) | 0 | (0.0) | 56 | (3.1) | 915 | (50.8) | 62 | (3.4) |
| Romania | 12 997 | 10 626 | (81.8) | 1 118 | (8.6) | 351 | (2.7) | 660 | (5.1) | 240 | (1.8) | 2 | (0.0) |
| Slovakia | 249 | 219 | (88.0) | 9 | (3.6) | 1 | (0.4) | 1 | (0.4) | 6 | (2.4) | 13 | (5.2) |
| Slovenia | 112 | 85 | (75.9) | 20 | (17.9) | 0 | (0.0) | 0 | (0.0) | 5 | (4.5) | 2 | (1.8) |
| Spain | 5 690 | 3,573 | (62.8) | 352 | (6.2) | 1 | (0.0) | 19 | (0.3) | 149 | (2.6) | 1596 | (28.0) |
| Sweden | 519 | 439 | (84.6) | 23 | (4.4) | 0 | (0.0) | 8 | (1.5) | 11 | (2.1) | 38 | (7.3) |
| United Kingdom | 5 537 | 4,449 | (80.4) | 305 | (5.5) | 0 | (0.0) | 289 | (5.2) | 396 | (7.2) | 98 | (1.8) |
| Subtotal EU/EEA | 45 499 | 30 764 | (67.6) | 3 125 | (6.9) | 440 | (1.0) | 1771 | (3.9) | 2 400 | (5.3) | 6 999 | (15.4) |
| Non-EU/EEA | 43 433 | 30 704 | (0)10) | 3 123 | (0.7) | 110 | (110) | .,,, | (317) | 2 400 | (313) | 0,,,, | (1314) |
| Albania | 499 | 435 | (87.2) | 19 | (3.8) | 2 | (0.4) | 23 | (4.6) | - | - | 20 | (4.0) |
| Andorra | 1 | 1 | (100.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | - | _ | 0 | (0.0) |
| Armenia | 752 | 591 | (78.6) | 54 | (7.2) | 12 | (1.6) | 95 | (12.6) | - | - | 0 | (0.0) |
| Azerbaijan | 4 273 | 3 337 | (78.1) | 118 | (2.8) | 325 | (7.6) | 407 | (9.5) | - | - | 86 | (2.0) |
| Belarus | 1 924 | 1 677 | (87.2) | 114 | (5.9) | 55 | (2.9) | 78 | (4.1) | - | - | 0 | (0.0) |
| Bosnia and Herzegovina | 768 | 343 | (44.7) | 47 | (6.1) | 17 | (2.2) | 4 | (0.5) | - | - | 357 | (46.5) |
| Georgia | 2 576 | 2 121 | (82.3) | 96 | (3.7) | 73 | (2.8) | 185 | (7.2) | - | - | 101 | (3.9) |
| Israel | 225 | 196 | (87.1) | 9 | (4.0) | 1 | (0.4) | 5 | (2.2) | - | - | 14 | (6.2) |
| Kazakhstan | 8 839 | 8 030 | (90.8) | 443 | (5.0) | 246 | (2.8) | 95 | (1.1) | - | - | 25 | (0.3) |
| Kyrgyzstan | 6 342 | 5 096 | (80.4) | 388 | (6.1) | 127 | (2.0) | 705 | (11.1) | - | - | 26 | (0.4) |
| Moldova | 2 891 | 2 275 | (78.7) | 306 | (10.6) | 107 | (3.7) | 160 | (5.5) | - | - | 43 | (1.5) |
| Monaco | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Montenegro | 77 | 65 | (84.4) | 6 | (7.8) | 1 | (1.3) | 1 | (1.3) | - | - | 4 | (5.2) |
| North Macedonia | 222 | 196 | (88.3) | 13 | (5.9) | 0 | (0.0) | 9 | (4.1) | - | - | 4 | (1.8) |
| Russia | 76 932 | 51 653 | (67.1) | 8 052 | (10.5) | 6 105 | (7.9) | 4 296 | (5.6) | - | - | 6 826 | (8.9) |
| San Marino | 0 | - | - | - | - | - | - | - | - | - | - | - | - |
| Serbia | 1 458 | 1249 | (85.7) | 40 | (2.7) | 5 | (0.3) | 62 | (4.3) | - | - | 102 | (7.0) |
| Serbia excluding Kosovo ^c | 745 | 620 | (83.2) | 15 | (2.0) | 3 | (0.4) | 21 | (2.8) | - | - | 86 | (11.5) |
| Kosovo ^c | 713 | 629 | (88.2) | 25 | (3.5) | 2 | (0.3) | 41 | (5.8) | - | - | 16 | (2.2) |
| Switzerland | 542 | 420 | (77.5) | 24 | (4.4) | 0 | (0.0) | 16 | (3.0) | - | - | 82 | (15.1) |
| Tajikistan | 5 485 | 4 976 | (90.7) | 227 | (4.1) | 85 | (1.5) | 153 | (2.8) | - | - | 44 | (0.8) |
| Turkey | 11 818 | 10 118 | (85.6) | 817 | (6.9) | 33 | (0.3) | 363 | (3.1) | - | - | 487 | (4.1) |
| Turkmenistan | 2 232 | 1 878 | (84.1) | 78 | (3.5) | 138 | (6.2) | 95 | (4.3) | - | - | 43 | (1.9) |
| Ukraine | 24 474 | 18 147 | (74.1) | 2 486 | (10.2) | 2 026 | (8.3) | 1740 | (7.1) | - | - | 75 | (0.3) |
| Uzbekistan | 16 891 | 14 836 | (87.8) | 825 | (4.9) | 172 | (1.0) | 402 | (2.4) | - | - | 656 | (3.9) |
| Subtotal non-EU/EEA | 169 221 | 127 640 | (75.4) | 14 162 | (8.4) | 9 530 | (5.6) | 8 894 | (5.3) | 0 | (0.0) | 8 995 | (5.3) |
| Total European Region | 214 720 | 158 404 | (73.8) | 17 287 | (8.1) | 9 970 | (4.6) | 10 665 | (5.0) | 2 400 | (1.1) | 15 994 | (7.4) |
| Subtotal 18 HPCs | 181 451 | 137 612 | (75.8) | 15 424 | (8.5) | 9 906 | (5.5) | 65 | 9 603 | 487 | (0.2) | 8 419 | (3.9) |

^{&#}x27;European Region' comprises the 53 countries of the WHO European Region and Liechtenstein.
WHO European Region 18 tuberculosis high-priority countries presented in italics.
EU/EEA: Country data are shown as missing (-) when data on treatment outcome are not reported.
HPC - high-priority countries.
a In previous reports defined as 'defaulted'.
b In previous reports defined as 'transferred out and unknown'.
This designation is without prejudice to positions on status, and is in line with UN Security Council Resolution 1244 and the International Court of Justice Opinion on the Kosovo Declaration of Independence.

Table 21. Treatment outcome of new tuberculosis cases and relapses anotified in 2017, European Region, 2018

| Country/area | New and relapse tuberculosis | Succ | ess | Die | ed | Fail | led | Lost to fo | ollow-up ^c | Still on tr | eatment | Not eva | luated |
|---|--|---------|---------|--------|--------|-------|-------|------------|-----------------------|-------------|---------|---------|--------|
| Country/area | cases notified in 2017 ^b | N | (%) | N | (%) | N | (%) | N | (%) | N | (%) | N | (%) |
| EU/EEA | | | | | | | | | | | | | |
| Austria | 543 | 377 | (69.4) | 47 | (8.7) | 0 | (0.0) | 9 | (1.7) | 53 | (9.8) | 57 | (10.5) |
| Belgiume | 905 | 718 | (79.3) | 53 | (5.9) | 0 | (0.0) | 99 | (10.9) | 9 | (1.0) | 26 | (2.9) |
| Bulgaria | 1 386 | 1 167 | (84.2) | 114 | (8.2) | 11 | (0.8) | 91 | (6.6) | 0 | (0.0) | 3 | (0.2) |
| Croatia | 372 | 245 | (65.9) | 67 | (18.0) | 0 | (0.0) | 10 | (2.7) | 24 | (6.5) | 26 | (7.0) |
| Cyprus | 51 | 34 | (66.7) | 2 | (3.9) | 0 | (0.0) | 0 | (0.0) | 4 | (7.8) | 11 | (21.6) |
| Czech Republic | 489 | 337 | (68.9) | 66 | (13.5) | 2 | (0.4) | 57 | (11.7) | 14 | (2.9) | 13 | (2.7) |
| Denmarke | 251 | 99 | (39.4) | 3 | (1.2) | 2 | (0.8) | 0 | (0.0) | 3 | (1.2) | 144 | (57.4) |
| Estonia | 138 | 111 | (80.4) | 25 | (18.1) | 1 | (0.7) | 1 | (0.7) | 0 | (0.0) | 0 | (0.0) |
| Finland | 237 | 85 | (35.9) | 0 | (0.0) | 1 | (0.4) | 2 | (0.8) | 4 | (1.7) | 145 | (61.2) |
| France | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Germany | 5 233 | 3 721 | (71.1) | 389 | (7.4) | 1 | (0.0) | 126 | (2.4) | 140 | (2.7) | 856 | (16.4) |
| Greece | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Hungary | 639 | 429 | (67.1) | 81 | (12.7) | 26 | (4.1) | 56 | (8.8) | 34 | (5.3) | 13 | (2.0) |
| Iceland | 13 | 12 | (92.3) | 1 | (7.7) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) |
| Ireland ^e | 282 | 100 | (35.5) | 16 | (5.7) | 0 | (0.0) | 3 | (1.1) | 1 | (0.4) | 162 | (57.4) |
| Italy | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Latvia | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Liechtenstein | 1 | 1 | (100.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) |
| Lithuania | 1 086 | 900 | (82.9) | 103 | (9.5) | 15 | (1.4) | 33 | (3.0) | 34 | (3.1) | 1 | (0.1) |
| Luxembourg | 31 | 0 | (0.0) | 1 | (3.2) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 30 | (96.8) |
| Malta | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Netherlands | 762 | 660 | (86.6) | 27 | (3.5) | 0 | (0.0) | 31 | (4.1) | 12 | (1.6) | 32 | (4.2) |
| Norwaye | 228 | 207 | (90.8) | 2 | (0.9) | 2 | (0.9) | 0 | (0.0) | 7 | (3.1) | 10 | (4.4) |
| Poland | - | - | - | - | - | _ | - | - | - | _ | _ | - | - |
| Portugal | 1 751 | 659 | (37.6) | 93 | (5.3) | 0 | (0.0) | 49 | (2.8) | 894 | (51.1) | 56 | (3.2) |
| Romania | 12 007 | 10 348 | (86.2) | 973 | (8.1) | 181 | (1.5) | 475 | (4.0) | 28 | (0.2) | 2 | (0.0) |
| Slovakia | 222 | 204 | (91.9) | 8 | (3.6) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 10 | (4.5) |
| Slovenia | 111 | 85 | (76.6) | 20 | (18.0) | 0 | (0.0) | 0 | (0.0) | 5 | (4.5) | 1 | (0.9) |
| Spain | 4 527 | 2 739 | (60.5) | 286 | (6.3) | 1 | (0.0) | 15 | (0.3) | 118 | (2.6) | 1368 | (30.2) |
| Sweden | 477 | 413 | (86.6) | 22 | (4.6) | 0 | (0.0) | 8 | (1.7) | 2 | (0.4) | 32 | (6.7) |
| United Kingdom ^e | 5 176 | 4 216 | (81.5) | 268 | (5.2) | 0 | (0.0) | 274 | (5.3) | 329 | (6.4) | 89 | (1.7) |
| Subtotal EU/EEA | 36 918 | 27 867 | (75.5) | 2 667 | (7.2) | 243 | (0.7) | 1339 | (3.6) | 1 715 | (4.6) | 3 087 | (8.4) |
| Non-EU/EEA | | | 4 | | 4 | | 1,000 | | 1-11/ | | 11 | | 12.0 |
| Albania | 499 | 435 | (87.2) | 19 | (3.8) | 2 | (0.4) | 23 | (4.6) | - | - | 20 | (4.0) |
| Andorra | 1 | 1 | (100.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | - | - | 0 | (0.0) |
| Armenia | 710 | 563 | (79.3) | 43 | (6.1) | 12 | (1.7) | 92 | (13.0) | - | - | 0 | (0.0) |
| Azerbaijan | 1777 | 1 492 | (84.0) | 30 | (1.7) | 109 | (6.1) | 121 | (6.8) | - | - | 25 | (1.4) |
| Belarus | 1 792 | 1 587 | (88.6) | 98 | (5.5) | 47 | (2.6) | 60 | (3.3) | - | - | 0 | (0.0) |
| Bosnia and Herzegovina | 766 | 343 | (44.8) | 47 | (6.1) | 17 | (2.2) | 4 | (0.5) | - | - | 355 | (46.3) |
| Georgia | 2 351 | 1 977 | (84.1) | 85 | (3.6) | 61 | (2.6) | 143 | (6.1) | - | - | 85 | (3.6) |
| Israel | 225 | 196 | (87.1) | 9 | (4.0) | 1 | (0.4) | 5 | (2.2) | - | - | 14 | (6.2) |
| Kazakhstan | 8 589 | 7 826 | (91.1) | 425 | (4.9) | 232 | (2.7) | 82 | (1.0) | - | - | 24 | (0.3) |
| Kyrgyzstan | 5 752 | 4 728 | (82.2) | 302 | (5.3) | 109 | (1.9) | 590 | (10.3) | - | - | 23 | (0.4) |
| Moldova | 2 715 | 2 187 | (80.6) | 286 | (10.5) | 79 | (2.9) | 123 | (4.5) | - | - | 40 | (1.5) |
| Monaco | - | - | - | - | - | - | - | _ | - | - | _ | - | - |
| Montenegro | 75 | 65 | (86.7) | 6 | (8.0) | 1 | (1.3) | 1 | (1.3) | - | - | 2 | (2.7) |
| North Macedonia | 219 | 193 | (88.1) | 13 | (5.9) | 0 | (0.0) | 9 | (4.1) | - | - | 4 | (1.8) |
| Russia | 67 593 | 46 938 | (69.4) | 7 162 | (10.6) | 4 632 | (6.9) | 3 404 | (5.0) | - | - | 5 457 | (8.1) |
| San Marino | 0 | - | - | - | - | - | - | - | - | - | - | - | - |
| Serbia | 1 4 4 0 | 1239 | (86.0) | 38 | (2.6) | 3 | (0.2) | 58 | (4.0) | - | - | 102 | (7.1) |
| Serbia excluding Kosovo ^f | 738 | 616 | (83.5) | 14 | (1.9) | 2 | (0.3) | 20 | (2.7) | - | - | 86 | (11.7) |
| Kosovo ^f | 702 | 623 | (88.7) | 24 | (3.4) | 1 | (0.1) | 38 | (5.4) | - | - | 16 | (2.3) |
| Switzerland | 518 | 406 | (78.4) | 23 | (4.4) | 0 | (0.0) | 13 | (2.5) | - | - | 76 | (14.7) |
| Tajikistan | 5 259 | 4 789 | (91.1) | 205 | (3.9) | 78 | (1.5) | 144 | (2.7) | - | - | 43 | (0.8) |
| Turkey | 11 638 | 10 014 | (86.0) | 803 | (6.9) | 32 | (0.3) | 320 | (2.7) | - | - | 469 | (4.0) |
| Turkmenistan | 1968 | 1 676 | (85.2) | 64 | (3.3) | 116 | (5.9) | 78 | (4.0) | - | - | 34 | (1.7) |
| Ukraine | 21 165 | 16 189 | (76.5) | 2 050 | (9.7) | 1 574 | (7.4) | 1290 | (6.1) | - | - | 62 | (0.3) |
| Uzbekistan | 15 167 | 13 554 | (89.4) | 698 | (4.6) | 154 | (1.0) | 331 | (2.2) | - | - | 430 | (2.8) |
| Subtotal non-EU/EEA | 150 219 | 116 398 | (77.5) | 12 406 | (8.3) | 7 259 | (4.8) | 6 891 | (4.6) | - | - | 7 265 | (4.8) |
| | | | | | | | | | | | | | |
| Total European Region | 187 137 | 144 265 | (77.1) | 15 073 | (8.1) | 7 502 | (4.0) | 8 230 | (4.4) | 1 715 | (0.9) | 10 352 | (5.5) |

^{&#}x27;European Region' comprises the 53 countries of the WHO European Region and Liechtenstein.

WHO European Region 18 tuberculosis high-priority countries presented in italics.

EU/EEA: Country data are shown as missing (-) when data on treatment outcome are not reported. For inclusion in the cohort drug susceptibility data are also required.

HPC - high-priority countries.

*Cases with unknown previous TB history are included among new TB cases.

*For non-EU/EEA countries: Patients started on second-line treatment are excluded. For EU/EEA countries: Rifampicin-resistant TB cases are excluded.

*In previous reports defined as 'defaulted'.

*In previous reports defined as 'transferred out and unknown'.

*Previous TB history is defined by previous diagnosis.

*This designation is without prejudice to positions on status, and is in line with UN Security Council Resolution 1244 and the International Court of Justice Opinion on the Kosovo Declaration of Independence.

Table 22. Treatment outcome of new and relapse tuberculosis cases in children (0-14 years) notified in 2017, European Region, 2018

| Complement | New and relapse tuberculosis | Suc | cess | Di | ied | Fa | iled | Lost to f | ollow-up ^c | Still on | treatment | Not evaluated ^d | |
|---|---|---------|-----------|----|----------|----|---------|-----------|-----------------------|----------|-----------|----------------------------|---------|
| Country/area | cases reported in 2017 ^b | N | (%) | N | (%) | N | (%) | N | (%) | N | (%) | N | (%) |
| EU/EEA | 201/ | | | | | | | | | | | | |
| Austria | 21 | 18 | (85.7) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 3 | (14.3) | 0 | (0.0) |
| Belgium ^e | 67 | 59 | (88.1) | 0 | (0.0) | 0 | (0.0) | 4 | (6.0) | 0 | (0.0) | 4 | (6.0) |
| Bulgaria | 105 | 101 | (96.2) | 0 | (0.0) | 0 | (0.0) | 4 | (3.8) | 0 | (0.0) | 0 | (0.0) |
| Croatia | 3 | 2 | (66.7) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 1 | (33.3) |
| Cyprus | 3 | 1 | (33.3) | 1 | (33.3) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 1 | (33.3) |
| Czech Republic | 6 | 5 | (83.3) | 0 | (0.0) | 0 | (0.0) | 1 | (16.7) | 0 | (0.0) | 0 | (0.0) |
| Denmark ^e | 11 | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 11 | (100.0) |
| Estonia | 0 | 0 | - | 0 | _ | 0 | _ | 0 | _ | 0 | - | 0 | _ |
| Finland | 6 | 5 | (83.3) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 1 | (16.7) |
| France | - | - | - | - | - | - | - | - | - | - | _ | - | - |
| Germany | 235 | 191 | (81.3) | 1 | (0.4) | 1 | (0.4) | 3 | (1.3) | 7 | (3.0) | 32 | (13.6) |
| Greece | - | _ | - | _ | - | _ | - | _ | - | _ | - | _ | - |
| Hungary | 6 | 5 | (83.3) | 0 | (0.0) | 1 | (16.7) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) |
| Iceland | 0 | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - |
| Ireland | 7 | 1 | (14.3) | 1 | (14.3) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 5 | (71.4) |
| Italy | _ | _ | - | | - (14.5) | _ | - | _ | - | _ | - | _ | - |
| Latvia | _ | _ | _ | - | _ | _ | - | _ | _ | _ | _ | _ | _ |
| Liechtenstein | 0 | 0 | - | 0 | | 0 | | 0 | | 0 | | 0 | |
| Lithuania | 44 | 42 | (95.5) | 0 | (0.0) | 0 | (0.0) | 1 | (2.3) | 1 | (2.3) | 0 | (0.0) |
| Luxembourg | 1 | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 1 | (100.0) |
| Malta | 0 | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (100.0) |
| Netherlands | 33 | 30 | (90.9) | 0 | (0.0) | 0 | (0.0) | 1 | (3.0) | 1 | (3.0) | 1 | (3.0) |
| | 17 | 17 | (100.0) | | (0.0) | | | | | 0 | (0.0) | 0 | |
| Norway | - | - | (100.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | | (0.0) | - | (0.0) |
| Poland | | | | _ | | _ | | 1 | (2.2) | - 27 | | | |
| Portugal | 43 | 12 | (27.9) | 0 | (0.0) | 0 | (0.0) | | (2.3) | 27 | (62.8) | 3 | (7.0) |
| Romania | 530 | 512 | (96.6) | 9 | (1.7) | 0 | (0.0) | 7 | (1.3) | 2 | (0.4) | 0 | (0.0) |
| Slovakia | 45 | 44 | (97.8) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 1 | (2.2) |
| Slovenia | 2 | 2 | (100.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) |
| Spain | 280 | 204 | (72.9) | 1 | (0.4) | 0 | (0.0) | | (0.4) | 6 | (2.1) | 68 | (24.3) |
| Sweden | 26 | 24 | (92.3) | 0 | (0.0) | 0 | (0.0) | 1 | (3.8) | 0 | (0.0) | 1 | (3.8) |
| United Kingdom ^e | 191 | 166 | (86.9) | 1 | (0.5) | 0 | (0.0) | 6 | (3.1) | 15 | (7.9) | 3 | (1.6) |
| Subtotal EU/EEA | 1682 | 1 4 4 1 | (85.7) | 14 | (0.8) | 2 | (0.1) | 30 | (1.8) | 62 | (3.7) | 133 | (7.9) |
| Non-EU/EEA | 44 | 41 | (4000) | | (0.0) | • | (0.0) | | (0.0) | | | • | (0.0) |
| Albania | 14 | 14 | (100.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | - | - | 0 | (0.0) |
| Andorra | 0 | - | - ((0.0) | - | (0.0) | - | (5.0) | - | (24.6) | - | - | - | (0.0) |
| Armenia | 19 | 12 | (63.2) | 0 | (0.0) | 1 | (5.3) | 6 | (31.6) | - | - | 0 | (0.0) |
| Azerbaijan | - | - | - (100.0) | - | - (2.2) | - | - (2.2) | - | - (2.2) | - | - | - | - (2.2) |
| Belarus | 11 | 11 | (100.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | - | - | 0 | (0.0) |
| Bosnia and Herzegovina | 11 | 5 | (45.5) | 0 | (0.0) | 2 | (18.2) | 1 | (9.1) | - | - | 3 | (27.3) |
| Georgia | 93 | 84 | (90.3) | 0 | (0.0) | 0 | (0.0) | 2 | (2.2) | - | - | 7 | (7.5) |
| Israel | 16 | 14 | (87.5) | 1 | (6.3) | 0 | (0.0) | 0 | (0.0) | - | - | 1 | (6.3) |
| Kazakhstan | 333 | 326 | (97.9) | 4 | (1.2) | 3 | (0.9) | 0 | (0.0) | - | - | 0 | (0.0) |
| Kyrgyzstan | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Moldova | 107 | 105 | (98.1) | 0 | (0.0) | 2 | (1.9) | 0 | (0.0) | - | - | 0 | (0.0) |
| Monaco | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Montenegro | 0 | - | - | - | - | - | - | - | - | - | - | - | - |
| North Macedonia | 10 | 10 | (100.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | - | - | 0 | (0.0) |
| Russia | 2 304 | 2 209 | (95.9) | 10 | (0.4) | 22 | (1.0) | 4 | (0.2) | - | - | 59 | (2.6) |
| San Marino | 0 | - | - | - | - | - | - | - | - | - | - | - | - |
| Serbia | 36 | 36 | (100.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | - | - | 0 | (0.0) |
| Serbia excluding Kosovo ^f | 8 | 8 | (100.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | - | - | 0 | (0.0) |
| Kosovo ^f | 28 | 28 | (100.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | - | - | 0 | (0.0) |
| Switzerland | 23 | 21 | (91.3) | 0 | (0.0) | 0 | (0.0) | 1 | (4.3) | - | - | 1 | (4.3) |
| Tajikistan | 327 | 312 | (95.4) | 4 | (1.2) | 3 | (0.9) | 5 | (1.5) | - | - | 3 | (0.9) |
| Turkey | 544 | 482 | (88.6) | 11 | (2.0) | 1 | (0.2) | 12 | (2.2) | - | - | 38 | (7.0) |
| Turkmenistan | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ukraine | 484 | 448 | (92.6) | 8 | (1.7) | 21 | (4.3) | 7 | (1.4) | - | - | 0 | (0.0) |
| Uzbekistan | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal non-EU/EEA | 4 332 | 4 089 | (94.4) | 38 | (0.9) | 55 | (1.3) | 38 | (0.9) | 0 | (0.0) | 112 | (2.6) |
| Total European Region | 6 014 | 5 530 | (92.0) | 52 | (0.9) | 57 | (0.9) | 68 | (1.1) | 62 | (1.0) | 245 | (4.1) |
| Subtotal 18 HPCs | 4 901 | 4 644 | (94.8) | 46 | (0.9) | 53 | (1.1) | 48 | (1.0) | 3 | (0.1) | 107 | (2.2) |

^{&#}x27;European Region' comprises the 53 countries of the WHO European Region and Liechtenstein.
WHO European Region 18 tuberculosis high-priority countries presented in italics
EU/EEA: Country data are shown as missing (-) when data on treatment outcome are not reported. For inclusion in the cohort drug susceptibility data are also

EU/EEA: Country data are shown as missing (-) when data on treatment outcome are not reported. For inclusion in the cohort drug susceptibility data are also required.

HPC - high-priority countries.

Cases with unknown previous tuberculosis history are included among new tuberculosis cases.

For non-EU/EEA countries: Patients started on second-line treatment are excluded. For EU/EEA countries: Rifampicin-resistant tuberculosis cases are excluded.
In previous reports defined as 'defaulted'.
In previous reports defined as 'transferred out and unknown'.
Previous tuberculosis history is defined by previous diagnosis.
This designation is without prejudice to positions on status, and is in line with UN Security Council Resolution 1244 and the International Court of Justice Opinion on the Kosovo Declaration of Independence.

Table 23. Treatment outcome of new relapsed tuberculosis cases of foreign origin notified in 2017, European Region, 2018

| | New and | Suc | cess | Di | ied | Fa | iled | Lost to f | ollow-up ^c | Still on t | treatment | Not ev | aluated⁴ |
|-----------------------------|--|--------|---------|-----|--------|----|--------|-----------|-----------------------|------------|-----------|--------|----------|
| | relapsed tuberculosis | | | | | | | | | | | | |
| Country/area | cases of foreign origin notified in 2017 ^b | N | (%) | N | (%) | N | (%) | N | (%) | N | (%) | N | (%) |
| EU/EEA | | | | | | | | | | | | | |
| Austriae | 347 | 230 | (66.3) | 17 | (4.9) | 0 | (0.0) | 7 | (2.0) | 37 | (10.7) | 56 | (16.1) |
| Belgium ^{e,f} | 466 | 374 | (80.3) | 12 | (2.6) | 0 | (0.0) | 66 | (14.2) | 1 | (0.2) | 13 | (2.8) |
| Bulgaria | 6 | 4 | (66.7) | 0 | (0.0) | 1 | (16.7) | 1 | (16.7) | 0 | (0.0) | 0 | (0.0) |
| Croatia | 4 | 3 | (75.0) | 1 | (25.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) |
| Cyprus | 36 | 22 | (61.1) | 1 | (2.8) | 0 | (0.0) | 0 | (0.0) | 4 | (11.1) | 9 | (25.0) |
| Czech Republic | 148 | 85 | (57.4) | 8 | (5.4) | 0 | (0.0) | 36 | (24.3) | 6 | (4.1) | 13 | (8.8) |
| Denmark ^f | 168 | 58 | (34.5) | 2 | (1.2) | 2 | (1.2) | 0 | (0.0) | 2 | (1.2) | 104 | (61.9) |
| Estonia | 20 | 16 | (80.0) | 4 | (20.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) |
| Finland | 90 | 39 | (43.3) | 0 | (0.0) | 0 | (0.0) | 1 | (1.1) | 0 | (0.0) | 50 | (55.6) |
| France | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Germany | 3 665 | 2 674 | (73.0) | 128 | (3.5) | 1 | (0.0) | 92 | (2.5) | 108 | (2.9) | 662 | (18.1) |
| Greecee | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Hungarye | 22 | 14 | (63.6) | 0 | (0.0) | 1 | (4.5) | 2 | (9.1) | 2 | (9.1) | 3 | (13.6) |
| Iceland | 7 | 7 | (100.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) |
| Ireland ^f | 126 | 54 | (42.9) | 1 | (0.8) | 0 | (0.0) | 1 | (0.8) | 0 | (0.0) | 70 | (55.6) |
| Italy | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Latvia | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Liechtenstein | 0 | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - |
| Lithuania | 11 | 9 | (81.8) | 1 | (9.1) | 0 | (0.0) | 1 | (9.1) | 0 | (0.0) | 0 | (0.0) |
| Luxembourg | 24 | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 24 | (100.0) |
| Malta | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Netherlands | 569 | 492 | (86.5) | 16 | (2.8) | 0 | (0.0) | 24 | (4.2) | 7 | (1.2) | 30 | (5.3) |
| Norway ^f | 201 | 184 | (91.5) | 2 | (1.0) | 1 | (0.5) | 0 | (0.0) | 4 | (2.0) | 10 | (5.0) |
| Poland | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Portugal | 341 | 117 | (34.3) | 7 | (2.1) | 0 | (0.0) | 19 | (5.6) | 179 | (52.5) | 19 | (5.6) |
| Romania | 25 | 24 | (96.0) | 0 | (0.0) | 1 | (4.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) |
| Slovakia | 5 | 5 | (100.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) |
| Slovenia | 44 | 38 | (86.4) | 4 | (9.1) | 0 | (0.0) | 0 | (0.0) | 1 | (2.3) | 1 | (2.3) |
| Spain | 1 495 | 921 | (61.6) | 31 | (2.1) | 0 | (0.0) | 8 | (0.5) | 48 | (3.2) | 487 | (32.6) |
| Sweden | 426 | 374 | (87.8) | 15 | (3.5) | 0 | (0.0) | 8 | (1.9) | 2 | (0.5) | 27 | (6.3) |
| United Kingdom ^f | 3 577 | 2 969 | (83.0) | 129 | (3.6) | 0 | (0.0) | 216 | (6.0) | 212 | (5.9) | 51 | (1.4) |
| Subtotal EU/EEA | 11 823 | 8 713 | (73.7) | 379 | (3.2) | 7 | (0.1) | 482 | (4.1) | 613 | (5.2) | 1629 | (13.8) |
| Non EU/EEA | | | | | | | | | | | | | |
| Albania | 0 | - | - | - | - | - | - | - | - | - | - | - | - |
| Andorra | 0 | - | - | - | - | - | - | - | - | - | - | - | - |
| Armenia | 0 | - | - | - | - | - | - | - | - | - | - | - | - |
| Azerbaijan | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Belarus | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Bosnia and Herzegovina | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Georgia | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Israel | 183 | 158 | (86.3) | 8 | (4.4) | 1 | (0.5) | 4 | (2.2) | - | - | 12 | (6.6) |
| Kazakhstan | 94 | 69 | (73.4) | 13 | (13.8) | 1 | (1.1) | 4 | (4.3) | - | - | 7 | (7.4) |
| Kyrgyzstan | 0 | - | - | - | - | - | - | _ | - | - | - | _ | - |
| Moldova | 20 | 13 | (65.0) | 0 | (0.0) | 1 | (5.0) | 6 | (30.0) | - | - | 0 | (0.0) |
| Monaco | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Montenegro | 3 | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 1 | (33.3) | - | - | 2 | (66.7) |
| North Macedonia | 11 | 11 | (100.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | - | | 0 | (0.0) |
| Russia | 1 345 | 261 | (19.4) | 10 | (0.7) | 22 | (1.6) | 15 | (1.1) | - | - | 1 037 | (77.1) |
| San Marino | 0 | - | - | - | - | - | - | - | - | - | - | - | - |
| Serbia | 2 | 1 | (50.0) | 0 | (0.0) | 0 | (0.0) | 1 | (50.0) | - | - | 0 | (0.0) |
| Serbia excluding Kosovog | 0 | - | - | - | - | - | - | - | - | - | - | - | - |
| Kosovo ^g | 2 | 1 | (50.0) | 0 | (0.0) | 0 | (0.0) | 1 | (50.0) | - | - | 0 | (0.0) |
| Switzerland | 358 | 291 | (81.3) | 8 | (2.2) | 0 | (0.0) | 13 | (3.6) | - | - | 46 | (12.8) |
| Tajikistan | 0 | | | | | | | | | - | - | | |
| Turkey | 1 034 | 835 | (80.8) | 44 | (4.3) | 3 | (0.3) | 80 | (7.7) | - | | 72 | (7.0) |
| Turkmenistan | - | - | - | - | - | - | - | - | - | - | - | - | _ |
| Ukraine | 17 | 9 | (52.9) | 0 | (0.0) | 0 | (0.0) | 2 | (11.8) | - | - | 6 | (35.3) |
| Uzbekistan | 0 | _ | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal non-EU/EEA | 3 067 | 1648 | (53.7) | 83 | (2.7) | 28 | (0.9) | 126 | (4.1) | 0 | (0.0) | 1 182 | (38.5) |
| Total European Region | 14 890 | 10 361 | (69.6) | 462 | (3.1) | 35 | (0.2) | 608 | (4.1) | 613 | (4.1) | 2 811 | (18.9) |
| Subtotal 18 HPCs | 2 572 | 1 240 | (48.2) | 72 | (2.8) | 29 | (1.1) | 109 | (4.2) | 0 | (0.0) | 1 122 | (43.6) |

^{&#}x27;European Region' comprises the 53 countries of the WHO European Region and Liechtenstein.

WHO European Region as tuberculosis high-priority countries presented in italics.

EU/EEA: Country data are shown as missing (-) when data on treatment outcome are not reported. For inclusion in the cohort drug susceptibility data are also required HPC - high-priority countries.

**Gases with unknown previous tuberculosis history are included among new tuberculosis cases.

**For non-EU/EEA countries: Patients started on second-line treatment are excluded. For EU/EEA countries: Rifampicin-resistant tuberculosis cases are excluded.

*In previous reports defined as 'defaulted'.

*In previous reports defined as 'transferred out and unknown'.

**Origin is based on nationality.

*Previous tuberculosis history is defined by previous diagnosis.

**This designation is without prejudice to positions on status, and is in line with UN Security Council Resolution 1244 and the International Court of Justice Opinion on the Kosovo Declaration of Independence.

Table 24. Treatment outcome of HIV positive new and relapsed tuberculosis cases notified in 2017, European Region, 2018

| Country/area | HIV positive tuberculosis | Succ | ess | Die | d | Faile | d | Lost to fol | low-up ^c | Still on tr | eatment | Not eval | uated |
|--------------------------------------|--|-------|---------|-------|--------|---------|---------|-------------|---------------------|-------------|---------|----------|---------|
| ,,, | cases notified in 2017 ^b | N | (%) | N | (%) | N | (%) | N | (%) | N | (%) | N | (% |
| EU/EEA | | | | | | | | | | | | | |
| Austria | - | - | - | - | - | - | - | - | - | - | - | - | |
| Belgium | 38 | 31 | (81.6) | 3 | (7.9) | 0 | (0.0) | 4 | (10.5) | 0 | (0.0) | 0 | (0.0 |
| Bulgariae | 3 | 2 | (66.7) | 0 | (0.0) | 0 | (0.0) | 1 | (33.3) | 0 | (0.0) | 0 | (0.0 |
| Croatia | 0 | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - | 0 | |
| Cyprus | 0 | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - | 0 | |
| Czech Republic | 8 | 5 | (62.5) | 0 | (0.0) | 0 | (0.0) | 2 | (25.0) | 0 | (0.0) | 1 | (12.5 |
| Denmarke | 3 | 1 | (33.3) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 2 | (66.7 |
| Estonia | 10 | 8 | (80.0) | 2 | (20.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) |
| Finland | - | - | - | - | - | - | - | - | - | - | - | - | |
| France | - | - | - | - | - | - | - | - | - | - | - | - | |
| Germany | - | - | - | - | - | - | - | - | - | - | - | - | |
| Greece | - | - | - | - | - | - | - | - | - | - | - | - | |
| Hungary | 1 | 1 | (100.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) |
| Icelande | 0 | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - | 0 | |
| Ireland | 11 | 6 | (54.5) | 1 | (9.1) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 4 | (36.4 |
| Italy | - | _ | (54.5) | | (2.1) | _ | (0.0) | _ | (0.0) | _ | (0.0) | - | (501- |
| Latvia | - | - | - | _ | - | - | - | _ | _ | _ | _ | _ | _ |
| Liechtenstein | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | |
| Lithuania | 26 | 22 | (84.6) | 1 | (3.8) | 1 | (3.8) | 1 | (3.8) | 1 | (3.8) | 0 | (0.0) |
| Luxembourg | 1 | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 1 | (100.0) |
| Malta | | - | (0.0) | U | (0.0) | - | (0.0) | U | (0.0) | U | (0.0) | - | (100.0 |
| Netherlands | 23 | 19 | (82.6) | 0 | (0.0) | 0 | (0.0) | 2 | (8.7) | 0 | (0.0) | 2 | (8.7) |
| | 6 | 5 | (83.3) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 1 | (16.7) | 0 | (0.0) |
| Norway ^e | - | 5 | (83.3) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | - | (16./) | 0 | (0.0 |
| Poland | | 22 | (25.4) | - | (2.2) | - | (0, 0) | - 7 | (5.4) | | ((0,0) | - 7 | (5.0) |
| Portugal | 125 | 32 | (25.6) | 4 | (3.2) | 0 | (0.0) | 7 | (5.6) | 75 | (60.0) | 7 | (5.6) |
| Romania | 205 | 144 | (70.2) | 39 | (19.0) | 7 | (3.4) | 15 | (7.3) | 0 | (0.0) | 0 | (0.0) |
| Slovakia | 0 | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - | 0 | |
| Slovenia | 0 | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - | 0 | |
| Spain | 217 | 113 | (52.1) | 19 | (8.8) | 0 | (0.0) | 4 | (1.8) | 10 | (4.6) | 71 | (32.7) |
| Sweden | - | - | - | - | - | - | - | - | - | - | - | - | - |
| United Kingdom ^e | 136 | 99 | (72.8) | 10 | (7.4) | 0 | (0.0) | 10 | (7.4) | 17 | (12.5) | 0 | (0.0) |
| Subtotal EU/EEA | 813 | 488 | (60.0) | 79 | (9.7) | 8 | (1.0) | 46 | (5.7) | 104 | (12.8) | 88 | (10.8) |
| Non-EU/EEA | | | | | | | | | | | | | |
| Albania | 4 | 3 | (75.0) | 1 | (25.0) | 0 | (0.0) | 0 | (0.0) | - | - | 0 | (0.0) |
| Andorra | 0 | - | - | - | - | - | - | - | - | - | - | - | - |
| Armenia | 50 | 27 | (54.0) | 17 | (34.0) | 2 | (4.0) | 4 | (8.0) | - | - | 0 | (0.0) |
| Azerbaijan | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Belarus | 101 | 80 | (79.2) | 10 | (9.9) | 5 | (5.0) | 6 | (5.9) | - | - | 0 | (0.0) |
| Bosnia and Herzegovina | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Georgia | 33 | 23 | (69.7) | 2 | (6.1) | 1 | (3.0) | 3 | (9.1) | - | - | 4 | (12.1) |
| Israel | 12 | 10 | (83.3) | 0 | (0.0) | 0 | (0.0) | 1 | (8.3) | - | - | 1 | (8.3) |
| Kazakhstan | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Kyrgyzstan | 181 | 107 | (59.1) | 43 | (23.8) | 6 | (3.3) | 25 | (13.8) | - | - | 0 | (0.0) |
| Moldova | 204 | 118 | (57.8) | 58 | (28.4) | 10 | (4.9) | 9 | (4.4) | - | - | 9 | (4.4) |
| Monaco | - | _ | - | - | - | _ | _ | _ | - | - | - | - | _ |
| Montenegro | 0 | - | - | - | - | - | - | - | - | - | - | - | - |
| North Macedonia | 0 | _ | _ | - | - | - | _ | - | _ | - | - | - | |
| Russia | 9 655 | 4 111 | (42.6) | 2 119 | (21.9) | 936 | (9.7) | 754 | (7.8) | - | - | 1 735 | (18.0 |
| San Marino | 0 | 7111 | (72.0) | - 117 | (2117) | - | - | - | (7.0) | - | _ | - | (,0.0) |
| Serbia | 8 | 6 | (75.0) | 1 | (12.5) | 1 | (12.5) | 0 | (0.0) | _ | _ | 0 | (0.0) |
| Serbia excluding Kosovo ^f | 8 | 6 | | 1 | | 1 | | 0 | (0.0) | | _ | 0 | (0.0) |
| Kosovo ^f | | 6 | (75.0) | | (12.5) | | (12.5) | | (0.0) | - | _ | 0 | (0.0) |
| | 0 | - | - | - | - | - | - | - | _ | | | - | - |
| Switzerland | - 457 | | | | | | - (4.5) | | (2.5) | - | - | | (0.1 |
| Tajikistan | 157 | 115 | (73.2) | 30 | (19.1) | 7 | (4.5) | 4 | (2.5) | - | - | 1 | (0.6 |
| Turkey | 64 | 39 | (60.9) | 9 | (14.1) | 1 | (1.6) | 4 | (6.3) | - | - | 11 | (17.2) |
| Turkmenistan | 0 | - | - | - | - | - | - | - | - | - | - | - | - |
| Ukraine | 4 454 | 2 962 | (66.5) | 843 | (18.9) | 261 | (5.9) | 374 | (8.4) | - | - | 14 | (0.3) |
| Uzbekistan | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal non-EU/EEA | 14 923 | 7 601 | (50.9) | 3 133 | (21.0) | 1 2 3 0 | (8.2) | 1 184 | (7.9) | 0 | (0.0) | 1 775 | (11.9 |
| Total European Region | 15 736 | 8 089 | (51.4) | 3 212 | (20.4) | 1 238 | (7.9) | 1 2 3 0 | (7.8) | 104 | (0.7) | 1863 | (11.8 |
| | 15 143 | 7 758 | (51.2) | 3 173 | (21.0) | 1 237 | (8.2) | 1 200 | (7.9) | 1 | (0.0) | 1 774 | (11.7, |

^{&#}x27;European Region' comprises the 53 countries of the WHO European Region and Liechtenstein.

European Region 18 tuberculosis high-priority countries presented in italics.

EU/EEA: Country data are shown as missing (-) when data on treatment outcome or HIV status are not reported. For inclusion in the cohort drug susceptibility data are also required.

HIV - human immunodeficiency virus.

HPC - high-priority countries.

*Cases with unknown previous tuberculosis history are included among new tuberculosis cases.

*Rifampicin-resistant tuberculosis cases are excluded.

*In previous reports defined as 'defaulted'.

In previous reports defined as 'defaulted'.

*In previous reports defined as 'transferred out and unknown'.

*Previous tuberculosis history is defined by previous diagnosis.

*This designation is without prejudice to positions on status, and is in line with UN Security Council Resolution 1244 and the International Court of Justice Opinion on the Kosovo Declaration of Independence.

Table 25. Treatment outcome among new and relapsed tuberculosis cases in prisons notified in 2017, European Region, 2018

| Country/area | New and relapsed tuberculosis cases in prisons polified in 2017 ^b | Suc | cess | Di | ed | Fai | led | Lost to fo | ollow-up ^c | Not evaluated ^d | |
|--------------------------------------|--|-------|----------|-----|----------|-----|---------|------------|-----------------------|----------------------------|---------|
| | prisons notified in 2017 ^b | N | (%) | N | (%) | N | (%) | N | (%) | N | (%) |
| EU/EEA | | | | | | | | | | | |
| Austria | - | - | - | - | - | - | - | - | - | - | - |
| Belgium | 20 | 11 | (55.0) | 2 | (10.0) | 0 | (0.0) | 2 | (10.0) | 5 | (25.0) |
| Bulgaria | 16 | 15 | (93.8) | 0 | (0.0) | 0 | (0.0) | 1 | (6.3) | 0 | (0.0) |
| Croatia | - | - | - | - | - | - | - | - | - | - | - |
| Cyprus | - | - | - | - | - | - | - | - | - | - | - |
| Czech Republic | 23 | 18 | (78.3) | 1 | (4.3) | 0 | (0.0) | 1 | (4.3) | 3 | (13.0) |
| Denmark | - | - | - | - | - | - | - | - | - | - | - |
| Estonia | 3 | 2 | (66.7) | - | - | - | - | - | - | 1 | (33.3) |
| Finland | - | - | - | - | - | - | - | - | - | - | - |
| France | - | - | - | - | - | - | - | - | - | - | - |
| Germany | - | - | - | - | - | - | - | - | - | - | - |
| Greece | - | - | - | - | - | - | - | - | - | - | - |
| Hungary | 9 | 6 | (66.7) | 0 | (0.0) | 0 | (0.0) | 1 | (11.1) | 2 | (22.2) |
| Iceland | - | - | - | - | - | - | - | - | - | - | - |
| Ireland | 0 | - | - | - | - | - | - | - | - | - | - |
| Italy | - | - | - | - | - | - | - | - | - | - | - |
| Latvia | - | - | - | - | - | - | - | - | - | - | - |
| Liechtenstein | - | - | - | - | - | - | - | - | - | - | - |
| Lithuania | 54 | 42 | (77.8) | 2 | (3.7) | 1 | (1.9) | 2 | (3.7) | 7 | (13.0) |
| Luxembourg | 0 | - | - | - | - | - | - | - | - | - | - |
| Malta | 0 | 0 | - | 0 | - | 0 | | 0 | | 0 | |
| Netherlands | 20 | 9 | (45.0) | 0 | (0.0) | 0 | (0.0) | 3 | (15.0) | 8 | (40.0) |
| Norway | _ | - | - | _ | - | _ | - | _ | - | _ | - |
| Poland | - | - | - | - | - | - | - | - | - | - | - |
| Portugal | 34 | 16 | (47.1) | 1 | (2.9) | - | | 2 | (5.9) | 15 | (44.1) |
| Romania | 105 | 92 | (87.6) | 5 | (4.8) | 1 | (1.0) | 7 | (6.7) | 0 | (0.0) |
| Slovakia | 19 | 19 | (100.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) |
| Slovenia | = | _ | - | _ | - | _ | - | _ | - | _ | _ |
| Spain | _ | _ | - | - | - | - | - | _ | - | _ | _ |
| Sweden | _ | _ | _ | _ | _ | _ | _ | _ | - | _ | _ |
| United Kingdom | 23 | 16 | (69.6) | 0 | (0.0) | 0 | (0.0) | 4 | (17.4) | 3 | (13.0) |
| Subtotal EU/EEA | 326 | 246 | (75.5) | 11 | (3.4) | 2 | (0.6) | 23 | (7.1) | 44 | (13.5) |
| Non-EU/EEA | 320 | 240 | (13.3) | -" | (5.7) | | (0.0) | 2,5 | (1-1) | 77 | (13.3) |
| Albania | 8 | 6 | (75.0) | 1 | (12.5) | 0 | (0.0) | 1 | (12.5) | 0 | (0.0) |
| Andorra | 0 | _ | (/ 5.0) | _ | (12.3) | - | (0.0) | - | (12.3) | _ | (0.0) |
| Armenia | 11 | 9 | (81.8) | 0 | (0.0) | 2 | (18.2) | 0 | (0.0) | 0 | (0.0) |
| Azerbaijan | 188 | 174 | (92.6) | 3 | (1.6) | 2 | (1.1) | 9 | (4.8) | 0 | (0.0) |
| Belarus | 40 | 30 | (75.0) | 0 | (0.0) | 2 | (5.0) | 0 | (0.0) | 8 | (20.0) |
| Bosnia and Herzegovina | 40 | - | (73.0) | _ | (0.0) | _ | (5.0) | _ | (0.0) | - | (20.0) |
| - | 57 | 46 | (80.7) | 0 | (0.0) | 2 | (3.5) | 0 | (0.0) | 9 | (15.8) |
| Georgia Israel | - J/ | - | (00.7) | _ | (0.0) | _ | (5.5) | _ | (0.0) | - | (13.0) |
| | | | ((([| | (2.1) | | (0,4) | | (0, 4) | | (22.6) |
| Kazakhstan | 239 | 159 | (66.5) | 5 | (2.1) | 20 | (8.4) | 1 | (0.4) | 54 | (22.6) |
| Kyrgyzstan | 154 | 125 | (81.2) | 7 | (4.5) | 6 | (3.9) | 16 | (10.4) | 0 | (0.0) |
| Moldova | 66 | 59 | (89.4) | 1 | (1.5) | 2 | (3.0) | 3 | (4.5) | 1 | (1.5) |
| Monaco | - | - | - | - | - | - | - | - | - | - | - |
| Montenegro | - | - | - (00.0) | - | - (40.0) | - | - (0.0) | - | (40.0) | - | - (0.0) |
| North Macedonia | 10 | 8 | (80.0) | 1 | (10.0) | 0 | (0.0) | 1 | (10.0) | 0 | (0.0) |
| Russia | 7 205 | 3 963 | (55.0) | 255 | (3.5) | 708 | (9.8) | 369 | (5.1) | 1 910 | (26.5) |
| San Marino | 0 | - | - () | - | - (* -) | - | - (2.1) | - | - (10 -) | - | - (* -) |
| Serbia | 8 | 7 | (87.5) | 0 | (0.0) | 0 | (0.0) | 1 | (12.5) | 0 | (0.0) |
| Serbia excluding Kosovo ^e | 8 | 7 | (87.5) | 0 | (0.0) | 0 | (0.0) | 1 | (12.5) | 0 | (0.0) |
| Kosovoe | 0 | - | - | - | - | - | - | - | - | - | - |
| Switzerland | - | - | - | - | - | - | - | - | - | - | - |
| Tajikistan | 76 | 69 | (90.8) | 7 | (9.2) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) |
| Turkey | 124 | 107 | (86.3) | 5 | (4.0) | 1 | (0.8) | 9 | (7.3) | 2 | (1.6) |
| Turkmenistan | - | - | - | - | - | - | - | - | - | - | - |
| Ukraine | 567 | 433 | (76.4) | 30 | (5.3) | 48 | (8.5) | 46 | (8.1) | 10 | (1.8) |
| Uzbekistan | - | - | - | - | - | - | - | - | - | - | - |
| Subtotal non-EU/EEA | 8 753 | 5 195 | (59.4) | 315 | (3.6) | 793 | (9.1) | 456 | (5.2) | 1994 | (22.8) |
| Total European Region | 9 079 | 5 441 | (59.9) | 326 | (3.6) | 795 | (8.8) | 479 | (5.3) | 2 038 | (22.4) |
| Subtotal 18 HPC | 8 905 | 5 325 | (59.8) | 320 | (3.6) | 795 | (8.9) | 463 | (5.2) | 2 002 | (22.5) |

^{*}European Region' comprises the 53 countries of the WHO European Region and Liechtenstein.

WHO European Region 18 tuberculosis high-priority countries presented in italics.

EU/EEA: Country data are shown as missing (-) when data are not reported.

HPC - high-priority countries.

*Cases with unknown previous tuberculosis history are included among new tuberculosis cases.

*Excludes cases moved to second-line treatment.

*In previous reports defined as 'defaulted'.

*In previous reports defined as 'transferred out and unknown'. 'Not evaluated' includes 'transferred out', 'still on treatment' and any other registered case where the treatment outcome has not been evaluated.

*This designation is without prejudice to positions on status, and is in line with UN Security Council Resolution 1244 and the International Court of Justice Opinion on the Kosovo Declaration of Independence.

Table 26. Treatment outcome after 24 months of RR/MDR tuberculosis cases started on second-line treatment in 2016, European Region, 2018

| | RR/MDR tuberculosis cases started | Suc | cess | Di | ed | Fail | led | Lost to fo | llow-up ^b | Still on to | reatment | Not eva | luated |
|--|--|---|--|---|--|--|--|---|---|----------------------------|---------------------------------|--|--|
| Country/area | on second- line treatment in 2016 ³ | N | (%) | N | (%) | N | (%) | N | (%) | N | (%) | N | (% |
| EU/EEA | 2010 | | | | | | | | | | | | |
| Austria | 17 | 11 | (64.7) | 0 | (0.0) | 0 | (0.0) | 1 | (5.9) | 1 | (5.9) | 4 | (23.5) |
| Belgium | 12 | 10 | (83.3) | 0 | (0.0) | 0 | (0.0) | 2 | (16.7) | 0 | (0.0) | 0 | (0.0) |
| Bulgaria | 22 | 12 | (54.5) | 6 | (27.3) | 3 | (13.6) | 1 | (4.5) | 0 | (0.0) | 0 | (0.0) |
| Croatia | 0 | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - | 0 | _ |
| Cyprus | - | _ | - | _ | - | - | - | - | - | _ | - | - | - |
| Czech Republic | 5 | 2 | (40.0) | 1 | (20.0) | 0 | (0.0) | 0 | (0.0) | 1 | (20.0) | 1 | (20.0) |
| Denmark | 5 | 3 | (60.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 2 | (40.0) |
| Estonia | 25 | 18 | (72.0) | 4 | (16.0) | 1 | (4.0) | 0 | (0.0) | 1 | (4.0) | 1 | (4.0) |
| Finland | 6 | 4 | (66.7) | 0 | (0.0) | 0 | (0.0) | 1 | (16.7) | 0 | (0.0) | 1 | (16.7) |
| France | - | - | - | - | - | - | _ | - | - | - | - | - | - |
| Germany | 122 | 45 | (36.9) | 8 | (6.6) | 1 | (0.8) | 9 | (7.4) | 12 | (9.8) | 47 | (38.5) |
| Greece | - | - | - | _ | - | - | _ | - | - | - | - | - | _ |
| Hungary | 20 | 8 | (40.0) | 2 | (10.0) | 0 | (0.0) | 2 | (10.0) | 4 | (20.0) | 4 | (20.0) |
| Iceland | 0 | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - |
| Ireland | 7 | 5 | (71.4) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 2 | (28.6) |
| Italy | _ | _ | - | _ | - | - | (0.0) | _ | - | _ | - | _ | - |
| Latvia | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Liechtenstein | 0 | 0 | - | 0 | - | 0 | - | 0 | | 0 | - | 0 | |
| Lithuania | 255 | 110 | (43.1) | 53 | (20.8) | 14 | (5.5) | 55 | (21.6) | 18 | (7.1) | 5 | (2.0) |
| Luxembourg | - | - | - | _ | - | - | - | - | - | - | - | _ | - |
| Malta | 0 | 0 | _ | 0 | _ | 0 | _ | 0 | _ | 0 | | 0 | _ |
| Netherlands | 15 | 11 | (73.3) | 1 | (6.7) | 0 | (0.0) | 2 | (13.3) | 0 | (0.0) | 1 | (6.7) |
| Norway | 11 | 10 | (90.9) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 1 | (9.1) |
| Poland | - | - | (/0./) | _ | (0.0) | _ | (0.0) | _ | (0.0) | _ | - | _ | (7.1) |
| Portugal | 19 | 5 | (26.3) | 0 | (0.0) | 0 | (0.0) | 1 | (5.3) | 0 | (0.0) | 13 | (68.4) |
| Romania | 547 | 271 | (49.5) | 103 | (18.8) | 113 | (20.7) | 57 | (10.4) | 3 | (0.5) | 0 | (0.0) |
| Slovakia | 3 | 0 | (0.0) | 2 | (66.7) | 0 | (0.0) | 0 | (0.0) | 1 | (33.3) | 0 | (0.0) |
| Slovenia | 0 | 0 | (0.0) | 0 | (00.7) | 0 | (0.0) | 0 | (0.0) | 0 | (55.5) | 0 | (0.0) |
| Spain | _ | _ | | _ | | - | _ | _ | _ | - | _ | _ | _ |
| Sweden | 25 | 23 | (92.0) | 1 | (4.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 1 | (4.0) |
| United Kingdom | 66 | 42 | (63.6) | 4 | (6.1) | 0 | (0.0) | 8 | (12.1) | 11 | (16.7) | 1 | (1.5) |
| Subtotal EU/EEA | 1 182 | 590 | (49.9) | 185 | (15.7) | 132 | (11.2) | 139 | (11.8) | 52 | (4.4) | 84 | (7.1) |
| Non-EU/EEA | 1102 | 370 | (47.7) | 103 | (13.1) | 132 | (11.2) | 137 | (11.0) | 72 | (7.7) | 04 | (111) |
| Albania | 1 | 1 | (100.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | - | - | 0 | (0.0) |
| Andorra | 0 | | - | _ | - | _ | - | _ | - | _ | _ | - | - |
| Armenia | 118 | 58 | (49.2) | 13 | (11.0) | 14 | (11.9) | 33 | (28.0) | _ | - | 0 | (0.0) |
| Azerbaijan | 798 | 480 | (60.2) | 112 | (14.0) | 134 | (16.8) | 72 | (9.0) | _ | _ | 0 | (0.0) |
| Belarus | 1 180 | 796 | (67.5) | 96 | (8.1) | 157 | (13.3) | 115 | (9.7) | _ | _ | 16 | (1.4) |
| Bosnia and Herzegovina | 0 | - | - | _ | (0.1) | - | - | - | - | _ | _ | - | - |
| Georgia | 339 | 222 | (65.5) | 20 | (5.9) | 18 | (5.3) | 65 | (19.2) | _ | _ | 14 | (4.1) |
| Israel | 9 | 6 | (66.7) | 1 | (11.1) | 0 | (0.0) | 2 | (22.2) | _ | _ | 0 | (0.0) |
| Kazakhstan | 6 2 6 0 | 4 979 | (79.5) | 558 | (8.9) | 319 | (5.1) | 257 | (4.1) | _ | _ | 147 | (2.3) |
| Kyrgyzstan | 1 232 | 655 | (53.2) | 141 | (11.4) | 147 | (11.9) | 288 | (23.4) | _ | _ | 1 | (0.1) |
| Moldova | 979 | 518 | (52.9) | 125 | (12.8) | 132 | (13.5) | 198 | (20.2) | _ | _ | 6 | (0.1) |
| Monaco | - | - | (32.7) | - | (12.0) | - | - | - | - | _ | _ | - | - |
| | | | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| | 0 | | | | | | | 1 | (50.0) | _ | _ | 0 | (0.0) |
| Montenegro | 0 | - 1 | | 0 | (0 0) | 0 | | | | | | 0 | |
| Montenegro North Macedonia | 2 | 1 | (50.0) | 0 3 396 | (0.0) | 0 2.718 | (0.0) | | | _ | - | 2 292 | [][]]]] |
| Montenegro North Macedonia <i>Russia</i> | 2 22 593 | 1 12 141 | | 3 396 | (0.0) (15.0) | 2 718 | (12.0) | 2 046 | (9.1) | - | - | 2 292 | (10.1) |
| Montenegro North Macedonia <i>Russia</i> San Marino | 2 22 593 0 | 1 12 141 - | (50.0) (53.7) - | 3 396 - | (15.0) | 2 718 - | (12.0) | 2 046 | (9.1) - | - | | - | - |
| Montenegro North Macedonia <i>Russia</i> San Marino Serbia | 2 22 593 0 12 | 1 12 141 - 9 | (50.0) (53.7) - (75.0) | 3 396 - 2 | (15.0) - (16.7) | 2 718 - 0 | (12.0) - (0.0) | 2 046 - 1 | (9.1) - (8.3) | - | - | - 0 | (0.0) |
| Montenegro North Macedonia Russia San Marino Serbia Serbia excluding Kosovo ^d | 2 22 593 0 12 10 | 1 12 141 - 9 7 | (50.0) (53.7) - (75.0) (70.0) | 3 396 - 2 2 | (15.0) - (16.7) (20.0) | 2 718 - 0 0 | (12.0) - (0.0) (0.0) | 2 046 - 1 1 | (9.1) - (8.3) (10.0) | - - - | - - - | - 0 0 | (0.0) (0.0) |
| Montenegro North Macedonia Russia San Marino Serbia Serbia excluding Kosovo ^d Kosovo ^d | 2 22 593 0 12 10 2 | 1 12 141 - 9 7 2 | (50.0) (53.7) - (75.0) (70.0) (100.0) | 3 396 - 2 2 0 | (15.0) - (16.7) (20.0) (0.0) | 2 718 - 0 0 0 | (12.0) - (0.0) (0.0) (0.0) | 2 046 - 1 1 0 | (9.1) - (8.3) (10.0) (0.0) | - - - | - - - | - 0 0 0 | (0.0) (0.0) (0.0) |
| Montenegro North Macedonia Russia San Marino Serbia Serbia excluding Kosovo ^d Kosovo ^d Switzerland | 2 22 593 0 12 10 2 | 1 12 141 - 9 7 2 8 | (50.0) (53.7) - (75.0) (70.0) (100.0) (47.1) | 3 396 - 2 2 0 0 | (15.0) - (16.7) (20.0) (0.0) (0.0) | 2 718 - 0 0 0 0 | (12.0) - (0.0) (0.0) (0.0) (0.0) | 2 046 - 1 1 0 | (9.1) - (8.3) (10.0) (0.0) (5.9) | - - - - | - - - - | - 0 0 0 8 | (0.0) (0.0) (0.0) (0.0) (47.1) |
| Montenegro North Macedonia Russia San Marino Serbia Serbia excluding Kosovo ^d Kosovo ^d Switzerland Tajikistan | 2 22 593 0 12 10 2 17 681 | 1 12 141 - 9 7 2 8 440 | (50.0) (53.7) - (75.0) (70.0) (100.0) (47.1) (64.6) | 3 396 - 2 2 0 0 115 | (15.0) - (16.7) (20.0) (0.0) (0.0) (16.9) | 2718 - 0 0 0 0 0 62 | (12.0) - (0.0) (0.0) (0.0) (0.0) (0.0) (9.1) | 2 046 - 1 1 0 1 58 | (9.1) - (8.3) (10.0) (0.0) (5.9) (8.5) | - - - - | - - - - | - 0 0 0 8 6 | - (0.0) (0.0) (0.0) (47.1) (0.9) |
| Montenegro North Macedonia Russia San Marino Serbia Serbia excluding Kosovo ^d Kosovo ^d Switzerland Tajikistan Turkey | 2 22 593 0 12 10 2 17 681 211 | 1 12 141 - 9 7 2 8 440 131 | (50.0) (53.7) - (75.0) (70.0) (100.0) (47.1) (64.6) (62.1) | 3 396 - 2 2 0 0 115 19 | (15.0) - (16.7) (20.0) (0.0) (0.0) (16.9) (9.0) | 2718 - 0 0 0 0 0 62 16 | (12.0) - (0.0) (0.0) (0.0) (0.0) (0.0) (9.1) (7.6) | 2 046 - 1 1 0 1 58 27 | (9.1) - (8.3) (10.0) (0.0) (5.9) (8.5) (12.8) | - - - - - | - - - - - | - 0 0 0 8 6 | (0.0) (0.0) (0.0) (0.0) (47.1) (0.9) (8.5) |
| Montenegro North Macedonia Russia San Marino Serbia Serbia excluding Kosovo ^d Kosovo ^d Switzerland Tajikistan Turkey Turkmenistan | 2 22 593 0 12 10 2 17 681 211 557 | 1 12 141 - 9 7 2 8 440 131 303 | (50.0) (53.7) - (75.0) (70.0) (100.0) (47.1) (64.6) (62.1) (54.4) | 3 396 - 2 2 0 0 115 19 93 | (15.0) - (16.7) (20.0) (0.0) (0.0) (16.9) (9.0) (16.7) | 2718 - 0 0 0 0 0 62 16 99 | (12.0) - (0.0) (0.0) (0.0) (0.0) (0.0) (9.1) (7.6) (17.8) | 2 046 - 1 1 0 1 58 27 52 | (9.1) - (8.3) (10.0) (0.0) (5.9) (8.5) (12.8) (9.3) | - - - - - | | - 0 0 0 8 6 18 | - (0.0) (0.0) (0.0) (0.0) (47.1) (0.9) (8.5) (1.8) |
| Montenegro North Macedonia Russia San Marino Serbia Serbia excluding Kosovo ^d Kosovo ^d Switzerland Tajikistan Turkey Turkmenistan Ukraine | 2 22 593 0 12 10 2 17 681 211 557 7 277 | 1 12 141 - 9 7 2 8 440 131 303 3 590 | (50.0) (53.7) - (75.0) (70.0) (100.0) (47.1) (64.6) (62.1) (54.4) (49.3) | 3 396 - 2 2 0 0 115 19 93 1 160 | (15.0) - (16.7) (20.0) (0.0) (0.0) (16.9) (9.0) (16.7) (15.9) | 2718 - 0 0 0 0 0 62 16 99 1308 | (12.0) - (0.0) (0.0) (0.0) (0.0) (0.0) (9.1) (7.6) (17.8) (18.0) | 2 046 - 1 1 0 1 58 27 52 1149 | (9.1) - (8.3) (10.0) (0.0) (5.9) (8.5) (12.8) (9.3) (15.8) | - - - - - | - | - 0 0 0 8 6 18 10 70 | - (0.0) (0.0) (0.0) (0.0) (47.1) (0.9) (8.5) (1.8) (1.0) |
| Montenegro North Macedonia Russia San Marino Serbia Serbia excluding Kosovo ^d Kosovo ^d Switzerland Tajikistan Turkey Turkmenistan Ukraine Uzbekistan | 2 22 593 0 12 10 2 17 681 211 557 7 277 1 986 | 1 12 141 - 9 7 2 8 440 131 303 3 590 1 140 | (50.0) (53.7) - (75.0) (70.0) (100.0) (47.1) (64.6) (62.1) (54.4) (49.3) (57.4) | 3 396 - 2 2 0 0 115 19 93 1 160 311 | (15.0) - (16.7) (20.0) (0.0) (0.0) (16.9) (9.0) (16.7) (15.9) (15.7) | 2718 - 0 0 0 0 62 16 99 1308 109 | (12.0) - (0.0) (0.0) (0.0) (0.0) (0.0) (9.1) (7.6) (17.8) (18.0) (5.5) | 2 046 - 1 1 0 1 58 27 52 1149 244 | (9.1) - (8.3) (10.0) (0.0) (5.9) (8.5) (12.8) (9.3) (15.8) (12.3) | - - - - - - | - - - - - - - | - 0 0 0 8 6 18 10 70 | - (0.0) (0.0) (0.0) (47.1) (0.9) (8.5) (1.8) (1.0) (9.2) |
| Montenegro North Macedonia Russia San Marino Serbia Serbia excluding Kosovo ^d Kosovo ^d Switzerland Tajikistan Turkey Turkmenistan Ukraine | 2 22 593 0 12 10 2 17 681 211 557 7 277 | 1 12 141 - 9 7 2 8 440 131 303 3 590 | (50.0) (53.7) - (75.0) (70.0) (100.0) (47.1) (64.6) (62.1) (54.4) (49.3) | 3 396 - 2 2 0 0 115 19 93 1 160 | (15.0) - (16.7) (20.0) (0.0) (0.0) (16.9) (9.0) (16.7) (15.9) | 2718 - 0 0 0 0 0 62 16 99 1308 | (12.0) - (0.0) (0.0) (0.0) (0.0) (0.0) (9.1) (7.6) (17.8) (18.0) | 2 046 - 1 1 0 1 58 27 52 1149 | (9.1) - (8.3) (10.0) (0.0) (5.9) (8.5) (12.8) (9.3) (15.8) | - - - - - | - | - 0 0 0 8 6 18 10 70 | - (0.0) (0.0) (0.0) (0.0) (47.1) (0.9) (8.5) (1.8) (1.0) |

European Region' comprises the 53 countries of the WHO European Region and Liechtenstein.
WHO European Region 18 tuberculosis high-priority countries presented in Italics.
EU/EEA: Country data are shown as missing (-) when data on treatment outcome are not reported. For inclusion in the cohort drug susceptibility data are also required HPC - high-priority countries.
RR/MDR - rifampicin-resistant and multidrug-resistant.
**For EU/EEA countries, cases diagnosed post mortem are excluded, and cases with no treatment enrollment data reported are assumed to be enrolled to treatment.
**In previous reports defined as 'transferred out and unknown'.
**In previous reports defined as 'transferred out and unknown'.
**In previous reports defined as 'transferred out and unknown'.
**In signation is without prejudice to positions on status, and is in line with UN Security Council Resolution 1244 and the International Court of Justice Opinion on the Kosovo Declaration of Independence.

Table 27. Treatment outcome after 24 months of laboratory-confirmed MDR tuberculosis cases notified in 2016, EU/EEA, 2018

| Country | All MDR tuberculosis cases notified | Suc | tess | Di | ed | Fai | led | Lost to fo | llow-up ^b | Still on t | reatment | Not eva | luated ^c |
|----------------|---|-----|--------|-----|--------|-----|--------|------------|----------------------|------------|----------|---------|---------------------|
| | in 2016 | N | (%) | N | (%) | N | (%) | N | (%) | N | (%) | N | (%) |
| EU/EEA | | | | | | | | | | | | | |
| Austria | 17 | 11 | (64.7) | 0 | (0.0) | 0 | (0.0) | 1 | (5.9) | 1 | (5.9) | 4 | (23.5) |
| Belgium | 10 | 9 | (90.0) | 0 | (0.0) | 0 | (0.0) | 1 | (10.0) | 0 | (0.0) | 0 | (0.0) |
| Bulgaria | 19 | 10 | (52.6) | 6 | (31.6) | 3 | (15.8) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) |
| Croatia | 0 | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - |
| Cyprus | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Czech Republic | 6 | 1 | (16.7) | 2 | (33.3) | 0 | (0.0) | 1 | (16.7) | 1 | (16.7) | 1 | (16.7) |
| Denmark | 4 | 3 | (75.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 1 | (25.0) |
| Estonia | 24 | 17 | (70.8) | 5 | (20.8) | 1 | (4.2) | 0 | (0.0) | 1 | (4.2) | 0 | (0.0) |
| Finland | 6 | 4 | (66.7) | 0 | (0.0) | 0 | (0.0) | 1 | (16.7) | 0 | (0.0) | 1 | (16.7) |
| France | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Germany | 105 | 35 | (33.3) | 8 | (7.6) | 1 | (1.0) | 8 | (7.6) | 11 | (10.5) | 42 | (40.0) |
| Greece | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Hungary | 18 | 8 | (44.4) | 2 | (11.1) | 0 | (0.0) | 0 | (0.0) | 4 | (22.2) | 4 | (22.2) |
| Iceland | 0 | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - |
| Ireland | 6 | 5 | (83.3) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 1 | (16.7) |
| Italy | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Latvia | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Liechtenstein | 0 | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - |
| Lithuania | 244 | 103 | (42.2) | 52 | (21.3) | 14 | (5.7) | 52 | (21.3) | 18 | (7.4) | 5 | (2.0) |
| Luxembourg | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Malta | 0 | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - |
| Netherlands | 14 | 10 | (71.4) | 1 | (7.1) | 0 | (0.0) | 2 | (14.3) | 0 | (0.0) | 1 | (7.1) |
| Norway | 11 | 10 | (90.9) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 1 | (9.1) |
| Poland | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Portugal | 15 | 3 | (20.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 12 | (80.0) |
| Romania | 470 | 223 | (47.4) | 95 | (20.2) | 104 | (22.1) | 46 | (9.8) | 2 | (0.4) | 0 | (0.0) |
| Slovakia | 3 | 0 | (0.0) | 2 | (66.7) | 0 | (0.0) | 0 | (0.0) | 1 | (33.3) | 0 | (0.0) |
| Slovenia | 0 | 0 | - | 0 | - | 0 | _ | 0 | _ | 0 | - | 0 | - |
| Spain | _ | - | - | _ | - | _ | - | - | - | _ | - | _ | - |
| Sweden | 22 | 20 | (90.9) | 1 | (4.5) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 1 | (4.5) |
| United Kingdom | 58 | 34 | (58.6) | 6 | (10.3) | 0 | (0.0) | 7 | (12.1) | 10 | (17.2) | 1 | (1.7) |
| Total EU/EEA | 1 052 | 506 | (48.1) | 180 | (17.1) | 123 | (11.7) | 119 | (11.3) | 49 | (4.7) | 75 | (7.1) |

WHO European Region 18 tuberculosis high-priority countries presented in italics.

Country data are shown as missing (-) when data on treatment outcome are not reported. For inclusion in the cohort drug susceptibility data are also required.

MDR — multidrug-resistant.

* Laboratory-confirmed cases — culture-positive OR microscopy-positive and nucleic acid amplification test-positive cases.

b In previous reports defined as 'defaulted'.

* In previous reports defined as 'transferred out and unknown'.

Table 28. Treatment outcome after 24 months of XDR tuberculosis cases started on second-line treatment in 2016, European Region, 2018

| | XDR tuberculosis cases started | Suc | ess | Die | ed | Fail | led | Lost to fo | llow-upb | Still on t | reatment | Not eva | luated |
|--------------------------|--|-------|---------|-------|--------|-------|--------|------------|----------|------------|----------|---------|---------|
| Country/area | on second- line treatment in 2016 ³ | N | (%) | N | (%) | N | (%) | N | (%) | N | (%) | N | (% |
| EU/EEA | 111 2010 | | | | | | | | | | | | |
| Austria | 2 | 1 | (50.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 1 | (50.0) | 0 | (0.0) |
| Belgium | 0 | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - |
| Bulgaria | 0 | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - |
| Croatia | 0 | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - |
| Cyprus | 0 | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - |
| Czech Republic | 0 | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - |
| Denmark | 0 | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - |
| Estonia | 6 | 3 | (50.0) | 2 | (33.3) | 0 | (0.0) | 0 | (0.0) | 1 | (16.7) | 0 | (0.0) |
| Finland | 1 | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 1 | (100.0) |
| France | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Germany | 7 | 3 | (42.9) | 1 | (14.3) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 3 | (42.9) |
| Greece | 0 | 0 | | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - |
| Hungary | 7 | 3 | (42.9) | 1 | (14.3) | 0 | (0.0) | 0 | (0.0) | 1 | (14.3) | 2 | (28.6) |
| Iceland | 0 | 0 | | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - |
| Ireland | 0 | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - |
| Italy | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Latvia | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Liechtenstein | 0 | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - |
| Lithuania | 58 | 0 | (0.0) | 17 | (29.3) | 7 | (12.1) | 14 | (24.1) | 18 | (31.0) | 2 | (3.4) |
| Luxembourg | 0 | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - |
| Malta | 0 | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - |
| Netherlands | 0 | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - |
| Norway | 0 | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - |
| Poland | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Portugal | 4 | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 4 | (100.0) |
| Romania | 68 | 23 | (33.8) | 20 | (29.4) | 21 | (30.9) | 3 | (4.4) | 1 | (1.5) | 0 | (0.0) |
| Slovakia | 0 | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - |
| Slovenia | 0 | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - |
| Spain | 0 | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - | 0 | - |
| Sweden | 4 | 2 | (50.0) | 1 | (25.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 1 | (25.0) |
| United Kingdom | 7 | 3 | (42.9) | 0 | (0.0) | 0 | (0.0) | 1 | (14.3) | 3 | (42.9) | 0 | (0.0) |
| Subtotal EU/EEA | 164 | 38 | (23.2) | 42 | (25.6) | 28 | (17.1) | 18 | (11.0) | 25 | (15.2) | 13 | (7.9) |
| Non-EU/EEA | | | | | | | | | | | | | |
| Albania | 0 | - | - | - | - | - | - | - | - | - | - | - | - |
| Andorra | 0 | - | - | - | - | - | - | - | - | - | - | - | - |
| Armenia | 10 | 3 | (30.0) | 4 | (40.0) | 0 | (0.0) | 3 | (30.0) | - | - | 0 | (0.0) |
| Azerbaijan | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Belarus | 393 | 207 | (52.7) | 43 | (10.9) | 102 | (26.0) | 32 | (8.1) | - | - | 9 | (2.3) |
| Bosnia and Herzegovina | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Georgia | 55 | 31 | (56.4) | 4 | (7.3) | 8 | (14.5) | 9 | (16.4) | - | - | 3 | (5.5) |
| Israel | 2 | 2 | (100.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | - | - | 0 | (0.0) |
| Kazakhstan | 435 | 207 | (47.6) | 25 | (5.7) | 107 | (24.6) | 76 | (17.5) | - | - | 20 | (4.6) |
| Kyrgyzstan | 68 | 10 | (14.7) | 16 | (23.5) | 30 | (44.1) | 12 | (17.6) | - | - | 0 | (0.0) |
| Moldova | 65 | 17 | (26.2) | 11 | (16.9) | 18 | (27.7) | 18 | (27.7) | - | - | 1 | (1.5) |
| Monaco | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Montenegro | 1 | 1 | (100.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | - | - | 0 | (0.0) |
| North Macedonia | 0 | - | - | - | - | - | - | - | - | - | - | - | - |
| Russia | 2 909 | 1 094 | (37.6) | 652 | (22.4) | 633 | (21.8) | 213 | (7.3) | - | - | 317 | (10.9) |
| San Marino | 0 | - | - | - | - | - | - | - | - | - | - | - | - |
| Serbia | 1 | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | - | - | 1 | (100.0) |
| Serbia excluding Kosovod | 1 | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | - | - | 1 | (100.0) |
| Kosovod | 0 | - | | - | | - | _ | - | | - | - | - | - 1 |
| Switzerland | 0 | - | - | - | - | - | - | - | - | - | - | - | - |
| Tajikistan | 43 | 20 | (46.5) | 9 | (20.9) | 8 | (18.6) | 3 | (7.0) | - | - | 3 | (7.0) |
| Turkey | 9 | 5 | (55.6) | 0 | (0.0) | 0 | (0.0) | 1 | (11.1) | - | - | 3 | (33.3) |
| Turkmenistan | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ukraine | 1 353 | 501 | (37.0) | 245 | (18.1) | 447 | (33.0) | 156 | (11.5) | - | - | 4 | (0.3) |
| Uzbekistan | 184 | 91 | (49.5) | 48 | (26.1) | 15 | (8.2) | 11 | (6.0) | - | - | 19 | (10.3) |
| Subtotal non-EU/EEA | 5 528 | 2 189 | (39.6) | 1 057 | (19.1) | 1368 | (24.7) | 534 | (9.7) | 0 | (0.0) | 380 | (6.9) |
| Total European Region | 5 692 | 2 227 | (39.1) | 1099 | (19.3) | 1396 | (24.5) | 552 | (9.7) | 25 | (0.4) | 393 | (6.9) |
| Subtotal 18 HPC | 5 656 | 2 212 | (39.1) | 1 096 | (19.4) | 1 396 | (24.7) | 551 | (9.7) | 20 | (0.4) | 381 | (6.7) |

^{&#}x27;European Region' comprises the 53 countries of the WHO European Region and Liechtenstein.
WHO European Region 18 tuberculosis high-priority countries presented in Italics.
EU/EEA: Country data are shown as missing (-) when data on treatment outcome are not reported. For inclusion in the cohort, drug susceptibility data are also required.
HPC - high-priority countries.
XDR - extensively drug-resistant.
* For EU/EEA countries cases diagnosed post mortem are excluded, and cases with no treatment enrollment data reported are assumed to be enrolled to treatment.
* In previous reports defined as 'transferred out and unknown'.

This designation is without prejudice to positions on status, and is in line with UN Security Council Resolution 1244 and the International Court of Justice Opinion on the Kosovo Declaration of Independence.

Table 29. Treatment outcome after 36 months of XDR tuberculosis notified in 2015, EU/EEA, 2018

| Country | XDR tuberculosis cases | Suc | cess | ١ | Died | |
|----------------|------------------------|-----|---------|----|--------|--|
| | reported in 2015 | N | (%) | N | (%) | |
| EU/EEA | | | | | | |
| Austria | 1 | 1 | (100.0) | 0 | (0.0) | |
| Belgium | 2 | 2 | (100.0) | 0 | (0.0) | |
| Bulgaria | 4 | 2 | (50.0) | 0 | (0.0) | |
| Croatia | 0 | 0 | _ | 0 | - | |
| Cyprus | 0 | 0 | - | 0 | - | |
| Czech Republic | 1 | 0 | (0.0) | 0 | (0.0) | |
| Denmark | 1 | 0 | (0.0) | 0 | (0.0) | |
| Estonia | 9 | 3 | (33.3) | 2 | (22.2) | |
| Finland | _ | - | - | - | - | |
| France | - | - | _ | - | - | |
| Germany | 9 | 4 | (44.4) | 0 | (0.0) | |
| Greece | 0 | 0 | _ | 0 | _ | |
| Hungary | 1 | 0 | (0.0) | 0 | (0.0) | |
| Iceland | 0 | 0 | _ | 0 | _ | |
| Ireland | 0 | 0 | - | 0 | - | |
| Italy | - | - | _ | - | - | |
| Latvia | - | - | - | - | - | |
| Liechtenstein | 0 | 0 | _ | 0 | - | |
| Lithuania | 59 | 15 | (25.4) | 22 | (37.3) | |
| Luxembourg | 0 | 0 | _ | 0 | - | |
| Malta | 0 | 0 | - | 0 | - | |
| Netherlands | 0 | 0 | _ | 0 | - | |
| Norway | 0 | 0 | - | 0 | - | |
| Poland | - | - | _ | - | - | |
| Portugal | 6 | 2 | (33.3) | 2 | (33.3) | |
| Romania | 71 | 28 | (39.4) | 10 | (14.1) | |
| Slovakia | 0 | 0 | - | 0 | - | |
| Slovenia | 0 | 0 | _ | 0 | - | |
| Spain | 0 | 0 | - | 0 | - | |
| Sweden | 1 | 1 | (100.0) | 0 | (0.0) | |
| United Kingdom | 9 | 7 | (77.8) | 2 | (22.2) | |
| Total EU/EEA | 174 | 65 | (37.4) | 38 | (21.8) | |

WHO European Region 18 tuberculosis high-priority countries presented in italics.
EU/EEA: Country data are shown as missing (-) when data on treatment outcome are not reported. For inclusion in the cohort, drug susceptibility data are also required.
XDR – extensively drug-resistant.

a In previous reports defined as 'defaulted'.
b In previous reports defined as 'transferred out and unknown'.

| Fa | iled | Lost to fo | ollow-up ^a | Not eva | aluated ^b |
|----|--------|------------|-----------------------|---------|----------------------|
| N | (%) | N | (%) | N | (%) |
| | | | | | |
| 0 | (0.0) | 0 | (0.0) | 0 | (0.0) |
| 0 | (0.0) | 0 | (0.0) | 0 | (0.0) |
| 0 | (0.0) | 2 | (50.0) | 0 | (0.0) |
| 0 | _ | 0 | _ | 0 | - |
| 0 | - | 0 | - | 0 | - |
| 0 | (0.0) | 1 | (100.0) | 0 | (0.0) |
| 0 | (0.0) | 0 | (0.0) | 1 | (100.0) |
| 4 | (44.4) | 0 | (0.0) | 0 | (0.0) |
| - | - | - | - | - | - |
| - | _ | - | - | - | - |
| 0 | (0.0) | 0 | (0.0) | 5 | (55.6) |
| 0 | - | 0 | - | 0 | - |
| 0 | (0.0) | 0 | (0.0) | 1 | (100.0) |
| 0 | - | 0 | - | 0 | - |
| 0 | - | 0 | - | 0 | - |
| - | - | - | - | - | - |
| - | - | - | - | - | - |
| 0 | - | 0 | - | 0 | - |
| 9 | (15.3) | 13 | (22.0) | 0 | (0.0) |
| 0 | - | 0 | _ | 0 | - |
| 0 | - | 0 | - | 0 | - |
| 0 | - | 0 | - | 0 | - |
| 0 | - | 0 | - | 0 | - |
| - | - | - | - | - | - |
| 0 | (0.0) | 1 | (16.7) | 1 | (16.7) |
| 28 | (39.4) | 5 | (7.0) | 0 | (0.0) |
| 0 | - | 0 | - | 0 | - |
| 0 | - | 0 | - | 0 | - |
| 0 | - | 0 | - | 0 | - |
| 0 | (0.0) | 0 | (0.0) | 0 | (0.0) |
| 0 | (0.0) | 0 | (0.0) | 0 | (0.0) |
| 41 | (23.6) | 22 | (12.6) | 8 | (4.6) |

Table 30. Monitoring the WHO Europe Roadmap to Implement the Tuberculosis action plan for the WHO European Region, 2016-2020, 2018

| | 1. INTEGRATE | D, PATIENT-CE | NTERED CARE AN | ID PREVENT | TON | | | | | | | | |
|-----------------|--|--|--|---|---|---|---|---|--|--|---|---|--|
| | Systematic screening of contacts and high- risk groups | Early diagno | sis of all forms o in | | iversal acces use of rapid | | susceptibili | ty testing, | | B, including o | | nd continuity of t TB, and patien dherence | |
| Country/area | s.A.s. Coverage of population at risk with systematic screening for active TB and LTB1. Target = 80% | 1.B.1 Percentage of TB patients diagnosed using WHO recommended rapid tests (G). Target: 30% | 1.B.2 First-line DST coverage (%) among all bacteriologically confirmed TB cases (G)*. Target = 100% | 4.B.3 RR/MDR TB case detection rate (%)*. Target = 85% | 1.8.4 TB notification rate per soo ooo population (E). Target = 24.6 per soo ooo population | 1.B.5 TB case-detection rate (%). Target: Increase | 1.B.6 Percentage of RR/MDR TB anong new TB patients (E). Target: Decrease | 1.B.7 Percentage of RR/MDR TB among previously treated TB patients*. Target: Decrease | s.C.: Percentage of hospitalisation of new TB patients (E). Target: Decrease | 1.C.2 Percentage of detected RR/ MDR TB enrolled in treatment (G). Target = 100% | 1.C.3 Treatment success rate (%) among all new and relapsed TB patients (G). Target = 85% | 1.C.4 Treatment success rate (%) among the Rk/MDR TB treatment cohort (G) (E). Target = 75% | 1.C.5 TB mortality rate (ICD A15-19) (G) (E). Target = 27 per 100 000 population |
| Austria | - | (80.0) | (87.9) | (136.4) | (5.3) | (74.6) | (4.8) | (21.4) | | (100.0) | (69.4) | (64.7) | (0.4) |
| Belgium | - | (57.3) | (90.4) | (53.8) | (8.0) | (91.3) | (1.2) | (2.9) | | (100.0) | (79.3) | (83.3) | (0.3) |
| Bulgaria | (96.4) | (0.5) | (89.3) | (116.7) | (18.3) | (80.6) | (2.5) | (21.3) | (90.0) | (100.0) | (84.2) | (54.5) | (1.0) |
| Croatia | | (0.0) | (92.0) | | (8.9) | (104.0) | (0.4) | (6.3) | - | (100.0) | (65.9) | - | (0.8) |
| Cyprus | - | (33.3) | (100.0) | - | (5.9) | (78.5) | (0.0) | (0.0) | - | - | (66.7) | - | (0.3) |
| Czech Republic | - | (63.0) | (85.8) | (100.0) | (4.1) | (75.0) | (3.6) | (0.0) | (95.0) | (100.0) | (68.9) | (40.0) | (0.3) |
| Denmark | - | (97.0) | (96.1) | (100.0) | (4.7) | (87.1) | (2.5) | (0.0) | - | (100.0) | (39.4) | (60.0) | (0.3) |
| stonia | - | (85.5) | (94.4) | (100.0) | (11.0) | (85.3) | (22.5) | (52.6) | (60.0) | (97.0) | (80.4) | (72.0) | (0.8) |
| inland | - | (45.9) | (90.2) | (66.7) | (4.2) | (88.1) | (3.1) | - (:) | (80.0) | (75.0) | (35.9) | (66.7) | (0.3) |
| rance | (77.3) | (0.0) | (4.0) | (153.5) | (7.1) | (82.4) | (2.6) | (13.2) | (80.0) | (100.0) | - | - | (0.5) |
| Germany | | (82.6) | (85.8) | (91.7) | (6.4) | (86.3) | (2.9) | (17.9) | - | (97.6) | (71.1) | (36.9) | (0.4) |
| ireece | | (44.6) | (64.9) | (100.0) | (3.8) | (86.4) | (4.3) | (0.0) | - | (100.0) | · · | | (0.5) |
| lungary | - | (0.0) | (89.8) | (100.0) | (6.2) | (97.1) | (2.6) | (13.9) | (60.0) | (100.0) | (67.1) | (40.0) | (0.4) |
| celand | | (100.0) | (100.0) | (200.0) | (2.3) | (88.9) | (0.0) | (0,0) | (52.0) | (100.0) | (92.3) | (74.4) | (0.4) |
| reland taly | | (46.3) (0.0) | (88.9) (81.6) | (300.0) | (6.1) (6.2) | (86.5) (87.8) | (4.2) (2.1) | (0.0) (17.9) | (52.0) | (100.0) | (35.5) | (71.4) | (0.4) |
| atvia | _ | (0.0) | (61.6) | (0.0) | (0.2) | (07.0) | (2.1) | (17.9) | (95.0) | _ | _ | _ | (2.7) |
| iechtenstein | | (100.0) | (100.0) | | (2.6) | - | (0.0) | | (/3.0) | | (100.0) | | (0.0) |
| Lithuania | (100.0) | (0.0) | (100.0) | (98.9) | (37.8) | (88.6) | (12.8) | (42.2) | (80.0) | (100.0) | (82.9) | (43.1) | (5.4) |
| .uxembourg | - | (0.0) | (100.0) | (100.0) | (7.0) | (87.5) | - | - | (80.0) | (100.0) | (0.0) | - | (0.2) |
| Malta | - | (0.0) | (93.1) | - | (11.6) | (91.7) | (0.0) | - | - | - | - | | (0.5) |
| Vetherlands | - | (70.0) | (86.3) | (60.0) | (4.6) | (86.9) | (0.9) | (0.0) | (30.0) | (100.0) | (86.6) | (73.3) | (0.2) |
| Vorway | (87.5) | (79.9) | (93.1) | (100.0) | (3.6) | (85.9) | (6.0) | (0.0) | (80.0) | (100.0) | (90.8) | (90.9) | (0.3) |
| oland | - | (20.3) | (90.3) | (87.3) | (13.7) | (86.6) | (1.2) | (4.1) | - | (100.0) | - | | (1.2) |
| ortugal | (87.1) | (56.7) | (70.3) | (55.6) | (20.5) | (88.0) | (0.9) | (5.3) | (30.0) | (92.3) | (37.6) | (26.3) | (1.8) |
| Romania | (98.8) | (23.7) | (91.4) | (91.3) | (59.3) | (89.1) | (2.8) | (14.6) | (80.0) | (98.2) | (86.2) | (49.5) | (4.4) |
| lovakia | (89.3) | (24.2) | (84.2) | (75.0) | (5.0) | (88.1) | (0.9) | (13.3) | (90.0) | (100.0) | (91.9) | (0.0) | (0.6) |
| lovenia | - | (82.7) | (100.0) | - | (4.7) | (89.1) | (0.0) | (0.0) | - | - | (76.6) | | (0.6) |
| Spain | - | (25.7) | (37.6) | (24.6) | (9.6) | (102.3) | (1.7) | (8.5) | - | (100.0) | (60.5) | | (0.6) |
| Sweden | | (68.3) | (98.0) | (100.0) | (4.7) | (86.7) | (1.8) | (18.2) | (50.0) | (100.0) | (86.6) | (92.0) | (0.3) |
| United Kingdom | - | (7.7) | (97.3) | (94.3) | (7.2) | (88.4) | (1.2) | (5.3) | - | (91.7) | (81.5) | (63.6) | (0.5) |
| Subtotal EU/EEA | (86.6) | (27.9) | (80.2) | (83.2) | (9.8) | (87.8) | (2.7) | (14.4) | - | (98.4) | (75.5) | (49.9) | (0.7) |

Subtotal EU/EEA (86.6) (27.9) (80.2) (83.2) (9.8) (87.8) (2.7) (14.4) - (98.4) (75.5) (49.9)

'European Region' comprises the 53 countries of the WHO European Region and Liechtenstein.

WHO European Region 18 tuberculosis high-priority countries presented in italics. Numbers in red indicate that the target is not met, numbers in green that the target is met. Black text indicates that the it cannot be assessed. For indicator 1.B.4 and 1.C.5 numbers in green indicate also that the country/(sub)region is on track to meet the 2020 target

DST - drug susceptibility testing.

E - WHO European Region indicator.

G - end TB Strategy global indicator.

HIV - human immunodeficiency virus.

HPC - high-priority countries

LTBI - latent tuberculosis infection.

PLHIV - people living with HIV.

RR/MDR - rifampicin-resistant and multidrug-resistant.

a Only pulmonary cases included.
b Target not assessed for countries with less than 50% reporting completeness for HIV.

| | | | | | | | | 2. BOLD POLICI | ES AND SUPPOR | TIVE SYSTEMS | | | 3. INTENSIFIED RESEARCH AND INNOVATION | |
|---|--|--|--|--|---|--|---|---|---|---|---|---|--|------------------|
| | Collabo | | HIV activition | es and manag bidities | ement of | Management preventive of person risk, and va again | treatment s at high accination | Political commitment with adequate resources, including universal health coverage policy | Health systems strengthening in all functions, including well- aligned financing mechanisms for TB and human resources | Regulatory frameworks for case-based surveillance, strengthening vital registration, quality and rational use of medicines, and pharmacovigilance | Community systems and civil society engagement | Social protection, poverty alleviation and actions on other determinants of TB, such as migration and prisons | Discovery, development and rapid uptake of new tools, interventions and strategies | |
| | 4.D.1 TB/HIV case detection rate (%). Target: 90% | 1.D.2 HIV testing coverage (%) (G) (E). Target = 100% | 1.D.3 Percentage of HIV among all TB. Target: decrease ^b | 1.D.4 ART coverage (%) among TB/ HIV co-infected. Target = 100% | 1.D.5 LTBI treatment coverage (%) among PLHIV (G). Target = 30% | 1.E.1 Contact investigation coverage (%) (G)(E). Target = 90% | 1.E.2 LTBI treatment coverage (%) in childhood TB contacts aged under 5 years (G) (E). Target = 90% | 2.A.1 Number of Member States that have a regular TB control/elimination performance publication every five years (E). I arget = 53 | 2. B.1 Percentage of TB patients and their households that experience catastrophic financial consequences due to TB (G) (E). Target; close to o | 2.C.1 Teatment coverage (%) with new TB drugs (G) (E). Target = 20% | 2.0.1 Number of Member States with functioning multi-stakeholder coalitions advocating for TB care and resources. Target = 53 | 2.E.1 Treatment success rate (%) of new and relapse TB cases among prisoners. Target = 85.0% | 3.A.1 European TB research Initiative established by mid-2016. Target: established | |
| | - | - | - | - | - | - | - | - | - | - | - | - | - | Austria |
| | (82.5) | (50.7) | (7.2) | - | - | - | - | - | - | - | - | (55.0) | - | Belgium |
| | (0.0) | (82.3) | (0.0) | - | - | - | - | - | - | - | - | (93.8) | - | Bulgaria |
| | (0.0) | (0.5) | (0.0) | - | - | - | - | - | - | - | - | - | - | Croatia |
| | - | (80.4) | (2.4) | - | - | _ | - | - | - | - | - | - | - | Cyprus |
| | (66.7) | (41.8) | (2.1) | - | - | - | - | - | - | - | - | (78.3) | - | Czech Republic |
| | (37.5) | (81.1) | (1.3) | - | - | _ | - | - | - | - | - | - | - | Denmark |
| | (80.0) | (93.1) | (9.5) | (83.3) | - | - | - | - | - | - | - | (66.7) | - | Estonia |
| | - | - | - | - | - | - | - | - | - | - | - | - | - | Finland |
| | - | - | - | - | - | - | - | - | - | - | - | - | - | France |
| | - | - | - | - | - | - | - | - | - | - | - | - | - | Germany |
| | (62.5) | (84.5) | (3.0) | - | - | - | - | - | - | - | - | - | - | Greece |
| | (40.0) | (3.5) | (13.0) | - | - | _ | - | - | - | - | - | (66.7) | - | Hungary |
| | (100.0) | (100.0) | (12.5) | - | - | - | - | - | - | - | - | - | - | Iceland |
| | (100.0) | (44.2) | (8.6) | (66.7) | - | - | - | - | - | - | - | - | - | Ireland |
| | - | - | - | - | - | - | - | - | - | - | - | - | - | Italy |
| | - | - | - | - | - | - | - | - | - | - | - | - | - | Latvia |
| | - | - | - | - | - | - | - | - | - | - | - | - | - | Liechtenstein |
| | (71.8) | (82.7) | (3.4) | | - | (100.0) | - | - | - | - | - | (77.8) | - | Lithuania |
| | (0.0) | (16.7) | (0.0) | - | - | | - | - | - | - | - | - | _ | Luxembourg |
| | (50.2) | (((0) | | | - | | - | - | - | - | - | - ((5.0) | - | Malta |
| | (58.3) | (66.0) (88.4) | (3.9) | (57.1) | _ | (91.1) | (8.0) | - | - | - | - | (45.0) - | - | Netherlands |
| | (87.5) | (88.4) | (3.8) | | _ | (71.1) | (0.0) | _ | _ | - | | _ | _ | Norway Poland |
| | (89.0) | (94.0) | (9.6) | | _ | | | _ | _ | - | _ | | _ | Portugal |
| | (72.8) | (83.9) | (2.5) | (85.8) | _ | | | _ | _ | _ | _ | (47.1) (87.6) | _ | Romania |
| | (100.0) | (84.6) | (0.8) | (50.0) | _ | (100.0) | (84.8) | _ | _ | _ | _ | (100.0) | _ | Slovakia |
| | (0.0) | (80.6) | (0.0) | (50.0) | _ | - | (04.0) | _ | _ | _ | _ | (100.0) | _ | Slovenia |
| | (80.3) | (52.4) | (11.2) | | _ | | | _ | _ | _ | - | _ | _ | Spain |
| | - | (32.4) | - | - | - | - | - | - | - | - | - | - | - | Sweden |
| | (75.3) | (85.1) | (2.8) | (88.5) | - | | | - | - | - | - | (69.6) | - | United Kingdom |
| Ī | (76.4) | (74.9) | (4.2) | (84.2) | _ | (98.6) | (65.9) | _ | _ | _ | _ | (75.5) | _ | Subtotal EU/EEA |

Table 30 cont.: Monitoring the WHO Europe Roadmap to Implement the Tuberculosis action plan for the WHO European Region, 2016-2020, 2018

| | 1. INTEGRATE | D, PATIENT-CEI | NTERED CARE AI | ND PREVENT | TON | | | | | | | | |
|---|---|--|---|---|--|---|---|---|--|--|---|---|--|
| | Systematic screening of contacts and high- risk groups | Early diagnos | sis of all forms o | of TB and un ocluding the | iversal acces use of rapid | s to drug- tests | susceptibili | ty testing, | Equitable acc people with T | B, including d | y treatment ai Irug-resistani e treatment ad | nd continuity of t TB, and patien dherence | icare for all It support to |
| Country/area | 3.A.s Coverage of population at risk with systematic screening for active TB and LTB1. Target = 80% | 1.B.1 Percentage of TB patients diagnosed using WHO recommended rapid tests (G). Target: 30% | 1.B.2 First-line DST coverage (%) among all bacteriologically confirmed TB cases (G)* Target = 100% | 1.8.3 RR/MDR TB case detection rate (%)*. Target = 85% | 1.B. 4 TB notification rate per soo ooo population (E). Target = 24.6 per soo ooo population | 1.B.5 TB case-detection rate (%). Target: Increase | 1.B.6 Percentage of RR/MDR TB among new TB patients (E). Target: Decrease | 1.B.7 Percentage of RR/MDR TB among previously treated TB patients*. Target: Decrease | a.C.: Percentage of hospitalisation of new TB patients (E). Target: Decrease | 1.C.2 Percentage of detected RR/ MDR TB enrolled in treatment (G). Target = 100% | a.C.3 Treatment success rate (%) among all new and relapsed TB patients (G). Target = 85% | a.C.4 Treatment success rate (%) among the RR/MOR TB treatment cohort (G) (E). Target = 75% | 1.C. 5 TB mortality rate (ICD A15-19) (G) (E). Target = 2.7 per 100 000 population |
| Non-EU/EEA | | | | | | | | | | | | | |
| Albania | (70.7) | (0.0) | (30.3) | (80.0) | (15.3) | (86.3) | (5.1) | (25.0) | (78.0) | (100.0) | (87.2) | (100.0) | (0.3) |
| Andorra | (100.0) | (100.0) | (50.0) | | (2.6) | (100.0) | (0.0) | (0.0) | (100.0) | - | (100.0) | - | (0.3) |
| Armenia | (92.7) | (84.3) | (92.7) | (86.7) | (24.9) | (79.8) | (20.4) | (41.5) | (62.0) | (100.0) | (79.3) | (49.2) | (0.6) |
| Azerbaijan | - | (68.9) | (98.0) | (97.7) | (50.6) | (80.0) | (12.0) | (25.6) | (27.0) | (87.5) | (84.0) | (60.2) | (10.0) |
| Belarus | (100.0) | (93.3) | (100.0) | (100.4) | (25.0) | (81.3) | (36.6) | (69.4) | (80.0) | (125.4) | (88.6) | (67.5) | (5.4) |
| Bosnia and Herzegovina | - | - | (95.1) | (100.0) | (20.0) | (80.2) | (0.5) | (0.0) | (100.0) | (100.0) | (44.8) | - | (3.0) |
| Georgia | (100.0) | (83.8) | (94.3) | (92.8) | (57.9) | (72.4) | (12.2) | (30.9) | (25.0) | (91.6) | (84.1) | (65.5) | (4.0) |
| srael | ((00.0) | - (22.2) | (100.0) | (100.0) | (3.5) | (85.9) | (9.7) | (0.0) | (== 0) | (100.0) | (87.1) | (66.7) | (0.2) |
| Kazakhstan | (100.0) | (89.3) | (92.2) | (91.9) | (70.0) | (106.9) | (27.1) | (64.3) | (75.0) | (89.1) | (91.1) | (79.5) | (2.3) |
| Kyrgyzstan | (02.6) | (61.7) | (91.2) | (94.6) | (100.5) | (86.8) | (28.9) | (68.3) | (69.0) | (73.9) | (82.2) | (53.2) | (6.2) |
| Moldova | (93.6) | (94.5) | (91.0) | (88.5) | (74.6) | (86.3) | (28.8) | (59.6) | (66.0) | (85.5) | (80.6) | (52.9) | (5.1) |
| Monaco | - | | (98.4) | (100.0) | | (06.6) | (0,0) | (0.0) | | | | | (0.0) |
| Montenegro North Macedonia | (95.6) | (76.2) (67.7) | (98.4) | (100.0) | (13.4) (10.4) | (86.6) (80.4) | (0.0) | (33.3) | (90.0) (70.0) | (100.0) (100.0) | (86.7) (88.1) | (50.0) | (1.0) |
| Russia | (100.0) | (73.3) | (95.2) | (91.9) | (53.7) | (99.1) | (34.5) | (0.0) (70.6) | (66.0) | (82.6) | (69.4) | (50.0) | (6.3) |
| | (100.0) | (13.3) | | (21.2) | | (77.1) | | (/0.0) | | | | | |
| San Marino | - | - | NO TB | | (0.0) | | - | - | - | | | | (0.0) |
| Serbia | (90.6) | | (67.6) | (27.3) | (15.1) | (88.7) | (0.4) | (2.2) | (70.0) | (33.3) | (86.0) | (75.0) | (0.6) |
| Serbia excluding Kosovo ^c | (84.5) | - | (54.2) | - | (9.1) | - | (0.7) | (3.7) | - | (33.3) | (83.5) | (70.0) | - |
| Kosovo ^c | (95.2) | (64.6) | (99.6) | - | (38.5) | - | (0.0) | (0.0) | - | - | (88.7) | (100.0) | - |
| Switzerland | - | - | (80.7) | (40.0) | (5.5) | (87.6) | (1.1) | (6.7) | (80.0) | (100.0) | (78.4) | (47.1) | (0.3) |
| Tajikistan | - | (74.0) | (100.0) | (122.2) | (62.9) | (75.3) | (28.0) | (37.8) | (73.0) | (80.4) | (91.1) | (64.6) | (8.2) |
| Turkey | (90.1) | - | (86.1) | (86.4) | (14.1) | (89.0) | (3.5) | (11.9) | (50.0) | (78.9) | (86.0) | (62.1) | (0.5) |
| Turkmenistan | (100.0) | (74.7) | (0.0) | (203.3) | (36.9) | (79.9) | - | - | | (100.0) | (85.2) | (54.4) | (11.0) |
| Ukraine | (90.9) | (87.1) | (94.2) | (93.8) | (59.9) | (73.6) | (29.0) | (46.4) | (75.0) | (113.4) | (76.5) | (49.3) | (8.3) |
| Uzbekistan | (100.0) | (87.7) | (100.0) | (101.6) | (50.5) | (71.4) | (15.2) | 34.1 | (94.0) | (100.0) | (89.4) | (57.4) | (5.2) |
| Subtotal non-EU/EEA | (98.8) | (78.2) | (91.7) | (92.7) | (43.2) | (87.5) | (27.1) | (60.1) | | (89.3) | (77.5) | (57.6) | (4.6) |
| Total European Region | (97.0) | (66.3) | (89.4) | (92.7) | (24.5) | (87.7) | (21.6) | (56.8) | | (89.4) | (77.1) | (57.4) | (2.5) |
| Subtotal 18 HPCs | (98.8) | (74.0) | (92.0) | (92.8) | (46.0) | (87.6) | (25.3) | (58.2) | | (89.4) | (78.2) | (57.4) | (4.9) |

^{*}European Region' comprises the 53 countries of the WHO European Region and Liechtenstein.

WHO European Region 18 tuberculosis high-priority countries presented in italics. Numbers in red indicate that the target is not met, numbers in green that the target is met. Black text indicates that the it cannot be assessed. For indicator 1.B.4 and 1.C.5 numbers in green indicate also that the country/(sub)region is on track to meet the 2020 target

DST - drug susceptibility testing.

E - WHO European Region indicator.

G - end TB Strategy global indicator.

HIV - human immunodeficiency virus.

HPC - high-priority countries

LTBI - latent tuberculosis infection.

PLHIV - people living with HIV.

RR/MDR - rifampicin-resistant and multidrug-resistant.

*Only pulmonary cases included.

*Target not assessed for countries with less than 50% reporting completeness for HIV.

*This designation is without prejudice to positions on status, and is in line with UN Security Council Resolution 1244 and the International Court of Justice Opinion on the Kosovo Declaration of Independence.

| | | | | | | | 2. BOLD POLICI | ES AND SUPPOR | TIVE SYSTEMS | | | 3. INTENSIFIED RESEARCH AND INNOVATION | |
|---|--|---|--|---|--|---|--|--|---|---|---|--|---|
| Collabo | | HIV activitie | es and manag bidities | ement of | Management preventive of persons risk, and va agains | treatment at high occination | Political commitment with adequate resources, including universal health coverage policy | Health systems strengthening in all functions, including well- aligned financing mechanisms for TB and human resources | Regulatory frameworks for case-based surveillance, strengthening vital registration, quality and rational use of medicines, and pharmacovigilance | Community systems and civil society engagement | Social protection, poverty alleviation and actions on other determinants of TB, such as migration and prisons | Discovery, development and rapid uptake of new tools, interventions and strategies | |
| 1.D.1 TB/HIV case detection rate (%). Target: 90% | 1.D.2 HIV testing coverage (%) (G) (E). Target = 100% | 1.D.3 Percentage of HIV among all TB. Target: decrease | 1.D.4 ART coverage (%) among TB/ HIV co-infected. Target = 100% | 1.D.5 LTB! treatment coverage (%) among PLHIV (G). Target = 30% | a.E.a Contact investigation coverage (%) (G)(E). Target = 90% | 1.E.2 LTBI treatment coverage (%) in childhood TB contacts aged under 5 years (G) (E). Target = 90% | 2.A.1 Number of Member States that have a regular TB control/elimination performance publication every five years (E). Target = 53 | 2.B.1 Percentage of TB patients and their households that experience catastrophic financial consequences due to TB (G) (E). Target: close to o | 2.C.1Treatment coverage (%) with new TB drugs (G) (E). Target = 20% | 2. D.1 Number of Member States with functioning multi-stakeholder coalitions advocating for TB care and resources. Target = 53 | 2.E.1 Treatment success rate (%) of new and relapse TB cases among prisoners. Target = 85.0% | 3.A.1 European TB research initiative established by mid-2016. Target: established | |
| | | | | | | - | | | | 5 | N | ·= | Non-EU/EEA |
| (75.0) | (48.9) | (2.8) | (100.0) | - | (50.0) | (0.0) | | | | | (75.0) | | Albania |
| - | (0.0) | - | - | - | - | - | | | | | - | | Andorra |
| (75.8) | (95.2) | (10.3) | (98.6) | (2.9) | - | - | | | | | (81.8) | | Armenia |
| (102.4) | (100.0) | (1.3) | (85.1) | (65.1) | - | - | | | | | (92.6) | | Azerbaijan |
| (79.1) | (100.0) | (7.7) | (94.0) | (0.0) | (100.0) | (5.1) | | | | | (75.0) | | Belarus |
| - | - | - | - | - | - | | | | | | - | | Bosnia and Herzegovina |
| (68.2) | (93.9) | (2.1) | (100.0) | - | (100.0) | (24.9) | | | | | (80.7) | | Georgia |
| (85.7) | (100.0) | (4.1) | (100.0) | - | - | - | | | | | - | | Israel |
| (98.2) | (95.4) | (5.9) | (96.1) | (53.1) | (100.0) | (6.1) | | | | | (66.5) | | Kazakhstan |
| (85.0) | (100.0) | (3.0) | (70.6) | (80.2) | - | - | | | | | (81.2) | | Kyrgyzstan |
| (82.7) | (95.7) | (8.6) | (67.7) | - | (93.6) | (63.5) | | | | | (89.4) | | Moldova |
| (0.0) | (51.2) | (0.0) | - | (0.0) | | | | | | | | | Monaco |
| (0.0) | (51.2) | (2.4) | (100.0) | (0.0) | (96.5) | (15.9) | | | | | (80.0) | | Montenegro North Macedonia |
| (92.5) | (94.7) | (20.0) | (68.1) | (96.9) | (90.5) | (15.9) | | | | | (55.0) | | Russia |
| (72.3) | (24.1) | | | | | | | | | | | | |
| - | - | - | - | - | - | - | | | | | • | | San Marino |
| (160.0) | (8.7) | (14.3) | (100.0) | - | - | | | | | | (87.5) | | Serbia |
| - | (8.7) | (14.3) | (100.0) | - | - | - | | | | | (87.5) | | Serbia excluding Kosovo ^c |
| | - | - | - | - | (100.0) | (25.0) | | | | | - | | Kosovo ^c |
| - | - | - | - | - | - | - | | | | | - | | Switzerland |
| (73.2) | (96.8) | (4.1) | (78.4) | (5.7) | - | | | | | | (90.8) | | Tajikistan |
| (60.9) | (71.1) | (0.8) | (77.6) | - | (94.1) | (51.1) | | | | | (86.3) | | Turkey |
| - | - | - | - | - | - | - | | | | | - | | Turkmenistan |
| (73.8) | (99.2) | (23.0) | (79.4) | (60.6) | (74.8) | (96.6) | | | | | (76.4) | | Ukraine |
| (73.6) | (100.0) | (4.5) | (83.2) | - | (100.0) | (99.7) | | | | | - " | | Uzbekistan |
| (85.6) | (94.3) | (14.4) | (72.9) | (69.1) | (94.9) | (42.2) | | | | | (59.4) | | Subtotal non-EU/EE/ |
| (85.3) | (91.5) | (13.1) | (73.1) | (69.1) | (95.1) | (42.1) | | | | | (59.9) | | Total European Region |
| (85.4) | (94.0) | (13.6) | (73.0) | (69.2) | (95.0) | (41.4) | | | | | (59.8) | | Subtotal 18 HPCs |

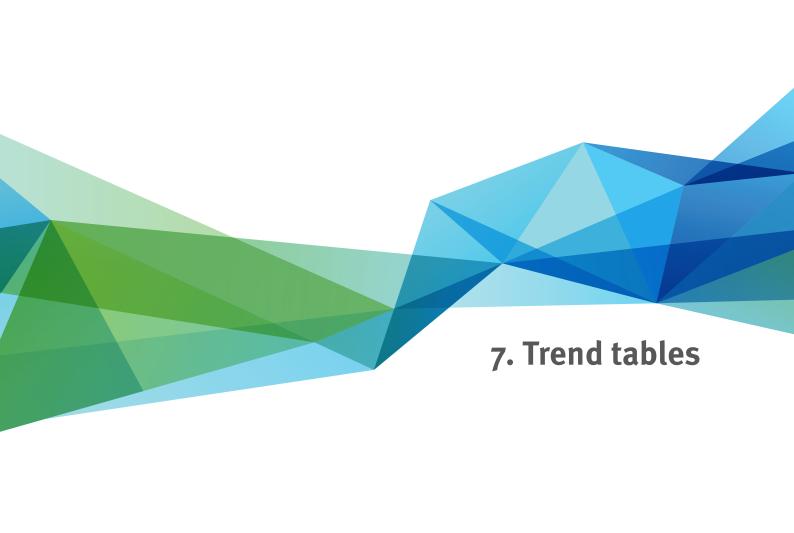


Table I. Estimated tuberculosis mortality per 100 000 population, European Region, 2009–2018a

| | 20 | 09 | 20 | 10 | 20 | 11 | 20 | 12 | 20 | 13 | 20 | 14 |
|--------------------------|--------|----------|--------|----------|--------|----------|--------|----------|--------|----------|--------|----------|
| Country/area | | Rate per |
| | N | 100000 |
| EU/EEA | | | | | | | | | | | | |
| Austria | 48 | (0.6) | 39 | (0.5) | 55 | (0.7) | 42 | (0.5) | 68 | (0.8) | 71 | (0.8) |
| Belgium | 60 | (0.6) | 60 | (0.5) | 53 | (0.5) | 59 | (0.5) | 56 | (0.5) | 41 | (0.4) |
| Bulgaria | 200 | (2.7) | 200 | (2.7) | 170 | (2.3) | 170 | (2.3) | 160 | (2.2) | 130 | (1.8) |
| Croatia | 120 | (2.8) | 83 | (1.9) | 66 | (1.5) | 60 | (1.4) | 54 | (1.3) | 40 | (0.9) |
| Cyprus | 2 | (0.2) | 2 | (0.2) | 5 | (0.4) | 6 | (0.5) | 2 | (0.2) | 6 | (0.5) |
| Czech Republic | 52 | (0.5) | 40 | (0.4) | 56 | (0.5) | 30 | (0.3) | 67 | (0.6) | 39 | (0.4) |
| Denmark | 28 | (0.5) | 36 | (0.4) | 16 | (0.3) | 23 | (0.4) | 16 | (0.3) | 13 | (0.4) |
| | 50 | | | | | | | | | | | |
| Estonia | | (3.7) | 42 | (3.2) | 46 | (3.5) | 36 | (2.7) | 26 | (2.0) | 29 | (2.2) |
| Finland | 54 | (1.0) | 48 | (0.9) | 61 | (1.1) | 49 | (0.9) | 31 | (0.6) | 41 | (0.8) |
| France | 680 | (1.1) | 650 | (1.0) | 640 | (1.0) | 550 | (0.9) | 560 | (0.9) | 480 | (0.7) |
| Germany | 350 | (0.4) | 360 | (0.4) | 350 | (0.4) | 370 | (0.5) | 380 | (0.5) | 320 | (0.4) |
| Greece | 94 | (0.9) | 78 | (0.7) | 75 | (0.7) | 110 | (1.0) | 78 | (0.7) | 55 | (0.5) |
| Hungary | 170 | (1.7) | 150 | (1.5) | 130 | (1.3) | 130 | (1.3) | 98 | (1.0) | 87 | (0.9) |
| Iceland | 8 | (2.5) | 3 | (0.9) | 3 | (0.9) | 3 | (0.9) | 2 | (0.6) | 2 | (0.6) |
| Ireland | 36 | (8.0) | 35 | (0.8) | 29 | (0.6) | 27 | (0.6) | 23 | (0.5) | 24 | (0.5) |
| Italy | 410 | (0.7) | 380 | (0.6) | 390 | (0.7) | 340 | (0.6) | 270 | (0.4) | 290 | (0.5) |
| Latvia | 110 | (5.1) | 91 | (4.3) | 80 | (3.8) | 62 | (3.0) | 100 | (4.9) | 67 | (3.3) |
| Liechtenstein | | | | | | | | | | | | |
| Lithuania | 270 | (8.5) | 220 | (7.0) | 220 | (7.1) | 260 | (8.5) | 220 | (7.3) | 230 | (7.7) |
| Luxembourg | 1 | (0.2) | 1 | (0.2) | 2 | (0.4) | 1 | (0.2) | 1 | (0.2) | 1 | (0.2) |
| Malta | 1 | (0.2) | 3 | (0.7) | 3 | (0.7) | 1 | (0.2) | 3 | (0.7) | 1 | (0.2) |
| Netherlands | 65 | (0.4) | 56 | (0.3) | 37 | (0.2) | 35 | (0.2) | 39 | (0.2) | 35 | (0.2) |
| Norway | 28 | (0.6) | 29 | (0.6) | 30 | (0.6) | 22 | (0.4) | 21 | (0.4) | 13 | (0.3) |
| Poland | 810 | (2.1) | 630 | (1.6) | 690 | (1.8) | 680 | (1.8) | 580 | (1.5) | 580 | (1.5) |
| Portugal | 280 | (2.6) | 230 | (2.2) | 230 | (2.2) | 230 | (2.2) | 230 | (2.2) | 220 | (2.1) |
| Romania | 1 500 | (7.3) | 1 500 | (7.3) | 1300 | (6.4) | 1300 | (6.4) | 1 100 | (5.5) | 1 100 | (5.5) |
| Slovakia | 43 | (0.8) | 35 | (0.6) | 26 | (0.5) | 17 | (0.3) | 20 | (0.4) | 35 | (0.6) |
| | | | 20 | | | | | | | | | |
| Slovenia | 25 | (1.2) | | (1.0) | 14 | (0.7) | 11 | (0.5) | 9 | (0.4) | 21 | (1.0) |
| Spain | 410 | (0.9) | 400 | (0.9) | 300 | (0.6) | 330 | (0.7) | 300 | (0.6) | 290 | (0.6) |
| Sweden | 61 | (0.7) | 36 | (0.4) | 47 | (0.5) | 39 | (0.4) | 44 | (0.5) | 30 | (0.3) |
| United Kingdom | 410 | (0.7) | 370 | (0.6) | 330 | (0.5) | 330 | (0.5) | 350 | (0.5) | 360 | (0.6) |
| Subtotal EU/EEA | 6 400 | (1.3) | 5 800 | (1.1) | 5 500 | (1.1) | 5 300 | (1.0) | 4 900 | (1.0) | 4 700 | (0.9) |
| Non-EU/EEA | | | | | | | | | | | | |
| Albania | 5 | (0.2) | 9 | (0.3) | 9 | (0.3) | 9 | (0.3) | 8 | (0.3) | 8 | (0.3) |
| Andorra | 1 | (1.2) | 1 | (1.2) | 0 | (0.0) | 1 | (1.2) | 0 | (0.0) | 1 | (1.3) |
| Armenia | 150 | (5.2) | 160 | (5.6) | 120 | (4.2) | 140 | (4.9) | 110 | (3.8) | 81 | (2.8) |
| Azerbaijan | 690 | (7.7) | 800 | (8.9) | 660 | (7.2) | 420 | (4.5) | 440 | (4.7) | 430 | (4.5) |
| Belarus | 900 | (9.5) | 910 | (9.7) | 880 | (9.3) | 760 | (8.1) | 650 | (6.9) | 510 | (5.4) |
| Bosnia and Herzegovina | 190 | (5.1) | 190 | (5.1) | 180 | (4.9) | 170 | (4.7) | 150 | (4.2) | 130 | (3.7) |
| Georgia | 220 | (5.3) | 230 | (5.6) | 230 | (5.6) | 230 | (5.7) | 210 | (5.2) | 190 | (4.7) |
| Israel | 24 | (0.3) | 28 | (0.4) | 22 | (0.3) | 22 | (0.3) | 15 | (0.2) | 15 | (0.2) |
| Kazakhstan | 2 500 | (15.6) | 2 200 | (13.5) | 1 900 | (11.5) | 1800 | (10.7) | 1 200 | (7.0) | 1 000 | (5.8) |
| Kyrgyzstan | 620 | (11.6) | 650 | (12.0) | 680 | (12.3) | 650 | (11.6) | 650 | (11.3) | 540 | (9.2) |
| Moldova | 690 | (16.8) | 630 | (15.4) | 550 | (13.5) | 530 | (13.0) | 390 | (9.6) | 390 | (9.6) |
| Monaco | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) |
| Montenegro | 1 | (0.0) | 1 | (0.0) | 1 | (0.2) | 1 | (0.2) | 1 | (0.2) | 1 | (0.2) |
| North Macedonia | 19 | (0.2) | 34 | (1.6) | 27 | (1.3) | 23 | (1.1) | 20 | (1.0) | 20 | (1.0) |
| Russia | 25 000 | | | (16.0) | | (1.3) | 19 000 | | | | 16 000 | (1.0) |
| | | (17.4) | 23 000 | | 21 000 | | | (13.2) | 18 000 | (12.5) | | |
| San Marino | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) |
| Serbia | 180 | (2.0) | 170 | (1.9) | 150 | (1.7) | 150 | (1.7) | 140 | (1.6) | 110 | (1.2) |
| Serbia excluding Kosovob | - | - | - | - | - | - | - | - | - | - | - | - |
| Kosovo ^b | - | - () | - | - | - | - () | - | - () | - | - | _ | - |
| Switzerland | 27 | (0.4) | 28 | (0.4) | 25 | (0.3) | 23 | (0.3) | 20 | (0.2) | 13 | (0.2) |
| Tajikistan | 820 | (11.1) | 810 | (10.8) | 800 | (10.4) | 790 | (10.0) | 780 | (9.7) | 780 | (9.5) |
| Turkey | 1300 | (1.8) | 1 000 | (1.4) | 1 000 | (1.4) | 880 | (1.2) | 720 | (0.9) | 670 | (0.9) |
| Turkmenistan | 680 | (13.6) | 660 | (13.0) | 680 | (13.1) | 660 | (12.5) | 660 | (12.3) | 670 | (12.3) |
| Ukraine | 46 000 | (11.9) | 42 000 | (10.8) | 39 000 | (10.0) | 36 000 | (9.2) | 33 000 | (8.3) | 29 000 | (7.3) |
| Uzbekistan | 52 000 | (5.8) | 48 000 | (5.4) | 45 000 | (5.0) | 42 000 | (4.6) | 38 000 | (4.2) | 34 000 | (3.7) |
| Subtotal 18 HPCs | 48 000 | (12.4) | 44 000 | (11.3) | 40 000 | (10.2) | 37 000 | (9.4) | 34 000 | (8.6) | 31 000 | (7.8) |

^{&#}x27;European Region' comprises the 53 countries of the WHO European Region and Liechtenstein.
WHO European Region 18 tuberculosis high-priority countries presented in italics.
HPC - high-priority countries.

*Excludes HIV coinfected cases.

*This designation is without prejudice to positions on status, and is in line with UN Security Council Resolution 1244 and the International Court of Justice Opinion on the Kosovo Declaration of Independence.

| 201 | 15 | 20: | 16 | 20 | 17 | 20 | 18 | Mean annual | Mean annual | |
|--------|---------------------|--------|---------------------|--------|---------------------|--------|---------------------|-----------------------------------|-----------------------------------|-------------------------|
| N | Rate per 100 000 | % change in rate, 2014–2018 | % change in rate, 2009–2018 | Country/area |
| | | | | | | | | | | EU/EEA |
| 64 | (0.7) | 38 | (0.4) | 35 | (0.4) | 35 | (0.4) | -16.9% | -4.1% | Austria |
| 61 | (0.5) | 33 | (0.3) | 33 | (0.3) | 33 | (0.3) | -5.8% | -7.0% | Belgium |
| 110 | (1.5) | 99 | (1.4) | 85 | (1.2) | 71 | (1.0) | -13.4% | -10.3% | Bulgaria |
| 46 | (1.1) | 58 | (1.4) | 41 | (1.0) | 34 | (0.8) | -3.4% | | Croatia |
| 3 | (0.3) | 3 | (0.3) | 3 | (0.3) | 3 | (0.3) | -16.6% | | Cyprus |
| 57 | (0.5) | 43 | (0.4) | 36 | (0.3) | 37 | (0.3) | -1.5% | | Czech Republic |
| 17 | (0.3) | 17 | (0.3) | 18 | (0.3) | 18 | (0.3) | 8.1% | | Denmark |
| 22 | (1.7) | 28 | (2.1) | 15 | (1.1) | 10 | (0.8) | -23.5% | | Estonia |
| 33 | (0.6) | 26 | (0.5) | 23 | (0.4) | 19 | (0.3) | -17.7% | _ | Finland |
| 450 | (0.7) | 400 | (0.6) | 360 | (0.6) | 310 | (0.5) | -10.6% | _ | France |
| 320 | (0.4) | 300 | (0.4) | 300 | (0.4) | 300 | (0.4) | -2.1% | | Germany |
| 45 | (0.4) | 49 | (0.5) | 49 | (0.5) | 48 | (0.5) | -2.9% | | Greece |
| | (1.1) | | (0.7) | | | | (0.4) | | | Hungary |
| 110 | | 66 | | 62 | (0.6) | 43 | | -15.9% | | |
| 2 | (0.6) | 2 | (0.6) | 2 | (0.6) | 10 | (0.3) | - ((0) | | Iceland |
| 18 | (0.4) | 18 | (0.4) | 18 | (0.4) | 19 | (0.4) | -6.6% | | Ireland |
| 340 | (0.6) | 340 | (0.6) | 340 | (0.6) | 340 | (0.6) | 4.0% | -2.3% | |
| 96 | (4.9) | 72 | (3.6) | 61 | (3.1) | 51 | (2.6) | -5.5% | | Latvia |
| | | | | | | | | - | | Liechtenstein |
| 190 | (6.7) | 180 | (6.2) | 160 | (5.6) | 150 | (5.4) | -8.8% | | Lithuania |
| 1 | (0.2) | 1 | (0.2) | 1 | (0.2) | 1 | (0.2) | - | | Luxembourg |
| 2 | (0.5) | 2 | (0.5) | 2 | (0.5) | 2 | (0.5) | 18.3% | | Malta |
| 39 | (0.2) | 30 | (0.2) | 30 | (0.2) | 30 | (0.2) | -4.0% | | Netherlands |
| 12 | (0.2) | 18 | (0.3) | 18 | (0.3) | 18 | (0.3) | 7.5% | -5.8% | Norway |
| 580 | (1.5) | 600 | (1.6) | 510 | (1.3) | 470 | (1.2) | -5.0% | | Poland |
| 220 | (2.1) | 200 | (1.9) | 200 | (1.9) | 190 | (1.9) | -3.2% | -3.9% | Portugal |
| 1 100 | (5.6) | 980 | (5.0) | 930 | (4.7) | 860 | (4.4) | -5.3% | | Romania |
| 35 | (0.6) | 35 | (0.6) | 35 | (0.6) | 35 | (0.6) | -0.1% | | Slovakia |
| 11 | (0.5) | 13 | (0.6) | 12 | (0.6) | 12 | (0.6) | -13.2% | | Slovenia |
| 250 | (0.5) | 260 | (0.6) | 260 | (0.6) | 260 | (0.6) | -2.6% | | Spain |
| 25 | (0.3) | 26 | (0.3) | 26 | (0.3) | 26 | (0.3) | -4.2% | | Sweden |
| 350 | (0.5) | 300 | (0.5) | 300 | (0.4) | 300 | (0.4) | -5.1% | | United Kingdom |
| 4 600 | (0.9) | 4 200 | (0.8) | 4 000 | (0.8) | 3 700 | (0.7) | -5.2% | | Subtotal EU/EEA |
| 7 000 | (0.9) | 7 200 | (0.0) | 7 000 | (0.0) | 3700 | (0.7) | -5.270 | -0.170 | Non-EU/EEA |
| 8 | (0.3) | 8 | (0.3) | 8 | (0.3) | 8 | (0.3) | 0.1% | F 70/ | Albania |
| | | | | | | | | 0.170 | 5./ /0 | |
| 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | (0/ | 0/ | Andorra |
| 68 | (2.3) | 56 | (1.9) | 36 | (1.2) | 18 | (0.6) | -31.6% | | Armenia |
| 570 | (5.8) | 710 | (7.3) | 860 | (8.7) | 1000 | (10.1) | 22.1% | | Azerbaijan |
| 510 | (5.4) | 510 | (5.4) | 510 | (5.4) | 510 | (5.4) | -0.1% | | Belarus |
| 120 | (3.6) | 120 | (3.5) | 110 | (3.3) | 100 | (3.0) | -5.3% | | Bosnia and Herzegovina |
| 160 | (4.0) | 180 | (4.5) | 170 | (4.2) | 160 | (4.0) | -4.0% | | Georgia |
| 15 | (0.2) | 15 | (0.2) | 15 | (0.2) | 16 | (0.2) | 0.0% | -6.0% | |
| 820 | (4.5) | 710 | (4.0) | 660 | (3.7) | 430 | (2.3) | -20.2% | -19.0% | Kazakhstan |
| 480 | (7.8) | 470 | (7.7) | 430 | (6.9) | 390 | (6.2) | -9.5% | -6.8% | Kyrgyzstan |
| 330 | (8.1) | 300 | (7.4) | 250 | (6.2) | 210 | (5.2) | -14.2% | -12.3% | Moldova |
| 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | | | Monaco |
| 1 | (0.2) | 1 | (0.2) | 1 | (0.2) | 1 | (0.2) | 0.0% | | Montenegro |
| 20 | (1.0) | 20 | (1.0) | 20 | (1.0) | 20 | (1.0) | -0.1% | | North Macedonia |
| 14 000 | (9.6) | 12 000 | (8.3) | 10 000 | (6.9) | 9 200 | (6.3) | -13.1% | | Russia |
| 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | | , | San Marino |
| 83 | (0.9) | 95 | (1.1) | 70 | (0.8) | 55 | (0.6) | -15.7% | | Serbia |
| - | (0.9) | - | - | - | (0.0) | | (0.0) | 13./ /0 | | Serbia excluding Kosovo |
| - | - | - | _ | _ | - | - | _ | | | Kosovo ^b |
| | | | | | | | | 40.00/ | | |
| 17 | (0.2) | 26 | (0.3) | 26 | (0.3) | 27 | (0.3) | 18.9% | | Switzerland |
| 760 | (8.6) | 760 | (8.8) | 750 | (8.4) | 740 | (8.1) | -3.7% | | Tajikistan |
| 610 | (0.8) | 610 | (0.8) | 500 | (0.6) | 400 | (0.5) | -13.5% | | Turkey |
| 670 | (11.6) | 640 | (11.3) | 630 | (10.9) | 610 | (10.4) | -4.0% | - | Turkmenistan |
| 26 000 | (6.5) | 24 000 | (5.9) | 21 000 | (5.2) | 19 000 | (4.6) | -10.6% | | Ukraine |
| 31 000 | (3.4) | 28 000 | (3.0) | 26 000 | (2.8) | 23 000 | (2.5) | -9.7% | | Uzbekistan |
| (7.0) | | (6.2) | | | | (4.9) | | | | Subtotal 18 HPCs |

Table II. Estimated tuberculosis incidence per 100 000 population, European Region, 2009–2018

| | 20 | 09 | 20 | 10 | 20 | 11 | 20 | 12 | 20 | 13 | 20 | 14 |
|--------------------------------------|---------|----------|---------|---------------------|---------|----------|---------|---------------------|---------|----------|---------|----------|
| Country/area | N | Rate per | N | Rate per 100 000 | N | Rate per | N | Rate per 100 000 | N | Rate per | N | Rate per |
| EU/EEA | | | | | | | | | | | | |
| Austria | 760 | (9.1) | 760 | (9.1) | 770 | (9.2) | 710 | (8.4) | 720 | (8.4) | 650 | (7.5) |
| Belgium | 1100 | (9.7) | 1200 | (11.0) | 1100 | (10.0) | 1000 | (9.4) | 1000 | (9.3) | 1000 | (9.1) |
| Bulgaria | 3 300 | (44.0) | 3 000 | (41.0) | 2700 | (37.0) | 2 600 | (35.0) | 2 400 | (33.0) | 2 300 | (31.0) |
| Croatia | 960 | (22.0) | 790 | (18.0) | 710 | (17.0) | 620 | (14.0) | 590 | (14.0) | 570 | (13.0) |
| Cyprus | 59 | (5.3) | 70 | (6.3) | 59 | (5.2) | 72 | (6.4) | 47 | (4.1) | 45 | (3.9) |
| Czech Republic | 730 | (6.9) | 710 | (6.8) | 650 | (6.2) | 650 | (6.1) | 540 | (5.1) | 550 | (5.1) |
| Denmark | 340 | (6.1) | 380 | (6.9) | 410 | (7.4) | 390 | (7.0) | 380 | (6.7) | 340 | (5.9) |
| Estonia | 410 | (31.0) | 330 | (25.0) | 340 | (25.0) | 300 | (23.0) | 300 | (23.0) | 270 | (21.0) |
| Finland | 460 | (8.7) | 350 | (6.6) | 360 | (6.7) | 300 | (5.5) | 310 | (5.6) | 290 | (5.3) |
| France | 6 000 | (9.5) | 5 800 | (9.2) | 5 700 | (9.0) | 5 700 | (9.0) | 5 700 | (8.9) | 5 500 | (8.5) |
| Germany | 4 800 | (5.9) | 4 700 | (5.8) | 4 700 | (5.8) | 4 600 | (5.7) | 4 800 | (5.9) | 5 000 | (6.1) |
| Greece | 620 | (5.7) | 510 | (4.7) | 520 | (4.8) | 600 | (5.5) | 570 | (5.3) | 560 | (5.2) |
| Hungary | 1500 | (15.0) | 1800 | (18.0) | 1500 | (15.0) | 1300 | (14.0) | 1200 | (12.0) | 920 | (9.4) |
| Iceland | 10 | (3.3) | 25 | (7.9) | 9 | (2.8) | 12 | (3.5) | 13 | (3.9) | 9 | (2.8) |
| Ireland | 490 | (11.0) | 450 | (9.8) | 450 | (9.7) | 390 | (8.5) | 410 | (8.9) | 340 | (7.4) |
| Italy | 4 700 | (8.0) | 5 200 | (8.8) | 3 900 | (6.6) | 3 600 | (5.9) | 3 500 | (5.8) | 4 000 | (6.6) |
| Latvia | 1 100 | (51.0) | 1 000 | (50.0) | 990 | (47.0) | 1 100 | (53.0) | 1 000 | (49.0) | 850 | (42.0) |
| Liechtenstein | _ | - | - | - | - | - | - | - | - | - | - | - |
| Lithuania | 2 200 | (69.0) | 2 000 | (64.0) | 2 000 | (65.0) | 1 900 | (62.0) | 1800 | (60.0) | 1700 | (57.0) |
| Luxembourg | 31 | (6.3) | 33 | (6.6) | 29 | (5.5) | 52 | (9.7) | 44 | (8.1) | 28 | (5.0) |
| Malta | 48 | (12.0) | 33 | (8.1) | 34 | (8.3) | 48 | (11.0) | 58 | (13.0) | 52 | (12.0) |
| Netherlands | 1300 | (7.8) | 1200 | (7.1) | 1100 | (6.7) | 1100 | (6.3) | 960 | (5.7) | 940 | (5.5) |
| Norway | 380 | (7.8) | 340 | (6.9) | 370 | (7.4) | 390 | (7.9) | 420 | (8.2) | 350 | (6.8) |
| Poland | 8 800 | (23.0) | 8 100 | (21.0) | 9 100 | (24.0) | 8 100 | (21.0) | 8 100 | (21.0) | 7 5 0 0 | (20.0) |
| Portugal | 3 100 | (29.0) | 3 000 | (28.0) | 2 900 | (27.0) | 2 900 | (27.0) | 2 700 | (26.0) | 2500 | (24.0) |
| Romania | 24 000 | (115.0) | 21 000 | (104.0) | 20 000 | (96.0) | 19 000 | (92.0) | 18 000 | (89.0) | 17 000 | (85.0) |
| Slovakia | 520 | (9.6) | 470 | (8.7) | 430 | (8.0) | 370 | (6.8) | 460 | (8.4) | 370 | (6.8) |
| Slovenia | 210 | (11.0) | 190 | (9.5) | 210 | (10.0) | 150 | (7.5) | 160 | (7.7) | 160 | (7.9) |
| Spain | 8 300 | (18.0) | 7 900 | (17.0) | 7 400 | (16.0) | 6 500 | (14.0) | 6 000 | (13.0) | 5 500 | (12.0) |
| Sweden | 660 | (7.1) | 710 | (7.5) | 620 | (6.5) | 680 | (7.1) | 700 | (7.3) | 730 | (7.5) |
| United Kingdom | 9 100 | (15.0) | 8 800 | (14.0) | 9 500 | (15.0) | 9 300 | (14.0) | 8 300 | (13.0) | 7 400 | (11.0) |
| Subtotal EU/EEA | 86 000 | (17.0) | 81 000 | (15.9) | 79 000 | (15.5) | 74 000 | (14.5) | 71 000 | (13.9) | 67 000 | (13.1) |
| Non-EU/EEA | | | | | | | | | | | | |
| Albania | 510 | (17.0) | 500 | (17.0) | 490 | (17.0) | 470 | (16.0) | 550 | (19.0) | 470 | (16.0) |
| Andorra | 9 | (11.0) | 8 | (9.5) | 3 | (4.1) | 10 | (13.0) | 6 | (7.1) | 7 | (8.7) |
| Armenia | 2 000 | (68.0) | 1 800 | (61.0) | 1 600 | (55.0) | 1 500 | (53.0) | 1700 | (60.0) | 1700 | (57.0) |
| Azerbaijan | 12 000 | (133.0) | 9 400 | (104.0) | 11 000 | (125.0) | 8 000 | (86.0) | 7300 | (78.0) | 7200 | (76.0) |
| Belarus | 6 600 | (70.0) | 6 400 | (68.0) | 5 900 | (62.0) | 6 000 | (63.0) | 5 600 | (59.0) | 4 800 | (51.0) |
| Bosnia and Herzegovina | 2 200 | (58.0) | 1700 | (45.0) | 1700 | (46.0) | 1800 | (49.0) | 1600 | (44.0) | 1500 | (43.0) |
| Georgia | 5 500 | (133.0) | 5 200 | (127.0) | 5 000 | (122.0) | 4 800 | (119.0) | 4 700 | (116.0) | 4 300 | (106.0) |
| Israel | 400 | (5.6) | 390 | (5.3) | 470 | (6.3) | 580 | (7.6) | 350 | (4.6) | 420 | (5.3) |
| Kazakhstan | 24 000 | (152.0) | 24 000 | (145.0) | 23 000 | (136.0) | 21 000 | (122.0) | 18 000 | (106.0) | 16 000 | (91.0) |
| Kyrgyzstan | 6 800 | (128.0) | 6 500 | (120.0) | 6 900 | (125.0) | 7 100 | (127.0) | 8 100 | (142.0) | 7300 | (126.0) |
| Moldova | 5 100 | (125.0) | 4 800 | (116.0) | 4 900 | (119.0) | 5 100 | (124.0) | 5 200 | (127.0) | 4 700 | (115.0) |
| Monaco | 1 | (3.5) | 1 | (3.2) | 1 | (2.5) | 1 | (1.5) | 0 | (0.6) | 0 | (0.0) |
| Montenegro | 130 | (21.0) | 130 | (20.0) | 130 | (20.0) | 110 | (18.0) | 140 | (22.0) | 130 | (21.0) |
| North Macedonia | 560 | (27.0) | 480 | (23.0) | 420 | (20.0) | 430 | (21.0) | 400 | (19.0) | 350 | (17.0) |
| Russia | 128 000 | (89.0) | 123 000 | (85.0) | 116 000 | (81.0) | 109 000 | (76.0) | 105 000 | (73.0) | 101 000 | (70.0) |
| San Marino | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) |
| Serbia | 2 900 | (32.0) | 2 700 | (30.0) | 2 500 | (28.0) | 2 200 | (24.0) | 2 400 | (27.0) | 2 10 0 | (23.0) |
| Serbia excluding Kosovo ^a | - | - | - | - | - | - | - | (=) | - | | - | - |
| Kosovo | _ | - | - | - | - | - | - | - | - | - | - | - |
| Switzerland | 580 | (7.5) | 580 | (7.5) | 600 | (7.6) | 480 | (6.0) | 540 | (6.6) | 490 | (5.9) |
| Tajikistan | 10 000 | (141.0) | 9 600 | (128.0) | 9 000 | (117.0) | 8 500 | (108.0) | 8 000 | (100.0) | 7 500 | (91.0) |
| Turkey | 19 000 | (27.0) | 18 000 | (25.0) | 17 000 | (24.0) | 16 000 | (22.0) | 15 000 | (20.0) | 15 000 | (20.0) |
| Turkmenistan | 3 900 | (79.0) | 4 000 | (79.0) | 3 400 | (66.0) | 3 700 | (70.0) | 3 800 | (71.0) | 3 200 | (58.0) |
| Ukraine | 53 000 | (115.0) | 50 000 | (110.0) | 48 000 | (105.0) | 46 000 | (101.0) | 44 000 | (96.0) | 43 000 | (94.0) |
| Uzbekistan | 28 000 | (101.0) | 28 000 | (97.0) | 27 000 | (93.0) | 26 000 | (89.0) | 26 000 | (86.0) | 25 000 | (82.0) |
| Subtotal non-EU/EEA | 311 000 | (80.7) | 297 000 | (76.6) | 285 000 | (73.1) | 269 000 | (68.5) | 258 000 | (65.2) | 246 000 | (61.7) |
| Total European Region | 398 000 | (44.6) | 378 000 | (42.2) | 363 000 | (40.4) | 343 000 | (38.0) | 329 000 | (36.3) | 314 000 | (34.5) |
| | 335 000 | (86.6) | 318 000 | (81.9) | 305 000 | (78.1) | 288 000 | (73.3) | 276 000 | (69.8) | 263 000 | (66.1) |

^{&#}x27;European Region' comprises the 53 countries of the WHO European Region and Liechtenstein.
WHO European Region 18 tuberculosis high-priority countries presented in italics.
HPC - high-priority countries.
**This designation is without prejudice to positions on status, and is in line with UN Security Council Resolution 1244 and the International Court of Justice Opinion on the Kosovo Declaration of Independence.

| 20: | 15 | 20: | 16 | 20 | 17 | 20: | 18 | Mean annual | Mean annual | |
|---|---|---|---|--|---|---|---|---|---|---|
| N | Rate per 100 000 | N | Rate per 100 000 | N | Rate per 100000 | N | Rate per 100000 | % change in rate, 2014–2018 | % change in rate, 2009–2018 | Country/area |
| | | | | | | | | | | EU/EEA |
| 650 | (7.5) | 710 | (8.1) | 650 | (7.3) | 630 | (7.1) | -1.4% | -2.7% | Austria |
| 1100 | (9.5) | 1100 | (10.0) | 1100 | (9.2) | 1000 | (9.0) | -0.3% | -0.8% | Belgium |
| 2 000 | (28.0) | 1900 | (27.0) | 1 800 | (25.0) | 1 600 | (22.0) | -8.2% | -7.4% | Bulgaria |
| 560 | (13.0) | 520 | (12.0) | 420 | (10.0) | 350 | (8.4) | -10.3% | -10.1% | Croatia |
| 72 | (6.2) | 66 | (5.6) | 60 | (5.1) | 65 | (5.4) | 8.5% | 0.2% | Cyprus |
| 580 | (5.5) | 590 | (5.5) | 570 | (5.4) | 580 | (5.4) | 1.4% | -2.7% | Czech Republic |
| 370 | (6.5) | 340 | (5.9) | 290 | (5.1) | 310 | (5.4) | -2.2% | -1.3% | Denmark |
| 240 | (18.0) | 220 | (16.0) | 200 | (15.0) | 170 | (13.0) | -11.3% | -9.2% | Estonia |
| 310 | (5.6) | 260 | (4.7) | 270 | (4.9) | 260 | (4.7) | -3.0% | -6.6% | Finland |
| 5 400 | (8.4) | 5 700 | (8.7) | 5 900 | (9.0) | 5 800 | (8.9) | 1.2% | | France |
| 6 500 | (8.0) | 6 600 | (8.0) | 6 200 | (7.4) | 6 100 | (7.3) | 4.6% | | Germany |
| 500 | (4.7) | 470 | (4.4) | 500 | (4.7) | 470 | (4.5) | -3.5% | | Greece |
| 990 | (10.0) | 850 | (8.7) | 750 | (7.7) | 620 | (6.4) | -9.2% | | Hungary |
| 8 | (2.4) | 7 | (2.1) | 15 | (4.5) | 9 | (2.7) | -0.9% | | Iceland |
| 340 | (7.3) | 340 | (7.2) | 350 | (7.3) | 340 | (7.0) | -1.4% | | Ireland |
| 4 000 | (6.6) | 4 300 | (7.2) | 4 400 | (7.3) | 4 300 | (7.0) | 1.5% | -1.5% | |
| 800 | (40.0) | 740 | (37.0) | 620 | (32.0) | 560 | (29.0) | -8.8% | | Latvia |
| - | - | - | - | - | - | - | - | - | | Liechtenstein |
| 1 600 | (55.0) | 1 500 | (54.0) | 1 500 | (51.0) | 1200 | (44.0) | -6.3% | | Lithuania |
| 34 | (6.1) | 33 | (5.8) | 37 | (6.2) | 48 | (8.0) | 12.5% | | Luxembourg |
| 37 | (8.5) | 58 | (13.0) | 48 | (11.0) | 60 | (14.0) | 3.9% | , | Malta |
| 980 | (5.8) | 1000 | (5.9) | 890 | (5.2) | 910 | (5.3) | -0.9% | | Netherlands |
| 330 | (6.3) | 320 | (6.1) | 270 | (5.1) | 220 | (4.1) | -11.9% | | Norway |
| 7 200 | (19.0) | 7 100 | (19.0) | 6 400 | (17.0) | 6 000 | (16.0) | -5.4% | | Poland |
| 2 400 | (23.0) | 2 100 | (20.0) | 2 000 | (20.0) | 2 400 | (24.0) | 0.0% | | Portugal |
| 16 000 | (82.0) | 15 000 | (74.0) | 14 000 | (72.0) | 13 000 | (68.0) | | | Romania |
| 350 | (6.5) | 320 | (5.9) | 260 | (4.8) | 310 | (5.8) | -5.4% -3.9% | | Slovakia |
| 150 | (7.2) | 140 | (6.5) | 130 | (6.2) | 110 | (5.3) | | | Slovenia |
| 4 600 | (9.9) | 5 400 | (12.0) | 5 000 | (11.0) | 4 400 | (9.4) | -9.5% | | Spain |
| 900 | (9.2) | 810 | (8.2) | 560 | (5.7) | 550 | (5.5) | -5.9% | | Sweden |
| 6 600 | (10.0) | 6 500 | (9.8) | 5 900 | (8.8) | 5 400 | (8.0) | -7.5% | | United Kingdom |
| 66 000 | (12.8) | 65 000 | (12.6) | 61 000 | (11.8) | 58 000 | (11.2) | -7.7% - 3.7% | | Subtotal EU/EEA |
| 00 000 | (12.0) | 03 000 | (12.0) | 01000 | (11.0) | 50 000 | (11.2) | -3./ 70 | 4.570 | Non-EU/EEA |
| 480 | (17.0) | 480 | (17.0) | 580 | (20.0) | 510 | (18.0) | 3.0% | 0.6% | Albania |
| 5 | (5.9) | 5 | (6.0) | 1 | (1.5) | 2 | (3.0) | -23.4% | | Andorra |
| 1 500 | (50.0) | 1300 | (44.0) | 1 100 | (36.0) | 920 | (31.0) | -14.1% | | Armenia |
| 6 800 | (71.0) | 6 400 | (66.0) | 6 500 | (66.0) | 6300 | (63.0) | -4.6% | | Azerbaijan |
| 4 700 | (50.0) | 4 000 | (42.0) | 3 500 | (37.0) | 2 900 | (31.0) | -11.7% | | Belarus |
| 1400 | (40.0) | 1100 | (33.0) | 960 | (29.0) | 830 | (25.0) | -12.7% | | Bosnia and Herzegovina |
| 4 000 | (99.0) | 3 700 | (92.0) | 3 400 | (86.0) | 3 200 | (80.0) | -6.8% | | Georgia |
| 320 | (4.0) | 290 | (3.5) | 270 | (3.3) | 340 | (4.0) | -6.8% | | Israel |
| | | | | 12 000 | | | | | | |
| 14 000 | (81.0) | 13 000 | (73.0) (133.0) | | (69.0) | 12 000 | (68.0) | -7.0% | | Kazakhstan Kyrgyzstan |
| 8 100 | (136.0) | 8 100 | (133.0) | 7700 | (124.0) | 7300 | (116.0) | -2.0% | | , ., |
| 4 100 | (102.0) | 4 100 | (101.0) | 3 900 | (95.0) | 3 500 | (86.0) | -7.0% | | Monaco |
| 0 | (0.0) | 100 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 +0/ | | Monaco |
| 92 | (15.0) | 100 | (16.0) | 86 | (14.0) | 97 | (15.0) | -8.1% | | Montenegro |
| 350 | (17.0) | 330 | (16.0) | 270 | (13.0) | 270 | (13.0) | -6.5% | , | North Macedonia |
| 97 000 | (67.0) | 91 000 | (63.0) | 85 000 | (59.0) | 79 000 | (54.0) | -6.3% | | Russia |
| 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | 0 | (0.0) | - | | San Marino |
| 1900 | (21.0) | 1700 | (19.0) | 1700 | (19.0) | 1500 | (17.0) | -7.3% | | Serbia |
| 1700 | (=, | | | | - | - | - | - | - | Serbia excluding Kosovo ^a |
| - | - | - | - | | | | | | | |
| - | - | - | - | - | - | - | - | - | | Kosovo ^a |
| - - 610 | - (7.4) | 660 | (7.9) | 610 | (7.2) | 540 | (6.4) | 2.1% | -1.7% | Switzerland |
| - 610 7 300 | - (7.4) (86.0) | 660 7 400 | (7.9) (85.0) | 610 7 500 | (7.2) (85.0) | 540 7 600 | (6.4) (84.0) | 2.1% -2.0% | -1.7% -5.6% | Switzerland Tajikistan |
| - 610 7 300 14 000 | (7.4) (86.0) (18.0) | 660 7 400 14 000 | (7.9) (85.0) (18.0) | 610 7 500 14 000 | (7.2) (85.0) (17.0) | 540 7 600 13 000 | (6.4) (84.0) (16.0) | 2.1% -2.0% -5.4% | -1.7% -5.6% -5.6% | Switzerland Tajikistan Turkey |
| - 610 7 300 14 000 2 700 | - (7.4) (86.0) (18.0) (49.0) | 660 7 400 14 000 2 600 | (7.9) (85.0) (18.0) (46.0) | 610 7 500 14 000 2 500 | (7.2) (85.0) (17.0) (43.0) | 540 7 600 13 000 2 700 | (6.4) (84.0) (16.0) (46.0) | 2.1% -2.0% -5.4% -5.6% | -1.7% -5.6% -5.6% | Switzerland Tajikistan Turkey Turkmenistan |
| - 610 7 300 14 000 2 700 41 000 | (7.4) (86.0) (18.0) (49.0) (91.0) | 660 7 400 14 000 2 600 39 000 | (7.9) (85.0) (18.0) (46.0) (87.0) | 610 7 500 14 000 2 500 37 000 | (7.2) (85.0) (17.0) (43.0) (84.0) | 540 7 600 13 000 2 700 36 000 | (6.4) (84.0) (16.0) (46.0) (80.0) | 2.1% -2.0% -5.4% -5.6% -4.0% | -1.7% -5.6% -5.8% -4.0% | Switzerland Tajikistan Turkey Turkmenistan Ukraine |
| - 610 7 300 14 000 2 700 41 000 25 000 | - (7.4) (86.0) (18.0) (49.0) (91.0) (79.0) | 660 7 400 14 000 2 600 39 000 24 000 | (7.9) (85.0) (18.0) (46.0) (87.0) (76.0) | 610 7 500 14 000 2 500 37 000 23 000 | (7.2) (85.0) (17.0) (43.0) (84.0) (73.0) | 540 7 600 13 000 2 700 36 000 23 000 | (6.4) (84.0) (16.0) (46.0) (80.0) (70.0) | 2.1% -2.0% -5.4% -5.6% -4.0% -3.9% | -1.7% -5.6% -5.6% -5.8% -4.0% | Switzerland Tajikistan Turkey Turkmenistan Ukraine Uzbekistan |
| - 610 7 300 14 000 2 700 41 000 25 000 235 000 | - (7.4) (86.0) (18.0) (49.0) (91.0) (79.0) (58.6) | 660 7 400 14 000 2 600 39 000 24 000 223 000 | (7.9) (85.0) (18.0) (46.0) (87.0) (76.0) (55.2) | 610 7 500 14 000 2 500 37 000 23 000 212 000 | (7.2) (85.0) (17.0) (43.0) (84.0) (73.0) (52.1) | 540 7 600 13 000 2 700 36 000 23 000 202 000 | (6.4) (84.0) (16.0) (46.0) (80.0) (70.0) (49.3) | 2.1% -2.0% -5.4% -5.6% -4.0% -3.9% | -1.7% -5.6% -5.6% -5.8% -4.0% -4.0% | Switzerland Tajikistan Turkey Turkmenistan Ukraine Uzbekistan Subtotal non-EU/EEA |
| - 610 7 300 14 000 2 700 41 000 25 000 | - (7.4) (86.0) (18.0) (49.0) (91.0) (79.0) | 660 7 400 14 000 2 600 39 000 24 000 | (7.9) (85.0) (18.0) (46.0) (87.0) (76.0) | 610 7 500 14 000 2 500 37 000 23 000 | (7.2) (85.0) (17.0) (43.0) (84.0) (73.0) | 540 7 600 13 000 2 700 36 000 23 000 | (6.4) (84.0) (16.0) (46.0) (80.0) (70.0) | 2.1% -2.0% -5.4% -5.6% -4.0% -3.9% | -1.7% -5.6% -5.6% -5.8% -4.0% -4.0% -5.3% | Switzerland Tajikistan Turkey Turkmenistan Ukraine Uzbekistan |

Table III. Tuberculosis cases in children under 15 years, European Region, 2014–2018^a

| | | 2014 | | | 2015 | | | 2016 | | | 2017 | | | 2018 | |
|---|---|--|--|---|---|---|--|--|---|---|---|--|--|---|---|
| Country/area | N | Percentage among all tuber- culosis cases | Rate per 100 000 | N | Percentage among all tuber- culosis cases | Rate per 100 000 | N | Percentage among all tuber- culosis cases | Rate per 100 000 | N | Percentage among all tuber- culosis cases | Rate per 100 000 | N | Percentage among all tuber- culosis cases | Rate per 100 000 |
| EU/EEA | | | | | | | | | | | | | | | |
| Austria | 14 | (2.4) | 1.1 | 20 | (3.4) | 1.6 | 30 | (4.7) | 2.4 | 21 | (3.7) | 1.7 | 28 | (5.8) | 2.2 |
| Belgium | 60 | (6.3) | 3.2 | 69 | (7.1) | 3.6 | 59 | (5.7) | 3.1 | 68 | (7.0) | 3.5 | 60 | (6.1) | 3.1 |
| Bulgaria | 145 | (7.7) | 14.6 | 118 | (7.1) | 11.8 | 126 | (7.9) | 12.6 | 108 | (7.4) | 10.8 | 72 | (5.3) | 7.2 |
| Croatia | 2 | (0.4) | 0.3 | 8 | (1.6) | 1.3 | 5 | (1.1) | 0.8 | 3 | (0.8) | 0.5 | 8 | (2.2) | 1.3 |
| Cyprus | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 3 | (5.7) | 2.2 | 1 | (1.9) | 0.7 |
| Czech Republic | 6 | (1.2) | 0.4 | 5 | (1.0) | 0.3 | 10 | (1.9) | 0.6 | 6 | (1.2) | 0.4 | 5 | (1.1) | 0.3 |
| Denmark | 9 | (2.8) | 0.9 | 15 | (4.2) | 1.6 | 18 | (5.5) | 1.9 | 12 | (4.4) | 1.2 | 11 | (3.8) | 1.1 |
| Estonia | 1 | (0.4) | 0.5 | 2 | (0.9) | 1.0 | 4 | (2.1) | 1.9 | 0 | (0.0) | 0.0 | 2 | (1.4) | 0.9 |
| Finland | 10 | (3.8) | 1.1 | 11 | (4.0) | 1.2 | 6 | (2.6) | 0.7 | 6 | (2.4) | 0.7 | 2 | (0.9) | 0.2 |
| France | 257 | (5.3) | 2.1 | 0 | (0.0) | 0.0 | 1,153 | (20.1) | 9.4 | 324 | (6.5) | 2.7 | 244 | (4.8) | 2.0 |
| Germany | 142 | (3.1) | 1.3 | 192 | (3.3) | 1.8 | 226 | (3.8) | 2.1 | 240 | (4.4) | 2.2 | 215 | (4.0) | 1.9 |
| Greece | 10 | (1.9) | 0.6 | 11 | (2.3) | 0.7 | 21 | (4.8) | 1.3 | 11 | (2.4) | 0.7 | 6 | (1.4) | 0.4 |
| Hungary | 4 | (0.5) | 0.3 | 9 | (1.0) | 0.6 | 6 | (0.8) | 0.4 | 6 | (0.9) | 0.4 | 3 | (0.5) | 0.2 |
| Iceland | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 |
| Ireland | 7 | (2.3) | 0.7 | 14 | (4.9) | 1.4 | 17 | (5.4) | 1.7 | 7 | (2.3) | 0.7 | 7 | (2.2) | 0.7 |
| Italy | 201 | (5.1) | 2.4 | 177 | (4.7) | 2.1 | 158 | (3.9) | 1.9 | 168 | (4.3) | 2.1 | 164 | (4.2) | 2.0 |
| Latvia | 41 | (5.4) | 13.9 | 25 | (3.5) | 8.4 | 23 | (3.5) | 7.7 | 10 | (1.8) | 3.3 | - | | - |
| Liechtenstein | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 |
| Lithuania | 22 | (1.4) | 5.1 | 36 | (2.4) | 8.5 | 47 | (3.3) | 11.1 | 44 | (3.2) | 10.4 | 19 | (1.7) | 4.5 |
| Luxembourg | 0 | (0.0) | 0.0 | 2 | (6.7) | 2.1 | 1 | (3.4) | 1.1 | 1 | (3.1) | 1.0 | 0 | (0.0) | 0.0 |
| Malta | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 1 | (1.8) | 1.5 |
| Netherlands | 48 | (5.9) | 1.7 | 42 | (4.9) | 1.5 | 49 | (5.5) | 1.8 | 34 | (4.3) | 1.2 | 20 | (2.5) | 0.7 |
| Norway | 14 | (4.3) | 1.5 | 20 | (6.4) | 2.1 | 13 | (4.4) | 1.4 | 17 | (6.5) | 1.8 | 7 | (3.3) | 0.7 |
| Poland | 70 | (1.0) | 1.2 | 81 | (1.3) | 1.4 | 103 | (1.6) | 1.8 | 68 | (1.2) | 1.2 | 52 | (0.9) | 0.9 |
| Portugal | 42 | (1.8) | 2.8 | 43 | (2.0) | 2.9 | 36 | (1.9) | 2.5 | 43 | (2.4) | 3.0 | 60 | (2.8) | 4.2 |
| Romania | 639 | (4.0) | 20.6 | 655 | (4.3) | 21.3 | 596 | (4.4) | 19.4 | 533 | (4.1) | 17.4 | 542 | (4.4) | 17.8 |
| Slovakia | 46 | (13.7) | 5.5 | 67 | (21.1) | 8.1 | 61 | (20.6) | 7.3 | 46 | (18.5) | 5.5 | 40 | (14.2) | 4.7 |
| Slovenia | 3 | (2.1) | 1.0 | 1 | (0.8) | 0.3 | 3 | (2.5) | 1.0 | 2 | (1.8) | 0.6 | 1 | (1.0) | 0.3 |
| Spain | 295 | (6.0) | 4.2 | 365 | (7.3) | 5.2 | 321 | (6.3) | 4.6 | 347 | (6.1) | 5.0 | 298 | (6.4) | 4.3 |
| Sweden | 54 | (8.2) | 3.3 | 47 | (5.8) | 2.8 | 58 | (8.1) | 3.4 | 26 | (5.0) | 1.5 | 32 | (6.5) | 1.8 |
| United Kingdom | 280 | (4.0) | 2.5 | 227 | (3.6) | 2.0 | 226 | (3.7) | 1.9 | 193 | (3.5) | 1.6 | 160 | (3.2) | 1.3 |
| Subtotal EU/EEA | 2 422 | (3.9) | 3.0 | 2 262 | (3.7) | 2.8 | 3 376 | (5.6) | 4.2 | 2 347 | (4.2) | 2.9 | 2 060 | (3.9) | 2.6 |
| Non-EU/EEA | | (-) | | | () | | | (-) | | | () | | | () | |
| Albania | 21 | (5.1) | 3.8 | 11 | (2.7) | 2.0 | 13 | (3.1) | 2.4 | 14 | (2.8) | 2.7 | 4 | (0.9) | 0.8 |
| Andorra | 0 | (0.0) | 0.0 | 1 | (25.0) | 8.8 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 |
| Armenia | 32 | (2.4) | 5.5 | 24 | (2.0) | 4.1 | 21 | (2.0) | 3.5 | 20 | (2.4) | 3.3 | 37 | (5.0) | 6.1 |
| Azerbaijan | 179 | (3.1) | 8.3 | 179 | (3.3) | 8.1 | 175 | (3.4) | 7.8 | 166 | (3.2) | 7.2 | 200 | (4.0) | 8.6 |
| Belarus | 24 | (0.6) | 1.6 | 18 | (0.5) | 1.2 | 13 | (0.4) | 0.8 | 13 | (0.5) | 0.8 | 12 | (0.5) | 0.8 |
| Bosnia and Herzegovina | 15 | (1.3) | 2.8 | 14 | (1.3) | 2.7 | 10 | (1.1) | 2.0 | 11 | (1.4) | 2.2 | 5 | (0.8) | 1.0 |
| Georgia | 129 31 | (4.0) | 17.1 1.4 | 139 | (4.4) (2.1) | 18.2 | <i>123</i> | (4.1) (5.2) | 15.9 0.6 | 94 | (3.6) | 12.0 | 77 16 | (3.3) | 9.7 0.7 |
| Israel Kazakhstan | 452 | (8.6) | 10.0 | 392 | (2.8) | 8.4 | 326 | (2.6) | 6.7 | 404 | (3.2) | 8.0 | 362 | (2.8) | 6.9 |
| | | | | | | | | | | | | | | | |
| <i>Kyrgyzstan</i> Moldova | 438 114 | (6.9) (2.8) | 24.1 17.7 | <i>537</i> 114 | (7.6) (3.2) | 28.6 17.7 | 4 <i>07</i> 103 | (5.8) (2.9) | 21.0 16.0 | 436 123 | (6.5) (3.7) | 21.9 19.2 | 310 95 | (4. <i>9</i>) (3.1) | 15.2 14.8 |
| Monaco | | (0.0) | 0.0 | 0 | (0.0) | 0.0 | - | (2.7) | - | - | (5.7) | 17.2 | - | (3.1) | |
| MONACO | () | | | U | (0.0) | 0.0 | | | | 0 | (0.0) | 0.0 | 2 | (2.4) | 1.7 |
| Montonogro | 0 | | | 1 | (1 2) | 0.0 | Λ | (0,0) | | | | | | | 1./ |
| Montenegro | 0 | (0.0) | 0.0 | 1 | (1.3) | 0.9 | 0 | (0.0) | 0.0 | | | | | | 0.5 |
| North Macedonia | 0 19 | (0.0) (6.7) | 0.0 5.4 | 14 | (5.0) | 4.0 | 25 | (9.5) | 7.2 | 10 | (4.6) | 2.9 | 12 | (5.5) | 3.5 |
| North Macedonia Russia | 0 19 3 195 | (0.0) (6.7) (3.1) | 0.0 5.4 13.4 | 14 3 061 | (5.0) (3.1) | 4.0 12.5 | 25 2 876 | (9.5) (3.1) | 7.2 11.4 | 10 2 494 | (4.6) (3.0) | 2.9 9.7 | 12 2 169 | (5.5) (2.8) | 8.3 |
| North Macedonia Russia San Marino | 0 19 3 195 - | (0.0) (6.7) (3.1) | 0.0 5.4 13.4 | 14 3 061 - | (5.0) (3.1) - | 4.0 12.5 - | 25 2 876 0 | (9.5) (3.1) (0.0) | 7.2 11.4 0.0 | 10 2 494 0 | (4.6) (3.0) (0.0) | 2.9 9.7 0.0 | 12 2 169 0 | (5.5) (2.8) (0.0) | 8.3 0.0 |
| North Macedonia Russia San Marino Serbia | 0 19 3 195 - 41 | (0.0) (6.7) (3.1) - (2.3) | 0.0 5.4 13.4 - 2.8 | 14 3 061 - 29 | (5.0) (3.1) - (1.8) | 4.0 12.5 - 2.0 | 25 2 876 0 17 | (9.5) (3.1) (0.0) (1.2) | 7.2 11.4 0.0 1.2 | 10 2 494 0 22 | (4.6) (3.0) (0.0) (1.5) | 2.9 9.7 0.0 1.6 | 12 2 169 0 29 | (5.5) (2.8) (0.0) (2.2) | 8.3 0.0 2.1 |
| North Macedonia Russia San Marino Serbia Serbia excluding Kosovo ^b | 0 19 3 195 - 41 21 | (0.0) (6.7) (3.1) - (2.3) (2.1) | 0.0 5.4 13.4 - 2.8 2.1 | 14 3 061 - 29 8 | (5.0) (3.1) - (1.8) (0.9) | 4.0 12.5 - 2.0 0.8 | 25 2 876 0 17 0 | (9.5) (3.1) (0.0) (1.2) (0.0) | 7.2 11.4 0.0 1.2 0.0 | 10 2 494 0 22 7 | (4.6) (3.0) (0.0) (1.5) (0.9) | 2.9 9.7 0.0 1.6 0.7 | 12 2 169 0 29 6 | (5.5) (2.8) (0.0) (2.2) (0.9) | 8.3 0.0 2.1 0.6 |
| North Macedonia Russia San Marino Serbia Serbia excluding Kosovo ^b Kosovo ^b | 0 19 3 195 - 41 21 | (0.0) (6.7) (3.1) - (2.3) (2.1) (2.4) | 0.0 5.4 13.4 - 2.8 2.1 4.3 | 14 3 061 - 29 8 21 | (5.0) (3.1) - (1.8) (0.9) (2.7) | 4.0 12.5 - 2.0 0.8 4.6 | 25 2 876 0 17 0 17 | (9.5) (3.1) (0.0) (1.2) (0.0) (2.4) | 7.2 11.4 0.0 1.2 0.0 3.7 | 10 2 494 0 22 7 15 | (4.6) (3.0) (0.0) (1.5) (0.9) (2.1) | 2.9 9.7 0.0 1.6 0.7 3.3 | 12 2 169 0 29 6 23 | (5.5) (2.8) (0.0) (2.2) (0.9) (3.3) | 8.3 0.0 2.1 0.6 5.2 |
| North Macedonia Russia San Marino Serbia Serbia excluding Kosovo ^b Kosovo ^b Switzerland | 0 19 3 195 - 41 21 20 | (0.0) (6.7) (3.1) - (2.3) (2.1) (2.4) (2.6) | 0.0 5.4 13.4 - 2.8 2.1 4.3 0.9 | 14 3 061 - 29 8 21 32 | (5.0) (3.1) - (1.8) (0.9) (2.7) (6.0) | 4.0 12.5 - 2.0 0.8 4.6 2.6 | 25 2 876 0 17 0 17 30 | (9.5) (3.1) (0.0) (1.2) (0.0) (2.4) (5.2) | 7.2 11.4 0.0 1.2 0.0 3.7 2.4 | 10 2 494 0 22 7 15 23 | (4.6) (3.0) (0.0) (1.5) (0.9) (2.1) (4.3) | 2.9 9.7 0.0 1.6 0.7 3.3 1.8 | 12 2169 0 29 6 23 26 | (5.5) (2.8) (0.0) (2.2) (0.9) (3.3) (5.5) | 8.3 0.0 2.1 0.6 5.2 2.0 |
| North Macedonia Russia San Marino Serbia Serbia excluding Kosovo ^b Kosovo ^b Switzerland Tajikistan | 0 19 3 195 - 41 21 20 11 334 | (0.0) (6.7) (3.1) - (2.3) (2.1) (2.4) (2.6) (5.8) | 0.0 5.4 13.4 - 2.8 2.1 4.3 0.9 11.4 | 14 3 061 - 29 8 21 32 328 | (5.0) (3.1) - (1.8) (0.9) (2.7) (6.0) (5.6) | 4.0 12.5 - 2.0 0.8 4.6 2.6 10.8 | 25 2 876 0 17 0 17 30 389 | (9.5) (3.1) (0.0) (1.2) (0.0) (2.4) (5.2) (6.5) | 7.2 11.4 0.0 1.2 0.0 3.7 2.4 12.4 | 10 2 494 0 22 7 15 23 353 | (4.6) (3.0) (0.0) (1.5) (0.9) (2.1) (4.3) (6.0) | 2.9 9.7 0.0 1.6 0.7 3.3 1.8 10.9 | 12 2169 0 29 6 23 26 346 | (5.5) (2.8) (0.0) (2.2) (0.9) (3.3) (5.5) (6.0) | 8.3 0.0 2.1 0.6 5.2 2.0 |
| North Macedonia Russia San Marino Serbia Serbia excluding Kosovo ^b Kosovo ^b Switzerland Tajikistan Turkey | 0 19 3 195 - 41 21 20 11 334 550 | (0.0) (6.7) (3.1) - (2.3) (2.1) (2.4) (2.6) (5.8) (4.2) | 0.0 5.4 13.4 - 2.8 2.1 4.3 0.9 11.4 2.8 | 14 3 061 - 29 8 21 32 328 633 | (5.0) (3.1) - (1.8) (0.9) (2.7) (6.0) (5.6) (5.0) | 4.0 12.5 - 2.0 0.8 4.6 2.6 10.8 3.1 | 25 2 876 0 17 0 17 30 389 628 | (9.5) (3.1) (0.0) (1.2) (0.0) (2.4) (5.2) (6.5) (5.2) | 7.2 11.4 0.0 1.2 0.0 3.7 2.4 12.4 3.1 | 10 2 494 0 22 7 15 23 353 551 | (4.6) (3.0) (0.0) (1.5) (0.9) (2.1) (4.3) (6.0) (4.7) | 2.9 9.7 0.0 1.6 0.7 3.3 1.8 10.9 2.7 | 12 2 169 0 29 6 23 26 346 599 | (5.5) (2.8) (0.0) (2.2) (0.9) (3.3) (5.5) (6.0) (5.2) | 8.3 0.0 2.1 0.6 5.2 2.0 10.3 3.0 |
| North Macedonia Russia San Marino Serbia Serbia excluding Kosovo ^b Kosovo ^b Switzerland Tajikistan Turkey Turkmenistan | 0 19 3 195 - 41 21 20 11 334 550 | (0.0) (6.7) (3.1) - (2.3) (2.1) (2.4) (2.6) (5.8) (4.2) (0.0) | 0.0 5.4 13.4 - 2.8 2.1 4.3 0.9 11.4 2.8 0.0 | 14 3 061 - 29 8 21 32 328 633 0 | (5.0) (3.1) - (1.8) (0.9) (2.7) (6.0) (5.6) (5.0) (0.0) | 4.0 12.5 - 2.0 0.8 4.6 2.6 10.8 3.1 | 25 2 876 0 17 0 17 30 389 628 5 | (9.5) (3.1) (0.0) (1.2) (0.0) (2.4) (5.2) (6.5) (5.2) (0.2) | 7.2 11.4 0.0 1.2 0.0 3.7 2.4 12.4 3.1 0.3 | 10 2 494 0 22 7 15 23 353 551 39 | (4.6) (3.0) (0.0) (1.5) (0.9) (2.1) (4.3) (6.0) (4.7) (2.0) | 2.9 9.7 0.0 1.6 0.7 3.3 1.8 10.9 2.7 2.2 | 12 2 169 0 29 6 23 26 346 599 37 | (5.5) (2.8) (0.0) (2.2) (0.9) (3.3) (5.5) (6.0) (5.2) (1.7) | 8.3 0.0 2.1 0.6 5.2 2.0 10.3 3.0 2.1 |
| North Macedonia Russia San Marino Serbia Serbia excluding Kosovo ^b Kosovo ^b Switzerland Tajikistan Turkey Turkmenistan Ukraine | 0 19 3 195 - 41 21 20 11 334 550 0 | (0.0) (6.7) (3.1) - (2.3) (2.1) (2.4) (2.6) (5.8) (4.2) (0.0) (1.7) | 0.0 5.4 13.4 - 2.8 2.1 4.3 0.9 11.4 2.8 0.0 7.9 | 14 3 061 - 29 8 21 32 328 633 0 568 | (5.0) (3.1) - (1.8) (0.9) (2.7) (6.0) (5.6) (5.0) (0.0) (1.9) | 4.0 12.5 - 2.0 0.8 4.6 2.6 10.8 3.1 0.0 8.3 | 25 2 876 0 17 0 17 30 389 628 5 | (9.5) (3.1) (0.0) (1.2) (0.0) (2.4) (5.2) (6.5) (5.2) (0.2) | 7.2 11.4 0.0 1.2 0.0 3.7 2.4 12.4 3.1 0.3 8.3 | 10 2 494 0 22 7 15 23 353 551 39 611 | (4.6) (3.0) (0.0) (1.5) (0.9) (2.1) (4.3) (6.0) (4.7) (2.0) (2.2) | 2.9 9.7 0.0 1.6 0.7 3.3 1.8 10.9 2.7 2.2 8.8 | 12 2169 0 29 6 23 26 346 599 37 580 | (5.5) (2.8) (0.0) (2.2) (0.9) (3.3) (5.5) (6.0) (5.2) (1.7) (2.2) | 8.3 0.0 2.1 0.6 5.2 2.0 10.3 3.0 2.1 8.3 |
| North Macedonia Russia San Marino Serbia Serbia excluding Kosovo ^b Kosovo ^b Switzerland Tajikistan Turkey Turkmenistan Ukraine Uzbekistan | 0 19 3195 - 41 21 20 11 334 550 0 532 1 913 | (0.0) (6.7) (3.1) - (2.3) (2.1) (2.4) (2.6) (5.8) (4.2) (0.0) (1.7) (10.4) | 0.0 5.4 13.4 - 2.8 2.1 4.3 0.9 11.4 2.8 0.0 7.9 22.2 | 14 3 061 - 29 8 21 32 328 633 0 568 1795 | (5.0) (3.1) - (1.8) (0.9) (2.7) (6.0) (5.6) (5.0) (0.0) (1.9) (11.0) | 4.0 12.5 - 2.0 0.8 4.6 2.6 10.8 3.1 0.0 8.3 20.5 | 25 2 876 0 17 0 17 30 389 628 5 571 2 010 | (9.5) (3.1) (0.0) (1.2) (0.0) (2.4) (5.2) (6.5) (5.2) (0.2) (2.0) (12.5) | 7.2 11.4 0.0 1.2 0.0 3.7 2.4 12.4 3.1 0.3 8.3 22.5 | 10 2 494 0 22 7 15 23 353 551 39 611 1 989 | (4.6) (3.0) (0.0) (1.5) (0.9) (2.1) (4.3) (6.0) (4.7) (2.0) (2.2) (11.8) | 2.9 9.7 0.0 1.6 0.7 3.3 1.8 10.9 2.7 2.2 8.8 21.8 | 12 2169 0 29 6 23 26 346 599 37 580 2 029 | (5.5) (2.8) (0.0) (2.2) (0.9) (3.3) (5.5) (6.0) (5.2) (1.7) (2.2) (12.4) | 8.3 0.0 2.1 0.6 5.2 2.0 10.3 3.0 2.1 8.3 21.8 |
| North Macedonia Russia San Marino Serbia Serbia excluding Kosovo ^b Kosovo ^b Switzerland Tajikistan Turkey Turkmenistan Ukraine | 0 19 3 195 - 41 21 20 11 334 550 0 | (0.0) (6.7) (3.1) - (2.3) (2.1) (2.4) (2.6) (5.8) (4.2) (0.0) (1.7) | 0.0 5.4 13.4 - 2.8 2.1 4.3 0.9 11.4 2.8 0.0 7.9 | 14 3 061 - 29 8 21 32 328 633 0 568 | (5.0) (3.1) - (1.8) (0.9) (2.7) (6.0) (5.6) (5.0) (0.0) (1.9) | 4.0 12.5 - 2.0 0.8 4.6 2.6 10.8 3.1 0.0 8.3 | 25 2 876 0 17 0 17 30 389 628 5 | (9.5) (3.1) (0.0) (1.2) (0.0) (2.4) (5.2) (6.5) (5.2) (0.2) | 7.2 11.4 0.0 1.2 0.0 3.7 2.4 12.4 3.1 0.3 8.3 | 10 2 494 0 22 7 15 23 353 551 39 611 | (4.6) (3.0) (0.0) (1.5) (0.9) (2.1) (4.3) (6.0) (4.7) (2.0) (2.2) | 2.9 9.7 0.0 1.6 0.7 3.3 1.8 10.9 2.7 2.2 8.8 | 12 2169 0 29 6 23 26 346 599 37 580 | (5.5) (2.8) (0.0) (2.2) (0.9) (3.3) (5.5) (6.0) (5.2) (1.7) (2.2) | 8.3 0.0 2.1 0.6 5.2 2.0 10.3 3.0 2.1 8.3 |

^{&#}x27;European Region' comprises the 53 countries of the WHO European Region and Liechtenstein.
WHO European Region 18 tuberculosis high-priority countries presented in italics.
HPC - High-priority country.
TB - tuberculosis.
*For non-EU/EEA countries, new and relapse cases are included; for EU/EEA countries, all tuberculosis cases under 15 years of age are included.
*For non-EU/EEA countries is without prejudice to positions on status, and is in line with UN Security Council Resolution 1244 and the International Court of Justice Opinion on the Kosovo Declaration of Independence.

Table IV. Tuberculosis cases by origin, European Region, 2014–2018

| Country/area N | 9 (52.6 2 (0.6, 3 (12.6 4 (82.9 6 (18.8 3 (16.5, 8 (33.5) 6 (56.0 4 (59.5 7 (38.0 2 (3.8 9 (100.0 5 (43.4 6 (46.1, 7 (4.9, 0 (0.0, 2 (2.6, 0 (83.3) 2 (91.3) 11 (73.8 2 (93.5) | 450 1 860 272 7 415 97 207 171 1 845 1 611 320 819 0 175 1352 724 | (42.7) (47.4) (99.4) (54.5) (17.1) (81.2) (30.3) (83.5) (65.0) (37.7) (35.6) (61.7) (96.2) (0.0) (56.3) | Unknoorig N 0 0 0 0 164 0 0 0 4 307 219 2 0 | | All TB cases (N) 586 949 1872 499 41 511 320 248 263 | N 364 512 10 79 52 110 242 38 | Percentage among (62.4) (62.4) (0.6) (16.2) (82.5) (21.3) | N 219 465 1 650 244 11 407 | Beccentage among (37.6) (47.6) (99.4) (50.0) (17.5) | Unkr ori: N 0 0 0 0 | | All tuberculosis cases (N) 883 977 1660 | N 424 545 4 1 | Bercentage among all transcribed (66.9) (52.3) (0.2) (0.2) | Nativ N 210 497 1 599 463 | Beccentage among alltraperculosis (99.8) (99.8) | N N O O O O O | | Wil tuberculosis cases (V) 441 tuberculosis cases (V) 634 1042 1603 464 | |
|--|--|--|---|---|---|---|--|---|----------------------------|---|---------------------------------------|-------------------------|---|-----------------|--|---------------------------|---|---------------|-------------------------|---|--|
| N N N N N N N N N N | 6 (57.3 9 (52.6 2 (0.6 3 (12.6 4 (82.9 6 (18.8 3 (69.7 6 (16.5 6 (56.0 4 (59.5 7 (38.0 2 (3.8 9 (100.0 6 (46.1 | 250 450 1 860 272 7 415 97 207 171 1 845 1 611 320 819 0 175 1352 724 | (42.7) (47.4) (99.4) (54.5) (17.1) (81.2) (30.3) (83.5) (65.0) (37.7) (35.6) (61.7) (96.2) (0.0) (56.3) | 0 0 0 164 0 0 0 4 307 219 2 | (0.0) (0.0) (0.0) (32.9) (0.0) (0.0) (0.0) (0.0) (1.5) (6.3) | 586 949 1872 499 41 511 320 248 | 364 512 10 79 52 110 242 | (62.4) (52.4) (0.6) (16.2) (82.5) (21.3) | 219 465 1 650 244 | (37.6) (47.6) (99.4) (50.0) | 0 | (0.0) (0.0) (0.0) | 583 977 1 660 | 424 545 | (66.9) (52.3) (0.2) | 210 497 1 599 | (33.1) (47.7) (99.8) | 0 0 0 | (0.0) (0.0) (0.0) | 634 1042 1603 | |
| Austria* 33 Belgium* 49 Bulgaria 1 Croatia 6 Cyprus 3 Czech Republic 99 Denmark 22 Estonia 4 Finland 8 France 2 73 Germany 2 69 Greece* 19 Hungary* 3 Iceland Ireland 13 Italy 180 Latvia 3 Liechtenstein Lithuania 4 Luxembourg 2 Luxembourg 2 Norway 30 Poland* 4 Portugal 35 Romania 4 Slovakia Slovenia 33 Spain 142 Sweden 60 United Kingdom 489 Subtotal EU/EEA 17 46 Non-EU/EEA | 9 (52.6 2 (0.6, 3 (12.6 4 (82.9 6 (18.8 3 (16.5, 8 (33.5) 6 (56.0 4 (59.5 7 (38.0 2 (3.8 9 (100.0 5 (43.4 6 (46.1, 7 (4.9, 0 (0.0, 2 (2.6, 0 (83.3) 2 (91.3) 11 (73.8 2 (93.5) | 450 1 860 272 7 415 97 207 171 1 845 1 611 320 819 0 175 1352 724 | (47.4) (99.4) (54.5) (17.1) (81.2) (30.3) (83.5) (65.0) (37.7) (35.6) (61.7) (96.2) (0.0) (56.3) | 0 0 164 0 0 0 0 4 307 219 2 | (0.0) (0.0) (32.9) (0.0) (0.0) (0.0) (0.0) (1.5) (6.3) | 949 1 872 499 41 511 320 248 | 512 10 79 52 110 242 | (62.4) (52.4) (0.6) (16.2) (82.5) (21.3) | 465 1 650 244 11 | (47.6) (99.4) (50.0) | 0 | (0.0) (0.0) | 977 1 660 | 545 | (52.3) (0.2) | 497 1 599 | (47.7) (99.8) | 0 | (0.0) | 1 042 1 603 | |
| Austria* 33 Belgium* 49 Bulgaria 1 Croatia 6 Cyprus 3 Czech Republic 99 Denmark 22 Estonia 4 Finland 8 France 273 Germany 2 69 Greece* 19 Hungary* 3 Iceland Ireland 13 Italy 180 Latvia 3 Liechtenstein Lithuania 4 Luxembourg 2 Malta 4 Netherlands 60 Norway 30 Poland* 4 Portugal 35 Romania 4 Slovakia Slovenia 3 Spain 142 Sweden 60 United Kingdom 489 Subtotal EU/EEA 17 46 Non-EU/EEA | 9 (52.6 2 (0.6, 3 (12.6 4 (82.9 6 (18.8 3 (16.5, 8 (33.5) 6 (56.0 4 (59.5 7 (38.0 2 (3.8 9 (100.0 5 (43.4 6 (46.1, 7 (4.9, 0 (0.0, 2 (2.6, 0 (83.3) 2 (91.3) 11 (73.8 2 (93.5) | 450 1 860 272 7 415 97 207 171 1 845 1 611 320 819 0 175 1352 724 | (47.4) (99.4) (54.5) (17.1) (81.2) (30.3) (83.5) (65.0) (37.7) (35.6) (61.7) (96.2) (0.0) (56.3) | 0 0 164 0 0 0 0 4 307 219 2 | (0.0) (0.0) (32.9) (0.0) (0.0) (0.0) (0.0) (1.5) (6.3) | 949 1 872 499 41 511 320 248 | 512 10 79 52 110 242 | (52.4) (0.6) (16.2) (82.5) (21.3) | 465 1 650 244 11 | (47.6) (99.4) (50.0) | 0 | (0.0) (0.0) | 977 1 660 | 545 | (52.3) (0.2) | 497 1 599 | (47.7) (99.8) | 0 | (0.0) | 1 042 1 603 | |
| Belgium³ 49 Bulgaria 1 Croatia 6 Cyprus 3 Czech Republic 9 Denmark 22 Estonia 4 Finland 8 France 273 Germany 2 69 Greece³ 19 Hungary³ 3 Iceland Ireland Italy 180 Latvia 3 Lichuania 4 Luxembourg 2 Malta 4 Norway 30 Poland³ 4 Portugal 35 Romania 4 Slovenia 3 Spain 13 Sveden 60 United Kingdom 4 89 Subtotal EU/EEA 17 46 | 9 (52.6 2 (0.6, 3 (12.6 4 (82.9 6 (18.8 3 (16.5, 8 (33.5) 6 (56.0 4 (59.5 7 (38.0 2 (3.8 9 (100.0 5 (43.4 6 (46.1, 7 (4.9, 0 (0.0, 2 (2.6, 0 (83.3) 2 (91.3) 11 (73.8 2 (93.5) | 450 1 860 272 7 415 97 207 171 1 845 1 611 320 819 0 175 1352 724 | (47.4) (99.4) (54.5) (17.1) (81.2) (30.3) (83.5) (65.0) (37.7) (35.6) (61.7) (96.2) (0.0) (56.3) | 0 0 164 0 0 0 0 4 307 219 2 | (0.0) (0.0) (32.9) (0.0) (0.0) (0.0) (0.0) (1.5) (6.3) | 949 1 872 499 41 511 320 248 | 512 10 79 52 110 242 | (52.4) (0.6) (16.2) (82.5) (21.3) | 465 1 650 244 11 | (47.6) (99.4) (50.0) | 0 | (0.0) (0.0) | 977 1 660 | 545 | (52.3) (0.2) | 497 1 599 | (47.7) (99.8) | 0 | (0.0) | 1 042 1 603 | |
| Croatia 6 Cyprus 3 Czech Republic 9 Denmark 22 Estonia 4 Finland 8 Finland 2 France 2 Germany 2 Greece* 19 Hungary* 3 Iceland 13 Italy 180 Latvia 3 Liechtenstein Lithuania Lithuania 4 Luxembourg 2 Malta 4 Norway 30 Poland* 4 Portugal 35 Romania 4 Slovakia 3 Slovania 3 Spain 142 Sweden 60 United Kingdom 4 89 Subtotal EU/EEA 17 46 | 3 (12.6 4 (82.9 6 (18.8 3 (69.7 6) (16.5, 8 (3.5, 6 (56.0 4 (59.5 7 (38.0 2 (3.8 9 (100.0 5 (43.4 6 (46.1 6 (46.1 7 (4.9, 0.0 0.0 2 (2.6 6 (0.0 0 (83.3 2 (91.3 1) (73.8 2 (93.5 | 272 7 415 97 207 171 1 845 1 611 320 8 19 9 0 175 1 352 724 | (54.5) (17.1) (81.2) (30.3) (83.5) (65.0) (37.7) (35.6) (61.7) (96.2) (0.0) (56.3) | 164 0 0 0 0 4 307 219 2 | (32.9) (0.0) (0.0) (0.0) (0.0) (1.5) (6.3) | 499 41 511 320 248 | 79 52 110 242 | (16.2) (82.5) (21.3) | 244 11 | (50.0) | | | | 4 | | | | | | | |
| Cyprus 3 Czech Republic 9 Denmark 22 Estonia 4 Finland 8 France 273 Germany 2 69 Greece* 19 Hungary* 3 Iceland 13 Italy 180 Latvia 3 Liechnestein Lithuania Luxembourg 2 Malta 4 Norway 30 Poland* 4 Portugal 35 Romania 4 Slovenia 3 Spain 142 Sweden 60 United Kingdom 4 89 Subtotal EU/EEA 17 46 | 4 (82.9 6 (18.8 3 (69.7 if (16.5 8 (33.5 6 (56.0 4 (59.5 7 (38.0 2 (3.8 9 (100.0 5 (43.4 6 (46.1 if (4.9 0 (0.0 2 (2.6 6 (0.0 0 (83.3 2 (91.3 if (73.8 2 (93.5 | 7 415 97 207 171 1845 1611 320 819 0 175 1352 724 | (17.1) (81.2) (30.3) (83.5) (65.0) (37.7) (35.6) (61.7) (96.2) (0.0) (56.3) | 0 0 0 0 4 307 219 2 | (0.0) (0.0) (0.0) (0.0) (1.5) (6.3) | 41 511 320 248 | 52 110 242 | (82.5) (21.3) | 11 | | 165 | (22 0) | 100 | 1 | (0.2) | 463 | (99.8) | 0 | (0.0) | 464 | |
| Czech Republic 9 Denmark 22 Estonia 4 Finland 8 France 273 Germany 269 Greece* 19 Hungary* 3 Iceland 13 Italy 180 Latvia 3 Liechtenstein Lithuania Luxembourg 2 Malta 4 Norway 30 Poland* 4 Portugal 35 Romania 4 Slovenia 3 Spain 142 Sweden 60 United Kingdom 4 89 Subtotal EU/EEA 17 46 | 6 (18.8 3 (69.7 i1 (16.5,8 8 (33.5,6 6 (56.0 4 (59.5,7 7 (38.0 2 (3.8,8)9 (100.0 5 (43.4,4 6 (46.1,7 7 (4.9,9 0 (0.0,0 0 (83.3,2 2 (91.3,1)1 (73.8,8 2 (93.5,1)2 1 (73.8,8 2 (93.5,1)2 1 (73.8,8 2 (93.5,1)2 1 (73.8,8)2 1 (73.8,8)2 1 (73.8,8)2 1 (73.8,8)2 2 (93.5,1)2 | 415 97 207 171 1845 1611 320 819 0 175 1352 724 | (81.2) (30.3) (83.5) (65.0) (37.7) (35.6) (61.7) (96.2) (0.0) (56.3) | 0 0 0 4 307 219 2 | (0.0) (0.0) (0.0) (1.5) (6.3) | 511 320 <i>248</i> | 110 242 | (21.3) | | (17.5) | | | 488 | | | | | | | | |
| Denmark 22 Estonia 4 Finland 8 France 2 73 Germany 2 69 Greece* 19 Hungary* 3 Iceland 180 Latvia 3 Liechtenstein Lithuania Luxembourg 2 Malta 4 Norway 30 Poland* 4 Portugal 35 Romania 4 Slovenia 3 Spain 142 Sweden 60 United Kingdom 4 89 Subtotal EU/EEA 17 46 | 3 (69.7 (16.5) (| 97 207 171 1845 1611 320 819 0 175 1352 724 | (30.3) (83.5) (65.0) (37.7) (35.6) (61.7) (96.2) (0.0) (56.3) | 0 0 4 307 219 2 | (0.0) (0.0) (1.5) (6.3) | 320 248 | 242 | | Δ()/ | | 0 | (0.0) | 63 | 56 | (93.3) | 4 | (6.7) | 0 | (0.0) | 60 | |
| Estonia | 11 (16.5, 8 (33.5, 6 (56.0) 4 (59.5, 7 (38.0) 2 (3.8, 8 9 (100.0) 5 (43.4, 6 (46.1, 7 (4.9, 9 0 (0.0) 2 (2.6, 9 0 (83.3) 2 (91.3) 11 (73.8, 2 (93.5, 7 (93.5, 1 1) (73.8, 2 (93.5, 1 1) (73.8, 1 1) (73.8, 1 1) (73.8, 1 1) | 207 171 1845 1611 320 819 0 175 1352 724 | (83.5) (65.0) (37.7) (35.6) (61.7) (96.2) (0.0) (56.3) | 0 4 307 219 2 | (0.0) (1.5) (6.3) | 248 | | | | (78.7) | 0 | (0.0) | 517 | 151 | (29.3) (67.0) | 365 | (70.7) (33.0) | 0 | (0.0) | 516 | |
| Finland 8 France 273 Germany 269 Greece* 19 Hungary* 3 Iceland Ireland 13 Italy 180 Latvia 3 Liechtenstein Lithuania 4 Luxembourg 2 Malta 4 Norway 30 Poland* 4 Portugal 35 Romania 4 Slovakia Slovenia 3 Spain 142 Sweden 60 United Kingdom 489 Subtotal EU/EEA 17 46 Non-EU/EEA | 8 (33.5 6 (56.0 4 (59.5 7 (38.0 2 (3.8 9 (100.0 5 (43.4 6 (46.1 7 (4.9,0 0 (0.0 2 (2.6 0 (83.3 2 (91.3 11 (73.8 2 (93.5 | 171 1 845 1 611 320 819 0 175 1352 724 | (65.0) (37.7) (35.6) (61.7) (96.2) (0.0) (56.3) | 4 307 219 2 | (1.5) (6.3) | | 20 | (67.8) (17.5) | 115 179 | (32.2) | 0 | (0.0) | 357 217 | 221 42 | (21.9) | 109 150 | (78.1) | 0 | (0.0) | 330 192 | |
| France 273 Germany 2 69 Greece* 19 Hungary* 3 Iceland 11 Ireland 13 Italy 180 Latvia 3 Lichtenstein 4 Luxembourg 2 Malta 4 Norway 30 Poland* 4 Portugal 35 Romania 4 Slovakia 3 Slovakia 3 Spain 14 Sweden 60 United Kingdom 4 89 Subtotal EU/EEA 17 46 | 6 (56.0 4 (59.5 7 (38.0 2 (3.8 9 (100.0 5 (43.4 6 (46.1 7 (4.9,0 0 (0.0 2 (2.6 0 (83.3 2 (91.3 11 (73.8 2 (93.5 | 1 845 1 611 320 819 0 1 175 1 352 724 | (37.7) (35.6) (61.7) (96.2) (0.0) (56.3) | 307 219 2 | (6.3) | 203 | 114 | (41.9) | 151 | (55.5) | 7 | (2.6) | 272 | 111 | (47.6) | 117 | (50.2) | 5 | (2.1) | 233 | |
| Germany 2 69 Greece* 19 Hungary* 3 Iceland 13 Italy 180 Latvia 3 Liechtenstein Lithuania Luxembourg 2 Malta 4 Norway 30 Poland* 4 Portugal 35 Romania 4 Slovakia Slovakia Slovenia 3 Spain 142 Sweden 60 United Kingdom 4 89 Subtotal EU/EEA 17 46 | 4 (59.5 7 (38.0 2 (3.8 9 (100.0 5 (43.4 6 (46.1 7 (4.9 0 (0.0 2 (2.6 0 (83.3 2 (91.3 1) (73.8 2 (93.5 | 1 611 320 819 0 175 1352 724 | (35.6) (61.7) (96.2) (0.0) (56.3) | 219 2 | | 4 888 | 2 655 | (56.0) | 1826 | (38.5) | 263 | (5.5) | 4 744 | 3 002 | (52.3) | 2 368 | (41.3) | 365 | (6.4) | 5 735 | |
| Hungary* 3 Iceland | 2 (3.8 9 (100.0 5 (43.4 6 (46.1 7 (4.9 0 (0.0 2 (2.6 0 (83.3 2 (91.3 11 (73.8 2 (93.5 | 819 0 175 1352 724 | (96.2) (0.0) (56.3) | | | 4 524 | 4 085 | (70.0) | 1585 | (27.2) | 167 | (2.9) | 5 837 | 4 330 | (73.1) | 1508 | (25.4) | 88 | (1.5) | 5 926 | |
| Iceland Ireland Irel | 9 (100.0 5 (43.4 6 (46.1 7 (4.9 0 (0.0 2 (2.6 0 (83.3 2 (91.3 11 (73.8 2 (93.5 | 0 175 1352 724 | (0.0) (56.3) | 0 | (0.4) | 519 | 189 | (39.2) | 289 | (60.0) | 4 | (0.8) | 482 | 188 | (42.7) | 252 | (57.3) | 0 | (0.0) | 440 | |
| Ireland | 5 (43.4 6 (46.1 7 (4.9) 0 (0.0 2 (2.6) 0 (83.3 2 (91.3 11 (73.8 2 (93.5) | 175 1352 724 | (56.3) | U | (0.0) | 851 | 27 | (3.0) | 879 | (97.0) | 0 | (0.0) | 906 | 30 | (3.8) | 756 | (96.2) | 0 | (0.0) | 786 | |
| Italy | 6 (46.1 67 (4.9) 0 (0.0) 2 (2.6) 0 (83.3) 2 (91.3) 11 (73.8) 2 (93.5) | 1 352 724 | | 0 | (0.0) | 9 | 6 | (85.7) | 1 | (14.3) | 0 | (0.0) | 7 | 4 | (66.7) | 2 | (33.3) | 0 | (0.0) | 6 | |
| Latvia 3 Liechtenstein 4 Lithuania 4 Luxembourg 2 Malta 4 Netherlands 60 Norway 30 Polanda 4 Portugal 35 Romania 4 Slovakia 5 Slovenia 3 Spain 14 Sweden 60 United Kingdom 4 Subtotal EU/EEA 17 46 | 7 (4.9) 0 (0.0) 2 (2.6) 0 (83.3) 2 (91.3) 11 (73.8) 2 (93.5) | 724 | () | 1 | (0.3) | 311 | 129 | (45.6) | 144 | (50.9) | 10 | (3.5) | 283 | 161 | (51.1) | 142 | (45.1) | 12 | (3.8) | 315 | |
| Liechtenstein Lithuania 4 Luxembourg 2 Malta 4 Netherlands 60 Norway 30 Polanda 4 Portugal 35 Romania 4 Slovakia 5lovakia Slovenia 3 Spain 142 Sweden 60 United Kingdom 4 89 Subtotal EU/EEA 17 46 Non-EU/EEA 17 46 | 0 (0.0 2 (2.6) 0 (83.3 2 (91.3 11 (73.8 2 (93.5 | 1 | | 758 | (19.4) | 3 916 | 1764 | (46.8) | 1 2 2 7 | (32.6) | 778 | (20.6) | 3 769 | 2 5 0 9 | (62.2) | 1180 | (29.3) | 343 | (8.5) | 4 032 | |
| Lithuania 4 Luxembourg 2 Malta 4 Netherlands 60 Norway 30 Poland* 4 Portugal 35 Romania 4 Slovakia 5lovakia Slovenia 3 Spain 142 Sweden 60 United Kingdom 4 89 Subtotal EU/EEA 17 46 Non-EU/EEA 17 46 | 2 (2.6) 0 (83.3) 2 (91.3) 11 (73.8) 2 (93.5) | | (95.1) (100.0) | 0 | (0.0) | 761 1 | 45 0 | (6.2) | 676 0 | (93.8) | 0 | (0.0) | 721 | 43 | (6.5) (100.0) | <i>617</i> | (93.5) | 0 | (0.0) | 660 | |
| Luxembourg 2 Malta 4 Netherlands 60 Norway 30 Poland* 4 Portugal 35 Romania 4 Slovakia 5 Slovenia 3 Spain 142 Sweden 60 United Kingdom 4 89 Subtotal EU/EEA 17 46 Non-EU/EEA 17 46 | 0 (83.3 2 (91.3 1 (73.8 2 (93.5 | 1 505 | | 0 | (0.0) | 1 607 | 15 | (1.0) | 1 492 | (99.0) | 0 | (0.0) | 1 507 | 13 | (0.9) | 1 429 | (99.1) | 0 | (0.0) | 1 442 | |
| Malta 4 Netherlands 60 Norway 30 Poland* 4 Portugal 35 Romania 4 Slovakia 5 Slovenia 3 Spain 142 Sweden 60 United Kingdom 4 89 Subtotal EU/EEA 17 46 Non-EU/EEA 17 46 | 2 (91.3 1 (73.8 2 (93.5 | | | 0 | (0.0) | 24 | 20 | (66.7) | 10 | (33.3) | 0 | (0.0) | 30 | 22 | (75.9) | 7 | (24.1) | 0 | (0.0) | 29 | |
| Norway 30 Poland³ 4 Portugal 35 Romania 4 Slovakia 5 Slovenia 3 Spain 142 Sweden 60 United Kingdom 4 89 Subtotal EU/EEA 17 46 Non-EU/EEA 17 46 | 2 (93.5 | | , | 0 | (0.0) | 46 | 24 | (75.0) | 8 | (25.0) | 0 | (0.0) | 32 | 48 | (96.0) | 2 | (4.0) | 0 | (0.0) | 50 | |
| Polanda 4 Portugal 35 Romania 4 Slovakia 5 Slovenia 3 Spain 142 Sweden 60 United Kingdom 4 89 Subtotal EU/EEA 17 46 Non-EU/EEA 17 | | | | 0 | (0.0) | 814 | 625 | (72.5) | 236 | (27.4) | 1 | (0.1) | 862 | 670 | (75.5) | 215 | (24.2) | 2 | (0.2) | 887 | |
| Portugal 35 Romania 4 Slovakia 3 Slovenia 3 Spain 142 Sweden 60 United Kingdom 4 89 Subtotal EU/EEA 17 46 Non-EU/EEA 17 46 | | 21 | (6.5) | 0 | (0.0) | 323 | 277 | (88.5) | 36 | (11.5) | 0 | (0.0) | 313 | 262 | (88.8) | 33 | (11.2) | 0 | (0.0) | 295 | |
| Romania 4 Slovakia 3 Slovenia 3 Spain 142 Sweden 60 United Kingdom 4 89 Subtotal EU/EEA 17 46 Non-EU/EEA 17 46 | 9 (0.7 | 6 6 4 9 | (99.3) | 0 | (0.0) | 6 698 | 52 | (0.8) | 6 378 | (99.2) | 0 | (0.0) | 6 430 | 92 | (1.4) | 6 352 | (98.6) | 0 | (0.0) | 6 444 | |
| Slovakia Slovenia 3 Spain 142 Sweden 60 United Kingdom 4 89 Subtotal EU/EEA 17 46 Non-EU/EEA 17 46 | | | | 3 | (0.1) | 2 278 | 368 | (16.8) | 1 825 | (83.1) | 3 | (0.1) | 2 196 | 363 | (18.8) | 1572 | (81.2) | 1 | (0.1) | 1936 | |
| Slovenia 3 Spain 142 Sweden 60 United Kingdom 4 89 Subtotal EU/EEA 17 46 Non-EU/EEA 17 | | | | 0 | (0.0) | 15 879 | 36 | (0.2) | 15 145 | (99.7) | 2 | (0.0) | 15 183 | 24 | (0.2) | 13 577 | (99.8) | 0 | (0.0) | 13 601 | |
| Spain 1 42 Sweden 60 United Kingdom 4 89 Subtotal EU/EEA 17 46 Non-EU/EEA 17 46 | 8 (2.4 | | | 0 | (0.0) | 336 | 11 | (3.5) | 306 | (96.5) | 0 | (0.0) | 317 | 11 | (3.7) | 285 | (96.3) | 0 | (0.0) | 296 | |
| Sweden 60 United Kingdom 4 89 Subtotal EU/EEA 17 46 Non-EU/EEA | | | | 637 | (0.0) | 144 4 913 | 50 1562 | (38.5) | 80 3 291 | (61.5) (65.6) | 167 | (0.0) | 130 5 020 | 1 454 | (36.4) | 75 2 922 | (63.6) (57.6) | 0 694 | (0.0) | 118 5 070 | |
| United Kingdom 4 89 Subtotal EU/EEA 17 46 Non-EU/EEA | | | | 0 0 | (0.0) | 659 | 729 | (89.4) | 86 | (10.6) | 0 | (0.0) | 815 | 642 | (89.9) | 72 | (10.1) | 0 | (0.0) | 714 | |
| Subtotal EU/EEA 17 46 Non-EU/EEA | | | | 118 | (1.7) | 7 030 | 4 359 | (70.0) | 1750 | (28.1) | 120 | (1.9) | 6 229 | 4 375 | (71.5) | 1 6 6 1 | (27.2) | 81 | (1.3) | 6 117 | |
| | 3 (28.2 | 42 144 | (68.2) | 2 213 | (3.6) | 61820 | 18 549 | (30.4) | 40 711 | (66.8) | 1689 | (2.8) | 60 949 | 19 843 | (33.1) | 38 541 | (64.3) | 1 591 | (2.7) | 59 975 | |
| Albania | | | | | | | | | | | | | | | | | | | | | |
| | 0.0) | | (100.0) | - | - | 408 | 4 | (1.0) | 411 | (99.0) | - | - | 415 | 0 | (0.0) | | (100.0) | - | - | 415 | |
| | 6 (100.0 | | | - | - | 6 | 0 | (0.0) | | (100.0) | - | - | 4 | 0 | (0.0) | | (100.0) | - | - | 4 | |
| | 0 (0.0) 11 (0.1) | | (100.0) | - | - | 1 342 7 539 | 15 | (0.1) | 1 184 7 486 | (99.9) (99.8) | - | - | 1 185 7 501 | 12 | (0.0) | 1 080 6 695 | (100.0) | _ | - | 1 080 6 707 | |
| , | | | | | | | | | | | | | | | | | | | | | |
| | 0 (0.0) | | (100.0) | - | - | 4 274 | 0 | (0.0) | | (100.0) | - | - | 4 177 | 0 | (0.0) | | (100.0) | - | - | 3 598 | |
| | 0.0) | 1 196 | (100.0) | - | - | 1196 | 0 | (0.0) | 1095 | (100.0) | - | - | 1 0 9 5 | 0 | (0.0) | 907 | (100.0) | - | - | 907 | |
| Georgia Israel 29 | 8 (82.5 | 63 | (17.5) | | | 361 | 233 | (83.2) | 47 | (16.8) | | _ | 280 | 202 | (80.8) | 48 | (19.2) | | | 250 | |
| Kazakhstan 4 | | | (99.7) | _ | _ | 15 718 | 78 | (0.5) | | (99.5) | | _ | 14 631 | 153 | (1.2) | 12 505 | (98.8) | | | 12 658 | |
| Kyrgyzstan | - (0.5 | | - | _ | _ | - | - | (0.5) | - | - | _ | _ | - | - | - | - | (70.0) | _ | _ | - | |
| | 0.0) | 4 636 | (100.0) | - | - | 4 636 | 37 | (0.9) | 4 174 | (99.1) | - | - | 4 211 | 39 | (0.9) | 4 095 | (99.1) | - | - | 4 134 | |
| Monaco | 0 | | | - | - | | | | | | - | - | 0 | | | | | - | - | 0 | |
| Montenegro | 3 (2.7 | 110 | (97.3) | - | - | 113 | 3 | (3.8) | 77 | (96.3) | - | - | 80 | 2 | (2.3) | 85 | (97.7) | - | - | 87 | |
| | 7 (6.0) | | | - | - | 285 | 10 | (3.5) | | (96.5) | - | - | 284 | 8 | (3.0) | 259 | (97.0) | - | - | 267 | |
| Russia 269 | 0 (2.0 | 133 478 | (98.0) | - | - | 136 168 | 0 | (0.0) | 130 904 | (100.0) | - | - | 130 904 | 2797 | (2.3) | 118 249 | (97.7) | - | - | 121 046 | |
| San Marino | - /- | | (6.5) | - | - | - | | - | | (0.5.3) | - | - | 0 | 0 | (= -) | 0 | (0.5.) | - | - | 0 | |
| 001010 | 4 (0.2 | 1828 | (99.8) | - | - | 1832 | 7 | (0.4) | 1 651 | (99.6) | - | - | 1658 | 5 | (0.3) | 1 483 | (99.7) | - | - | 1 488 | |
| Serbia excluding Kosovob | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| Kosovo ^b Switzerland 35 | 9 (75.9 | 114 | (24.1) | - | _ | 473 | 428 | (75.9) | 136 | (24.1) | | _ | 564 | 486 | (79.8) | 123 | (20.2) | _ | | 609 | |
| | 0 (0.0 | | (100.0) | | | 6 260 | 428 | (0.0) | | (100.0) | | _ | 6 232 | 486 | (0.0) | | (100.0) | _ | | 6 241 | |
| Turkey 80 | | | | - | _ | 13 378 | 872 | (6.8) | | (93.2) | _ | _ | 12 772 | 904 | (7.3) | 11 513 | (92.7) | _ | _ | 12 417 | |
| Turkmenistan | - (0.0) | | - | - | - | - | - | | - | - | _ | - | | - | - | - | | - | - | 2 340 | |
| Ukraine 2 | 2 (0.1) | 40 280 | (99.9) | - | - | 40 302 | 10 | (0.0) | 35 294 | (100.0) | _ | - | 35 304 | 20 | (0.1) | 34 068 | (99.9) | - | - | 34 088 | |
| Uzbekistan 8 | | | | - | - | 22 804 | 47 | (0.2) | | | - | - | 19 055 | 0 | (0.0) | | (100.0) | - | - | 18 441 | |
| Subtotal non-EU/EEA 4 34 | | 252 747 | | - | (0.0) | 257 095 | 1745 | (0.7) | | | - | | 240 352 | 4 628 | (2.0) | 219 809 | | - | - | 226 777 | |
| Total European Region 21 81 Subtotal 18 HPCs 3 83 | ช (1.7 | 294 891 268 951 | | 2 213 | (0.7) | 318 915 272 788 | 20 294 1 608 | (6.7) (0.6) | | - | - | (0.0) | 301 301 255 260 | 24 471 4 051 | (8.5) | 258 350 233 857 | (90.1) (97.3) | - | - | 286 752 269 176 | |

^{&#}x27;European Region' comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs presented in italics.

4 Origin is defined as nationality (citizenship), and if not reported it is defined as country of birth.

5 This designation is without prejudice to positions on status, and is in line with UN Security Council Resolution 1244 and the International Court of Justice Opinion on the Kosovo Declaration of Independence.

| | | | 2017 | | | | | | | 2018 | | | | |
|--------------|----------------------------------|--------------|--------------------------------------|--------------|--------------------------------------|----------------------------|--------------|-------------------------------------|---------|--------------------------------------|--------------|-------------------------------------|----------------------------|--------------------------------|
| Forei | gn | Nati | ve | Unkn ori: | | es (N) | Fore | ign | Nati | ve | Unkn oriş | | es (N) | |
| N | Percentage among alltuberculosis | N | Percentage among all tuberculosis | N | Percentage among all tuberculosis | All tuberculosis cases (N) | N | Percentage among alltuberculosis | N | Percentage among all tuberculosis | N | Percentage among alltuberculosis | All tuberculosis cases (N) | Country/area |
| | | | | | | | | | | | | | | EU/EEA |
| 372 | (65.4) | 197 | (34.6) | 0 | (0.0) | 569 | 299 | (62.0) | 183 | (38.0) | 0 | (0.0) | 482 | Austria |
| 502 | (51.9) | 465 | (48.1) | 0 | (0.0) | 967 | 511 | (52.1) | 470 | (47.9) | 0 | (0.0) | 981 | Belgium ^a |
| 6 | (0.4) | 1 457 | (99.6) | 0 | (0.0) | 1 463 | 8 | (0.6) | 1 350 | (99.4) | 0 | (0.0) | 1 358 | |
| 4 | (1.1) | 163 | (43.1) | 211 | (55.8) | 378 | 4 | (1.1) | 177 | (47.6) | 191 | (51.3) | 372 | Croatia |
| 38 | (71.7) | 15 | (28.3) | 0 | (0.0) | 53 | 49 | (94.2) | 3 | (5.8) | 0 | (0.0) | | Cyprus |
| 158 | (31.5) | 343 | (68.5) | 0 | (0.0) | 501 | 147 | (33.1) | 297 | (66.9) | 0 | (0.0) | | |
| 184 | (66.9) | 90 | (32.7) | 1 | (0.4) | 275 | 198 | (68.0) | 93 | (32.0) | 0 | (0.0) | 291 | Denmark |
| 23 | (13.1) | 152 | (86.9) | 0 | (0.0) | 175 | 32 | (21.8) | 115 | (78.2) | 0 | (0.0) | 147 230 | Estonia |
| 96 2 972 | (39.0) (59.4) | 140 | (56.9) | 10 283 | (4.1) | 246 5 005 | 92 3 142 | (40.0) (61.7) | 130 | (56.5) | 305 | (3.5) | 5 092 | Finland France |
| | | 1750 | | | | | | | 1645 | | | (6.0) | | |
| 3 900 197 | (71.0) (42.2) | 1 477 270 | (26.9) (57.8) | 118 | (2.1) | 5 495 467 | 3 890 216 | (71.7) (50.0) | 1 374 | (25.3) (49.8) | 165 | (3.0) | 5 429 432 | Germany Greece ^a |
| 25 | (3.6) | 660 | (96.4) | 0 | (0.0) | 685 | 23 | (3.6) | 617 | (96.4) | 0 | (0.2) | | Hungarya |
| 8 | (57.1) | 6 | (42.9) | 0 | (0.0) | 14 | 8 | (100.0) | 0 | (0.0) | 0 | (0.0) | 8 | Iceland |
| 142 | (46.6) | 148 | (42.5) | 15 | (4.9) | 305 | 140 | (44.6) | 144 | (45.9) | 30 | (9.6) | 314 | Ireland |
| 2 611 | (66.2) | 1333 | (33.8) | 0 | (0.0) | 3 944 | 2 313 | (59.1) | 1509 | (38.6) | 90 | (2.3) | 3 912 | |
| 41 | (7.4) | 511 | (92.6) | 0 | (0.0) | 552 | | - | - | (3010) | - | - | | Latvia |
| 0 | (0.0) | 1 | (100.0) | 0 | (0.0) | 1 | 1 | (100.0) | 0 | (0.0) | 0 | (0.0) | | Liechtenstein |
| 15 | (1.1) | 1 372 | (98.9) | 0 | (0.0) | 1 387 | 12 | (1.1) | 1 130 | (98.9) | 0 | (0.0) | | |
| 25 | (78.1) | 7 | (21.9) | 0 | (0.0) | 32 | 34 | (81.0) | 8 | (19.0) | 0 | (0.0) | 42 | Luxembourg |
| 39 | (92.9) | 3 | (7.1) | 0 | (0.0) | 42 | 53 | (96.4) | 2 | (3.6) | 0 | (0.0) | 55 | Malta |
| 586 | (74.8) | 197 | (25.2) | 0 | (0.0) | 783 | 619 | (76.8) | 181 | (22.5) | 6 | (0.7) | 806 | Netherlands |
| 231 | (88.5) | 30 | (11.5) | 0 | (0.0) | 261 | 180 | (86.1) | 29 | (13.9) | 0 | (0.0) | 209 | Norway |
| 108 | (1.9) | 5 679 | (98.1) | 0 | (0.0) | 5 787 | 97 | (1.8) | 5 390 | (98.2) | 0 | (0.0) | 5 487 | Polanda |
| 351 | (19.5) | 1448 | (80.4) | 1 | (0.1) | 1800 | 497 | (23.3) | 1640 | (76.7) | 0 | (0.0) | 2 137 | Portugal |
| 27 | (0.2) | 12 970 | (99.8) | 0 | (0.0) | 12 997 | 33 | (0.3) | 12 172 | (99.7) | 0 | (0.0) | 12 205 | Romania |
| 5 | (2.0) | 244 | (98.0) | 0 | (0.0) | 249 | 10 | (3.6) | 271 | (96.4) | 0 | (0.0) | 281 | Slovakia |
| 45 | (40.2) | 67 | (59.8) | 0 | (0.0) | 112 | 44 | (44.4) | 55 | (55.6) | 0 | (0.0) | 99 | Slovenia |
| 2 049 | (36.0) | 3 310 | (58.2) | 331 | (5.8) | 5 690 | 1 670 | (35.9) | 2 629 | (56.6) | 349 | (7.5) | | |
| 467 | (90.0) | 52 | (10.0) | 0 | (0.0) | 519 | 423 | (86.2) | 68 | (13.8) | 0 | (0.0) | 491 | |
| 3 824 | (69.1) | 1630 | (29.4) | 83 | (1.5) | 5 537 | 3 501 | (69.0) | 1468 | (28.9) | 106 | (2.1) | | United Kingdom |
| 19 051 | (33.8) | 36 187 | (64.3) | 1 053 | (1.9) | 56 291 | 18 246 | (34.5) | 33 365 | (63.1) | 1 251 | (2.4) | 52 862 | |
| 0 | (0.0) | 503 | (100.0) | - | - | 503 | 0 | (0.0) | 440 | (100.0) | _ | _ | 440 | Non-EU/EEA Albania |
| 0 | (0.0) | 1 | (100.0) | _ | _ | 1 | 0 | (0.0) | 2 | (100.0) | _ | | | Andorra |
| 7 | (0.8) | 919 | (99.2) | _ | | 926 | 10 | (1.3) | 786 | (98.7) | | | 796 | Armenia |
| , | (0.0) | 717 | (77.2) | | | 920 | | | | | | | | |
| - | - | - | - | - | - | - | 0 | (0.0) | 6 896 | (100.0) | - | - | 6 896 | Azerbaijan |
| 0 | (0.0) | 3 052 | (100.0) | - | - | 3 052 | 0 | (0.0) | 2 542 | (100.0) | - | - | 2 542 | Belarus |
| 0 | (0.0) | 768 | (100.0) | - | - | 768 | 0 | (0.0) | 669 | (100.0) | - | - | 669 | Bosnia and Herzegovina |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | Georgia |
| 190 | (81.2) | 44 | (18.8) | - | - | 234 | 245 | (83.9) | 47 | (16.1) | - | - | 292 | Israel |
| 0 | (0.0) | 12 942 | (100.0) | - | - | 12 942 | 200 | (1.5) | 13 161 | (98.5) | - | - | | Kazakhstan |
| - | - | - | - | - | - | - | 0 | (0.0) | 7 585 | (100.0) | - | - | | Kyrgyzstan |
| 24 | (0.6) | 3 834 | (99.4) | - | - | 3 858 | 17 | (0.5) | 3 448 | (99.5) | - | - | | Moldova |
| | | | | - | - | | | | | | - | - | | Monaco |
| 3 | (3.9) | 74 | (96.1) | - | - | 77 | 4 | (4.8) | 80 | (95.2) | - | - | | Montenegro |
| 3 | (1.4) | 216 | (98.6) | - | - | 219 | 1 | (0.5) | 216 | (99.5) | - | - | | North Macedonia |
| 2498 | (2.2) | 111 689 | (97.8) | - | - | 114 187 | 2066 | (1.9) | 104 847 | (98.1) | - | - | 106 913 | |
| 0 | () | 0 | () | - | - | 0 | 0 | () | 0 | (| - | - | | San Marino |
| 0 | (0.0) | 1466 | (100.0) | - | - | 1466 | 5 | (0.4) | 1 353 | (99.6) | - | - | | Serbia |
| - | | - | - | - | - | - | - | | - | - | - | - | | Serbia excluding Kosovo |
| - | (([0) | - | (21.1) | _ | _ | - | - | ((0.0) | 166 | (24.2) | - | - | | Kosovo ^b |
| 366 | (65.9) | 189 | (34.1) | - | - | 555 | 352 | (68.2) | 164 | (31.8) | - | - | | Switzerland |
| 1107 | (0.0) | 6 279 | (100.0) | - | - | 6 279 | 1270 | (0.0) | 5 975 | (100.0) | - | - | | Tajikistan |
| 1107 | (9.2) | 10 939 | (90.8) | _ | - | 12 046 | 1278 | (10.8) | 10 508 | (89.2) | - | - | | Turkey Turkmenistan |
| 26 | (0.1) | 31 558 | (99.9) | - | _ | 31 584 | 47 | (0.2) | 30 331 | (99.8) | _ | _ | | Ukraine |
| 0 | (0.1) | 19 329 | (100.0) | _ | | 19 329 | 0 | (0.2) | 18 496 | (100.0) | _ | | | Uzbekistan |
| 4 224 | (2.0) | 203 802 | (98.0) | - | - | 208 026 | 4 225 | (0.0) | 207 546 | (98.0) | - | - | | Subtotal non-EU/EEA |
| 23 275 | (8.8) | 239 989 | (90.8) | | - | 264 317 | 22 471 | (8.5) | 240 911 | (91.0) | - | | | Total European Region |
| | (0.0) | 201707 | (,,0,0) | | | 207311 | 7/1 | (0.3) | -TV 711 | (/1.0) | | | 204 023 | .v.u. Luivpean Ne51011 |

Table V. MDR tuberculosis notification among new bacteriologically-confirmed pulmonary tuberculosis cases with available DST results, European Region, 2014-2018

| | | 2014 | _ | _ | 2015 | | | 2016 | | | 207 | _ | | 2018 | | Mean |
|--------------------------------------|-------|--------|-----------------------|-------|--------|------------------------|-------|--------|------------------------|-------|--------|------------------------|-------|---------|------------------------|--|
| Country/area | N | % | Rate per 100000 | N | % | Rate per 100 000 | N | % | Rate per 100 000 | N | % | Rate per 100 000 | N | % | Rate per 100 000 | annual % change in rate, 2014– 2028 |
| EU/EEA | | | | | | | | | | | | | | | | |
| Austria | 7 | (2.6) | 0.1 | 5 | (1.9) | 0.1 | 8 | (3.0) | 0.1 | 11 | (4.2) | 0.1 | 10 | (4.8) | 0.1 | 8.3% |
| Belgium ^b | 6 | (1.5) | 0.1 | 6 | (1.4) | 0.1 | 6 | (1.4) | 0.1 | 1 | (0.2) | 0.0 | 5 | (1.2) | 0.0 | -4.9% |
| Bulgaria | 17 | (2.7) | 0.2 | 4 | (0.7) | 0.1 | 5 | (0.9) | 0.1 | 13 | (2.5) | 0.2 | 10 | (2.2) | 0.1 | -11.8% |
| Croatia | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 1 | (0.4) | 0.0 | - |
| Cyprus | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 1 | (3.0) | 0.1 | 0 | (0.0) | 0.0 | - |
| Czech Republic | 3 | (1.0) | 0.0 | 7 | (2.2) | 0.1 | 4 | (1.3) | 0.0 | 3 | (1.0) | 0.0 | 10 | (3.6) | 0.1 | 34.8% |
| Denmark ^b | 1 | (0.5) | 0.0 | 4 | (1.9) | 0.1 | 3 | (1.7) | 0.1 | 1 | (0.6) | 0.0 | 4 | (2.5) | 0.1 | 40.5% |
| Estonia | 30 | (19.4) | 2.3 | 18 | (13.5) | 1.4 | 17 | (12.9) | 1.3 | 26 | (22.0) | 2.0 | 22 | (22.0) | 1.7 | -7.5% |
| Finland | 5 | (3.3) | 0.1 | 7 | (4.5) | 0.1 | 2 | (1.6) | 0.0 | 4 | (2.9) | 0.1 | 4 | (3.1) | 0.1 | -5.7% |
| France | 25 | (1.0) | 0.0 | - | - | - | 33 | (1.4) | 0.0 | - | - | - | 21 | (100.0) | 0.0 | -4.5% |
| Germany | 9 | (3.0) | 0.0 | 40 | (1.8) | 0.0 | 50 | (2.3) | 0.1 | 53 | (2.5) | 0.1 | 55 | (2.7) | 0.1 | 56.3% |
| Greece | 3 | (2.5) | 0.0 | 3 | (1.9) | 0.0 | 2 | (2.0) | 0.0 | 5 | (3.5) | 0.0 | 4 | (3.5) | 0.0 | 7.9% |
| Hungary | 1 | (0.4) | 0.0 | 6 | (1.8) | 0.1 | 12 | (4.1) | 0.1 | 7 | (2.5) | 0.1 | 8 | (2.7) | 0.1 | 68.6% |
| Iceland | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | - |
| Ireland ^b | 2 | (1.6) | 0.0 | 1 | (1.0) | 0.0 | 4 | (3.1) | 0.1 | 2 | (2.0) | 0.0 | 3 | (3.2) | 0.1 | 9.5% |
| Italy | 24 | (2.0) | 0.0 | 18 | (2.3) | 0.0 | 24 | (3.1) | 0.0 | 45 | (2.4) | 0.1 | 32 | (1.8) | 0.1 | 7.6% |
| Latvia | 38 | (8.2) | 1.9 | 36 | (7.9) | 1.8 | 32 | (7.6) | 1.6 | 28 | (7.7) | 1.4 | - | - | - | - |
| Liechtenstein | 0 | - | 0.0 | 0 | | 0.0 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | |
| Lithuania | 128 | (13.6) | 4.3 | 104 | (11.6) | 3.6 | 117 | (13.3) | 4.1 | 110 | (12.9) | 3.9 | 88 | (11.7) | 3.1 | -7.9% |
| Luxembourg | - | (1310) | - | - | - | _ | - | (.5.5) | _ | - | (.2.) | - | - | - | _ | - |
| Malta | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | |
| Netherlands | 4 | (1.2) | 0.0 | 5 | (1.4) | 0.0 | 6 | (1.8) | 0.0 | 5 | (1.5) | 0.0 | 3 | (0.9) | 0.0 | -7.4% |
| Norway ^b | 5 | (3.2) | 0.1 | 4 | (2.6) | 0.0 | 8 | (5.4) | 0.2 | 6 | (4.5) | 0.0 | 4 | (4.0) | 0.0 | -6.3% |
| Poland | 17 | (0.4) | 0.0 | 19 | (0.5) | 0.0 | 27 | (0.7) | 0.1 | 30 | (0.9) | 0.1 | 31 | (1.0) | 0.1 | 16.2% |
| | 17 | (1.6) | 0.0 | 12 | (1.2) | 0.0 | 11 | (1.2) | 0.1 | 9 | (1.5) | 0.1 | 6 | (0.7) | 0.1 | -22.7% |
| Portugal | 125 | (2.1) | | 129 | (2.0) | 0.6 | 129 | (2.1) | 0.1 | 102 | (1.7) | 0.1 | 117 | (2.0) | 0.6 | -1.1% |
| Romania | | | 0.6 | | | | | (2.1) | | | | | | | | |
| Slovakia | 1 | (0.8) | 0.0 | 1 | (0.7) | 0.0 | 2 | | 0.0 | 4 | (4.1) | 0.1 | 0 | (0.0) | 0.0 | -100.0% |
| Slovenia | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 1 | (1.2) | 0.0 | 0 | (0.0) | 0.0 | 40 (0) |
| Spain | 26 | (1.7) | 0.1 | 16 | (2.0) | 0.0 | 7 | (2.2) | 0.0 | 15 | (1.7) | 0.0 | 11 | (1.4) | 0.0 | -19.4% |
| Sweden | 9 | (3.0) | 0.1 | 14 | (3.3) | 0.1 | 11 | (3.0) | 0.1 | 8 | (3.2) | 0.1 | 5 | (1.8) | 0.0 | -14.7% |
| United Kingdom ^b | 30 | (1.2) | 0.0 | 28 | (1.2) | 0.0 | 35 | (1.5) | 0.1 | 27 | (1.3) | 0.0 | 17 | (0.9) | 0.0 | -13.9% |
| Subtotal EU/EEA | 533 | (2.2) | 0.1 | 487 | (2.2) | 0.1 | 555 | (2.3) | 0.1 | 517 | (2.4) | 0.1 | 471 | (2.3) | 0.1 | -3.2% |
| Non-EU/EEA | | () | | | () | | | () | | | () | | | (, -) | | |
| Albania | 1 | (4.8) | 0.0 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 1 | (1.7) | 0.0 | 0.1% |
| Andorra | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | - |
| Armenia | 57 | (16.6) | 2.0 | 42 | (14.6) | 1.4 | 55 | (15.4) | 1.9 | 40 | (12.5) | 1.4 | 43 | (17.2) | 1.5 | -7.1% |
| Azerbaijan | 158 | (12.8) | 1.7 | 195 | (15.9) | 2.0 | 161 | (15.4) | 1.7 | 170 | (12.8) | 1.7 | 160 | (8.4) | 1.6 | -0.8% |
| Belarus | 667 | (34.1) | 7.1 | 678 | (35.8) | 7.2 | 654 | (37.1) | 6.9 | 629 | (37.2) | 6.7 | 559 | (36.6) | 5.9 | -4.4% |
| Bosnia and Herzegovina | 2 | (25.0) | 0.1 | 2 | (0.3) | 0.1 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | - |
| Georgia | 172 | (11.6) | 4.3 | 168 | (11.6) | 4.2 | 142 | (10.2) | 3.5 | 129 | (10.5) | 3.2 | 93 | (11.5) | 2.3 | -14.1% |
| Israel | 13 | (6.6) | 0.2 | 10 | (6.8) | 0.1 | 9 | (7.4) | 0.1 | 7 | (5.4) | 0.1 | 13 | (8.4) | 0.2 | -1.6% |
| Kazakhstan | 1 110 | (23.8) | 6.4 | 1 310 | (24.0) | 7.5 | 832 | (25.5) | 4.7 | 710 | (32.9) | 3.9 | 435 | (16.0) | 2.4 | -22.0% |
| Kyrgyzstan | 456 | | 7.8 | 426 | (25.0) | 7.1 | 398 | (21.9) | 6.6 | 392 | (22.4) | 6.3 | 523 | (30.4) | 8.3 | 1.5% |
| Moldova | 398 | (27.1) | 9.8 | 402 | (31.1) | 9.9 | 304 | (25.6) | 7.5 | 308 | (26.6) | 7.6 | 309 | (24.4) | 7.6 | -6.0% |
| Monaco | 0 | | 0.0 | - | - | - | - | - | - | _ | - | - | - | - | - | - |
| Montenegro | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | - |
| North Macedonia | 2 | (1.4) | 0.1 | 3 | (1.8) | 0.1 | 2 | (1.5) | 0.1 | 0 | (0.0) | 0.0 | 2 | (1.6) | 0.1 | -0.1% |
| Russia | 7 634 | (24.4) | 5.3 | 8 603 | (26.7) | 5.9 | 8 463 | (27.3) | 5.8 | 8 206 | (28.2) | 5.6 | 8 880 | (31.8) | 6.1 | 3.7% |
| San Marino | - | - | - | - | , | | 0 | / | 0.0 | 0 | , | 0.0 | 0 | | 0.0 | |
| Serbia | 10 | (1.7) | 0.1 | 4 | (1.0) | 0.0 | 3 | (0.8) | 0.0 | 1 | (0.3) | 0.0 | 2 | (0.7) | 0.0 | -32.9% |
| Serbia excluding Kosovo ^c | 9 | (1.7) | 0.1 | 2 | (0.9) | 0.0 | 3 | (0.8) | 0.0 | 1 | (0.3) | 0.0 | 2 | (0.7) | 0.0 | -31.0% |
| Kosovo ^c | 1 | (0.6) | 0.1 | 2 | (1.0) | 0.1 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | - 52.070 |
| Switzerland | 5 | (3.1) | 0.1 | 7 | (3.2) | 0.1 | 12 | (4.3) | 0.1 | 6 | (2.2) | 0.1 | 3 | (1.1) | 0.0 | -12.8% |
| Tajikistan | 158 | (8.1) | 1.9 | 484 | (24.2) | 5.7 | 495 | (20.8) | 5.7 | 413 | (83.3) | 4.7 | 296 | (72.7) | 3.3 | 14.2% |
| Turkey | 116 | (2.5) | 0.2 | 122 | (2.6) | 0.2 | 110 | (2.2) | 0.1 | 121 | (2.5) | 0.1 | 123 | (2.6) | 0.1 | -0.1% |
| | 32 | (10.3) | 0.2 | 122 | (2.0) | 0.2 | 110 | (2.2) | 0.1 | 121 | (2.3) | 0.1 | 125 | (2.0) | 0.1 | 0.170 |
| Turkmenistan | 52 | | | | | | 2 001 | (22.0) | 6.4 | 2 594 | (21.4) | 5.8 | 2 755 | (22.3) | 6.2 | 0.5% |
| Turkmenistan | 2 752 | (21.0) | 6.1 | | | | | | | | | | | | | 0.7% |
| Ukraine | 2 753 | (21.0) | 6.1 | 2 856 | (21.3) | 6.4 | 2 881 | | | | | | | | | |
| Ukraine Uzbekistan | 2 112 | (66.1) | 6.9 | 211 | (44.6) | 0.7 | 292 | (38.6) | 0.9 | 351 | (9.9) | 1.1 | 392 | (8.1) | 1.2 | -35.4% |
| Ukraine | | | | | | | | | | | | | | | | |

^{&#}x27;European Region' comprises the 53 countries of the WHO European Region and Liechtenstein.

WHO European Region 18 tuberculosis high-priority countries presented in italics.

The resistance pattern at the initiation of treatment is reported to TESSy irrespective of the method used for drug susceptibility testing or resistance prediction.

DST - Drug susceptibility testing.

HPC - High-priority country.

MDR - Multidrug-resistant.

*Bacteriologically-confirmed cases – cases with positive identification for Mycobacterium tuberculosis complex confirmed by culture and/or line probe assay for non-EU/EEA countries, culture-positive OR microscopy-positive and nucleic acid amplification test-positive cases for EU/EEA countries.

*Previous tuberculosis history is defined as previous diagnosis.

*Chis designation is without prejudice to positions on status, and is in line with UN Security Council Resolution 1244 and the International Court of Justice Opinion on the Kosovo Declaration of Independence.

Table VI. MDR tuberculosis notification among previously treated bacteriologically-confirmed^a pulmonary tuberculosis cases with available DST results, European Region, 2014-2018

| EU/EEA Austria Belgiumb Bulgaria Croatia Cyprus Czech Republic Denmarkb Estonia Finland France Germany Greece Hungary Iceland Irelandb Italy Latvia Liechtenstein Lithuania Luxembourg Malta Netherlands Norwayb Poland Portugal Romania Slovakia Slovenia Spain Sweden United Kingdomb Subtotal EU/EEA Non-EU/EEA Non-EU/EEA Non-EU/EEA Albania Andorra Armenia Azerbaijan | 7 2 19 2 2 0 19 1 30 21 0 0 16 32 0 138 - 0 0 1 1 4 18 5 400 2 2 0 0 9 9 2 2 6 6 | (36.8) (4.2) (19.2) (6.9) (0.0) (13.3) (20.0) (10.4) (15.1) (0.0) (20.0) (12.5) (22.5) (23.5) (4.3) (5.7) (7.7) (9.0) (12.5) (17.9) (17.9) (17.9) (17.9) | Rate per 100 000 0.1 0.0 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | N 2 2 2 19 0 0 0 2 1 1 18 0 0 - 29 5 2 0 0 14 26 0 0 134 - 0 0 2 2 0 13 7 401 1 1 | (16.7) (5.9) (20.7) (0.0) (8.0) (4.5) (51.4) (0.0) (18.5) (5.0) (0.0) (12.5) (29.9) (0.0) (46.5) (8.7) (0.0) (3.0) (8.2) (17.3) (6.3) | 0.0 0.0 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | 3 2 14 0 0 0 2 0 6 0 18 18 2 6 0 2 9 21 0 125 - | (17.6) (5.7) (17.3) (0.0) (0.0) (16.7) (0.0) (46.2) (12.8) (20.0) (16.2) (16.2) (23.3) (23.3) (43.0) (43.0) (4.0) (4.0) | Rate per 100000 0.0 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0 | 2 2 2 11 0 0 3 0 10 1 | (13.3) (5.1) (13.3) (0.0) (18.8) (0.0) (47.6) (33.3) (18.8) (5.9) (14.8) (0.0) (0.0) (14.7) (28.8) (51.5) | Rate per 100 000 0.0 0.0 0.2 0.0 0.0 0.0 0.0 0.0 0.0 | 3 1 144 1 1 0 0 0 88 0 166 233 0 0 10 - 0 0 0 82 - 0 0 0 0 0 0 0 | (21.4) (2.9) (19.4) (6.3) (0.0) (0.0) (100.0) (17.8) (0.0) (11.8) - (0.0) (14.9) - (0.0) (0.0) (0.0) | Rate per 100 000 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | -6.7% -15.2% -100.0% -19.5% -100.0% -14.8% 1.7% 19.2% -11.0% |
|---|---|--|---|--|---|--|---|--|---|---|--|---|--|--|---|---|
| Austria Belgiumb Belgiumb Bulgaria Croatia Cyprus Czech Republic Denmarkb Estonia Finland France Germany Greece Hungary Iceland Irelandb Italy Latvia Liechtenstein Lithuania Luxembourg Malta Netherlands Norwayb Poland Portugal Romania Slovakia Slovenia Spain Sweden United Kingdomb Subtotal EU/EEA Non-EU/EEA Albania Andorra Armenia Azerbaijan | 2 19 2 0 0 19 1 30 2 1 0 0 0 16 32 0 0 138 - 0 1 14 18 5 4 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | (4.2) (19.2) (6.9) (0.0) (13.3) (0.0) (10.4) (15.1) (0.0) (8.7) (0.0) (48.9) (10.5) (4.3) (5.7) (7.7) (0.0) (8.2) | 0.0 0.3 0.0 0.0 0.0 0.0 0.0 0.0 | 2 19 0 0 2 1 18 0 - 29 5 2 0 0 14 26 0 134 - 0 2 137 7 401 1 | (5.9) (20.7) (0.0) (8.0) (4.5) (18.1) (18.5) (5.0) (0.0) (12.5) (29.9) (0.0) (46.5) (8.7) (0.0) (3.0) (8.2) | 0.0 0.3 0.0 0.0 0.0 0.0 0.0 0.0 | 2 14 0 0 0 2 0 6 0 18 18 2 6 0 2 9 21 0 125 - | (5.7) (17.3) (0.0) (0.0) (16.7) (0.0) (46.2) (0.0) (6.8) (12.8) (20.0) (16.2) (16.7) (9.3) (23.3) (43.0) (30.8) (0.0) (4.0) | 0.0 0.2 0.0 0.0 0.0 0.5 0.0 0.0 0.0 0.0 | 2 11 0 0 3 0 10 1 1 - 22 1 4 0 0 0 11 17 0 0 13 18 19 19 19 19 19 19 19 19 19 19 19 19 19 | (5.1) (13.3) (0.0) (18.8) (0.0) (47.6) (33.3) (18.8) (5.9) (14.8) (0.0) (0.0) (14.7) (28.8) (51.5) | 0.0 0.2 0.0 0.0 0.0 0.0 0.0 0.0 | 1 14 1 0 0 0 0 88 0 0 16 23 0 0 0 10 0 0 82 2 - 0 0 0 0 | (2.9) (19.4) (6.3) (0.0) (0.0) (0.0) (44.4) (100.0) (17.8) (0.0) (11.8) (0.0) (14.9) (37.6) | 0.0 0.2 0.0 0.0 0.0 0.0 0.0 0.0 | -19.8% -16.3% -6.7% -15.2% -100.0% -19.5% -100.0% 1.7% 19.2% |
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| Finland France Germany Greece Hungary Iceland Irelandb Italy Latvia Liechtenstein Lithuania Luxembourg Malta Netherlands Norwayb Poland Portugal Romania Slovakia Slovakia Slovenia Spain Sweden United Kingdomb Subtotal EU/EEA Non-EU/EEA Albania Andorra Armenia Azerbaijan | 1 30 21 0 2 2 0 0 16 32 0 138 - 0 1 1 4 4 18 5 5 400 2 2 0 9 2 2 | (20.0) (10.4) (15.1) (0.0) (0.0) (0.0) (7.2) (29.9) (0.0) (12.5) (23.5) (4.3) (5.7) (7.7) (0.0) (8.2) | 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | 0 - 29 5 2 0 0 14 26 0 134 - 0 2 2 0 13 7 | (0.0) (18.1) (18.5) (5.0) (0.0) (12.5) (29.9) (0.0) (46.5) - (8.7) (0.0) (3.0) (8.2) (17.3) | 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.3 0.0 4.6 - 0.0 0.0 0.0 0.0 | 0 18 18 2 6 0 2 9 21 0 0 125 - 0 4 0 | (0.0) (6.8) (12.8) (20.0) (16.2) (16.7) (9.3) (23.3) (43.0) (43.0) (0.0) (4.0) | 0.0 0.0 0.0 0.1 0.0 0.0 0.0 1.1 0.0 4.3 - 0.0 0.0 | 1 - 22 1 4 0 0 0 11 17 0 138 - 0 1 | (33.3) (18.8) (5.9) (14.8) (0.0) (0.0) (14.7) (28.8) - (51.5) - (6.7) | 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.9 0.0 4.8 - | 0 16 23 0 4 0 0 10 - 0 82 - | (100.0) (17.8) (0.0) (11.8) - (0.0) (14.9) - (37.6) - (0.0) (0.0) | 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | -100.0% -14.8% 1.7% |
| France Germany Greece Hungary Iceland Irelandb Italy Latvia Liechtenstein Lithuania Luxembourg Malta Netherlands Norwayb Poland Portugal Romania Slovakia Slovenia Spain Sweden United Kingdomb Subtotal EU/EEA Non-EU/EEA Albania Andorra Armenia Azerbaijan | 30 21 0 2 0 0 16 32 0 138 - 0 1 1 4 18 5 400 2 0 | (10.4) (15.1) (0.0) (8.7) (0.0) (7.2) (29.9) (0.0) (48.9) - (0.0) (12.5) (23.5) (4.3) (5.7) (7.7) (0.0) (8.2) | 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | 29 5 2 0 0 14 26 0 134 - 0 2 0 13 7 401 | (18.1) (18.5) (5.0) (0.0) (12.5) (29.9) (0.0) (46.5) (8.7) (0.0) (3.0) (8.2) (17.3) | 0.0 0.0 0.0 0.0 0.0 0.0 1.3 0.0 4.6 - 0.0 0.0 0.0 | 18 18 2 6 0 2 9 21 0 125 - 0 4 0 | (6.8) (12.8) (20.0) (16.2) (16.7) (9.3) (23.3) (43.0) (43.0) (30.8) (0.0) (4.0) | 0.0 0.0 0.0 0.1 0.0 0.0 0.0 1.1 0.0 4.3 - 0.0 0.0 | 22 1 4 0 0 11 17 0 138 - | (18.8) (5.9) (14.8) (0.0) (0.0) (14.7) (28.8) - (51.5) - (6.7) | 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.9 0.0 4.8 | 16 23 0 4 0 0 10 - 0 82 - 0 | (17.8) (0.0) (11.8) (0.0) (14.9) - (37.6) - (0.0) (0.0) | 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | -14.8% 1.7% |
| Germany Greece Hungary Iceland Irelandb Italy Latvia Litechtenstein Lithuania Luxembourg Malta Netherlands Norwayb Poland Portugal Romania Slovakia Slovenia Spain Sweden United Kingdomb Subtotal EU/EEA Non-EU/EEA Albania Andorra Armenia Azerbaijan | 21 0 2 0 0 16 32 0 138 - 0 1 4 18 5 400 2 0 | (15.1) (0.0) (8.7) (0.0) (0.0) (7.2) (29.9) (0.0) (48.9) - (0.0) (12.5) (23.5) (4.3) (5.7) (7.7) (0.0) (8.2) | 0.0 0.0 0.0 0.0 0.0 0.0 1.6 6 0.0 4.7 - 0.0 0.1 0.0 0.1 0.0 0.0 0.0 0.0 | 29 5 2 0 0 14 26 0 134 - 0 2 0 13 7 401 | (18.5) (5.0) (0.0) (12.5) (29.9) (0.0) (46.5) - (8.7) (0.0) (3.0) (8.2) (17.3) | 0.0 0.0 0.0 0.0 0.0 1.3 0.0 4.6 - 0.0 0.0 0.0 0.0 | 18 2 6 0 2 9 21 0 125 - 0 4 | (12.8) (20.0) (16.2) (16.7) (9.3) (23.3) (43.0) (43.0) (30.8) (0.0) (4.0) | 0.0 0.0 0.1 0.0 0.0 0.0 1.1 0.0 4.3 - 0.0 0.0 | 1 4 0 0 11 17 0 138 - | (5.9) (14.8) (0.0) (0.0) (14.7) (28.8) - (51.5) - (6.7) | 0.0 0.0 0.0 0.0 0.0 0.9 0.0 4.8 - 0.0 | 23 0 4 0 0 10 - 0 82 - 0 | (17.8) (0.0) (11.8) (0.0) (14.9) - (37.6) - (0.0) (0.0) | 0.0 0.0 0.0 0.0 0.0 0.0 0.0 2.9 - 0.0 0.0 | 1.7% |
| Greece Hungary Iceland Irelandb Italy Latvia Litechtenstein Lithuania Luxembourg Malta Netherlands Norwayb Poland Portugal Romania Slovakia Slovenia Spain Sweden United Kingdomb Subtotal EU/EEA Non-EU/EEA Albania Andorra Armenia Azerbaijan | 0 2 0 0 16 32 0 138 - 0 1 1 4 18 5 400 2 0 | (0.0) (8.7) (0.0) (0.0) (7.2) (29.9) (0.0) (48.9) (0.0) (12.5) (23.5) (4.3) (5.7) (7.7) (0.0) (8.2) | 0.0 0.0 0.0 0.0 0.0 1.6 0.0 4.7 - 0.0 0.0 0.1 0.0 0.0 0.0 0.0 | 5 2 0 0 14 26 0 134 - 0 2 0 13 7 401 | (18.5) (5.0) (0.0) (12.5) (29.9) (0.0) (46.5) - (8.7) (0.0) (3.0) (8.2) (17.3) | 0.0 0.0 0.0 0.0 0.0 1.3 0.0 4.6 - 0.0 0.0 0.0 0.0 | 2 6 0 2 9 21 0 125 - 0 4 0 | (20.0) (16.2) (16.7) (9.3) (23.3) (43.0) (43.0) (30.8) (0.0) (4.0) | 0.0 0.1 0.0 0.0 0.0 1.1 0.0 4.3 - 0.0 0.0 | 1 4 0 0 11 17 0 138 - | (5.9) (14.8) (0.0) (0.0) (14.7) (28.8) - (51.5) - (6.7) | 0.0 0.0 0.0 0.0 0.0 0.9 0.0 4.8 - 0.0 | 0 4 0 0 10 - 0 82 - 0 | (0.0) (11.8) (0.0) (14.9) (37.6) (0.0) (0.0) | 0.0 0.0 0.0 0.0 0.0 - 0.0 2.9 - 0.0 0.0 | 19.2% - - -11.0% |
| Hungary Iceland Irelandb Italy Latvia Liechtenstein Lithuania Luxembourg Malta Netherlands Norwayb Poland Portugal Romania Slovakia Slovakia Spain Sweden United Kingdomb Subtotal EU/EEA | 2 0 0 16 32 0 138 - 0 1 4 18 5 400 2 0 | (8.7) (0.0) (0.0) (7.2) (29.9) (0.0) (48.9) - (0.0) (12.5) (23.5) (4.3) (5.7) (7.7) (0.0) (8.2) | 0.0 0.0 0.0 1.6 0.0 4.7 - 0.0 0.0 0.1 0.0 0.0 0.0 | 2 0 0 14 26 0 134 - 0 2 0 13 7 401 | (5.0) (0.0) (12.5) (29.9) (0.0) (46.5) - (8.7) (0.0) (3.0) (8.2) (17.3) | 0.0 0.0 0.0 1.3 0.0 4.6 - 0.0 0.0 0.0 0.0 | 6 0 2 9 21 0 125 - 0 4 0 | (16.2) (16.7) (9.3) (23.3) (43.0) (43.0) (30.8) (0.0) (4.0) | 0.1 0.0 0.0 0.0 1.1 0.0 4.3 - 0.0 0.0 | 4 0 0 11 17 0 138 - 0 | (14.8) (0.0) (0.0) (14.7) (28.8) - (51.5) - (6.7) | 0.0 0.0 0.0 0.0 0.9 0.0 4.8 - 0.0 | 4 0 0 10 - 0 82 - 0 | (11.8) (0.0) (14.9) - (37.6) - (0.0) (0.0) | 0.0 0.0 0.0 0.0 0.0 2.9 - 0.0 0.0 | - -11.2% - - |
| Iceland Irelandb Italy Latvia Liechtenstein Lithuania Luxembourg Malta Netherlands Norwayb Poland Portugal Romania Slovakia Slovakia Slovenia Spain Sweden United Kingdomb Subtotal EU/EEA Non-EU/EEA Albania Andorra Armenia Azerbaijan | 0 0 16 32 0 138 - 0 1 4 18 5 400 2 0 | (0.0) (0.0) (7.2) (29.9) (0.0) (48.9) - (0.0) (12.5) (23.5) (4.3) (5.7) (7.7) (0.0) (8.2) | 0.0 0.0 0.0 1.6 0.0 4.7 - 0.0 0.0 0.1 0.0 0.0 0.0 0.0 0.0 | 0 0 14 26 0 134 0 2 0 13 7 | (0.0) (12.5) (29.9) (0.0) (46.5) - (8.7) (0.0) (3.0) (8.2) (17.3) | 0.0 0.0 0.0 1.3 0.0 4.6 - 0.0 0.0 0.0 0.0 | 0 2 9 21 0 125 - 0 4 0 | (16.7) (9.3) (23.3) - (43.0) - (30.8) (0.0) (4.0) | 0.0 0.0 0.0 1.1 0.0 4.3 - 0.0 0.0 | 0 0 11 17 0 138 - 0 | (0.0) (0.0) (14.7) (28.8) - (51.5) - - (6.7) | 0.0 0.0 0.0 0.9 0.0 4.8 - 0.0 | 0 0 10 - 0 82 - 0 | (0.0) (14.9) - (37.6) - (0.0) (0.0) | 0.0 0.0 0.0 - 0.0 2.9 - 0.0 0.0 | -11.0% -11.2% -11.2% |
| Irelandb Italy Latvia Liechtenstein Lithuania Luxembourg Malta Netherlands Norwayb Poland Portugal Romania Slovakia Slovakia Slovakia Spain Sweden United Kingdomb Subtotal EU/EEA Non-EU/EEA Albania Andorra Armenia Azerbaijan | 0 16 32 0 138 - 0 1 4 18 5 400 2 0 | (0.0) (7.2) (29.9) (0.0) (48.9) - (0.0) (12.5) (23.5) (4.3) (5.7) (7.7) (0.0) (8.2) | 0.0 0.0 1.6 0.0 4.7 - 0.0 0.0 0.1 0.0 0.0 0.0 0.0 0.0 | 0 14 26 0 134 0 2 0 13 7 401 | (12.5) (29.9) (0.0) (46.5) - (8.7) (0.0) (3.0) (8.2) (17.3) | 0.0 0.0 1.3 0.0 4.6 - 0.0 0.0 0.0 | 2 9 21 0 125 - 0 4 0 | (9.3) (23.3) - (43.0) - - (30.8) (0.0) (4.0) | 0.0 0.0 1.1 0.0 4.3 - 0.0 0.0 | 0 11 17 0 138 - 0 | (0.0) (14.7) (28.8) - (51.5) - - (6.7) | 0.0 0.0 0.9 0.0 4.8 - 0.0 | 0 10 - 0 82 - 0 | (14.9) - (37.6) - (0.0) (0.0) | 0.0 0.0 - 0.0 2.9 - 0.0 0.0 | - -11.2% - - |
| Italy Latvia Liechtenstein Lithuania Luxembourg Malta Netherlands Norway ^b Poland Portugal Romania Slovakia Slovenia Spain Sweden United Kingdom ^b Subtotal EU/EEA Non-EU/EEA Albania Andorra Armenia Azerbaijan | 16 32 0 138 - 0 1 4 18 5 400 2 0 9 2 | (7.2) (29.9) (0.0) (48.9) - (0.0) (12.5) (23.5) (4.3) (5.7) (17.9) (7.7) (0.0) (8.2) | 0.0 1.6 0.0 4.7 - 0.0 0.0 0.1 0.0 0.0 0.0 0.0 0.0 | 14 26 0 134 - 0 2 0 13 7 401 | (12.5) (29.9) (0.0) (46.5) - (8.7) (0.0) (3.0) (8.2) (17.3) | 0.0 1.3 0.0 4.6 - 0.0 0.0 0.0 0.0 | 9 21 0 125 - 0 4 0 | (9.3) (23.3) - (43.0) - - (30.8) (0.0) (4.0) | 0.0 1.1 0.0 4.3 - 0.0 0.0 | 11 17 0 138 - 0 | (14.7) (28.8) - (51.5) - - (6.7) | 0.0 0.9 0.0 4.8 - 0.0 0.0 | 10 0 82 - 0 0 | (14.9) - (37.6) - (0.0) (0.0) | 0.0 0.0 2.9 - 0.0 0.0 | - -11.2% - - |
| Latvia Liechtenstein Lithuania Luxembourg Malta Netherlands Norway ^b Poland Portugal Romania Slovakia Slovenia Spain Sweden United Kingdom ^b Subtotal EU/EEA Non-EU/EEA Albania Andorra Armenia Azerbaijan | 32 0 138 - 0 1 4 18 5 400 2 0 9 | (29.9) (0.0) (48.9) - (0.0) (12.5) (23.5) (4.3) (5.7) (17.9) (7.7) (0.0) (8.2) | 1.6 0.0 4.7 - 0.0 0.0 0.1 0.0 0.0 2.0 0.0 | 26 0 134 - 0 2 0 13 7 401 | (29.9) (0.0) (46.5) - (8.7) (0.0) (3.0) (8.2) (17.3) | 1.3 0.0 4.6 - 0.0 0.0 0.0 0.0 | 21 0 125 - 0 4 0 | (23.3) - (43.0) - - (30.8) (0.0) (4.0) | 1.1 0.0 4.3 - 0.0 0.0 | 17 0 138 - 0 | (28.8) - (51.5) - - (6.7) | 0.9 0.0 4.8 - 0.0 0.0 | 0 82 - 0 | (37.6) - (0.0) (0.0) | 0.0 2.9 - 0.0 0.0 0.0 | - -11.2% - - |
| Liechtenstein Lithuania Luxembourg Malta Netherlands Norway ^b Poland Portugal Romania Slovakia Slovenia Spain Sweden United Kingdom ^b Subtotal EU/EEA Non-EU/EEA Albania Andorra Armenia Azerbaijan | 0 138 - 0 1 4 18 5 400 2 0 9 | (0.0) (48.9) - (0.0) (12.5) (23.5) (4.3) (5.7) (7.7) (0.0) (8.2) | 0.0 4.7 - 0.0 0.0 0.1 0.0 0.0 2.0 0.0 | 0 134 - 0 2 0 13 7 401 | (0.0) (46.5) - (8.7) (0.0) (3.0) (8.2) (17.3) | 0.0 4.6 - 0.0 0.0 0.0 0.0 0.0 | 0 125 - 0 4 0 | (43.0) - - (30.8) (0.0) (4.0) | 0.0 4.3 - 0.0 0.0 0.0 | 0 138 - 0 1 | (51.5) - - (6.7) | 0.0 4.8 - 0.0 0.0 | 82 - 0 0 | (37.6) - (0.0) (0.0) | 2.9 - 0.0 0.0 0.0 | - |
| Lithuania Luxembourg Malta Netherlands Norway ^b Poland Portugal Romania Slovakia Slovenia Spain Sweden United Kingdom ^b Subtotal EU/EEA Non-EU/EEA Albania Andorra Armenia Azerbaijan | 138 - 0 1 4 18 5 400 2 0 9 2 | (48.9) - (0.0) (12.5) (23.5) (4.3) (5.7) (17.9) (7.7) (0.0) (8.2) | 4.7 - 0.0 0.0 0.1 0.0 0.0 2.0 0.0 | 134 - 0 2 0 13 7 401 1 | (46.5) - (8.7) (0.0) (3.0) (8.2) (17.3) | 4.6 - 0.0 0.0 0.0 0.0 0.0 | 125 - 0 4 0 | (30.8) (0.0) (4.0) | 4.3 - 0.0 0.0 0.0 | 138 - 0 1 | - (6.7) | 4.8 - 0.0 0.0 | 82 - 0 0 | (37.6) - (0.0) (0.0) | 2.9 - 0.0 0.0 0.0 | - |
| Luxembourg Malta Netherlands Norwayb Poland Portugal Romania Slovakia Slovenia Spain Sweden United Kingdomb Subtotal EU/EEA Non-EU/EEA Albania Andorra Armenia Azerbaijan | - 0 1 4 18 5 400 2 0 9 | (0.0) (12.5) (23.5) (4.3) (5.7) (7.7) (0.0) (8.2) | 0.0 0.0 0.1 0.0 0.0 2.0 0.0 | - 0 2 0 13 7 401 | (8.7) (0.0) (3.0) (8.2) (17.3) | 0.0 0.0 0.0 0.0 0.0 | - 0 4 0 18 | (30.8) (0.0) (4.0) | 0.0 0.0 0.0 | - 0 1 | - (6.7) | 0.0 0.0 | - 0 0 | - (0.0) (0.0) | 0.0 0.0 0.0 | - |
| Malta Netherlands Norwayb Poland Portugal Romania Slovakia Slovenia Spain Sweden United Kingdomb Subtotal EU/EEA Non-EU/EEA Albania Andorra Armenia Azerbaijan | 0 1 4 18 5 400 2 0 9 | (12.5) (23.5) (4.3) (5.7) (17.9) (7.7) (0.0) (8.2) | 0.0 0.1 0.0 0.0 2.0 0.0 | 2 0 13 7 401 | (8.7) (0.0) (3.0) (8.2) (17.3) | 0.0 0.0 0.0 0.1 | 4 0 18 | (30.8) (0.0) (4.0) | 0.0 | 1 | (6.7) | 0.0 | 0 | (0.0) (0.0) | 0.0 | -100.0% |
| Netherlands Norwayb Poland Portugal Romania Slovakia Slovenia Spain Sweden United Kingdomb Subtotal EU/EEA Non-EU/EEA Albania Andorra Armenia Azerbaijan | 1 4 18 5 400 2 0 9 | (12.5) (23.5) (4.3) (5.7) (17.9) (7.7) (0.0) (8.2) | 0.0 0.1 0.0 0.0 2.0 0.0 | 2 0 13 7 401 | (8.7) (0.0) (3.0) (8.2) (17.3) | 0.0 0.0 0.0 0.1 | 4 0 18 | (30.8) (0.0) (4.0) | 0.0 | 1 | (6.7) | 0.0 | 0 | (0.0) (0.0) | 0.0 | -100.0% |
| Norway ^b Poland Portugal Romania Slovakia Slovenia Spain Sweden United Kingdom ^b Subtotal EU/EEA Non-EU/EEA Albania Andorra Armenia Azerbaijan | 4 18 5 400 2 0 9 | (23.5) (4.3) (5.7) (17.9) (7.7) (0.0) (8.2) | 0.1 0.0 0.0 2.0 0.0 | 0 13 7 401 1 | (0.0) (3.0) (8.2) (17.3) | 0.0 0.0 0.1 | 0 18 | (0.0) (4.0) | 0.0 | | | | | (0.0) | 0.0 | -100.0% |
| Poland Portugal Romania Slovakia Slovenia Spain Sweden United Kingdomb Subtotal EU/EEA Non-EU/EEA Albania Andorra Armenia Azerbaijan | 18 5 400 2 0 9 2 | (4.3) (5.7) (17.9) (7.7) (0.0) (8.2) | 0.0 0.0 2.0 0.0 0.0 | 13 7 401 1 | (3.0) (8.2) (17.3) | 0.0 | 18 | (4.0) | | - | (0 0) | | 0 | | | |
| Portugal Romania Slovakia Slovenia Spain Sweden United Kingdomb Subtotal EU/EEA Non-EU/EEA Albania Andorra Armenia Azerbaijan | 5 400 2 0 9 | (5.7) (17.9) (7.7) (0.0) (8.2) | 0.0 2.0 0.0 0.0 | 7 401 1 | (8.2) (17.3) | 0.1 | | | | 0 | (0.0) | 0.0 | | (2 1) | | -100.0% |
| Romania Slovakia Slovenia Spain Sweden United Kingdomb Subtotal EU/EEA Non-EU/EEA Albania Andorra Armenia Azerbaijan | 400 2 0 9 2 | (17.9) (7.7) (0.0) (8.2) | 2.0 0.0 0.0 | 401 1 | (17.3) | | 2 | (2.0) | 0.0 | 14 | (3.6) | 0.0 | 15 | (3.4) | 0.0 | -4.4% |
| Slovakia Slovenia Spain Sweden United Kingdomb Subtal EU/EEA Non-EU/EEA Albania Andorra Armenia Azerbaijan | 2 0 9 2 | (7.7) (0.0) (8.2) | 0.0 | 1 | | 2.0 | | (2.9) | 0.0 | 1 | (2.0) | 0.0 | 1 | (2.6) | 0.0 | -32.9% |
| Slovenia Spain Sweden United Kingdomb Subtotal EU/EEA Non-EU/EEA Albania Andorra Armenia Azerbaijan | 0 9 2 | (0.0) (8.2) | 0.0 | | (6.2) | 2.0 | 336 | (15.6) | 1.7 | 265 | (13.6) | 1.3 | 230 | (12.7) | 1.2 | -12.5% |
| Spain Sweden United Kingdomb Subtotal EU/EEA Non-EU/EEA Albania Andorra Armenia Azerbaijan | 9 | (8.2) | | | (0.3) | 0.0 | 1 | (5.6) | 0.0 | 1 | (3.8) | 0.0 | 2 | (13.3) | 0.0 | -0.1% |
| Sweden United Kingdomb Subtotal EU/EEA Non-EU/EEA Albania Andorra Armenia Azerbaijan | 2 | | | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | - |
| United Kingdom ^b Subtotal EU/EEA Non-EU/EEA Albania Andorra Armenia Azerbaijan | | (10 -) | 0.0 | 1 | (2.0) | 0.0 | 4 | (0.8) | 0.0 | 11 | (2.0) | 0.0 | 3 | (6.4) | 0.0 | -24.1% |
| Subtotal EU/EEA Non-EU/EEA Albania Andorra Armenia Azerbaijan | 6 | (10.5) | 0.0 | 2 | (11.8) | 0.0 | 3 | (15.8) | 0.0 | 1 | (4.8) | 0.0 | 2 | (18.2) | 0.0 | -1.2% |
| Non-EU/EEA Albania Andorra Armenia Azerbaijan | - | (3.5) | 0.0 | 5 | (3.2) | 0.0 | 8 | (5.0) | 0.0 | 4 | (3.0) | 0.0 | 7 | (4.7) | 0.0 | 3.2% |
| Albania Andorra Armenia Azerbaijan | 738 | (16.6) | 0.1 | 686 | (16.7) | 0.2 | 604 | (13.3) | 0.1 | 520 | (13.3) | 0.1 | 422 | (13.1) | 0.1 | -13.2% |
| Andorra Armenia Azerbaijan | | | | | | | | | | | | | | | | |
| Armenia Azerbaijan | 1 | (12.5) | 0.0 | 4 | (66.7) | 0.1 | 1 | (50.0) | 0.0 | 0 | (0.0) | 0.0 | 1 | (25.0) | 0.0 | 0.1% |
| Azerbaijan | 0 | (0.0) | 0.0 | 0 | - | 0.0 | 0 | - | 0.0 | 0 | - | - | - | - | - | - |
| | 43 | (86.0) | 1.5 | 47 | (87.0) | 1.6 | 60 | (57.7) | 2.0 | 41 | (38.0) | 1.4 | 33 | (40.2) | 1.1 | -6.7% |
| | 682 | (35.0) | 7.2 | 711 | (29.7) | 7.4 | 616 | (39.3) | 6.3 | 495 | (29.0) | 5.0 | 478 | (19.0) | 4.8 | -9.5% |
| D C (a) a b | 584 | (69.1) | 6.2 | 597 | (68.4) | 6.3 | 568 | (71.6) | 6.0 | 459 | (65.6) | 4.9 | 425 | (69.4) | 4.5 | -7.7% |
| Bosnia and | | | | | | | | | | | | | | | | 7.7 10 |
| Herzegovina | 1 | (50.0) | 0.0 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | - |
| Georgia | 197 | (39.2) | 4.9 | 186 | (38.8) | 4.6 | 154 | (38.0) | 3.8 | 133 | (35.5) | 3.3 | 74 | (33.3) | 1.8 | -21.6% |
| Israel | 2 | (50.0) | 0.0 | 1 | (16.7) | 0.0 | 0 | (0.0) | 0.0 | 1 | (50.0) | 0.0 | 0 | (0.0) | 0.0 | -100.0% |
| Kazakhstan | 1,152 | (39.9) | 6.7 | 1 411 | (40.0) | 8.0 | 399 | (20.5) | 2.2 | 953 | (46.7) | 5.3 | 1,027 | (38.2) | 5.6 | -4.2% |
| Kyrgyzstan | 194 | - | 3.3 | 450 | (56.3) | 7.6 | 466 | (56.3) | 7.7 | 435 | (50.2) | 7.0 | 718 | (70.0) | 11.4 | 36.1% |
| Moldova | 453 | (65.9) | 11.1 | 501 | (71.9) | 12.3 | 221 | (57.4) | 5.4 | 178 | (54.4) | 4.4 | 316 | (60.9) | 7.8 | -8.5% |
| Monaco | 0 | _ | - | - | _ | _ | - | - | - | - | _ | - | - | _ | - | - |
| Montenegro | 2 | (40.0) | 0.3 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 1 | (14.3) | 0.2 | 1 | (33.3) | 0.2 | -15.9% |
| North Macedonia | - | (0.0) | 0.0 | 1 | (6.7) | 0.0 | 0 | (0.0) | 0.0 | 1 | (5.3) | 0.0 | - | (0.0) | 0.0 | 3.7.0 |
| Russia | 7,951 | (57.1) | 5.5 | 8 529 | (59.1) | 5.9 | 17 508 | (65.2) | 12.1 | 14 611 | (58.9) | 10.0 | 15,155 | (62.9) | 10.4 | 17.3% |
| San Marino | - | - | | | - | | 0 | - | | 0 | - | | 0 | - | | -,,,, |
| Serbia | 4 | (7.5) | 0.0 | 1 | (2.8) | 0.0 | 5 | (12.5) | 0.1 | 4 | (13.3) | 0.0 | 3 | (1.0) | 0.0 | -6.7% |
| Serbia excluding | | | | | | | | | | | | | | | | 01, 10 |
| Kosovo ^c | - | - | - | - | - | - | 3 | (7.5) | 0.1 | 4 | (13.3) | 0.0 | 3 | (0.0) | 0.0 | |
| Kosovo ^c | - | - | - | - | - | _ | 2 | (6.3) | 0.1 | 0 | (0.0) | 0.0 | 0 | - | 0.0 | - |
| Switzerland | 4 | (14.3) | 0.0 | 4 | (21.1) | 0.0 | 1 | (7.1) | 0.0 | 2 | (22.2) | 0.0 | 1 | (6.7) | 0.0 | -30.0% |
| Tajikistan | 213 | (52.2) | 2.6 | 97 | (48.7) | 1.1 | 151 | (46.3) | 1.7 | 133 | (86.4) | 1.5 | 120 | (83.3) | 1.3 | -15.5% |
| Turkey | 130 | (21.1) | 0.2 | 102 | (17.9) | 0.1 | 80 | (13.7) | 0.1 | 61 | (11.2) | 0.1 | 44 | (10.0) | 0.1 | -24.9% |
| Turkmenistan | 32 | (72.7) | 0.6 | - | - | - | - | - | - | - | - | - | - | _ | - | - |
| | 3,562 | (41.5) | 7.9 | 3 169 | (41.5) | 7.1 | 2 875 | (40.8) | 6.4 | 2 414 | (37.1) | 5.4 | 2,299 | (37.0) | 5.2 | -9.9% |
| Uzbekistan | 720 | (79.8) | 2.4 | 185 | (56.2) | 0.6 | 311 | (25.3) | 1.0 | 189 | (12.5) | 0.6 | 424 | (21.1) | 1.3 | -13.8% |
| Subtotal non-EU/EEA | 15 927 | (50.5) | 4.0 | 15 996 | (49.8) | 4.0 | 23 416 | (55.5) | 5.9 | 20 111 | (50.6) | 5.0 | 21 119 | (52.0) | 5.2 | 7.0% |
| Total European | | | 1.8 | 16 682 | (46.1) | 1.8 | 24 020 | (51.4) | 2.6 | 20 631 | (47.3) | 2.4 | 21 541 | (49.1) | 2.3 | 6.4% |
| Region Subtotal 18 HPCs | 16 665 | (46.3) | 1.0 | 16 583 | (47.7) | 4.2 | 23 911 | (53.5) | 6.0 | 20 543 | (48.9) | 5.1 | 21 447 | (50.2) | 5.4 | 6.6% |

^{&#}x27;European Region' comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs presented in italics.

DST - drug-susceptibility testing.
HPCs - high-priority countries.
MDR-TB - multidrug-resistant tuberculosis.

Bacteriologically-confirmed cases - cases with positive identification for *M. tuberculosis* complex confirmed by culture and/or line probe assay for non-EU/EEA countries and areas, culture-positive OR microscopy-positive and nucleic acid amplification test-positive cases for EU/EEA countries.

Previous TB history is defined as previous diagnosis.

This designation is without prejudice to positions on status, and is in line with UN Security Council Resolution 1244 and the International Court of Justice Opinion on the Kosovo Declaration of Independence.

Table VII. MDR tuberculosis notification among all bacteriologically-confirmed tuberculosis cases with available DST results, EU/EEA, 2014-2018

| | | 2014 | | | 2015 | | | 2016 | | | 2017 | | | 2018 | | Mean |
|----------------|------|--------|-----------------------|-------|--------|-----------------------|-------|--------|-----------------------|-------|--------|-----------------------|-----|---------|------------------------|--|
| Country | N | % | Rate per 100000 | N | % | Rate per 100000 | N | % | Rate per 100000 | N | % | Rate per 100000 | N | % | Rate per 100 000 | annual % change in rate, 2014– 2018 |
| EU/EEA | | | | | | | | | | | | | | | | |
| Austria | 20 | (4.8) | 0.2 | 12 | (2.8) | 0.1 | 17 | (3.6) | 0.2 | 18 | (4.2) | 0.2 | 18 | (5.2) | 0.2 | -3.5% |
| Belgium | 11 | (1.6) | 0.1 | 15 | (2.0) | 0.1 | 10 | (1.3) | 0.1 | 5 | (0.7) | 0.0 | 7 | (1.0) | 0.1 | -11.1% |
| Bulgaria | 37 | (5.0) | 0.5 | 24 | (3.6) | 0.3 | 19 | (2.8) | 0.3 | 24 | (4.0) | 0.3 | 24 | (4.4) | 0.3 | -9.6% |
| Croatia | 2 | (0.5) | 0.0 | 1 | (0.3) | 0.0 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 2 | (0.7) | 0.0 | 0.8% |
| Cyprus | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 1 | (2.4) | 0.1 | 1 | (2.6) | 0.1 | 0 | (0.0) | 0.0 | |
| Czech Republic | 5 | (1.5) | 0.0 | 9 | (2.4) | 0.1 | 6 | (1.6) | 0.1 | 8 | (2.3) | 0.1 | 12 | (3.7) | 0.1 | 24.2% |
| Denmark | 2 | (0.7) | 0.0 | 6 | (2.2) | 0.1 | 4 | (1.6) | 0.1 | 2 | (0.9) | 0.0 | 4 | (1.8) | 0.1 | 18.1% |
| Estonia | 50 | (26.0) | 3.8 | 38 | (21.2) | 2.9 | 24 | (15.8) | 1.8 | 36 | (25.4) | 2.7 | 30 | (24.6) | 2.3 | -12.0% |
| Finland | 8 | (3.8) | 0.1 | 8 | (3.8) | 0.1 | 6 | (3.3) | 0.1 | 5 | (2.6) | 0.1 | 4 | (2.2) | 0.1 | -16.1% |
| France | 111 | (2.6) | 0.2 | 96 | (2.3) | 0.1 | 71 | (1.7) | 0.1 | 79 | (1.9) | 0.1 | 82 | (100.0) | 0.1 | -7.6% |
| Germany | 93 | (3.0) | 0.1 | 112 | (2.8) | 0.1 | 105 | (2.6) | 0.1 | 118 | (3.1) | 0.1 | 116 | (3.1) | 0.1 | 5.0% |
| Greece | 4 | (2.4) | 0.0 | 9 | (4.3) | 0.1 | 4 | (3.4) | 0.0 | 7 | (3.7) | 0.1 | 5 | (3.2) | 0.0 | 6.2% |
| Hungary | 3 | (1.0) | 0.0 | 8 | (2.1) | 0.1 | 18 | (5.3) | 0.2 | 11 | (3.5) | 0.1 | 12 | (3.6) | 0.1 | 41.8% |
| Iceland | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | - |
| Ireland | 2 | (0.9) | 0.0 | 1 | (0.5) | 0.0 | 6 | (2.6) | 0.1 | 5 | (2.5) | 0.1 | 5 | (2.4) | 0.1 | 24.5% |
| Italy | - | - | - | 70 | (2.7) | 0.1 | 70 | (2.6) | 0.1 | 66 | (2.5) | 0.1 | 53 | (2.1) | 0.1 | |
| Latvia | 70 | (11.9) | 3.5 | 63 | (11.1) | 3.2 | 56 | (10.4) | 2.8 | 46 | (10.6) | 2.4 | - | - | - | |
| Liechtenstein | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | |
| Lithuania | 271 | (21.5) | 9.2 | 241 | (19.7) | 8.2 | 244 | (20.3) | 8.4 | 249 | (21.7) | 8.7 | 170 | (17.1) | 6.1 | -10.0% |
| Luxembourg | 1 | (6.3) | 0.2 | 0 | (0.0) | 0.0 | 1 | (4.0) | 0.2 | 1 | (4.3) | 0.2 | 1 | (2.9) | 0.2 | -2.2% |
| Malta | 0 | (0.0) | 0.0 | 1 | (4.5) | 0.2 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | |
| Netherlands | 7 | (1.3) | 0.0 | 8 | (1.4) | 0.0 | 14 | (2.5) | 0.1 | 10 | (1.9) | 0.1 | 6 | (1.2) | 0.0 | -4.3% |
| Norway | 11 | (4.2) | 0.2 | 5 | (2.0) | 0.1 | 11 | (4.8) | 0.2 | 9 | (4.2) | 0.2 | 4 | (2.4) | 0.1 | -23.0% |
| Poland | 35 | (0.8) | 0.1 | 35 | (0.8) | 0.1 | 46 | (1.1) | 0.1 | 44 | (1.2) | 0.1 | 48 | (1.3) | 0.1 | 8.2% |
| Portugal | 25 | (2.0) | 0.2 | 23 | (1.8) | 0.2 | 15 | (1.3) | 0.1 | 10 | (1.4) | 0.1 | 10 | (0.9) | 0.1 | -20.2% |
| Romania | 532 | (6.4) | 2.7 | 538 | (6.0) | 2.7 | 470 | (5.5) | 2.4 | 372 | (4.5) | 1.9 | 354 | (4.4) | 1.8 | -9.2% |
| Slovakia | 3 | (1.9) | 0.1 | 2 | (1.3) | 0.0 | 3 | (2.7) | 0.1 | 6 | (4.5) | 0.1 | 2 | (1.4) | 0.0 | -9.8% |
| Slovenia | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 0 | (0.0) | 0.0 | 1 | (0.9) | 0.0 | 0 | (0.0) | 0.0 | - |
| Spain | - | - | - | 18 | (1.7) | 0.0 | 15 | (1.4) | 0.0 | 30 | (1.7) | 0.1 | 33 | (2.6) | 0.1 | - |
| Sweden | 15 | (2.9) | 0.2 | 22 | (3.2) | 0.2 | 22 | (3.7) | 0.2 | 11 | (2.6) | 0.1 | 13 | (3.2) | 0.1 | -4.7% |
| United Kingdom | 58 | (1.4) | 0.1 | 48 | (1.3) | 0.1 | 58 | (1.5) | 0.1 | 49 | (1.4) | 0.1 | 37 | (1.2) | 0.1 | -11.3% |
| Total EU/EEA | 1376 | (4.2) | 0.3 | 1,413 | (3.7) | 0.3 | 1 316 | (3.6) | 0.3 | 1 223 | (3.4) | 0.2 | 052 | (3.6) | 0.2 | -12.0% |

^{&#}x27;European Region' comprises the 53 countries of the WHO European Region and Liechtenstein.
WHO European Region 18 tuberculosis high-priority countries presented in italics.
The resistance pattern at the initiation of treatment is reported to TESSy irrespective of the method used for drug susceptibility testing or resistance prediction.
DST - Drug susceptibility testing.
MDR - Multidrug-resistant.
a Culture-positive OR microscopy-positive and nucleic acid amplification test-positive cases.

Table VIII. XDR tuberculosis notification among pulmonary MDR tuberculosis cases with second-line DST results, European Region, 2014-2018a

| | | 2014 | | | 2015 | | | 2016 | | | 2017 | | | 2018 | |
|---|---|--|---|--|----------------------------------|---|---|---|--|---|--|---|---|---|--|
| Country | MDR tuberculosis tested for SLD (N) | XDR tuberculosis (N) | Percent-age among tested for SLD | MDR tuberculosis tested for SLD (N) | XDR tuberculosis (N) | Percent- age among tested for SLD | MDR tuberculosis tested for SLD (N) | XDR tuberculosis (N) | Percent- age among tested for SLD | MDR tuberculosis tested for SLD (N) | XDR tuberculosis (N) | Percent-age among tested for SLD | MDR tuberculosis tested for SLD (N) | XDR tuberculosis (N) | Percent- age among tested for SLD |
| EU/EEA | | | | | | | | | | | | | | | |
| Austria | 18 | 2 | (11.1) | 9 | 1 | (11.1) | 15 | 2 | (13.3) | 16 | 3 | (18.8) | 15 | 0 | (0.0) |
| Belgium | 10 | 1 | (10.0) | 11 | 2 | (18.2) | 9 | 0 | (0.0) | 3 | 0 | (0.0) | 7 | 3 | (42.9) |
| Bulgaria | 36 | 3 | (8.3) | 21 | 4 | (19.0) | 19 | 0 | (0.0) | 23 | 1 | (4.3) | 24 | 0 | (0.0) |
| Croatia | 2 | 0 | (0.0) | 1 | 0 | (0.0) | 0 | - | - | 0 | - | - | 1 | 0 | (0.0) |
| Cyprus | 0 | - | - | 0 | - | - | 0 | - | - | 1 | 0 | (0.0) | 0 | - | - |
| Czech Republic | 5 | 0 | (0.0) | 6 | 1 | (16.7) | 5 | 0 | (0.0) | 6 | 2 | (33.3) | 10 | 0 | (0.0) |
| Denmark | 1 | 0 | (0.0) | 5 | 1 | (20.0) | 3 | 0 | (0.0) | 1 | 0 | (0.0) | 4 | 0 | (0.0) |
| Estonia | 48 | 8 | (16.7) | 35 | 8 | (22.9) | 23 | 7 | (30.4) | 34 | 9 | (26.5) | 30 | 8 | (26.7) |
| Finland | 6 | 1 | (16.7) | 8 | 1 | (12.5) | 3 | 1 | (33.3) | 5 | 1 | (20.0) | 4 | 1 | (25.0) |
| France | 70 | 30 | (42.9) | 76 | 8 | (10.5) | 69 | 6 | (0.0) | 79 | 10 | (12.7) | 61 | 8 | (13.1) |
| Germany | 59 | 11 | (18.6) | 71 | 9 | (12.7) | 66 | 7 | (10.6) | 74 | 5 | (6.8) | 75 | 8 | (10.7) |
| Greece | 2 | 1 | (50.0) | 0 | - | - | 0 | - | - | 6 | 1 | (16.7) | 5 | 1 | (20.0) |
| Hungary | 2 | 0 | (0.0) | 7 | 1 | (14.3) | 15 | 7 | (46.7) | 10 | 4 | (40.0) | 11 | 3 | (27.3) |
| Iceland | 0 | - | - () | 0 | - | - | 0 | - | - () | 0 | - | () | 0 | | () |
| Ireland | 2 | 0 | (0.0) | 0 | - | (10.1) | 5 | 0 | (0.0) | 5 | 1 | (20.0) | 4 | 0 | (0.0) |
| Italy | 64 | 9 | (14.1) | 31 | 6 | (19.4) | 43 | 5 | (11.6) | 45 | 5 | (11.1) | 37 | 4 | (10.8) |
| Latvia | 70 | 13 | (18.6) | 62 | 16 | (25.8) | 53 | 20 | (37.7) | 45 | 17 | (37.8) | - | - | - |
| Liechtenstein | 0 | - | (25.0) | 0 | - | (2/ /) | 0 | - | (2 (0) | 0 | - 07 | (25.4) | 0 | - | (2/4) |
| Lithuania | 232 | 60 | (25.9) | 238 | 58 | (24.4) | 242 | 58 | (24.0) | 248 | 87 | (35.1) | 170 | 58 | (34.1) |
| Luxembourg Malta | 0 | - | - | 0 | - | - | 0 | | - | 0 | - | - | 0 | - | |
| Netherlands | 0 | 0 | (0.0) | 0 | - | - | | 0 | (0.0) | | 0 | (0.0) | 3 | 1 | (33.3) |
| | 9 | 1 | (11.1) | 0 4 | 0 | (0.0) | 8 | 0 | (0.0) | 6 | 0 | (0.0) | 4 | 0 | (0.0) |
| Norway Poland | 25 | 5 | (20.0) | 23 | 4 | (17.4) | 38 | 8 | (21.1) | 35 | 5 | (14.3) | 41 | 12 | (29.3) |
| Portugal | 13 | 2 | (15.4) | 16 | 5 | (31.3) | 12 | 3 | (25.0) | 7 | 0 | (0.0) | 1 | 0 | (0.0) |
| Romania | 301 | 58 | (19.3) | 317 | 68 | (21.5) | 215 | 67 | (31.2) | 199 | 58 | (29.1) | 223 | 46 | (20.6) |
| Slovakia | 3 | 0 | (0.0) | 2 | 0 | (0.0) | 3 | 0 | (0.0) | 5 | 2 | (40.0) | 2 | 0 | (0.0) |
| Slovenia | 0 | - | (0.0) | 0 | - | (0.0) | 0 | - | (0.0) | 1 | 0 | (0.0) | 0 | - | (0.0) |
| Spain | 35 | 2 | (5.7) | 6 | 0 | (0.0) | 5 | 0 | (0.0) | 9 | 0 | (0.0) | 22 | 3 | (13.6) |
| Sweden | 11 | 1 | (9.1) | 16 | 1 | (6.3) | 14 | 4 | (28.6) | 9 | 0 | (0.0) | 7 | 0 | (0.0) |
| United Kingdom | 35 | 2 | (5.7) | 34 | 9 | (26.5) | 43 | 6 | (14.0) | 32 | 3 | (9.4) | 20 | 3 | (15.0) |
| Subtotal EU/EEA | 1064 | 210 | (19.7) | 999 | 203 | (20.3) | 916 | 201 | (21.9) | 910 | 214 | (23.5) | 781 | 159 | (20.4) |
| Non-EU/EEA | | | (1017) | | _,, | (=0.0) | | _,, | (=1177 | VIV | | (=515) | , , | 10.0 | (= 0.1) |
| Albania | - | | - | 0 | - | | - | - | | 0 | - | - | - | | - |
| Andorra | 0 | | - | 0 | | | 0 | | | 0 | - | | 0 | - | |
| Armenia | 100 | 8 | (8.0) | 89 | 8 | (9.0) | 53 | 6 | (11.3) | 81 | 13 | (16.0) | 76 | 14 | (18.4) |
| Azerbaijan | 840 | 100 | (11.9) | 670 | 125 | (18.7) | - | - | | - | - | - | 864 | 77 | (8.9) |
| Belarus | 1 251 | 366 | (29.3) | 1 275 | 453 | (35.5) | 1246 | 572 | (45.9) | 1 088 | 343 | (31.5) | 984 | 185 | (18.8) |
| Bosnia and Herzegovina | 3 | 0 | (0.0) | - | | | 0 | 0 | - | - | - | - | - | - | - |
| Georgia | 357 | 54 | (15.1) | 347 | 62 | (17.9) | 296 | 52 | (17.6) | 246 | 44 | (17.9) | 159 | 34 | (21.4) |
| Israel | 15 | 0 | (0.0) | 11 | 1 | (9.1) | 9 | 2 | (22.2) | 8 | 1 | (12.5) | 13 | 7 | (53.8) |
| Kazakhstan | | | | - | | - | - | | - | - | | - | - | | |
| 14 | - | | | 235 | 44 | (18.7) | 407 | 72 | (17.7) | 353 | 127 | (36.0) | 926 | 119 | (12.9) |
| Kyrgyzstan | 0 | 12 | | | | ,, | 407 | | | | | () | 111 | 74 | (12.0) |
| <i>Kyrgyzstan</i> Moldova | 0 277 | 12 11 | (4.0) | - | - | - | 514 | 42 | (8.2) | 475 | 30 | (6.3) | 616 | | |
| | | | (4.0) | - | - | - | | 42 | (8.2) | 475 | 30 | (6.3) | 616 | | - |
| Moldova Monaco Montenegro | 277 0 2 | 11 | (4.0) | - 0 | - | - | 514 - 0 | 42 | (8.2) | 1 | 1 | (6.3) | - 1 | 0 | (0.0) |
| Moldova Monaco Montenegro North Macedonia | 277 0 2 0 | 11 | - | 0 | | - | 514 - 0 0 | - | - | 1 0 | 1 | (100.0) | 1 0 | - | - |
| Moldova Monaco Montenegro <i>North Macedonia</i> <i>Russia</i> | 277 0 2 0 | 11 - 0 - | - | | | - - - - | 514 - 0 0 25 258 | 42 - - 3 402 | (8.2) - - - (13.5) | 1 0 20 477 | 1 | - | 1 0 23 997 | 0 - 4 970 | (0.0) - (20.7) |
| Moldova Monaco Montenegro <i>North Macedonia</i> <i>Russia</i> San Marino | 277 0 2 0 - | 11 - 0 - - | (0.0) | | - | - | 514 - 0 0 25 258 0 | - - 3 402 - | (13.5) | 1 0 | 1 | (100.0) | 1 0 23 997 0 | - | - |
| Moldova Monaco Montenegro North Macedonia Russia San Marino Serbia | 277 0 2 0 | 11 - 0 - - 0 | - | 0 - - | - | - | 514 - 0 0 25 258 | - | - | 1 0 20 477 | 1 | (100.0) | 1 0 23 997 | - | - |
| Moldova Monaco Montenegro North Macedonia Russia San Marino Serbia Serbia excluding Kosovo ^b | 277 0 2 0 - - 7 | 11 - 0 - - 0 | (0.0) | 0 | - | - | 514 - 0 0 25 258 0 | 3 402 - 1 | (13.5) - (7.1) | 1 0 20 477 0 - | 3 562 - - | (100.0) | 1 0 23 997 0 | - | - |
| Moldova Monaco Montenegro North Macedonia Russia San Marino Serbia Serbia excluding Kosovo ^b Kosovo ^b | 277 0 2 0 - - 7 | 11 - 0 - - 0 | (0.0) | 0 - | | - | 514 - 0 0 25 258 0 14 - | 3 402 - 1 | (13.5) - (7.1) | 1 0 20 477 0 - | 3 562 - - | (100.0) - (17.4) - - | 1 0 23 997 0 0 | 4 970 - - - - | - (20.7) - - - |
| Moldova Monaco Montenegro North Macedonia Russia San Marino Serbia Serbia excluding Kosovo ^b Kosovo ^b Switzerland | 277 0 2 0 - - 7 - 11 | 11 - 0 - - 0 - 1 | (0.0) | 0 11 | - - - 2 | (18.2) | 514 - 0 0 25 258 0 14 - - | 3 402 - 1 - | (13.5) - (7.1) - (0.0) | 1 0 20 477 0 - | 3 562 - - - | (100.0) | 1 0 23 997 0 0 - | - 4 970 1 | (20.7) - - - - (25.0) |
| Moldova Monaco Montenegro North Macedonia Russia San Marino Serbia Serbia excluding Kosovo ^b Kosovo ^b Switzerland Tajikistan | 277 0 2 0 - - 7 - - 11 371 | 11 - 0 - - 0 - 1 1 54 | (0.0) - (0.0) - (0.0) - (9.1) (14.6) | 0 - - - - - 11 561 | - - - 2 54 | - - - - - (18.2) | 514 - 0 0 25 258 0 14 - - 13 697 | 3 402 - 1 - 0 59 | (13.5) (7.1) (0.0) (8.5) | 1 0 20 477 0 - - - 508 | 1 - 3 562 - - - - - - - | (100.0) - (17.4) (54.9) | 1 0 23 997 0 0 - - 4 312 | 4 970 - - - - 1 52 | (20.7) - - - (25.0) (16.7) |
| Moldova Monaco Montenegro North Macedonia Russia San Marino Serbia Serbia excluding Kosovo ^b Kosovo ^b Switzerland Tajikistan Turkey | 277 0 2 0 - - 7 - 11 | 11 - 0 - - 0 - - 1 1 54 2 | (0.0) | 0 11 | - - - 2 | (18.2) | 514 - 0 0 25 258 0 14 - - | 3 402 - 1 - 0 59 9 | (13.5) - (7.1) - (0.0) (8.5) (6.9) | - 1 0 20 477 0 - - - 508 100 | 3 562 - - - 279 2 | (100.0) | 1 0 23 997 0 0 - | - 4 970 1 | (20.7) - - - (25.0) (16.7) |
| Moldova Monaco Montenegro North Macedonia Russia San Marino Serbia Serbia excluding Kosovob Kosovob Switzerland Tajikistan Turkey Turkmenistan | 277 0 2 0 - 7 - 11 371 169 | 11 - 0 - - 0 - - 1 54 2 | (0.0) - (0.0) - (0.0) - (9.1) (14.6) | 0 - - - - - 11 561 | - - - 2 54 3 | - - - - - (18.2) | 514 0 0 25 258 0 14 - 13 697 130 | 3 402 - 1 - 0 59 9 | (7.1) (0.0) (8.5) (6.9) | 1 0 20 477 0 - - 508 100 | 3 562 | (100.0) (17.4) (54.9) (2.0) | 1 0 23 997 0 0 4 312 120 | 4 970 - - - - 1 52 8 | (20.7) |
| Moldova Monaco Montenegro North Macedonia Russia San Marino Serbia excluding Kosovo ^b Kosovo ^b Switzerland Tajikistan Turkey Turkmenistan Ukraine | 277 0 2 0 - - - 7 - - 11 371 169 | 11 - 0 0 0 0 - 1 1 544 2 2 | (0.0) (0.0) (0.0) (9.1) (14.6) (1.2) | 0 - - - - - 11 561 | - - - 2 54 3 - | - - - - - (18.2) | 514 0 0 25 258 0 14 - 13 697 130 - 7 519 | 3 402 - 1 - 0 59 9 - | (7.1) (0.0) (8.5) (3.3) | 1 0 20 477 0 - - 508 100 - 5 008 | 3 562 - - - 279 2 - 1 001 | (100.0) (17.4) - - - - (54.9) (2.0) - (20.0) | 1 0 23 997 0 0 - 4 312 120 - 5 054 | 4 970 | (20.7) - - - (25.0) (16.7) (6.7) |
| Moldova Monaco Montenegro North Macedonia Russia San Marino Serbia Serbia excluding Kosovo ^b Kosovo ^b Switzerland Tajikistan Turkey Turkmenistan Ukraine Uzbekistan | 277 0 2 0 - - - 7 - - 11 371 169 - - 927 | 11 0 - 0 - 0 - 1 54 2 - 181 | (0.0) (0.0) (0.0) (9.1) (14.6) (1.2) | 0 - - - - 11 561 133 - | - - - 2 54 3 - | (18.2) | 514 0 0 25 258 0 14 13 697 130 7 519 1 986 | 3 402 - 1 - 0 59 9 - 247 184 | (13.5) (7.1) (0.0) (8.5) (6.9) (3.3) (9.3) | 5008 5008 5008 | 3 562 | (100.0) (17.4) (17.4) (54.9) (20.0) (20.0) (0.0) | 1 0 23 997 0 0 - 4 312 120 - 5 054 816 | 4970 1 52 8 972 | (20.7) - - (25.0) (16.7) - (19.2) (0.0) |
| Moldova Monaco Montenegro North Macedonia Russia San Marino Serbia excluding Kosovo ^b Kosovo ^b Switzerland Tajikistan Turkey Turkmenistan Ukraine | 277 0 2 0 - - - 7 - - 11 371 169 | 11 - 0 0 0 0 - 1 1 544 2 2 | (0.0) (0.0) (0.0) (9.1) (14.6) (1.2) | 0 - - - - - 11 561 | - - - 2 54 3 - | - - - - - (18.2) | 514 0 0 25 258 0 14 - 13 697 130 - 7 519 | 3 402 - 1 - 0 59 9 - | (7.1) (0.0) (8.5) (3.3) | 1 0 20 477 0 - - 508 100 - 5 008 | 3 562 - - - 279 2 - 1 001 | (100.0) (17.4) - - - - (54.9) (2.0) - (20.0) | 1 0 23 997 0 0 - 4 312 120 - 5 054 | 4 970 | - |

European Region' comprises the 53 countries of the WHO European Region and Liechtenstein.

WHO European Region 18 tuberculosis high-priority countries presented in italics.

HPC - High-priority country.

MDR TB - Multidrug-resistant tuberculosis.

SLD - Susceptibility to second-line anti-TB drugs.

XDR TB - Extensively drug-resistant tuberculosis.

*Includes only countries reporting second-line anti-tuberculosis drug susceptibility testing for at least one fluoroquinolone (ciprofloxacin, gatifloxacin, moxifloxacin, and ofloxacin) and one injectable drug (amikacin, capreomycin, and kanamycin).

*This designation is without prejudice to positions on status, and is in line with UN Security Council Resolution 1244 and the International Court of Justice Opinion on the Kosovo Declaration of Independence.

Table IX. Tuberculosis cases with HIV infection, European Region, 2014–2018^a

| | ر در | Cases with | 2014 | | | ν. | Casas mis | 2015 | | | ·so | Cananuit | 2016 | | |
|---|---|--|---|--|---|---|--|---|---|---|---|--|--|---|---|
| G | ulosis (N) | HIV sta | | HIV po | sitive | ulosi: (N) | Cases wit HIV st | | HIV po | sitive | ulosi: (N) | Cases wit HIV st | | HIV po | sitive |
| Country/area | All tuberculosis cases (N) | N | % | N | %⁵ | All tuberculosis cases (N) | N | % | N | %⁵ | All tuberculosis cases (N) | N | % | N | % ^b |
| EU/EEA | | | | | | | | | | | | | | | |
| Austria | - | - | - | - | - | - | - | - | - | - | - | - | | - | |
| Belgium | 949 | 494 | (52.1) | 38 | (7.7) | 977 | 432 | (44.2) | 31 | (7.2) | 1042 | 477 | (45.8) | 33 | (6.9) |
| Bulgaria | 1 872 | 1377 | (73.6) | 3 | (0.2) | 1 660 | 1 311 | (79.0) | 1 | (0.1) | 1 603 | 1260 | (78.6) | 0 | (0.0) |
| Croatia | . 0, 2 | | (, 5.0) | | (012) | | | - | | - | 464 | 4 | (0.9) | 0 | (0.0) |
| | 41 | 28 | (68.3) | 1 | (3.6) | 63 | 48 | (76.2) | 2 | (4.2) | 60 | 48 | (80.0) | 0 | (0.0) |
| Cyprus | | | | | | | | | | | | | | | |
| Czech Republic | 511 | 146 | (28.6) | 3 | (2.1) | 517 | 182 | (35.2) | 2 | (1.1) | 516 | 205 | (39.7) | 5 | (2.4) |
| Denmark | 320 | 6 | (1.9) | 5 | (83.3) | 357 | 9 | (2.5) | 8 | (88.9) | 330 | 150 | (45.5) | 9 | (6.0) |
| Estonia | 248 | 239 | (96.4) | 24 | (10.0) | 217 | 210 | (96.8) | 26 | (12.4) | 192 | 185 | (96.4) | 22 | (11.9) |
| Finland | - | - | - | - | - | - | - | - | - | - | - | - | | - | |
| France | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Germany | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Greece | 519 | 336 | (64.7) | 18 | (5.4) | 482 | 343 | (71.2) | 22 | (6.4) | 440 | 296 | (67.3) | 8 | (2.7) |
| Hungary | 851 | 30 | (3.5) | 2 | (6.7) | 906 | 20 | (2.2) | 1 | (5.0) | 786 | 19 | (2.4) | 1 | (5.3) |
| Iceland | 9 | 7 | (77.8) | 0 | (0.0) | 7 | 7 | (100.0) | 0 | (0.0) | 6 | 6 | (100.0) | 0 | (0.0) |
| Ireland | 311 | 119 | (38.3) | 17 | (14.3) | 283 | 136 | (48.1) | 8 | (5.9) | 315 | 139 | (44.1) | 4 | (2.9) |
| Italy | - | - 117 | (50.5) | - 17 | (17.5) | 200 | .50 | (4011) | - | (3.7) | - | - | (771) | 7 | (2.7) |
| • | 761 | 400 | (64.1) | 95 | (10 5) | 724 | 440 | (62.2) | 78 | (17.4) | 660 | 507 | (76.0) | 57 | (11 2) |
| Latvia | 761 | 488 | (64.1) | | (19.5) | 721 | 449 | (62.3) | /8 | (17.4) | 660 | 50/ | (76.8) | 5/ | (11.2) |
| Liechtenstein | | | (== -) | - | (= =) | - | | (7: -) | - | (= -) | | | (72.2) | - | /a -1 |
| Lithuania | 1 607 | 1 135 | (70.6) | 36 | (3.2) | 1 507 | 1 082 | (71.8) | 39 | (3.6) | 1 442 | 1 138 | (78.9) | 41 | (3.6) |
| Luxembourg | 24 | 13 | (54.2) | 1 | (7.7) | - | - | - | - | - | 29 | 5 | (17.2) | 2 | (40.0) |
| Malta | 46 | 35 | (76.1) | 6 | (17.1) | 32 | 26 | (81.3) | 4 | (15.4) | 50 | 46 | (92.0) | 8 | (17.4) |
| Netherlands | 814 | 495 | (60.8) | 22 | (4.4) | 862 | 637 | (73.9) | 36 | (5.7) | 887 | 646 | (72.8) | 20 | (3.1) |
| Norway | 323 | 260 | (80.5) | 17 | (6.5) | 313 | 260 | (83.1) | 8 | (3.1) | 295 | 255 | (86.4) | 10 | (3.9) |
| Poland | - | - | - | - | - | | - | - | | - | | - | - | - | |
| Portugal | 2 278 | 1 959 | (86.0) | 226 | (11.5) | 2 196 | 1985 | (90.4) | 232 | (11.7) | 1936 | 1 697 | (87.7) | 183 | (10.8) |
| Romania | 15 879 | 11 178 | (70.4) | 314 | (2.8) | 15 183 | 11 533 | (76.0) | 308 | (2.7) | 13 601 | 10 844 | (79.7) | 305 | (2.8) |
| Slovakia | 336 | 282 | (83.9) | 0 | (0.0) | 317 | 201 | (63.4) | 0 | (0.0) | 296 | 132 | (44.6) | 0 | (0.0) |
| | | | | | | | | | | | | | | | |
| Slovenia | 144 | 110 | (76.4) | 0 | (0.0) | 130 | 108 | (83.1) | 0 | (0.0) | 118 | 95 | (80.5) | 1 | (1.1) |
| Spain | 4 913 | 3 201 | (65.2) | 228 | (7.1) | 5 020 | 3 156 | (62.9) | 223 | (7.1) | 5 070 | 3 021 | (59.6) | 243 | (8.0) |
| Sweden | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| United Kingdom | 7 030 | 5 675 | (80.7) | 218 | (3.8) | 6 229 | 5 211 | (83.7) | 219 | (4.2) | 6 117 | 5 244 | (85.7) | 178 | (3.4) |
| Subtotal EU/EEA | 39 786 | 27 613 | (69.4) | 1 274 | (4.6) | 37 979 | 27 346 | (72.0) | 1 2 4 8 | (4.6) | 36 255 | 26 419 | (72.9) | 1 130 | (4.3) |
| Non-EU/EEA | | | | | | | | | | | | | | | |
| Albania | 408 | 41 | (10.0) | 2 | (4.9) | 415 | 183 | (44.1) | 6 | (3.3) | 415 | 223 | (53.7) | 6 | (2.7) |
| Andorra | 6 | 0 | (0.0) | 0 | - | 4 | 0 | (0.0) | 0 | - | 4 | 0 | (0.0) | | |
| Armenia | 1342 | 42/2 | (400.0) | | | | | | | | | U | (0.0) | 0 | |
| Azerbaijan | | 1 342 | (100.0) | 84 | (6.3) | 1 171 | 1090 | (93.1) | 99 | (9.1) | 1 027 | 1027 | (100.0) | 0 <i>57</i> | (5.6) |
| | | | | | | | | (93.1) | | | | 1027 | (100.0) | 57 | |
| , | 7 539 | 7 004 | (92.9) | 148 | (2.1) | 5 456 | 6964 | (93.1) (127.6) | 112 | (1.6) | 5 159 | 1027 4722 | (100.0) (91.5) | 57 99 | (2.1) |
| Belarus | 7 539 4 274 | 7 004 4 274 | (92.9) (100.0) | 148 271 | (2.1) (6.3) | 5 456 3 765 | 6964 3740 | (93.1) (127.6) (99.3) | 112 206 | (1.6) (5.5) | 5 159 3 211 | 1027 4722 3148 | (100.0) (91.5) (98.0) | 57 99 275 | (2.1) (8.7) |
| Belarus | 7 539 | 7 004 | (92.9) | 148 | (2.1) | 5 456 | 6964 | (93.1) (127.6) | 112 | (1.6) | 5 159 | 1027 4722 | (100.0) (91.5) | 57 99 | (2.1) |
| Belarus Bosnia and Herzegovina | 7 539 4 274 1 196 | 7 004 4 274 194 | (92.9) (100.0) (16.2) | 148 271 0 | (2.1) (6.3) (0.0) | 5 456 3 765 1 092 | 6964 3740 209 | (93.1) (127.6) (99.3) (19.1) | 112 206 0 | (1.6) (5.5) (0.0) | 5 159 3 211 907 | 1027 4722 3148 | (100.0) (91.5) (98.0) (0.1) | 57 99 275 | (2.1) (8.7) (100.0) |
| Belarus Bosnia and Herzegovina Georgia | 7 539 4 274 1 196 3 850 | 7 004 4 274 194 2 591 | (92.9) (100.0) (16.2) (67.3) | 148 271 0 57 | (2.1) (6.3) (0.0) (2.2) | 5 456 3 765 1 092 3 152 | 6964 3740 209 2809 | (93.1) (127.6) (99.3) (19.1) (89.1) | 112 206 0 79 | (1.6) (5.5) (0.0) (2.8) | 5 159 3 211 907 2 983 | 1027 4722 3148 1 2866 | (100.0) (91.5) (98.0) (0.1) (96.1) | 57 99 275 1 61 | (2.1) (8.7) (100.0) (2.1) |
| Belarus Bosnia and Herzegovina Georgia Israel | 7 539 4 274 1 196 3 850 361 | 7 004 4 274 194 2 591 367 | (92.9) (100.0) (16.2) (67.3) (101.7) | 148 271 0 57 25 | (2.1) (6.3) (0.0) (2.2) (6.8) | 5 456 3 765 1 092 3 152 280 | 6964 3740 209 2809 280 | (93.1) (127.6) (99.3) (19.1) (89.1) (100.0) | 112 206 0 79 14 | (1.6) (5.5) (0.0) (2.8) (5.0) | 5 159 3 211 907 2 983 250 | 1027 4722 3148 1 2866 250 | (100.0) (91.5) (98.0) (0.1) (96.1) (100.0) | 57 99 275 1 61 18 | (2.1) (8.7) (100.0) (2.1) (7.2) |
| Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan | 7 539 4 274 1 196 3 850 361 15 718 | 7 004 4 274 194 2 591 367 15 435 | (92.9) (100.0) (16.2) (67.3) (101.7) (98.2) | 148 271 0 57 25 625 | (2.1) (6.3) (0.0) (2.2) (6.8) (4.0) | 5 456 3 765 1 092 3 152 280 14 006 | 6964 3740 209 2809 280 13838 | (93.1) (127.6) (99.3) (19.1) (89.1) (100.0) (98.8) | 112 206 0 79 14 376 | (1.6) (5.5) (0.0) (2.8) (5.0) (2.7) | 5 159 3 211 907 2 983 250 12 322 | 1027 4722 3148 1 2866 250 10616 | (100.0) (91.5) (98.0) (0.1) (96.1) (100.0) (86.2) | 57 99 275 1 61 18 576 | (2.1) (8.7) (100.0) (2.1) (7.2) (5.4) |
| Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan | 7 539 4 274 1 196 3 850 361 15 718 7 423 | 7 004 4 274 194 2 591 367 15 435 7 052 | (92.9) (100.0) (16.2) (67.3) (101.7) (98.2) (95.0) | 148 271 0 57 25 625 221 | (2.1) (6.3) (0.0) (2.2) (6.8) (4.0) (3.1) | 5 456 3 765 1 092 3 152 280 14 006 7 027 | 6964 3740 209 2809 280 13838 6745 | (93.1) (127.6) (99.3) (19.1) (89.1) (100.0) (98.8) (96.0) | 112 206 0 79 14 376 206 | (1.6) (5.5) (0.0) (2.8) (5.0) (2.7) (3.1) | 5 159 3 211 907 2 983 250 12 322 7 026 | 1027 4722 3148 1 2866 250 10616 6254 | (100.0) (91.5) (98.0) (0.1) (96.1) (100.0) (86.2) (89.0) | 57 99 275 1 61 18 576 210 | (2.1) (8.7) (100.0) (2.1) (7.2) (5.4) (3.4) |
| Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Moldova | 7 539 4 274 1 196 3 850 361 15 718 7 423 4 636 | 7 004 4 274 194 2 591 367 15 435 | (92.9) (100.0) (16.2) (67.3) (101.7) (98.2) | 148 271 0 57 25 625 | (2.1) (6.3) (0.0) (2.2) (6.8) (4.0) | 5 456 3 765 1 092 3 152 280 14 006 | 6964 3740 209 2809 280 13838 | (93.1) (127.6) (99.3) (19.1) (89.1) (100.0) (98.8) | 112 206 0 79 14 376 | (1.6) (5.5) (0.0) (2.8) (5.0) (2.7) | 5 159 3 211 907 2 983 250 12 322 | 1027 4722 3148 1 2866 250 10616 | (100.0) (91.5) (98.0) (0.1) (96.1) (100.0) (86.2) | 57 99 275 1 61 18 576 | (2.1) (8.7) (100.0) (2.1) (7.2) (5.4) (3.4) |
| Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Moldova Monaco | 7 539 4 274 1 196 3 850 361 15 718 7 423 4 636 0 | 7 004 4 274 194 2 591 367 15 435 7 052 4 426 | (92.9) (100.0) (16.2) (67.3) (101.7) (98.2) (95.0) (95.5) | 148 271 0 57 25 625 221 338 | (2.1) (6.3) (0.0) (2.2) (6.8) (4.0) (3.1) (7.6) | 5 456 3 765 1 092 3 152 280 14 006 7 027 3 608 | 6964 3740 209 2809 280 13838 6745 3439 | (93.1) (127.6) (99.3) (19.1) (89.1) (100.0) (98.8) (96.0) (95.3) | 112 206 0 79 14 376 206 300 | (1.6) (5.5) (0.0) (2.8) (5.0) (2.7) (3.1) (8.7) | 5 159 3 211 907 2 983 250 12 322 7 026 3 571 | 1027 4722 3148 1 2866 250 10616 6254 3366 | (100.0) (91.5) (98.0) (0.1) (96.1) (100.0) (86.2) (89.0) (94.3) | 57 99 275 1 61 18 576 210 293 | (2.1) (8.7) (100.0) (2.1) (7.2) (5.4) (3.4) (8.7) |
| Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Moldova Monaco | 7 539 4 274 1 196 3 850 361 15 718 7 423 4 636 | 7 004 4 274 194 2 591 367 15 435 7 052 | (92.9) (100.0) (16.2) (67.3) (101.7) (98.2) (95.0) | 148 271 0 57 25 625 221 | (2.1) (6.3) (0.0) (2.2) (6.8) (4.0) (3.1) | 5 456 3 765 1 092 3 152 280 14 006 7 027 | 6964 3740 209 2809 280 13838 6745 | (93.1) (127.6) (99.3) (19.1) (89.1) (100.0) (98.8) (96.0) | 112 206 0 79 14 376 206 | (1.6) (5.5) (0.0) (2.8) (5.0) (2.7) (3.1) | 5 159 3 211 907 2 983 250 12 322 7 026 | 1027 4722 3148 1 2866 250 10616 6254 | (100.0) (91.5) (98.0) (0.1) (96.1) (100.0) (86.2) (89.0) | 57 99 275 1 61 18 576 210 | (2.1) (8.7) (100.0) (2.1) (7.2) (5.4) (3.4) (8.7) |
| Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Moldova Monaco Montenegro | 7 539 4 274 1 196 3 850 361 15 718 7 423 4 636 0 | 7 004 4 274 194 2 591 367 15 435 7 052 4 426 | (92.9) (100.0) (16.2) (67.3) (101.7) (98.2) (95.0) (95.5) | 148 271 0 57 25 625 221 338 | (2.1) (6.3) (0.0) (2.2) (6.8) (4.0) (3.1) (7.6) | 5 456 3 765 1 092 3 152 280 14 006 7 027 3 608 | 6964 3740 209 2809 280 13838 6745 3439 | (93.1) (127.6) (99.3) (19.1) (89.1) (100.0) (98.8) (96.0) (95.3) | 112 206 0 79 14 376 206 300 | (1.6) (5.5) (0.0) (2.8) (5.0) (2.7) (3.1) (8.7) | 5 159 3 211 907 2 983 250 12 322 7 026 3 571 | 1027 4722 3148 1 2866 250 10616 6254 3366 | (100.0) (91.5) (98.0) (0.1) (96.1) (100.0) (86.2) (89.0) (94.3) | 57 99 275 1 61 18 576 210 293 | (2.1) (8.7) (100.0) (2.1) (7.2) (5.4) (8.7) |
| Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Moldova Monaco Montenegro North Macedonia | 7 539 4 274 1 196 3 850 361 15 718 7 423 4 636 0 | 7 004 4 274 194 2 591 367 15 435 7 052 4 426 | (92.9) (100.0) (16.2) (67.3) (101.7) (98.2) (95.0) (95.5) | 148 271 0 57 25 625 221 338 | (2.1) (6.3) (0.0) (2.2) (6.8) (4.0) (3.1) (7.6) | 5 456 3 765 1 092 3 152 280 14 006 7 027 3 608 | 6964 3740 209 2809 280 13838 6745 3439 | (93.1) (127.6) (99.3) (19.1) (89.1) (100.0) (98.8) (96.0) (95.3) | 112 206 0 79 14 376 206 300 | (1.6) (5.5) (0.0) (2.8) (5.0) (2.7) (3.1) (8.7) | 5 159 3 211 907 2 983 250 12 322 7 026 3 571 - 87 | 1027 4722 3148 1 2866 250 10616 6254 3366 | (100.0) (91.5) (98.0) (0.1) (96.1) (100.0) (86.2) (89.0) (94.3) | 57 99 275 1 61 18 576 210 293 | (2.1) (8.7) (100.0) (2.1) (7.2) (5.4) (3.4) (8.7) (0.0) (0.0) |
| Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Moldova Monaco Montenegro North Macedonia | 7 539 4 274 1 196 3 850 361 15 718 7 423 4 636 0 113 285 | 7 004 4 274 194 2 591 367 15 435 7 052 4 426 | (92.9) (100.0) (16.2) (67.3) (101.7) (98.2) (95.0) (95.5) (83.2) (60.0) | 148 271 0 57 25 625 221 338 - 0 | (2.1) (6.3) (0.0) (2.2) (6.8) (4.0) (3.1) (7.6) (0.0) (0.6) | 5 456 3 765 1 092 3 152 280 14 006 7 027 3 608 - 80 282 | 6964 3740 209 2809 280 13838 6745 3439 - 73 | (93.1) (127.6) (99.3) (19.1) (89.1) (100.0) (98.8) (96.0) (95.3) (91.3) (65.6) | 112 206 0 79 14 376 206 300 - | (1.6) (5.5) (0.0) (2.8) (5.0) (2.7) (3.1) (8.7) - (1.4) (0.0) | 5 159 3 211 907 2 983 250 12 322 7 026 3 571 - 87 263 | 1027 4722 3148 1 2866 250 10616 6254 3366 - 60 207 | (100.0) (91.5) (98.0) (0.1) (96.1) (100.0) (86.2) (89.0) (94.3) - (69.0) (78.7) | 57 99 275 1 61 18 576 210 293 - 0 | (2.1) (8.7) (100.0) (2.1) (7.2) (5.4) (3.4) (8.7) (0.0) (0.0) |
| Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Moldova Monaco Montenegro North Macedonia Russia San Marino | 7 539 4 274 1 196 3 850 361 15 718 7 423 4 636 0 113 285 136 168 | 7 004 4 274 194 2 591 367 15 435 7 052 4 426 - 94 171 67 425 | (92.9) (100.0) (16.2) (67.3) (101.7) (98.2) (95.0) (95.5) - (83.2) (60.0) (49.5) | 148 271 0 57 25 625 221 338 0 1 5 251 | (2.1) (6.3) (0.0) (2.2) (6.8) (4.0) (3.1) (7.6) (0.0) (0.6) (7.8) | 5 456 3 765 1 092 3 152 280 14 006 7 027 3 608 - 80 282 99 590 | 6964 3740 209 2809 280 13838 6745 3439 - 73 185 | (93.1) (127.6) (99.3) (19.1) (89.1) (100.0) (98.8) (96.0) (95.3) - (91.3) (65.6) (65.9) | 112 206 0 79 14 376 206 300 - 1 0 6 407 | (1.6) (5.5) (0.0) (2.8) (5.0) (2.7) (3.1) (8.7) (1.4) (0.0) (9.8) | 5 159 3 211 907 2 983 250 12 322 7 026 3 571 - 87 263 92 407 | 1027 4722 3148 1 2866 250 10616 6254 3366 - 60 207 79935 0 | (100.0) (91.5) (98.0) (0.1) (96.1) (100.0) (86.2) (89.0) (94.3) - (69.0) (78.7) (86.5) | 57 99 275 1 61 18 576 210 293 - 0 0 16 570 | (2.1) (8.7) (100.0) (2.1) (7.2) (5.4) (8.7) (0.0) (0.0) (20.7) |
| Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Moldova Monaco Montenegro North Macedonia Russia San Marino Serbia | 7 539 4 274 1 196 3 850 361 15 718 7 423 4 636 0 113 285 136 168 | 7 004 4 274 194 2 591 367 15 435 7 052 4 426 - 94 171 67 425 - | (92.9) (100.0) (16.2) (67.3) (101.7) (98.2) (95.0) (95.5) - (83.2) (60.0) (49.5) | 148 271 0 57 25 625 221 338 - 0 1 5 251 | (2.1) (6.3) (0.0) (2.2) (6.8) (4.0) (3.1) (7.6) (0.0) (0.6) (7.8) | 5 456 3 765 1 092 3 152 280 14 006 7 027 3 608 80 282 99 590 - | 6964 3740 209 2809 280 13838 6745 - 73 185 65585 - | (93.1) (127.6) (99.3) (19.1) (89.1) (100.0) (98.8) (96.0) (95.3) - (91.3) (65.6) (65.9) - (5.5) | 112 206 0 79 14 376 206 300 - 1 0 6 407 - 4 | (1.6) (5.5) (0.0) (2.8) (5.0) (2.7) (3.1) (8.7) - (1.4) (0.0) | 5 159 3 211 907 2 983 250 12 322 7 026 3 571 - 87 263 92 407 - | 1027 4722 3148 1 2866 250 10616 6254 3366 - 60 207 79935 0 84 | (100.0) (91.5) (98.0) (0.1) (96.1) (100.0) (86.2) (89.0) (94.3) - (69.0) (78.7) (86.5) - | 57 99 275 1 61 18 576 210 293 - 0 0 16 570 - 5 | (2.1) (8.7) (100.0) (2.1) (7.2) (5.4) (8.7) (0.0) (0.0) (20.7) |
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| Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Moldova Monaco Montenegro North Macedonia Russia San Marino Serbia Serbia excluding Kosovo ^c | 7 539 4 274 1 196 3 850 361 15 718 7 423 4 636 0 113 285 136 168 | 7 004 4 274 194 2 591 367 15 435 7 052 4 426 - 94 171 67 425 - | (92.9) (100.0) (16.2) (67.3) (101.7) (98.2) (95.0) (95.5) - (83.2) (60.0) (49.5) | 148 271 0 57 25 625 221 338 - 0 1 5 251 | (2.1) (6.3) (0.0) (2.2) (6.8) (4.0) (3.1) (7.6) (0.0) (0.6) (7.8) | 5 456 3 765 1 092 3 152 280 14 006 7 027 3 608 80 282 99 590 - | 6964 3740 209 2809 280 13838 6745 - 73 185 65585 - | (93.1) (127.6) (99.3) (19.1) (89.1) (100.0) (98.8) (96.0) (95.3) - (91.3) (65.6) (65.9) - (5.5) | 112 206 0 79 14 376 206 300 - 1 0 6 407 - 4 | (1.6) (5.5) (0.0) (2.8) (5.0) (2.7) (3.1) (8.7) (1.4) (0.0) (9.8) | 5 159 3 211 907 2 983 250 12 322 7 026 3 571 - 87 263 92 407 - | 1027 4722 3148 1 2866 250 10616 6254 3366 - 60 207 79935 0 84 | (100.0) (91.5) (98.0) (0.1) (96.1) (100.0) (86.2) (89.0) (94.3) - (69.0) (78.7) (86.5) - | 57 99 275 1 61 18 576 210 293 - 0 0 16 570 - 5 | (2.1) (8.7) (100.0) (2.1) (7.2) (5.4) (8.7) (0.0) (0.0) (20.7) |
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| Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Moldova Monaco Montenegro North Macedonia Russia San Marino Serbia Serbia excluding Kosovo ^c Kosovo ^c Switzerland | 7 539 4 274 1 196 3 850 361 15 718 7 423 4 636 0 113 285 136 168 - 1 832 998 | 7 004 4 274 194 2 591 367 15 435 7 052 4 426 94 171 67 425 - 127 | (92.9) (100.0) (16.2) (67.3) (101.7) (98.2) (95.0) (95.5) - (83.2) (60.0) (49.5) - (6.9) (12.7) | 148 271 0 57 25 625 221 338 - 0 1 5251 - 8 8 | (2.1) (6.3) (0.0) (2.2) (6.8) (4.0) (3.1) (7.6) - (0.0) (0.6) (7.8) - (6.3) (6.3) | 5 456 3 765 1 092 3 152 280 14 006 7 027 3 608 80 282 99 590 - 1 649 879 | 6964 3740 209 2809 280 13838 6745 3439 - 73 185 65585 - 91 91 | (93.1) (127.6) (99.3) (19.1) (89.1) (100.0) (98.8) (96.0) (95.3) - (91.3) (65.6) (65.9) - (5.5) (10.4) | 112 206 0 79 14 376 206 300 - 1 0 6407 - 4 | (1.6) (5.5) (0.0) (2.8) (5.0) (2.7) (3.1) (8.7) - (1.4) (0.0) (9.8) - (6.3) | 5 159 3 211 907 2 983 250 12 322 7 026 3 571 87 263 92 407 1 472 755 | 1027 4722 3148 1 2866 250 10616 6254 3366 - 60 207 79935 0 84 84 | (100.0) (91.5) (98.0) (0.1) (96.1) (100.0) (86.2) (89.0) (94.3) - (69.0) (78.7) (86.5) - (5.7) (11.1) | 57 99 275 1 61 18 576 210 293 0 0 16 570 5 | (2.1) (8.7) (100.0) (2.1) (7.2) (5.4) (8.7) (0.0) (0.0) (20.7) (6.0) (6.0) |
| Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Moldova Monaco Montenegro North Macedonia Russia San Marino Serbia Serbia excluding Kosovo ^c Kosovo ^c Switzerland Tajikistan | 7 539 4 274 1 196 3 850 361 15 718 7 423 4 636 0 113 285 136 168 - 1 832 998 | 7 004 4 274 194 2 591 367 15 435 7 052 4 426 94 171 67 425 - 127 127 - 5 656 | (92.9) (100.0) (16.2) (67.3) (101.7) (98.2) (95.0) (95.5) (83.2) (60.0) (49.5) (6.9) (12.7) | 148 271 0 57 25 625 221 338 - 0 1 5 251 - 8 8 | (2.1) (6.3) (0.0) (2.2) (6.8) (4.0) (7.6) (0.0) (0.6) (7.8) (6.3) (6.3) | 5 456 3 765 1 092 3 152 280 14 006 7 027 3 608 80 282 99 590 - 1 649 879 | 6964 3740 209 2809 280 13838 6745 3439 - 73 185 65585 - 91 91 | (93.1) (127.6) (99.3) (19.1) (89.1) (100.0) (98.8) (96.0) (95.3) (91.3) (65.6) (65.9) (5.5) (10.4) | 112 206 0 79 14 376 206 300 - 1 0 6407 - 4 4 | (1.6) (5.5) (0.0) (2.8) (5.0) (2.7) (3.1) (8.7) (1.4) (0.0) (9.8) (6.3) | 5 159 3 211 907 2 983 250 12 322 7 026 3 571 - 87 263 92 407 - 1 472 755 - 5 965 | 1027 4722 3148 1 2866 250 10616 6254 3366 | (100.0) (91.5) (98.0) (0.1) (96.1) (100.0) (86.2) (89.0) (94.3) - (69.0) (78.7) (86.5) - (5.7) (11.1) | 57 99 275 1 61 18 576 210 293 0 0 0 16 570 5 5 | (2.1) (8.7) (100.0) (2.1) (7.2) (5.4) (8.7) (0.0) (0.0) (20.7) (6.0) (6.0) |
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| Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Moldova Monaco Montenegro North Macedonia Russia San Marino Serbia Serbia excluding Kosovo ^c Kosovo ^c Switzerland Tajikistan Turkey Turkmenistan Ukraine | 7 539 4 274 1 196 3 850 361 15 718 7 423 4 636 0 113 285 136 168 - 1 832 998 - 6 260 13 378 - | 7 004 4 274 194 2 591 367 15 435 7 052 4 426 - 94 171 67 425 - 127 127 - 5 656 9 344 - 39 057 | (92.9) (100.0) (16.2) (67.3) (101.7) (98.2) (95.0) (95.5) (83.2) (60.0) (49.5) (6.9) (12.7) (90.4) (69.8) | 148 271 0 57 25 625 221 338 - 0 1 5 251 - 8 8 8 - | (2.1) (6.3) (0.0) (2.2) (6.8) (4.0) (3.1) (7.6) (0.0) (0.6) (7.8) (6.3) (6.3) (2.8) (0.5) (19.6) | 5 456 3 765 1 092 3 152 280 14 006 7 027 3 608 80 282 99 590 1 649 879 - 5 894 12 550 | 6964 3740 209 2809 280 13838 6745 3439 - 73 185 65585 - 91 91 - - - - - | (93.1) (127.6) (99.3) (19.1) (89.1) (100.0) (98.8) (96.0) (95.3) - (91.3) (65.6) (65.9) - (5.5) (10.4) - (95.5) (69.8) - | 112 206 0 79 14 376 206 300 - 1 0 6 407 - 4 4 - - - - - - - - - - - - - - - - | (1.6) (5.5) (0.0) (2.8) (5.0) (2.7) (3.1) (8.7) (1.4) (0.0) (9.8) (6.3) (6.3) (2.7) (0.7) | 5 159 3 211 907 2 983 250 12 322 7 026 3 571 - 87 263 92 407 - 1 472 755 - 5 965 12 186 - 29 052 | 1027 4722 3148 1 2866 250 10616 6254 3366 - 60 207 79935 0 84 84 - - - 28 194 | (100.0) (91.5) (98.0) (0.1) (96.1) (100.0) (86.2) (89.0) (94.3) - (69.0) (78.7) (86.5) - (5.7) (11.1) | 57 99 275 1 61 18 576 210 293 - 0 0 16 570 5 5 5 - - | (2.1) (8.7) (100.0) (2.1) (7.2) (5.4) (8.7) (0.0) (20.7) (6.0) (6.0) (6.0) (3.4) (0.7) |
| Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Moldova Monaco Montenegro North Macedonia Russia San Marino Serbia Serbia excluding Kosovo ^c Kosovo ^c Switzerland Tajikistan Turkey | 7 539 4 274 1 196 3 850 361 15 718 7 423 4 636 0 113 285 136 168 - 1 832 998 - 6 260 13 378 | 7 004 4 274 194 2 591 367 15 435 7 052 4 426 - 94 171 67 425 - 127 127 - 5 656 9 344 | (92.9) (100.0) (16.2) (67.3) (101.7) (98.2) (95.0) (95.5) - (83.2) (60.0) (49.5) - (6.9) (12.7) - (90.4) (69.8) | 148 271 0 57 25 625 221 338 - 0 1 5 251 - 8 8 8 | (2.1) (6.3) (0.0) (2.2) (6.8) (4.0) (3.1) (7.6) (0.0) (0.6) (7.8) (6.3) (6.3) (2.8) (0.5) | 5 456 3 765 1 092 3 152 280 14 006 7 027 3 608 - 80 282 99 590 - 1 649 879 - 5 894 12 550 | 6964 3740 209 2809 280 13838 6745 3439 - 73 185 65585 - 91 91 - - | (93.1) (127.6) (99.3) (19.1) (89.1) (100.0) (98.8) (96.0) (95.3) - (91.3) (65.6) (65.9) - (5.5) (10.4) | 112 206 0 79 14 376 206 300 - 1 0 6 407 - 4 4 4 | (1.6) (5.5) (0.0) (2.8) (5.0) (2.7) (3.1) (8.7) - (1.4) (0.0) (9.8) - (6.3) - (2.7) (0.7) | 5 159 3 211 907 2 983 250 12 322 7 026 3 571 - 87 263 92 407 - 1 472 755 - 5 965 12 186 | 1027 4722 3148 1 2866 250 10616 6254 3366 - 60 207 79935 0 84 84 | (100.0) (91.5) (98.0) (0.1) (96.1) (100.0) (86.2) (89.0) (94.3) - (69.0) (78.7) (86.5) - (5.7) (11.1) | 57 99 275 1 61 18 576 210 293 - 0 0 16 570 - 5 5 - - | (2.1) (8.7) (100.0) (2.1) (7.2) (5.4) (8.7) (0.0) (0.0) (20.7) (6.0) (6.0) |
| Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Moldova Monaco Montenegro North Macedonia Russia San Marino Serbia Serbia excluding Kosovo ^c Kosovo ^c Switzerland Tajikistan Turkey Turkmenistan Ukraine Uzbekistan | 7 539 4 274 1 196 3 850 361 15 718 7 423 4 636 0 113 285 136 168 - 1 832 998 - 6 260 13 378 - 40 302 22 804 | 7 004 4 274 194 2 591 367 15 435 7 052 4 426 - 94 171 67 425 - 127 127 - 5 656 9 344 - 39 057 22 347 | (92.9) (100.0) (16.2) (67.3) (101.7) (98.2) (95.0) (95.5) - (83.2) (60.0) (49.5) - (6.9) (12.7) - (90.4) (69.8) - (96.9) (98.0) | 148 271 0 57 25 625 221 338 - 0 1 5251 - 8 8 - - - - - - - - - - - - - - - - | (2.1) (6.3) (0.0) (2.2) (6.8) (4.0) (3.1) (7.6) - (0.0) (0.6) (7.8) - (6.3) (6.3) (6.3) - (2.8) (0.5) - (19.6) (3.5) | 5 456 3 765 1 092 3 152 280 14 006 7 027 3 608 - 80 282 99 590 - 1 649 879 - 5 894 12 550 - 30 151 16 315 | 6964 3740 209 2809 280 13838 6745 3439 - 73 185 65585 - 91 - - - 5627 8759 29749 13058 162 | (93.1) (127.6) (99.3) (19.1) (89.1) (100.0) (98.8) (96.0) (95.3) - (91.3) (65.6) (65.9) - (5.5) (10.4) - (95.5) (69.8) - (98.7) (80.0) | 112 206 0 79 14 376 206 300 - 1 0 6 407 - 4 4 - - 152 59 - 6 637 841 | (1.6) (5.5) (0.0) (2.8) (5.0) (2.7) (3.1) (8.7) - (1.4) (0.0) (9.8) - (6.3) - (2.7) (0.7) - (22.3) (6.4) | 5 159 3 211 907 2 983 250 12 322 7 026 3 571 - 87 263 92 407 - 1 472 755 - 5 965 12 186 - 29 052 16 050 | 1027 4722 3148 1 2866 250 10616 6254 3366 - 60 207 79935 0 84 84 - - - - - - - - - - - - - - - - - | (100.0) (91.5) (98.0) (0.1) (96.1) (100.0) (86.2) (89.0) (94.3) - (69.0) (78.7) (86.5) - (5.7) (11.1) | 57 99 275 1 61 18 576 210 293 0 0 16 570 5 5 5 | (2.1) (8.7) (100.0) (2.1) (7.2) (5.4) (8.7) (0.0) (0.0) (20.7) (6.0) (6.0) (3.4) (0.7) (20.7) (4.7) |
| Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Moldova Monaco Montenegro North Macedonia Russia San Marino Serbia Serbia excluding Kosovo ^c Kosovo ^c Switzerland Tajikistan Turkey Turkmenistan Ukraine | 7 539 4 274 1 196 3 850 361 15 718 7 423 4 636 0 113 285 136 168 - 1 832 998 - 6 260 13 378 - | 7 004 4 274 194 2 591 367 15 435 7 052 4 426 - 94 171 67 425 - 127 127 - 5 656 9 344 - 39 057 | (92.9) (100.0) (16.2) (67.3) (101.7) (98.2) (95.0) (95.5) (83.2) (60.0) (49.5) (6.9) (12.7) (90.4) (69.8) | 148 271 0 57 25 625 221 338 - 0 1 5 251 - 8 8 8 - | (2.1) (6.3) (0.0) (2.2) (6.8) (4.0) (3.1) (7.6) (0.0) (0.6) (7.8) (6.3) (6.3) (2.8) (0.5) (19.6) | 5 456 3 765 1 092 3 152 280 14 006 7 027 3 608 80 282 99 590 1 649 879 - 5 894 12 550 | 6964 3740 209 2809 13838 6745 3439 - 73 185 65585 - 91 - - 5627 8759 - 22749 13058 162 424 | (93.1) (127.6) (99.3) (19.1) (89.1) (100.0) (98.8) (96.0) (95.3) - (91.3) (65.6) (65.9) - (5.5) (10.4) - (95.5) (69.8) - | 112 206 0 79 14 376 206 300 - 1 0 6 407 - 4 4 - - - - - - - - - - - - - - - - | (1.6) (5.5) (0.0) (2.8) (5.0) (2.7) (3.1) (8.7) (1.4) (0.0) (9.8) (6.3) (6.3) (2.7) (0.7) | 5 159 3 211 907 2 983 250 12 322 7 026 3 571 - 87 263 92 407 - 1 472 755 - 5 965 12 186 - 29 052 | 1027 4722 3148 1 2866 250 10616 6254 3366 - 60 207 79935 0 84 84 - - - 28 194 | (100.0) (91.5) (98.0) (0.1) (96.1) (100.0) (86.2) (89.0) (94.3) - (69.0) (78.7) (86.5) - (5.7) (11.1) | 57 99 275 1 61 18 576 210 293 - 0 0 16 570 5 5 5 - - | (2.1) (8.7) (100.0) (2.1) (7.2) (5.4) (8.7) (0.0) (20.7) (6.0) (6.0) (6.0) (3.4) (0.7) |

^{&#}x27;European Region' comprises the 53 countries of the WHO European Region and Liechtenstein.
WHO European Region 18 tuberculosis high-priority countries presented in italics.
HIV- Human immunodeficiency virus.
HPC - High-priority country.

* HIV prevalence may be underestimated due to incomplete HIV testing and/or reporting of HIV serostatus. Countries were only included in this analysis if the total number of cases tested for HIV and test results were provided.

* Proportion calculated from TB cases with known HIV test results.

* This designation is without prejudice to positions on status, and is in line with UN Security Council Resolution 1244 and the International Court of Justice Opinion on the Kosovo Declaration of Independence.
For non-EU countries new and relapsed data are for new and relapsed cases only for 2015 and after.

| 2017 | | | | | | | | | | |
|---------------------|--------------|------------------|------------|----------------|-------------------------------|----------------|-------------------|------------|----------------|--------------------------------------|
| | Cases with | | | | S | Cases wi | 2018 th known | | | |
| | stat | | HIV po | sitive | S (S | HIV s | | HIV po | sitive | |
| All TB cases (N) | N | % | N | % ^b | All tuberculosis cases (N) | N | % | N | % ^b | Country/area |
| | | | | | | | | | | EU/EEA |
| | - | | - | | | | | - | | Austria |
| 967 | 514 | (53.2) | 43 | (8.4) | 981 | 503 | (51.3) | 36 | | Belgium |
| 1 463 | 1204 | (82.3) | 3 | (0.2) | 1358 | 1 118 | (82.3) | 0 | (0.0) | Bulgaria |
| 378 | 3 | (0.8) | 0 | (0.0) | 372 | 2 | (0.5) | 0 | | Croatia |
| 53 | 49 | (92.5) | 0 | (0.0) | 52 | 41 | (78.8) | 1 | | Cyprus |
| 501 | 195 | (38.9) | 8 | (4.1) | 444 | 190 | (42.8) | 4 | | Czech Republic |
| 275 | 211 | (76.7) | 3 | (1.4) | 291 | 234 | (80.4) | 3 | | Denmark |
| 175 | 163 | (93.1) | 14 | (8.6) | 147 | 137 | (93.2) | 13 | | Estonia |
| .,,, | - | - | - | (0.0) | - " | .5, | - | - | ().5) | Finland |
| | - | | - | - | | - | - | - | | France |
| | - | | - | - | - | - | - | - | | Germany |
| 467 | 389 | (83.3) | 13 | (3.3) | 432 | 362 | (83.8) | 11 | (3.0) | Greece |
| 685 | 18 | (2.6) | 1 | (5.6) | 640 | 23 | (3.6) | 3 | | Hungary |
| 14 | 13 | (92.9) | 0 | (0.0) | 8 | 8 | (100.0) | 1 | | Iceland |
| 305 | 141 | (46.2) | 13 | (9.2) | 314 | 140 | (44.6) | 12 | | Ireland |
| | - | - | - | - | | - | - | - | - | Italy |
| 552 | 471 | (85.3) | 52 | (11.0) | | - | - | | | Latvia |
| - | - | - | - | , | | | - | - | | Liechtenstein |
| 1 387 | 1 125 | (81.1) | 42 | (3.7) | 1 142 | 954 | (83.5) | 32 | (3.4) | Lithuania |
| 32 | 3 | (9.4) | 1 | (33.3) | 42 | 7 | (16.7) | 0 | | Luxembourg |
| 42 | 37 | (88.1) | 0 | (0.0) | - | - | - | - | - | Malta |
| 783 | 599 | (76.5) | 23 | (3.8) | 806 | 534 | (66.3) | 21 | (3.9) | Netherlands |
| 261 | 228 | (87.4) | 7 | (3.1) | 209 | 184 | (88.0) | 7 | (3.8) | Norway |
| | - | - | - | - | - | - | - | - | - | Poland |
| 1800 | 1 183 | (65.7) | 135 | (11.4) | 2 137 | 2 011 | (94.1) | 193 | (9.6) | Portugal |
| 12 997 | 10 890 | (83.8) | 232 | (2.1) | 12 205 | 10 246 | (83.9) | 254 | (2.5) | Romania |
| 249 | 227 | (91.2) | 0 | (0.0) | 281 | 238 | (84.7) | 2 | (0.8) | Slovakia |
| 112 | 80 | (71.4) | 0 | (0.0) | 99 | 80 | (80.8) | 0 | (0.0) | Slovenia |
| 5 690 | 2 875 | (50.5) | 290 | (10.1) | 4 648 | 2 448 | (52.7) | 275 | (11.2) | Spain |
| - | - | - | - | - | - | - | - | - | - | Sweden |
| 5 537 | 4 817 | (87.0) | 150 | (3.1) | 5 075 | 4 323 | (85.2) | 123 | (2.8) | United Kingdom |
| 34 725 | 25 435 | (73.2) | 1 030 | (4.0) | 31 683 | 23 783 | (75.1) | 991 | (4.2) | Subtotal EU/EEA |
| | | | | | | | | | | Non-EU/EEA |
| 503 | 235 | (46.7) | 4 | (1.7) | 440 | 215 | (48.9) | 6 | (2.8) | Albania |
| 1 | 0 | (0.0) | 0 | - | 2 | 0 | (0.0) | - | - | Andorra |
| 841 | 838 | (99.6) | 66 | (7.9) | 734 | 699 | (95.2) | 72 | | Armenia |
| 5 231 | 5889 | (112.6) | 95 | (1.6) | 5 038 | 6 483 | (128.7) | 87 | (1.3) | Azerbaijan |
| 2 781 | 2781 | (100.0) | 202 | (7.3) | 2 359 | 2 359 | (100.0) | 182 | (7.7) | Belarus |
| 766 | 18 | (2.3) | 0 | (0.0) | | | - | | | Bosnia and Herzegovina |
| | | | | | 2.246 | 2.47/ | (02.0) | | (2.4) | |
| 2 597 | 2442 | (94.0) | 43 | (1.8) | 2 316 | 2 174 | (93.9) | 45 | | Georgia |
| 234 12 449 | 234 11056 | (100.0) | 12 443 | (5.1) (4.0) | 292 12 832 | 292 12 236 | (100.0) (95.4) | 12 717 | | Israel Kazakhstan |
| | | (88.8) | | | | | | | | |
| 6 687 3 358 | 5966 | (89.2) (99.8) | 216 277 | (3.6) | 6 338 3 022 | 6 338 2 893 | (100.0) | 187 248 | | <i>Kyrgyzstan</i> Moldova |
| 2 228 | 3352 | (77.8) | 2// | (0.3) | 5 022 | 2 693 | (95.7) | 248 | (6.0) | Monaco |
| 75 | 63 | (84.0) | 0 | (0.0) | 84 | 43 | (51.2) | 0 | (0.0) | Montenegro |
| 216 | 178 | (84.0) | 0 | (0.0) | 217 | 126 | (58.1) | 3 | | North Macedonia |
| 84 510 | 81443 | (96.4) | 15 695 | (19.3) | 78 258 | 74 075 | (94.7) | 14 797 | | Russia |
| 04 510 | 01445 | (30.4) | 1) 09) | (17.3) | 0 | 74 075 | (34.7) | 14 / 7/ | (20.0) | San Marino |
| 1 450 | 71 | (4.9) | 8 | (11.3) | 1330 | 56 | (4.2) | 8 | (1/, 3) | Serbia |
| 738 | 91 | (12.3) | 4 | (4.4) | 641 | 56 | (8.7) | 8 | | Serbia excluding Kosovo ^c |
| | | | 4 | (4.4) | 041 | 70 | (0.7) | O | (14.3) | _ |
| 712 | 0 | (0.0) | - | - | - | - | - | - | - | Kosovo ^c |
| | - | - | - | - | - | - | - | - | | Switzerland |
| 5 895 | 5937 | (100.7) | 219 | (3.7) | 5 726 | 5 545 | (96.8) | 227 | (4.1) | Tajikistan |
| 11 821 | 8423 | (71.3) | 65 | (0.8) | 11 576 | 8 234 | (71.1) | 67 | (0.8) | Turkey |
| - | - | - | - | | - | - | - | - | - | Turkmenistan |
| 27 229 | 26623 | (97.8) | 5 955 | (22.4) | 26 512 | 26 312 | (99.2) | 6 053 | | Ukraine |
| 16 842 | 16842 | (100.0) | 935 | (5.6) | 16 413 | 16 413 | (100.0) | 736 | (4.5) | Uzbekistan |
| 183 486 | 172 391 | (94.0) | 24 235 | (14.1) | 173 489 | 164 493 | (94.8) | 23 447 | (14.3) | Subtotal non-EU/EEA |
| 218 211 | 197 826 | (90.7) | 25 265 | (12.8) | 205 172 | 188 276 | (91.8) | 24 438 | (13.0) | Total European Region |
| 196 815 | 185 445 | (94.2) | 24 554 | (13.2) | 185 976 | 176 216 | (94.8) | 23 717 | (13.5) | Subtotal 18 HPCs |

Table X. Treatment success after 12 months for newa tuberculosis cases and relapses, European Region, 2013–2017b

| | 2013 | | 2014 | | 2015 | | | 2016 | | 2017 | | | | | |
|--------------------------------------|----------|---------|----------|----------|---------|----------|----------|---------|---------|----------|---------|---------|----------|---------|---------|
| Country/area | Cases | Succ | | Cases | Succ | | Cases | Succ | | Cases | Succ | | Cases | Succ | |
| | reported | N | (%) | reported | N | (%) | reported | N | (%) | reported | N | (%) | reported | N | (% |
| EU/EEA | (0.1 | | (== =) | | | (= , ,) | | | (== 1) | | | (== =) | | | (40.1 |
| Austria | 621 | 452 | (72.8) | 553 | 410 | (74.1) | 553 | 404 | (73.1) | 604 | 453 | (75.0) | 543 | 377 | (69.4 |
| Belgium | 876 | 690 | (78.8) | 867 | 700 | (80.7) | 905 | 719 | (79.4) | 973 | 793 | (81.5) | 905 | 718 | (79.3) |
| Bulgaria | 1 893 | 1 620 | (85.6) | 1789 | 1 530 | (85.5) | 1 598 | 1 350 | (84.5) | 1 510 | 1 291 | (85.5) | 1 386 | 1167 | (84.2) |
| Croatia | 510 | 224 | (43.9) | 496 | 354 | (71.4) | 484 | 275 | (56.8) | 452 | 264 | (58.4) | 372 | 245 | (65.9) |
| Cyprus | 40 | 20 | (50.0) | 39 | 23 | (59.0) | 63 | 35 | (55.6) | 56 | 37 | (66.1) | 51 | 34 | (66.7) |
| Czech Republic | 468 | 321 | (68.6) | 467 | 355 | (76.0) | 499 | 343 | (68.7) | 505 | 346 | (68.5) | 489 | 337 | (68.9) |
| Denmark ^c | 329 | 239 | (72.6) | 291 | 156 | (53.6) | 314 | 157 | (50.0) | 288 | 113 | (39.2) | 251 | 99 | (39.4) |
| Estonia | 222 | 193 | (86.9) | 194 | 162 | (83.5) | 172 | 143 | (83.1) | 165 | 132 | (80.0) | 138 | 111 | (80.4) |
| Finland | 265 | 140 | (52.8) | 249 | 115 | (46.2) | 259 | 100 | (38.6) | 216 | 69 | (31.9) | 237 | 85 | (35.9) |
| France | | | - ((= -) | - | - | ((0.0) | | - | ((= -) | - (| - | ((0 =) | - | - | (= , ,) |
| Germany Greece | 4 003 | 2 681 | (67.0) | 4 264 | 2 707 | (63.5) | 5 525 | 3 590 | (65.0) | 5 635 | 3 926 | (69.7) | 5 233 | 3 721 | (71.1) |
| Hungary | 1029 | 759 | (73.8) | 795 | 577 | (72.6) | 851 | 600 | (70.5) | 722 | 511 | (70.8) | 639 | 429 | (67.1) |
| Iceland | 11 | 10 | (90.9) | 9 | 8 | (88.9) | 7 | 7 | (100.0) | 6 | 5 | (83.3) | 13 | 12 | (92.3) |
| Ireland ^c | 346 | 213 | (61.6) | 288 | 162 | (56.3) | 265 | 191 | (72.1) | 285 | 168 | (58.9) | 282 | 100 | (35.5) |
| Italy | - | | - | - | - | - | - | - | - | - | - | - | - | - | |
| Latvia | 804 | 669 | (83.2) | 675 | 561 | (83.1) | 642 | 540 | (84.1) | 592 | 505 | (85.3) | - | - | |
| Liechtenstein | - | | - | - | - | - | 1 | 0 | (0.0) | 2 | 2 | (100.0) | 1 | 1 | (100.0) |
| Lithuania | 1 374 | 1 111 | (80.9) | 1 282 | 1 033 | (80.6) | 1 219 | 975 | (80.0) | 1 152 | 958 | (83.2) | 1 086 | 900 | (82.9) |
| Luxembourg | 38 | 0 | (0.0) | - | - | - | - | - | - | - | | - | 31 | 0 | (0.0) |
| Malta | 48 | 36 | (75.0) | - | - | - | | - | - | | - | | - | - | |
| Netherlands | 814 | 728 | (89.4) | 797 | 708 | (88.8) | 838 | 732 | (87.4) | 864 | 758 | (87.7) | 762 | 660 | (86.6) |
| Norway ^c | 348 | 316 | (90.8) | 292 | 251 | (86.0) | 277 | 244 | (88.1) | 262 | 226 | (86.3) | 228 | 207 | (90.8) |
| Poland | 7 005 | 4 161 | (59.4) | 6 500 | 3 783 | (58.2) | 6 196 | 3 293 | (53.1) | 6 099 | 3 300 | (54.1) | - | - | |
| Portugal | 2 341 | 1748 | (74.7) | 2 197 | 1592 | (72.5) | 2 131 | 1557 | (73.1) | 1872 | 1 316 | (70.3) | 1 751 | 659 | (37.6) |
| Romania | 15 115 | 12 814 | (84.8) | 14 525 | 12 304 | (84.7) | 13 908 | 11 834 | (85.1) | 12 458 | 10 723 | (86.1) | 12 007 | 10 348 | (86.2) |
| Slovakia | 395 | 370 | (93.7) | 318 | 280 | (88.1) | 305 | 263 | (86.2) | 279 | 241 | (86.4) | 222 | 204 | (91.9) |
| Slovenia | 139 | 107 | (77.0) | 142 | 110 | (77.5) | 129 | 105 | (81.4) | 118 | 84 | (71.2) | 111 | 85 | (76.6) |
| Spain | - | - | - | - | | - | 4 798 | 3 454 | (72.0) | 3 964 | 2 6 6 9 | (67.3) | 4 527 | 2 7 3 9 | (60.5) |
| Sweden | 595 | 537 | (90.3) | 610 | 535 | (87.7) | 754 | 659 | (87.4) | 669 | 607 | (90.7) | 477 | 413 | (86.6) |
| United Kingdom ^c | 7 272 | 6 022 | (82.8) | 6 516 | 5 346 | (82.0) | 5 797 | 4 663 | (80.4) | 5 674 | 4 635 | (81.7) | 5 176 | 4 216 | (81.5) |
| Subtotal EU/EEA | 46 901 | 36 181 | (77.1) | 44 155 | 33 762 | (76.5) | 48 490 | 36 233 | (74.7) | 45 422 | 34 132 | (75.1) | 36 918 | 27 867 | (75.5) |
| Non-EU/EEA | | | | | | | | | | | | | | | |
| Albania | 472 | 416 | (88.1) | 406 | 358 | (88.2) | 409 | 354 | (86.6) | 409 | 357 | (87.3) | 499 | 435 | (87.2) |
| Andorra | 5 | 3 | (60.0) | 6 | 5 | (83.3) | 4 | 4 | (100.0) | 4 | 3 | (75.0) | 1 | 1 | (100.0) |
| Armenia | 1 251 | 1 0 0 8 | (80.6) | 1 228 | 959 | (78.1) | 910 | 721 | (79.2) | 869 | 703 | (80.9) | 710 | 563 | (79.3) |
| Azerbaijan | 4 294 | 3 504 | (81.6) | 1 623 | 1 349 | (83.1) | 1 475 | 1 221 | (82.8) | 1 464 | 1 225 | (83.7) | 1777 | 1 492 | (84.0) |
| Belarus | 3 034 | 2 626 | (86.6) | 2 706 | 2 381 | (88.0) | 2 525 | 2 243 | (88.8) | 2 123 | 1 894 | (89.2) | 1 792 | 1 587 | (88.6) |
| Bosnia and Herzegovina | 1 261 | 1040 | (82.5) | 1196 | 923 | (77.2) | 1092 | 707 | (64.7) | 907 | 505 | (55.7) | 766 | 343 | (44.8) |
| Georgia | 3 098 | 2 465 | (79.6) | 2 862 | 2 377 | (83.1) | 2 841 | 2 386 | (84.0) | 2 715 | 2 263 | (83.4) | 2 351 | 1 977 | (84.1) |
| Israel | 305 | 257 | (84.3) | 322 | 285 | (88.5) | 263 | 218 | (82.9) | 250 | 198 | (79.2) | 225 | 196 | (87.1) |
| Kazakhstan | 14 456 | 12 841 | (88.8) | 12 473 | 11 186 | (89.7) | 14 006 | 12 691 | (90.6) | 6 775 | 5 962 | (88.0) | 8 589 | 7 826 | (91.1) |
| Kyrgyzstan | 5 658 | 4 797 | (84.8) | 5 731 | 4 837 | (84.4) | 6 139 | 5 063 | (82.5) | 6 072 | 4 968 | (81.8) | 5 752 | 4 728 | (82.2) |
| Moldova | 3 889 | 3 095 | (79.6) | 3 459 | 2 7 2 4 | (78.8) | 2 992 | 2 379 | (79.5) | 3 048 | 2 515 | (82.5) | 2 715 | 2 187 | (80.6) |
| Monaco | 3 | 3 | (100.0) | - | - | - | - | - | - | - | - | - | - | - | |
| Montenegro | 119 | 104 | (87.4) | 113 | 101 | (89.4) | 80 | 74 | (92.5) | 87 | 70 | (80.5) | 75 | 65 | (86.7) |
| North Macedonia | 317 | 287 | (90.5) | 281 | 244 | (86.8) | 282 | 243 | (86.2) | 263 | 232 | (88.2) | 219 | 193 | (88.1) |
| Russia | 83 301 | 56 980 | (68.4) | 77 136 | 53 266 | (69.1) | 80 424 | 57 060 | (70.9) | 73 137 | 52 335 | (71.6) | 67 593 | 46 938 | (69.4) |
| San Marino | - | - | | - | | - | 0 | - | - | 0 | - | | 0 | | |
| Serbia | 1 427 | 1 118 | (78.3) | 1 281 | 1042 | (81.3) | 1647 | 1 471 | (89.3) | 1 4 4 3 | 1191 | (82.5) | 1440 | 1 239 | (86.0) |
| Serbia excluding Kosovo ^d | 1184 | 928 | (78.4) | 1 0 4 5 | 828 | (79.2) | 882 | 733 | (83.1) | 733 | 590 | (80.5) | 738 | 616 | (83.5) |
| Kosovo ^d | 243 | 190 | (78.2) | 236 | 214 | (90.7) | 765 | 738 | (96.5) | 710 | 601 | (84.6) | 702 | 623 | (88.7) |
| Switzerland | - | - | - | - | - | - | - | - | - | 565 | 384 | (68.0) | 518 | 406 | (78.4) |
| Tajikistan | 5 2 6 3 | 4 619 | (87.8) | 5 149 | 4 606 | (89.5) | 5 298 | 4734 | (89.4) | 5 324 | 4 751 | (89.2) | 5 259 | 4 789 | (91.1) |
| Turkey | 13 170 | 11 373 | (86.4) | 12 933 | 11 245 | (86.9) | 12 362 | 10 735 | (86.8) | 12 017 | 10 462 | (87.1) | 11 638 | 10 014 | (86.0) |
| Turkmenistan | 3 046 | 2 199 | (72.2) | 2 122 | 1797 | (84.7) | 1 6 6 9 | 1 451 | (86.9) | 2 068 | 1738 | (84.0) | 1968 | 1 676 | (85.2) |
| Ukraine | 29 726 | 20 959 | (70.5) | 22 294 | 16 109 | (72.3) | 23 892 | 17 939 | (75.1) | 22 615 | 17 234 | (76.2) | 21 165 | 16 189 | (76.5) |
| Uzbekistan | 17 373 | 14 457 | (83.2) | 16 328 | 14 215 | (87.1) | 15 220 | 13 536 | (88.9) | 14 743 | 12 906 | (87.5) | 15 167 | 13 554 | (89.4) |
| Subtotal non-EU/EEA | 191 468 | 144 151 | (75.3) | 169 649 | 130 009 | (76.6) | 173 530 | 135 230 | (77.9) | 156 898 | 121 896 | (77.7) | 150 219 | 116 398 | (77.5) |
| Total European Region | 238 369 | 180 332 | (75.7) | 213 804 | 163 771 | (76.6) | 222 020 | 171 463 | (77.2) | 202 320 | 156 028 | (77.1) | 187 137 | 144 265 | (77.1) |
| | | | | 184 509 | | (77.3) | 187 292 | | | | | | | | (78.2) |

^{&#}x27;European Region' comprises the 53 countries of the WHO European Region and Liechtenstein.

WHO European Region 18 tuberculosis high-priority countries presented in italics.

EU/EEA: Country data are shown as missing (-) when data on treatment outcome are not reported. For inclusion in the cohort, drug susceptibility data are also required.

HPC - High-priority country.

For EU/EEA countries, cases with unknown TB history are considered as new cases.

Excluding rifampicin-resistant cases.

Pervious tuberculosis history is defined as previous diagnosis.

This designation is without prejudice to positions on status, and is in line with UN Security Council Resolution 1244 and the International Court of Justice Opinion on the Kosovo Declaration of Independence.

Table XI. Treatment success after 12 months of all tuberculosis cases, European Region, 2013–2017

| | | 2013 | | | 2014 | | | 2015 | | | 2016 | | | 2017 | |
|--------------------------------------|-----------|---------|---------|----------|---------|--------|----------|---------|---------|----------|---------|---------|----------|-----------|---------|
| Country/area | Cases | Succ | ess | Cases | Succ | ess | Cases | Succ | ess | Cases | Succ | ess | Cases | Succ | |
| | reported⁵ | N | (%) | reported | N | (%) | reported | N | (%) | reported | N | (%) | reported | N | (%) |
| EU/EEA | | | | | | | | | | | | | | | |
| Austria | 653 | 464 | (71.1) | 586 | 423 | (72.2) | 583 | 418 | (71.7) | 634 | 464 | (73.2) | 569 | 382 | (67.1) |
| Belgium | 963 | 743 | (77.2) | 949 | 752 | (79.2) | 977 | 762 | (78.0) | 1042 | 844 | (81.0) | 967 | 764 | (79.0) |
| Bulgaria | 1 932 | 1 626 | (84.2) | 1 872 | 1 565 | (83.6) | 1 660 | 1 385 | (83.4) | 1 603 | 1 3 4 5 | (83.9) | 1 463 | 1,215 | (83.0) |
| Croatia | 516 | 225 | (43.6) | 499 | 354 | (70.9) | 488 | 278 | (57.0) | 464 | 269 | (58.0) | 378 | 246 | (65.1) |
| Cyprus | 41 | 20 | (48.8) | 41 | 24 | (58.5) | 63 | 35 | (55.6) | 60 | 39 | (65.0) | 53 | 35 | (66.0) |
| Czech Republic | 497 | 345 | (69.4) | 511 | 379 | (74.2) | 517 | 350 | (67.7) | 516 | 348 | (67.4) | 501 | 341 | (68.1) |
| Denmark | 356 | 252 | (70.8) | 320 | 174 | (54.4) | 357 | 171 | (47.9) | 330 | 134 | (40.6) | 275 | 110 | (40.0) |
| Estonia | 290 | 203 | (70.0) | 248 | 167 | (67.3) | 217 | 150 | (69.1) | 192 | 134 | (69.8) | 175 | 112 | (64.0) |
| Finland | 273 | 141 | (51.6) | 263 | 118 | (44.9) | 272 | 102 | (37.5) | 233 | 72 | (30.9) | 246 | 88 | (35.8) |
| France | 4 947 | 2 474 | (50.0) | 4 888 | 2 592 | (53.0) | 4744 | 2 535 | (53.4) | 5 735 | 2 625 | (45.8) | 5 005 | 1,193 | (23.8) |
| Germany | 4 340 | 2 838 | (65.4) | 4 524 | 2 819 | (62.3) | 5 837 | 3 717 | (63.7) | 5 926 | 4 0 4 6 | (68.3) | 5 495 | 3,829 | (69.7) |
| Greece | - | | - | | - | - | - | - | - | | - | - | - | - | - |
| Hungary | 1,045 | 765 | (73.2) | 851 | 607 | (71.3) | 906 | 631 | (69.6) | 786 | 544 | (69.2) | 685 | 450 | (65.7) |
| Iceland | 11 | 10 | (90.9) | 9 | 8 | (88.9) | 7 | 7 | (100.0) | 6 | 5 | (83.3) | 14 | 13 | (92.9) |
| Ireland | 374 | 232 | (62.0) | 311 | 173 | (55.6) | 283 | 198 | (70.0) | 315 | 179 | (56.8) | 305 | 103 | (33.8) |
| Italy | - | | () | | | - | | | - | | | - | | - | (==:=) |
| Latvia | 904 | 688 | (76.1) | 761 | 593 | (77.9) | 721 | 551 | (76.4) | 660 | 512 | (77.6) | | | |
| Liechtenstein | - | - | (/0.1) | - | - | (,,,,) | 2 | 1 | (50.0) | 2 | 2 | (100.0) | 1 | 1 | (100.0) |
| Lithuania | 1 705 | 1 132 | (66.4) | 1 607 | 1 054 | (65.6) | 1507 | 994 | (66.0) | 1 442 | 982 | (68.1) | 1387 | 924 | (66.6) |
| Luxembourg | 38 | 0 | (0.0) | - 1007 | 1054 | (05.0) | - 707 | - | (00.0) | 1 772 | 702 | (30.1) | 32 | 0 | (0.0) |
| Malta | 50 | 37 | (74.0) | - | - | _ | | | | | | - | | - | (0.0) |
| Netherlands | 845 | 737 | (87.2) | 814 | 717 | (88.1) | 862 | 742 | (86.1) | 887 | 765 | (86.2) | 783 | 670 | (85.6) |
| Norway | 392 | 346 | (88.3) | 323 | 268 | (83.0) | 313 | 268 | (85.6) | 295 | 245 | (83.1) | 261 | 226 | (86.6) |
| Poland | 7 250 | 4 252 | (58.6) | 6 698 | 3 865 | (57.7) | 6 430 | 3 387 | (52.7) | 6 444 | 3 432 | (53.3) | 201 | 220 | (00.0) |
| | 2 410 | 1779 | (73.8) | 2 278 | 1625 | (71.3) | 2 196 | 1580 | (71.9) | 1936 | 1347 | | 1800 | 671 | (27.2) |
| Portugal | | | | | | | | | | | | (69.6) | | | (37.3) |
| Romania | 16 689 | 13 272 | (79.5) | 15 879 | 12 679 | (79.8) | 15 183 | 12 184 | (80.2) | 13 601 | 11 056 | (81.3) | 12 997 | 10 626 | (81.8) |
| Slovakia | 401 | 372 | (92.8) | 336 | 291 | (86.6) | 317 | 271 | (85.5) | 296 | 252 | (85.1) | 249 | 219 | (88.0) |
| Slovenia | 140 | 108 | (77.1) | 144 | 111 | (77.1) | 130 | 106 | (81.5) | 118 | 84 | (71.2) | 112 | 85 | (75.9) |
| Spain | 5 632 | 4 582 | (81.4) | 4 913 | 2 827 | (57.5) | 5 020 | 3 582 | (71.4) | 5 070 | 3 5 6 8 | (70.4) | 5 690 | 3 573 | (62.8) |
| Sweden | 639 | 566 | (88.6) | 659 | 570 | (86.5) | 815 | 688 | (84.4) | 714 | 630 | (88.2) | 519 | 439 | (84.6) |
| United Kingdom | 7 871 | 6 414 | (81.5) | 7 030 | 5 676 | (80.7) | 6,229 | 4 937 | (79.3) | 6,117 | 4,931 | (80.6) | 5 537 | 4 4 4 4 9 | (80.4) |
| Subtotal EU/EEA | 61 204 | 44 623 | (72.9) | 57 314 | 40 431 | (70.5) | 56 636 | 40 030 | (70.7) | 55 424 | 38 854 | (70.1) | 45 499 | 30 764 | (67.6) |
| Non-EU/EEA | | | (00.4) | | | () | | | (0.4.4) | | | (===) | | | (===) |
| Albania | 472 | 416 | (88.1) | 406 | 358 | (88.2) | 409 | 354 | (86.6) | 409 | 357 | (87.3) | 499 | 435 | (87.2) |
| Andorra | 5 | 3 | (60.0) | 6 | 5 | (83.3) | 4 | 4 | (100.0) | 4 | 3 | (75.0) | 1 | 1 | (100.0) |
| Armenia | 1 269 | 1 022 | (80.5) | 1 242 | 966 | (77.8) | 923 | 731 | (79.2) | 893 | 720 | (80.6) | 752 | 591 | (78.6) |
| Azerbaijan | 6 946 | 5 436 | (78.3) | 3 997 | 3 109 | (77.8) | 4 213 | 3 230 | (76.7) | 3 684 | 2 866 | (77.8) | 4 273 | 3 337 | (78.1) |
| Belarus | 3 256 | 2 784 | (85.5) | 2 955 | 2 562 | (86.7) | 2 788 | 2 444 | (87.7) | 2 325 | 2 050 | (88.2) | 1 924 | 1 677 | (87.2) |
| Bosnia and Herzegovina | 1 261 | 1040 | (82.5) | 1 196 | 923 | (77.2) | 1 0 9 5 | 707 | (64.6) | 907 | 505 | (55.7) | 768 | 343 | (44.7) |
| Georgia | 3 877 | 3 006 | (77.5) | 3 371 | 2 727 | (80.9) | 3 144 | 2 582 | (82.1) | 2 941 | 2 395 | (81.4) | 2 576 | 2 121 | (82.3) |
| Israel | 305 | 257 | (84.3) | 322 | 285 | (88.5) | 263 | 218 | (82.9) | 258 | 203 | (78.7) | 225 | 196 | (87.1) |
| Kazakhstan | 14 920 | 13 133 | (88.0) | 12 803 | 11 441 | (89.4) | 14 631 | 13 172 | (90.0) | 7 021 | 6 159 | (87.7) | 8 839 | 8 030 | (90.8) |
| Kyrgyzstan | 6 788 | 5 656 | (83.3) | 6 646 | 5 563 | (83.7) | 6 686 | 5 423 | (81.1) | 6 715 | 5 397 | (80.4) | 6 3 4 2 | 5 096 | (80.4) |
| Moldova | 4 246 | 3 234 | (76.2) | 3 751 | 2 861 | (76.3) | 3 209 | 2 480 | (77.3) | 3 390 | 2 667 | (78.7) | 2 891 | 2 275 | (78.7) |
| Monaco | 3 | 3 | (100.0) | | - | - | - | - | - | - | - | - | - | - | - |
| Montenegro | 120 | 104 | (86.7) | | 101 | (89.4) | 80 | 74 | (92.5) | 87 | 70 | (80.5) | 77 | 65 | (84.4) |
| North Macedonia | 322 | 292 | (90.7) | 282 | 245 | (86.9) | 284 | 245 | (86.3) | 267 | 235 | (88.0) | 222 | 196 | (88.3) |
| Russia | 90 235 | 59 691 | (66.2) | 82 926 | 55 673 | (67.1) | 88 718 | 61 238 | (69.0) | 82 382 | 56 881 | (69.0) | 76 932 | 51 653 | (67.1) |
| San Marino | - | - | - | - | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| Serbia | 1 476 | 1 152 | (78.0) | 1 295 | 1049 | (81.0) | 1669 | 1484 | (88.9) | 1464 | 1203 | (82.2) | 1 458 | 1249 | (85.7) |
| Serbia excluding Kosovo ^a | - | - | - | - | | - | 897 | 739 | (82.4) | 751 | 600 | (79.9) | 745 | 620 | (83.2) |
| Kosovo ^a | - | - | - | - | - | - | 772 | 745 | (96.5) | 713 | 603 | (84.6) | 713 | 629 | (88.2) |
| Switzerland | - | - | - | - | - | - | - | - | - | 601 | 404 | (67.2) | 542 | 420 | (77.5) |
| Tajikistan | 6 075 | 5 282 | (86.9) | 5 504 | 4 896 | (89.0) | 5 584 | 4 964 | (88.9) | 5 536 | 4 923 | (88.9) | 5 485 | 4 976 | (90.7) |
| Turkey | 13 409 | 11 465 | (85.5) | 13 125 | 11 341 | (86.4) | 12 520 | 10 807 | (86.3) | 12 196 | 10 554 | (86.5) | 11 818 | 10 118 | (85.6) |
| Turkmenistan | 3 675 | 2 364 | (64.3) | 2 265 | 1890 | (83.4) | 1 880 | 1 621 | (86.2) | 2 340 | 1964 | (83.9) | 2 232 | 1 878 | (84.1) |
| Ukraine | 38 875 | 26 014 | (66.9) | 27 563 | 19 586 | (71.1) | 27 548 | 20 034 | (72.7) | 26 351 | 19 484 | (73.9) | 24 474 | 18 147 | (74.1) |
| Uzbekistan | 21 713 | 17 843 | (82.2) | 20 275 | 17 402 | (85.8) | 17 837 | 15 694 | (88.0) | 16 408 | 14 244 | (86.8) | 16 891 | 14 836 | (87.8) |
| Subtotal non-EU/EEA | 219 248 | 160 197 | (73.1) | | 142 983 | (75.2) | 193 485 | 147 506 | (76.2) | 176 179 | 133 284 | (75.7) | 169 221 | 127 640 | (75.4) |
| Total European Region | 280 452 | 204 820 | (73.0) | | 183 414 | (74.1) | 250 121 | 187 536 | (75.0) | 231 603 | 172 138 | (74.3) | 214 720 | 158 404 | (73.8) |
| Total Furonean Region | | | | | | | | | | | | | | | |

^{&#}x27;European Region' comprises the 53 countries of the WHO European Region and Liechtenstein.
WHO European Region 18 tuberculosis high-priority countries presented in italics.
EU/EEA: Country data are shown as missing (-) when data on treatment outcome are not reported.
HPC - High-priority country.

* This designation is without prejudice to positions on status, and is in line with UN Security Council Resolution 1244 and the International Court of Justice Opinion on the Kosovo Declaration of Independence.

Table XII. Treatment success after 24 months of RR/MDR tuberculosis cases started on treatment^a, European Region,

| | | 2012 | | 2013 | | | | 2014 | | 2015 | | | 2016 | | |
|---|----------------------------|--------------|------------------|----------------|-----------------|------------------|----------------|----------------|------------------|----------------|----------------|-------------------|----------------|----------------|----------|
| Country/area | Cases | Suc | | Cases | Succ | | Cases | Succ | | Cases | Succ | | Cases | Succ | |
| FII/FFA | reported | N | (%) | reported | N | (%) | reported | N | (%) | reported | N | (%) | reported | N | (% |
| EU/EEA | 27 | 1.6 | (E1.0) | 16 | 12 | (75.0) | 21 | 12 | (61.0) | 12 | 12 | (02.2) | 17 | 11 | (61.7 |
| Austria | | 14 | (51.9) (68.0) | 16 | 12 | (75.0) (78.6) | 21 13 | 13 | (61.9) (53.8) | 13 | 12 | (92.3) (100.0) | 17 | | (64.7) |
| Belgium | 25 58 | 17 | | 14 | 11 <i>17</i> | | | 7 | | 16 28 | 16 | (60.7) | 12 22 | 10 | |
| Bulgaria Croatia | | <i>38</i> | (65.5) | <i>37</i> 0 | 0 | (45.9) | 44 | 22 | (50.0) | 1 | <i>17</i> | | 0 | 12 | (54.5) |
| | 1 0 | 0 | (0.0) | 0 | U | | 1 0 | 0 | (0.0) | 0 | 0 | (100.0) | 0 | - | |
| Cyprus | | | (40.0) | 0 | 0 | - | | | (42.0) | | 3 | (22.2) | - | | (40.0) |
| Czech Republic Denmark | 5 | 2 | (40.0) | 0 | 0 | ([0,0) | 7 | 3 | (42.9) | 9 | | (33.3) | 5 | 2 | (40.0) |
| | | 0 | (0.0) | 2 | | (50.0) | 2 | | (50.0) | | 0 | (0.0) | | - | (60.0) |
| Estonia | 57 | 42 | (73.7) | 54 | 34 | (63.0) | 51 | 32 | (62.7) | 40 | 25 | (62.5) | 25 | 18 | (72.0) |
| Finland | - | - | - | - | - | | 7 | 2 | (28.6) | 9 | 4 | (44.4) | 6 | 4 | (66.7) |
| France | - | - | ((0.0) | - | - | (2(2) | 405 | - | (22.2) | - | - | (14.0) | 400 | | (0 (0) |
| Germany | 71 | 35 | (49.3) | 114 | 41 | (36.0) | 105 | 35 | (33.3) | 131 | 54 | (41.2) | 122 | 45 | (36.9) |
| Greece | - 10 | - | (((0) | - 44 | - | (2(1) | - | - | (1000) | - | - | (22.2) | - | - | (10.0) |
| Hungary | 13 | 6 | (46.2) | 11 | 4 | (36.4) | 4 | 4 | (100.0) | 9 | 2 | (22.2) | 20 | 8 | (40.0) |
| Iceland | - | - | () | 0 | 0 | (== =) | 0 | 0 | (= 0 0) | 0 | 0 | (0.0) | 0 | 0 | (= , ,) |
| Ireland | 4 | 4 | (100.0) | 4 | 3 | (75.0) | 2 | 1 | (50.0) | 1 | 0 | (0.0) | 7 | 5 | (71.4) |
| Italy | - | - | - | - | - | - | - | - | | - | - | - (-: -) | - | - | |
| Latvia | 107 | 66 | (61.7) | 79 | 54 | (68.4) | 71 | 52 | (73.2) | 63 | 39 | (61.9) | | - | |
| Liechtenstein | 0 | 0 | - | 0 | 0 | (4: | 0 | 0 | (4 | 0 | 0 | (6 - 1) | 0 | 0 | |
| Lithuania | 285 | 101 | (35.4) | 274 | 90 | (32.8) | 279 | 91 | (32.6) | 248 | 99 | (39.9) | 255 | 110 | (43.1) |
| Luxembourg | 0 | 0 | - | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | |
| Malta | 0 | 0 | - | 2 | 1 | (50.0) | 0 | 0 | - | - | - | - | 0 | 0 | |
| Netherlands | 14 | 10 | (71.4) | 17 | 17 | (100.0) | 7 | 6 | (85.7) | 10 | 6 | (60.0) | 15 | 11 | (73.3) |
| Norway | 7 | 3 | (42.9) | 7 | 5 | (71.4) | 11 | 9 | (81.8) | 6 | 6 | (100.0) | 11 | 10 | (90.9) |
| Poland | 41 | 7 | (17.1) | 47 | 10 | (21.3) | 49 | 9 | (18.4) | 45 | 16 | (35.6) | - | - | |
| Portugal | 27 | 13 | (48.1) | 18 | 10 | (55.6) | 28 | 15 | (53.6) | 26 | 9 | (34.6) | 19 | 5 | (26.3) |
| Romania | 777 | 290 | (37.3) | 657 | 258 | (39.3) | 597 | 246 | (41.2) | 589 | 259 | (44.0) | 547 | 271 | (49.5) |
| Slovakia | 1 | 0 | (0.0) | 2 | 0 | (0.0) | 4 | 2 | (50.0) | 3 | 1 | (33.3) | 3 | 0 | (0.0) |
| Slovenia | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - |
| Spain | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Sweden | 15 | 13 | (86.7) | 10 | 7 | (70.0) | 17 | 15 | (88.2) | 26 | 24 | (92.3) | 25 | 23 | (92.0) |
| United Kingdom | 84 | 55 | (65.5) | 79 | 53 | (67.1) | 58 | 35 | (60.3) | 54 | 36 | (66.7) | 66 | 42 | (63.6) |
| Subtotal EU/EEA | 1 620 | 716 | (44.2) | 1 444 | 628 | (43.5) | 1 378 | 600 | (43.5) | 1 3 3 4 | 629 | (47.2) | 1 182 | 590 | (49.9) |
| Non-EU/EEA | | | | | | | | | | | | | | | |
| Albania | - | - | - | - | - | - | - | - | - | 3 | 3 | (100.0) | 1 | 1 | (100.0) |
| Andorra | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | |
| Armenia | 115 | 51 | (44.3) | 104 | 45 | (43.3) | 118 | 68 | (57.6) | 95 | 40 | (42.1) | 118 | 58 | (49.2) |
| Azerbaijan | 373 | 225 | (60.3) | 647 | 382 | (59.0) | 745 | 441 | (59.2) | 800 | 473 | (59.1) | 798 | 480 | (60.2) |
| Belarus | 2 509 | 1366 | (54.4) | 2 136 | 1 152 | (53.9) | 1 472 | 872 | (59.2) | 1 400 | 899 | (64.2) | 1 180 | 796 | (67.5) |
| Bosnia and Herzegovina | 7 | 3 | (42.9) | 1 | 1 | (100.0) | 3 | 2 | (66.7) | 1 | 1 | (100.0) | 0 | - | |
| Georgia | 623 | 296 | (47.5) | 411 | 176 | (42.8) | 411 | 201 | (48.9) | 412 | 231 | (56.1) | 339 | 222 | (65.5) |
| Israel | 13 | 12 | (92.3) | 7 | 4 | (57.1) | 16 | 12 | (75.0) | 10 | 8 | (80.0) | 9 | 6 | (66.7) |
| Kazakhstan | 7 213 | 5 265 | (73.0) | 6 527 | 4 730 | (72.5) | 6 320 | 4 813 | (76.2) | 6 482 | 5 0 6 3 | (78.1) | 6 260 | 4 979 | (79.5) |
| Kyrgyzstan | 775 | 486 | (62.7) | 1064 | 611 | (57.4) | 1 157 | 650 | (56.2) | 1 162 | 624 | (53.7) | 1 232 | 655 | (53.2) |
| Moldova | 856 | 504 | (58.9) | 943 | 538 | (57.1) | 919 | 457 | (49.7) | 996 | 487 | (48.9) | 979 | 518 | (52.9) |
| Monaco | 0 | - | - | 0 | - | - | - | - | - | - | - | - | - | - | |
| Montenegro | 1 | 1 | (100.0) | 0 | - | - | 2 | 0 | (0.0) | 1 | 1 | (100.0) | 0 | - | |
| North Macedonia | 3 | 2 | (66.7) | 2 | 1 | (50.0) | 3 | 1 | (33.3) | 5 | 2 | (40.0) | 2 | 1 | (50.0) |
| Russia | 16 021 | 6 427 | (40.1) | 18 213 | 8 802 | (48.3) | 20 089 | 10 170 | (50.6) | 22 607 | 12 117 | (53.6) | 22 593 | 12 141 | (53.7) |
| San Marino | | - 1=1 | - | | - | - | 0 | - | | 0 | - | - | 0 | - | |
| Serbia | 7 | 4 | (57.1) | 19 | 15 | (78.9) | 19 | 12 | (63.2) | 10 | 9 | (90.0) | 12 | 9 | (75.0) |
| Serbia excluding Kosovob | 6 | 3 | (50.0) | 13 | 10 | (76.9) | 13 | 7 | (53.8) | 5 | 4 | (80.0) | 10 | 7 | (70.0) |
| Kosovo ^b | 1 | 1 | (100.0) | 6 | 5 | (83.3) | 6 | 5 | (83.3) | 5 | 5 | (100.0) | 2 | 2 | (100.0) |
| Switzerland | - | | (.50.0) | - | - | (05.5) | 12 | 9 | (75.0) | 16 | 7 | (43.8) | 17 | 8 | (47.1) |
| | 535 | 351 | (65.6) | 625 | 375 | (60.0) | 804 | 398 | (49.5) | 682 | 398 | (58.4) | 681 | 440 | (64.6) |
| | | | (66.3) | 228 | 149 | (65.4) | 257 | 163 | (63.4) | 230 | 156 | (67.8) | 211 | 131 | (62.1) |
| Tajikistan | | 103 | | | 147 | (0).4) | | 143 | (67.1) | 210 | 142 | (67.6) | | 303 | (54.4) |
| Tajikistan Turkey | 291 | 193 | (00.3) | | - | | | | | | | | | | (34.4) |
| Tajikistan Turkey Turkmenistan | 291 | - | - | - | 20/18 | (38 6) | 213 7 17/ | | | | | | 557 7 277 | | (/(0 2) |
| Tajikistan Turkey Turkmenistan Ukraine | 291 - 5 556 | 1909 | (34.4) | 7 633 | 2 948 | (38.6) | 7 174 | 3 297 | (46.0) | 7 592 | 3 855 | (50.8) | 7 277 | 3 590 | (49.3) |
| Tajikistan Turkey Turkmenistan Ukraine Uzbekistan | 291 - 5 556 1 491 | 1 909 737 | (34.4) (49.4) | 7 633 2 647 | 1 390 | (52.5) | 7 174 3 602 | 3 297 2 216 | (46.0) (61.5) | 7 592 2 149 | 3 855 1 259 | (50.8) (58.6) | 7 277 1 986 | 3 590 1 140 | (57.4) |
| Tajikistan Turkey Turkmenistan Ukraine | 291 - 5 556 | 1909 | (34.4) | 7 633 | | | 7 174 | 3 297 | (46.0) | 7 592 | 3 855 | (50.8) | 7 277 | 3 590 | |

^{&#}x27;European Region' comprises the 53 countries of the WHO European Region and Liechtenstein.

WHO European Region 18 tuberculosis high-priority countries presented in italics.

EU/EEA: Country data are shown as missing (-) when data on treatment outcome are not reported. For inclusion in the cohort, drug susceptibility data are also required. HPC - High-priority country.

MDR - Multidrug-resistant.

RR - Rifampicin-resistant.

*For EU/EEA countries, cases diagnosed postmortem were excluded, and cases with no data on treatment enrolment were assumed to be enrolled to treatment.

This designation is without prejudice to positions on status, and is in line with UN Security Council Resolution 1244 and the International Court of Justice Opinion on the Kosovo Declaration of Independence.

Table XIII. Treatment success after 24 months of XDR tuberculosis cases started on treatment^a, European Region, 2012-2016

| | | 2012 | | | 2013 | | | 2014 | | | 2015 | | | 2016 | | | |
|--------------------------------------|---------------------------|------|---------|---------------------------|------|---------|---------------------------|-------|---------|--------------------------|-------|---------|---------------------------|-------|---------|--|--|
| | -13 | Succ | ess | sis | Suc | ess | sis | Succ | ess | <u>.s</u> | Suc | cess | sis | Suc | cess | | |
| Country/area | XDR tuberculosis cases | N | (%) | XDR tuberculosis cases | N | (%) | XDR tuberculosis cases | N | (%) | MD tuberculosis cases | N | (%) | XDR tuberculosis cases | N | (% | | |
| EU/EEA | | | | | | | | | | | | | | | | | |
| Austria | 7 | 2 | (28.6) | 3 | 2 | (66.7) | 2 | 1 | (50.0) | 1 | 1 | (100.0) | 2 | 1 | (50.0) | | |
| Belgium | 2 | 2 | (100.0) | 0 | 0 | - | 1 | 1 | (100.0) | 2 | 2 | (100.0) | 0 | 0 | | | |
| Bulgaria | 5 | 1 | (20.0) | 4 | 0 | (0.0) | 3 | 0 | (0.0) | 4 | 2 | (50.0) | 0 | 0 | | | |
| Croatia | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | | | |
| Cyprus | 0 | 0 | - | - | - | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | | | |
| Czech Republic | 1 | 0 | (0.0) | 0 | 0 | - | 0 | 0 | - | 1 | 0 | (0.0) | 0 | 0 | | | |
| Denmark | 0 | 0 | - | 1 | 1 | (100.0) | 0 | 0 | | 1 | 0 | (0.0) | 0 | 0 | | | |
| Estonia | 3 | 1 | (33.3) | 10 | 3 | (30.0) | 8 | 1 | (12.5) | 9 | 3 | (33.3) | 6 | 3 | (50.0) | | |
| Finland | - | - | | 0 | 0 | - | 1 | 0 | (0.0) | 1 | 0 | (0.0) | 1 | 0 | (0.0) | | |
| France | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| Germany | 1 | 0 | (0.0) | 3 | 0 | (0.0) | 11 | 2 | (18.2) | 9 | 3 | (33.3) | 7 | 3 | (42.9) | | |
| Greece | 0 | 0 | - | 0 | 0 | - | - | - | - | 0 | 0 | - | 0 | 0 | | | |
| Hungary | 2 | 1 | (50.0) | 1 | 0 | (0.0) | 0 | 0 | | 1 | 0 | (0.0) | 7 | 3 | (42.9) | | |
| Iceland | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | | | |
| Ireland | 0 | 0 | - | 1 | 1 | (100.0) | 0 | 0 | | 0 | 0 | - | 0 | 0 | | | |
| Italy | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| Latvia | 17 | 9 | (52.9) | 15 | 11 | (73.3) | 13 | 10 | (76.9) | 16 | 8 | (50.0) | - | - | | | |
| Liechtenstein | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | | | |
| Lithuania | 52 | 5 | (9.6) | 47 | 0 | (0.0) | 61 | 0 | (0.0) | 59 | 0 | (0.0) | 58 | 0 | (0.0) | | |
| Luxembourg | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | | | |
| Malta | 0 | 0 | - | 1 | 0 | (0.0) | 0 | 0 | | 0 | 0 | - | 0 | 0 | | | |
| Netherlands | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | | | |
| Norway | 0 | 0 | - | 1 | 0 | (0.0) | 1 | 0 | (0.0) | 0 | 0 | - | 0 | 0 | | | |
| Poland | 0 | 0 | - | 1 | 0 | (0.0) | 5 | 1 | (20.0) | 4 | 3 | (75.0) | - | - | | | |
| Portugal | 4 | 2 | (50.0) | 4 | 2 | (50.0) | 3 | 2 | (66.7) | 6 | 1 | (16.7) | 4 | 0 | (0.0) | | |
| Romania | 41 | 3 | (7.3) | 56 | 9 | (16.1) | 57 | 9 | (15.8) | 71 | 28 | (39.4) | 68 | 23 | (33.8) | | |
| Slovakia | 0 | 0 | - | 0 | 0 | - | 0 | 0 | | 0 | 0 | - | 0 | 0 | | | |
| Slovenia | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | | | |
| Spain | - | - | - | - | - | - | - | - | - | 0 | 0 | - | 0 | 0 | | | |
| Sweden | 2 | 2 | (100.0) | 2 | 1 | (50.0) | 1 | 0 | (0.0) | 1 | 0 | (0.0) | 4 | 2 | (50.0) | | |
| United Kingdom | 2 | 0 | (0.0) | 3 | 2 | (66.7) | 3 | 1 | (33.3) | 8 | 2 | (25.0) | 7 | 3 | (42.9) | | |
| Subtotal EU/EEA | 139 | 28 | (20.1) | 153 | 32 | (20.9) | 170 | 28 | (16.5) | 194 | 53 | (27.3) | 164 | 38 | (23.2) | | |
| Non-EU/EEA | | | | | | | | | | | | | | | | | |
| Albania | - | - | - | - | - | - | - | - | - | - | - | - | 0 | - | | | |
| Andorra | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | | | |
| Armenia | 2 | 0 | (0.0) | 10 | 2 | (20.0) | 10 | 4 | (40.0) | 8 | 4 | (50.0) | 10 | 3 | (30.0) | | |
| Azerbaijan | 33 | 12 | (36.4) | 95 | 25 | (26.3) | 69 | 16 | (23.2) | - | - | - | - | - | | | |
| Belarus | - | - | - | 60 | 23 | (38.3) | 431 | 157 | (36.4) | 508 | 268 | (52.8) | 393 | 207 | (52.7) | | |
| Bosnia and Herzegovina | 0 | - | - | - | - | - | 0 | - | - | - | - | - | - | - | | | |
| Georgia | 43 | 12 | (27.9) | 70 | 15 | (21.4) | 56 | 18 | (32.1) | 62 | 35 | (56.5) | 55 | 31 | (56.4) | | |
| Israel | 4 | 4 | (100.0) | 1 | 0 | (0.0) | 2 | 1 | (50.0) | 1 | 1 | (100.0) | 2 | 2 | (100.0) | | |
| Kazakhstan | - | - | - | 360 | 109 | (30.3) | 318 | 98 | (30.8) | 391 | 126 | (32.2) | 435 | 207 | (47.6) | | |
| Kyrgyzstan | 0 | - | - | 43 | 12 | (27.9) | 32 | 5 | (15.6) | 51 | 9 | (17.6) | 68 | 10 | (14.7) | | |
| Moldova | - | - | - | - | - | - | 9 | 3 | (33.3) | 32 | 5 | (15.6) | 65 | 17 | (26.2) | | |
| Monaco | 0 | - | - | 3 | 3 | (100.0) | - | - | - | - | - | - | - | - | | | |
| Montenegro | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - | 1 | 1 | (100.0) | | |
| North Macedonia | 1 | 1 | (100.0) | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | | | |
| Russia | 1 318 | 344 | (26.1) | 1965 | 520 | (26.5) | 2209 | 687 | (31.1) | 2882 | 960 | (33.3) | 2909 | 1094 | (37.6) | | |
| San Marino | - | - | - | - | - | - | 0 | - | - | 0 | - | - | 0 | - | | | |
| Serbia | 1 | 1 | (100.0) | 0 | - | - | 0 | - | - | 0 | - | - | 1 | 0 | (0.0) | | |
| Serbia excluding Kosovo ^b | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| Kosovo ^b | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| Switzerland | - | - | - | - | - | - | 1 | 0 | (0.0) | 0 | - | - | 0 | - | | | |
| Tajikistan | 1 | 1 | (100.0) | 4 | 3 | (75.0) | 0 | - | - | - | - | - | 43 | 20 | (46.5) | | |
| Turkey | 6 | 4 | (66.7) | 3 | 1 | (33.3) | 2 | 0 | (0.0) | 3 | 2 | (66.7) | 9 | 5 | (55.6) | | |
| Turkmenistan | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| Ukraine | - | - | - | - | - | - | 1097 | 278 | (25.3) | 1206 | 424 | (35.2) | 1353 | 501 | (37.0) | | |
| Uzbekistan | 21 | 3 | (14.3) | - | - | - | - | - | - | 147 | 34 | (23.1) | 184 | 91 | (49.5) | | |
| Subtotal non-EU/EEA | 1 430 | 382 | (26.7) | 2 614 | 713 | (27.3) | 4 236 | 1,267 | (29.9) | 5 291 | 1868 | (35.3) | 5 528 | 2 189 | (39.6) | | |
| Total European Region | 1569 | 410 | (26.1) | 2 767 | 745 | (26.9) | 4 406 | 1 295 | (29.4) | 5 485 | 1 921 | (35.0) | 5 692 | 2 227 | (39.1) | | |

^{&#}x27;European Region' comprises the 53 countries of the WHO European Region and Liechtenstein.
WHO European Region 18 tuberculosis high-priority countries presented in italics.
EU/EEA: Country data is shown as missing () when data on treatment outcome are not reported. For inclusion in the cohort, drug susceptibility data are also required.
HPC - High-priority country.
XDR TB - Extensively drug-resistant tuberculosis.
* For EU/EEA countries, cases diagnosed postmortem are excluded, and cases with no treatment enrolment data reported are assumed to be enrolled to treatment.
* This designation is without prejudice to positions on status, and is in line with UN Security Council Resolution 1244 and the International Court of Justice Opinion on the Kosovo Declaration of Independence.

Table XIV. Treatment success after 36 months of XDR tuberculosis cases notified in EU/EEA, 2011–2015

| | | 2011 | | | 2012 | | | 2013 | | | 2014 | | 2015 | | |
|----------------|------------------------------|------|---------|------------------------------|------|---------|------------------------------|------|---------|------------------------------|------|---------|------------------------------|------|---------|
| | <u>.v</u> | Suc | cess | <u>.s</u> | Suc | cess | <u>s</u> . | Suco | ess | <u>.s</u> | Suc | cess | <u>.s</u> | Succ | cess |
| Country/area | XDR tuberculosis cases | N | (%) |
| EU/EEA | | | | | | | | | | | | | | | |
| Austria | 7 | 4 | (57.1) | 7 | 2 | (28.6) | 3 | 2 | (66.7) | 2 | 2 | (100.0) | 1 | 1 | (100.0) |
| Belgium | 3 | 3 | (100.0) | 2 | 2 | (100.0) | 0 | 0 | - | 1 | 1 | (100.0) | 2 | 2 | (100.0) |
| Bulgaria | 0 | 0 | | 5 | 1 | (20.0) | 4 | 0 | (0.0) | 3 | 0 | (0.0) | 4 | 2 | (50.0) |
| Croatia | - | - | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - |
| Cyprus | 0 | 0 | | 0 | 0 | - | - | - | - | 0 | 0 | - | 0 | 0 | - |
| Czech Republic | 2 | 0 | (0.0) | 1 | 0 | (0.0) | 0 | 0 | - | 0 | 0 | - | 1 | 0 | (0.0) |
| Denmark | 0 | 0 | - | 0 | 0 | - | 1 | 1 | (100.0) | 0 | 0 | | 1 | 0 | (0.0) |
| Estonia | 15 | 6 | (40.0) | 4 | 1 | (25.0) | 10 | 5 | (50.0) | 8 | 3 | (37.5) | 9 | 3 | (33.3) |
| Finland | 0 | 0 | - | - | - | - | 0 | 0 | - | | - | - | - | - | - |
| France | - | - | - | - | - | - | - | - | - | - | | - | - | - | - |
| Germany | 1 | 1 | (100.0) | 1 | 0 | (0.0) | 3 | 0 | (0.0) | 11 | 2 | (18.2) | 9 | 4 | (44.4) |
| Greece | - | - | - | 0 | 0 | - | 0 | 0 | - | - | - | - | 0 | 0 | - |
| Hungary | 0 | 0 | - | 2 | 1 | (50.0) | 1 | 0 | (0.0) | 0 | 0 | - | 1 | 0 | (0.0) |
| Iceland | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - |
| Ireland | 0 | 0 | | 0 | 0 | - | - | - | - | 0 | 0 | - | 0 | 0 | - |
| Italy | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Latvia | 12 | 7 | (58.3) | 17 | 9 | (52.9) | 15 | 11 | (73.3) | 13 | 10 | (76.9) | - | - | - |
| Liechtenstein | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - |
| Lithuania | 52 | 11 | (21.2) | 52 | 6 | (11.5) | 47 | 11 | (23.4) | 61 | 15 | (24.6) | 59 | 15 | (25.4) |
| Luxembourg | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - |
| Malta | 0 | 0 | | 0 | 0 | | - | | | 0 | 0 | | 0 | 0 | - |
| Netherlands | 0 | 0 | | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - |
| Norway | 0 | 0 | | 0 | 0 | | 1 | 0 | (0.0) | 1 | 0 | (0.0) | 0 | 0 | |
| Poland | 1 | 0 | (0.0) | 0 | 0 | - | 1 | 0 | (0.0) | 5 | 1 | (20.0) | - | - | - |
| Portugal | 9 | 7 | (77.8) | 4 | 4 | (100.0) | 4 | 4 | (100.0) | 3 | 2 | (66.7) | 6 | 2 | (33.3) |
| Romania | 34 | 6 | (17.6) | 41 | 5 | (12.2) | 56 | 11 | (19.6) | 58 | 9 | (15.5) | 71 | 28 | (39.4) |
| Slovakia | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - |
| Slovenia | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - | 0 | 0 | - |
| Spain | - | - | - | - | - | - | - | - | - | - | - | - | 0 | 0 | - |
| Sweden | 0 | 0 | - | 2 | 2 | (100.0) | 2 | 2 | (100.0) | 1 | 0 | (0.0) | 1 | 1 | (100.0) |
| United Kingdom | 6 | 3 | (50.0) | 2 | 1 | (50.0) | 3 | 3 | (100.0) | 3 | 2 | (66.7) | 9 | 7 | (77.8) |
| Total EU/EEA | 142 | 48 | (33.8) | 140 | 34 | (24.3) | 151 | 50 | (33.1) | 170 | 47 | (27.6) | 174 | 65 | (37.4) |

WHO European Region 18 tuberculosis high-priority countries presented in italics.
EU/EEA: Country data are shown as missing (-) when data on treatment outcome are not reported. For inclusion in the cohort, drug susceptibility data are also required.
XDR TB - Extensively drug-resistant tuberculosis.

Table XV. New and relapsed tuberculosis cases tested using WHO recommended rapid diagnostics such as Xpert MTB/RIFa, European Region, 2015-2018

| | | 2015 | | | 2016 | | | 2017 | | | 2018 | |
|--------------------------------------|--|---------------------------------------|---------|--|---------------------------------------|---------|--|--|--------------|--|-----------------|---------|
| Country/area | New and relapse tuberculosis cases ^b | Cases test WHO recom rapid diag | ımended | New and relapse tuberculosis cases ^b | Cases test WHO recon rapid diag | nmended | New and relapse tuberculosis cases ^b | Cases t using recomm rapid diag | WHO ended | New and relapse tuberculosis cases ^b | using recomn | |
| | N | N | (%) | N | N | (%) | N | N | (%) | N | N | (%) |
| EU/EEA | | | | | | | | | | | | |
| Austria | 564 | 424 | (75.2) | 619 | 490 | (79.2) | 561 | 444 | (79.1) | 470 | 376 | (80.0) |
| Belgium ^d | 919 | 444 | (48.3) | 982 | 473 | (48.2) | 911 | 484 | (53.1) | 913 | 523 | (57.3) |
| Bulgaria | 1 619 | 10 | (0.6) | 1 525 | 6 | (0.4) | 1 408 | 5 | (0.4) | 1 290 | 7 | (0.5) |
| Croatia | 485 | 0 | (0.0) | 452 | 0 | (0.0) | 372 | 0 | (0.0) | 364 | 0 | (0.0) |
| Cyprus | 63 | 5 | (7.9) | 57 | 4 | (7.0) | 52 | 14 | (26.9) | 51 | 17 | (33.3) |
| Czech Republic | 507 | 273 | (53.8) | 511 | 252 | (49.3) | 495 | 334 | (67.5) | 435 | 274 | (63.0) |
| Denmark ^d | 320 | 186 | (58.1) | 292 | 209 | (71.6) | 253 | 198 | (78.3) | 270 | 262 | (97.0) |
| Estonia | 206 | 153 | (74.3) | 188 | 144 | (76.6) | 171 | 138 | (80.7) | 145 | 124 | (85.5) |
| Finland | 268 | 85 | (31.7) | 222 | 62 | (27.9) | 243 | 92 | (37.9) | 229 | 105 | (45.9) |
| France | 4 457 | 0 | (0.0) | 5 446 | 0 | (0.0) | 4 715 | 0 | (0.0) | 4 779 | 0 | (0.0) |
| Germany | 5 626 | 4 154 | (73.8) | 5 740 | 4 455 | (77.6) | 5 3 4 9 | 4 302 | (80.4) | 5 265 | 4 350 | (82.6) |
| Greece | 438 | 187 | (42.7) | 417 | 168 | (40.3) | 434 | 204 | (47.0) | 406 | 181 | (44.6) |
| Hungary | 858 | 0 | (0.0) | 737 | 0 | (0.0) | 650 | 0 | (0.0) | 602 | 0 | (0.0) |
| - / | | | | | | | | | | | | |
| Iceland | 7 | 6 | (85.7) | 6 | 5 | (83.3) | 13 | 12 | (92.3) | 304 | 126 | (100.0) |
| Ireland ^d | 266 | 84 | (31.6) | 290 | 118 | (40.7) | 288 | 124 | (43.1) | 294 | 136 | (46.3) |
| Italy | 3 476 | 0 | (0.0) | 3 778 | 0 | (0.0) | 3 828 | 0 | (0.0) | 3 777 | 0 | (0.0) |
| Latvia | 697 | 0 | (0.0) | 641 | 0 | (0.0) | 543 | 178 | (32.8) | - | - | , |
| Liechtenstein | 1 | 0 | (0.0) | 2 | 0 | (0.0) | 1 | 1 | (100.0) | 1 | 1 | (100.0) |
| Lithuania | 1 395 | 0 | (0.0) | 1 347 | 0 | (0.0) | 1 268 | 0 | (0.0) | 1 063 | 0 | (0.0) |
| Luxembourg | 30 | 0 | (0.0) | 29 | 0 | (0.0) | 32 | 0 | (0.0) | 42 | 0 | (0.0) |
| Malta | 32 | 2 | (6.3) | 50 | 17 | (34.0) | 42 | 13 | (31.0) | 55 | 0 | (0.0) |
| Netherlands | 846 | 634 | (74.9) | 875 | 588 | (67.2) | 772 | 577 | (74.7) | 791 | 554 | (70.0) |
| Norway ^d | 282 | 252 | (89.4) | 273 | 204 | (74.7) | 237 | 183 | (77.2) | 189 | 151 | (79.9) |
| Poland | 6 237 | 743 | (11.9) | 6 143 | 888 | (14.5) | 5 535 | 1,037 | (18.7) | 5 196 | 1 054 | (20.3) |
| Portugal | 2,155 | 333 | (15.5) | 1,891 | 349 | (18.5) | 1760 | 377 | (21.4) | 2 111 | 1 197 | (56.7) |
| Romania | 14 215 | 1 | (0.0) | 12 774 | 846 | (6.6) | 12 303 | 3 214 | (26.1) | 11 586 | 2 746 | (23.7) |
| Slovakia | 308 | 68 | (22.1) | 281 | 58 | (20.6) | 228 | 56 | (24.6) | 273 | 66 | (24.2) |
| Slovenia | 129 | 109 | (84.5) | 118 | 96 | (81.4) | 112 | 95 | (84.8) | 98 | 81 | (82.7) |
| Spain | 4 818 | 997 | (20.7) | 3 973 | 976 | (24.6) | 4 551 | 1241 | (27.3) | 4 500 | 1 155 | (25.7) |
| Sweden | 776 | 551 | (71.0) | 691 | 461 | (66.7) | 487 | 412 | (84.6) | 477 | 326 | |
| United Kingdom ^d | 5 845 | 303 | (5.2) | 5 727 | 364 | (6.4) | 5 225 | 394 | (7.5) | 4775 | 367 | (68.3) |
| - | | | | | | | | | | | | (7.7) |
| Subtotal EU/EEA | 57 845 | 10 004 | (17.3) | 56 077 | 11 233 | (20.0) | 52 839 | 14 129 | (26.7) | 50 455 | 14 061 | (27.9) |
| Non-EU/EEA | | | | | | | | | | | | |
| Albania | - | - | | - | - | - | - | - | - | | - | - |
| Andorra | 4 | 3 | (75.0) | 4 | 4 | (100.0) | 1 | 1 | (100.0) | 2 | 2 | (100.0) |
| Armenia | 1 171 | 192 | (16.4) | 1 027 | 57 | (5.6) | 841 | 631 | (75.0) | 734 | 619 | (84.3) |
| Azerbaijan | 5 456 | 2 339 | (42.9) | 5 159 | 2 025 | (39.3) | 5 231 | 2 869 | (54.8) | 5 038 | 3 472 | (68.9) |
| Belarus | 3 765 | 2 708 | (71.9) | 3 211 | 2 555 | (79.6) | 2 781 | 2 452 | (88.2) | 2 359 | 2 201 | (93.3) |
| Bosnia and Herzegovina | 1092 | 1092 | (100.0) | 907 | 0 | (0.0) | - | - | - | - | - | - |
| Georgia | 3 152 | 2 008 | (63.7) | 2 983 | 2 421 | (81.2) | 2 597 | 2 099 | (80.8) | 2 316 | 1 940 | (83.8) |
| Israel | - | - | - | | - | - | - | - | - | - | - | - |
| Kazakhstan | 14 006 | 11 631 | (83.0) | 12 322 | 10 505 | (85.3) | 12 449 | 10 226 | (82.1) | 12 832 | 11 454 | (89.3) |
| Kyrgyzstan | 7 027 | 1 502 | (21.4) | 7 026 | 2 533 | (36.1) | 6 687 | 4 330 | (64.8) | 6 338 | 3 910 | (61.7) |
| Moldova | 3 608 | 3 054 | (84.6) | 3 571 | 1 813 | (50.8) | 3 358 | 3 129 | (93.2) | 3 022 | 2 857 | (94.5) |
| Monaco | 3 0 0 0 | 5 054 | (5 7.0) | - | | (50.0) | - | , , , | (, ,,,,,) | | 2 0 3 / | (77.3) |
| Montenegro | 80 | 0 | (0.0) | 87 | 25 | (28.7) | 75 | 48 | (64.0) | 84 | 64 | (76.2) |
| North Macedonia | 80 | - | (0.0) | 263 | 0 | (0.0) | 216 | | (70.4) | 217 | 147 | (67.7) |
| | | | | | | | | | | | | |
| Russia San Marina | | - | | 92 407 | 64 512 | (69.8) | 84 510 | 65 843 | (77.9) | 78 258 | 57 344 | (73.3) |
| San Marino | | - | | | | | 4.000 | | (40.0) | 4.00 | 200 | (22 -1 |
| Serbia | - | - | - | | - | | 1 450 | 275 | (19.0) | 1 330 | 399 | (30.0) |
| Serbia excluding Kosovo ^e | - | - | | | | - | 738 | 0 | (0.0) | 712 | 0 | (0.0) |
| Kosovo ^e | - | - | - | | - | | 712 | 275 | (38.6) | 618 | 399 | (64.6) |
| Switzerland | - | - | - | | - | - | 529 | 354 | (66.9) | - | - | |
| Tajikistan | - | - | - | 5 965 | 4 368 | (73.2) | 5 895 | 3 075 | (52.2) | 5 726 | 4 235 | (74.0) |
| Turkey | - | - | - | | - | - | - | - | - | | - | |
| Turkmenistan | - | - | - | - | - | - | 1 968 | 1 488 | (75.6) | 2 157 | 1 611 | (74.7) |
| Ukraine | 30 151 | 23 177 | (76.9) | | - | | | - | - | 26 512 | 23,093 | (87.1) |
| Uzbekistan | | - | - | 16 050 | 12 270 | (76.4) | 16 842 | 11 368 | (67.5) | 16 413 | 14 390 | (87.7) |
| Subtotal non-EU/EEA | 69 512 | 47 706 | (68.6) | 150 982 | 103 088 | (68.3) | 145 430 | | (74.5) | | 127 738 | (78.2) |
| Total European Region | 127 357 | 57 710 | (45.3) | 207 059 | 114 321 | (55.2) | 198 269 | | (61.8) | 213 793 | 141 799 | (66.3) |
| Subtotal 18 HPCs | 86 468 | 46 775 | (54.1) | 166 196 | 104 055 | (62.6) | 158 852 | 111 045 | (69.9) | | 130 003 | (74.0) |

^{*}European Region' comprises the 53 countries of the WHO European Region and Liechtenstein.

WHO European Region 18 tuberculosis high-priority countries presented in italics.

HPC - High-priority country.

*World Health Organization. Automated real-time nucleic acid amplification technology for rapid and simultaneous detection of tuberculosis and rifampicin resistance. Policy update. WHO/HTM/TB/2013.16. Geneva, Switzerland: WHO, 2013.

*Cases with unknown previous tuberculosis history are included among new tuberculosis cases.

*All nucleic acid amplification tests are counted as 'tested using WHO-recommended rapid diagnostics' for EU/EEA countries.

*Previous tuberculosis history is defined as previous diagnosis.

*This designation is without prejudice to positions on status, and is in line with UN Security Council Resolution 1244 and the International Court of Justice Opinion on the Kosovo Declaration of Independence.





| AD | Andorra |
|----|------------------------|
| AL | Albania |
| AM | Armenia |
| AT | Austria |
| AZ | Azerbaijan |
| BA | Bosnia and Herzegovina |
| BE | Belgium |
| BG | Bulgaria |
| BY | Belarus |
| CH | Switzerland |
| CY | Cyprus |
| CZ | Czech Republic |
| DE | Germany |
| DK | Denmark |
| EE | Estonia |
| EL | Greece |
| ES | Spain |
| FI | Finland |
| FR | France |
| | |

| GE | Georgia |
|----|---------------------|
| HR | Croatia |
| HU | Hungary |
| IE | Ireland |
| IL | Israel |
| IS | Iceland |
| IT | Italy |
| KG | Kyrgyzstan |
| ΚZ | Kazakhstan |
| LI | Liechtenstein |
| LT | Lithuania |
| LU | Luxembourg |
| LV | Latvia |
| MD | Republic of Moldova |
| ME | Montenegro |
| MK | North Macedonia |
| MT | Malta |
| NL | Netherlands |
| NO | Norway |

| PL | Poland |
|----|--------------------|
| PT | Portugal |
| RO | Romania |
| RS | Serbia |
| RU | Russian Federation |
| SE | Sweden |
| SI | Slovenia |
| SK | Slovakia |
| TJ | Tajikistan |
| TM | Turkmenistan |
| TR | Turkey |
| UA | Ukraine |
| UK | United Kingdom |
| UZ | Uzbekistan |
| | |
| | |
| | |
| | |

Albania

Population estimate 2018 by UN Statistical Database: 2882740

TB case notifications, 2018

| Total number of cases | | 440 |
|---|---------------|---------|
| Notification rate per 100 000 | 15.3 | |
| New ^a and relapses | 440 | |
| New ^a and relapses notification rate per 100 000 | 15.3 | |
| Pulmonary | 330 | (75.0%) |
| of which microscopy-positive | | |
| of which laboratory-confirmed | 208 | (63.0%) |
| Laboratory-confirmed TB cases | 208 | (47.3%) |
| Mean age of new native TB cases | 46.1 years | |
| Mean age of new foreign TB cases | - | years |
| Foreign origin of all TB cases | 0 | (0.0%) |
| New (not previously treated) | 424 | (96.4%) |
| Estimate | | |
| Estimated new and relapsed cases N, (best-low-high) | 510 (430-580) | |

^a Cases with unknown previous TB history included in new cases.

Drug resistance surveillance and TB/HIV coinfection, 2018

| Completeness of DRS data ^a | | No |
|---|------|----------|
| Completeness of HIV datab | | No |
| Case-linked data reporting | Υ | 'es |
| Cases with DST results | 63 | (30.3%) |
| Estimated RR TB among notified bac conf pulmonary TB cases N, (best-low-high) | 5 (1 | I-10) |
| Pulmonary MDR-TB cases notified | 2 | (3.2%) |
| of which XDR-TB cases | - | - |
| Notified MDR-TB | - | - |
| of which XDR-TB cases | 0 | - |
| TB cases tested for HIV | 215 | (48.9%) |
| HIV-positive TB cases | 6 | (2.8%) |
| of these on ART | 6 | (100.0%) |
| | | |

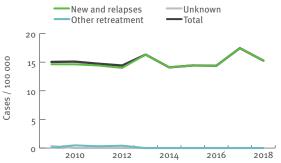
^aNational coverage 100% or culturing 90%. C+/all TB cases 50%. DST done for C+ 75%. EQA 95%. ^b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

| Geographical coverage | Nat | tional | | |
|----------------------------|---|---------|--|----------|
| Outcome cohort | New and relapsed TB cases notified in 2017 ^a | | All RR/MDR-TB cases enrolled into second-line treatmen in 2016 ^b | |
| Case-linked data reporting | Yes | | | |
| Cases notified | 499 | | | 1 |
| Success | 435 | (87.2%) | 1 | (100.0%) |
| Died | 19 | (3.8%) | 0 | (0.0%) |
| Failed | 2 | (0.4%) | 0 | (0.0%) |
| Lost to follow-up | 23 | (4.6%) | 0 | (0.0%) |
| Not evaluated | 20 (4.0%) | | 0 | (0.0%) |

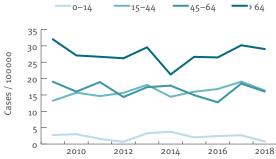
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

TB notification rates by treatment history, 2009-2018



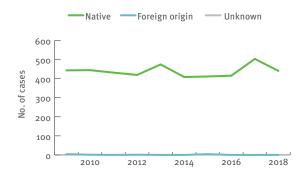
^a Starting from 2013 onward cases with unknown history are included in new and relapses.

New and relapsed TB cases – notification rates by age group, $2009-2018^a$

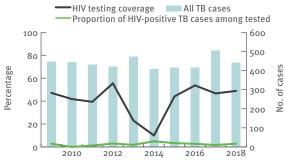


a Data up to 2012 include new TB cases only.

TB cases by geographical origin, 2009-2018

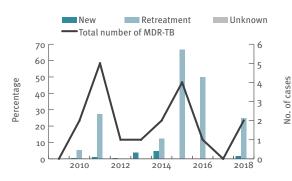


TB/HIV coinfection, 2009-2018a

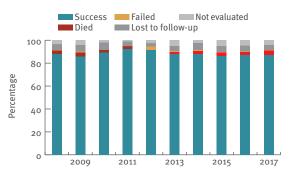


^a Data up to 2014 include all TB cases.

MDR-TB cases by previous treatment history, 2009–2018



Treatment outcome, new and relapsed TB cases, 2009-2018^a



^a 2008–2011 cohorts include new cases only.

Population estimate 2018 by UN Statistical Database: 77 006

TB case notifications, 2018

| Total number of cases | 2 | |
|---|------------|----------|
| Notification rate per 100 000 | 2.6 | |
| New ^a and relapses | 2 | |
| New ^a and relapses notification rate per 100 000 | 2.6 | |
| Pulmonary | 2 | (100.0%) |
| of which microscopy-positive | | |
| of which laboratory-confirmed | 2 | (100.0%) |
| Laboratory-confirmed TB cases | 2 | (100.0%) |
| Mean age of new native TB cases | 30.0 years | |
| Mean age of new foreign TB cases | - years | |
| Foreign origin of all TB cases | 0 | (0.0%) |
| New (not previously treated) | 2 | (100.0%) |
| Estimate | | |
| Estimated new and relapsed cases N, (hest-low-high) | 2 (2-3) | |

^a Cases with unknown previous TB history included in new cases.

Drug resistance surveillance and TB/HIV coinfection, 2018

| Completeness of DRS data ^a | | No |
|---|-----|---------|
| Completeness of HIV datab | | No |
| Case-linked data reporting | ١ | /es |
| Cases with DST results | 1 | (50.0%) |
| Estimated RR TB among notified bac conf pulmonary TB cases N, (best-low-high) | 0 (| (0-2) |
| Pulmonary MDR-TB cases notified | 0 | (0.0%) |
| of which XDR-TB cases | - | - |
| Notified MDR-TB | 0 | (0.0%) |
| of which XDR-TB cases | - | - |
| TB cases tested for HIV | 0 | (0.0%) |
| HIV-positive TB cases | - | - |
| of these on ART | - | - |

^a National coverage 100% or culturing ≥ 90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA ≥ 95%. ^b More than 50% of TB cases with reported HIV status.

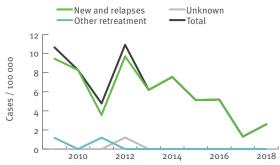
No. of cases

Treatment outcome monitoring

| Geographical coverage | Na | tional | | |
|----------------------------|---|--------|------------------------|---|
| Outcome cohort | New and relapsed TB cases notified in 2017 ^a | | cases en second-lin | MDR-TB rolled into e treatment :016 ^b |
| Case-linked data reporting | Yes | | | |
| Cases notified | 1 | | | 0 |
| Success | 1 (100.0%) | | - | - |
| Died | 0 (0.0%) | | - | - |
| Failed | 0 (0.0%) | | - | - |
| Lost to follow-up | 0 (0.0%) | | - | - |
| Not evaluated | 0 (0.0%) | | - | - |

^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

TB notification rates by treatment history, 2009-2018



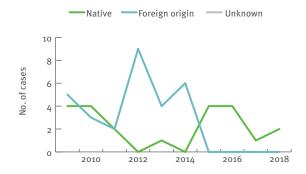
^a Starting from 2013 onward, cases with unknown history are included in new and relapses.

New and relapsed TB cases - notification rates by age group, 2009-2018°

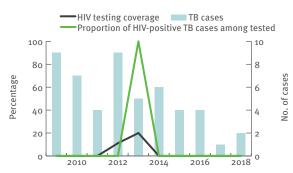


^a Data up to 2012 includes new TB cases only.

TB cases by geographical origin, 2009-2018

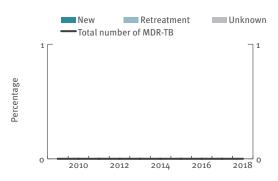


TB/HIV coinfection, 2009-2018a

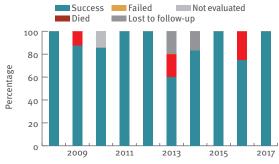


^a Data up to 2014 include all TB cases.

MDR-TB cases by previous treatment history, 2009-2018



Treatment outcome, new and relapsed TB cases, 2008-2017^a



a 2008-2011 cohorts include new cases only.

Population estimate 2018 by UN Statistical Database: 2 951 745

TB case notifications, 2018

| Total number of cases | 7 | 796 |
|---|------------|----------|
| Notification rate per 100 000 | 2 | 27.0 |
| New ^a and relapses | 7 | 734 |
| New ^a and relapses notification rate per 100 000 | 24.9 | |
| Pulmonary | 567 | (77.2%) |
| of which microscopy-positive | | |
| of which laboratory-confirmed | 296 | (52.2%) |
| Laboratory-confirmed TB cases | 358 | (45.0%) |
| Mean age of new native TB cases | 44.4 years | |
| Mean age of new foreign TB cases | - | years |
| Foreign origin of all TB cases | 10 | (1.3%) |
| New (not previously treated) | 621 | (78.0%) |
| Estimate | | |
| Estimated new and relapsed cases N, (best-low-high) | 920 (7 | 00-1200) |

^a Cases with unknown previous TB history included in new cases.

Drug resistance surveillance and TB/HIV coinfection, 2018

| Completeness of DRS data ^a | ١ | /es |
|---|-------|---------|
| Completeness of HIV datab | ١ | /es |
| Case-linked data reporting | ١ | /es |
| Cases with DST results | 332 | (92.7%) |
| Estimated RR TB among notified bac conf pulmonary TB cases N, (best–low–high) | 98 (8 | 32-110) |
| Pulmonary MDR-TB cases notified | 76 | (22.9%) |
| of which XDR-TB cases | 14 | (18.4%) |
| Notified MDR-TB | 85 | (25.6%) |
| of which XDR-TB cases | 14 | (16.5%) |
| TB cases tested for HIV | 699 | (95.2%) |
| HIV-positive TB cases | 72 | (10.3%) |
| of these on ART | 71 | (98.6%) |
| | | |

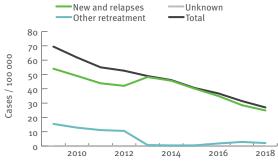
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases \gt 50%, DST done for C+ \gt 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

| Geographical coverage | Na | tional | | |
|----------------------------|---|---------|--|---------|
| Outcome cohort | New and relapsed TB cases notified in 2017 ^a | | All RR/MDR-TB cases enrolled in second-line treatm in 2016 ^b | |
| Case-linked data reporting | 1 | /es | | |
| Cases notified | | 710 | | 118 |
| Success | 563 | (79.3%) | 58 | (49.2%) |
| Died | 43 | (6.1%) | 13 | (11.0%) |
| Failed | 12 (1.7%) | | 14 | (11.9%) |
| Lost to follow-up | 92 | (13.0%) | 33 | (28.0%) |
| Not evaluated | 0 | (0.0%) | 0 | (0.0%) |

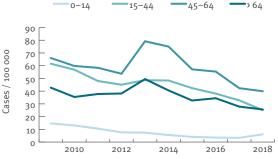
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

TB notification rates by treatment history, 2009-2018



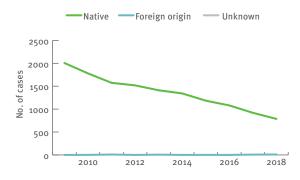
^a Starting from 2013 onward, cases with unknown history are included in new and relapses.

New and relapsed TB cases - notification rates by age group, 2009-2018°

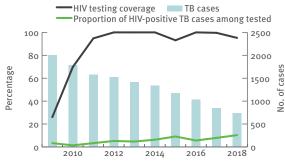


^a Data up to 2012 includes new TB cases only

TB cases by geographical origin, 2009-2018

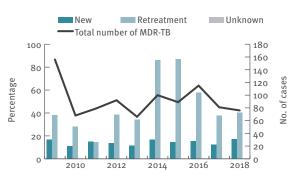


TB/HIV coinfection, 2009-2018a

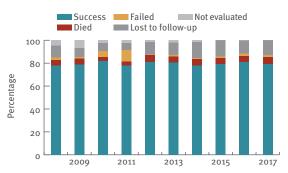


^a Data up to 2014 include all TB cases.

MDR-TB cases by previous treatment history, 2009-2018



Treatment outcome, new and relapsed TB cases, 2008-2017a



a 2008-2011 cohorts include new cases only.

Austria

Total population at 10 May 2019 by EUROSTAT: 8 822 267

TB case notifications, 2018

| Total number of cases | 482 | |
|---|------------|---------|
| Notification rate per 100 000 | 5.5 | |
| New ^a and relapses | 470 | |
| New ^a and relapses notification rate per 100 000 | 5.3 | |
| Pulmonary | 364 | (75.5%) |
| of which microscopy-positive | 119 | (32.7%) |
| of which laboratory-confirmed | 296 | (81.3%) |
| Laboratory-confirmed TB cases | 365 | (75.7%) |
| Mean age of new native TB cases | 57.9 years | |
| Mean age of new foreign TB cases | 32.8 | years |
| Foreign origin of all TB cases | 299 | (62.0%) |
| New (not previously treated) | 349 | (72.4%) |
| Estimate | | |
| Estimated new and relapsed cases N, (best-low-high) | 630-5 | 40-730 |

^a Cases with unknown previous TB history included in new cases.

Drug resistance surveillance and TB/HIV coinfection, 2018

| Completeness of DRS data ^a | Yes | |
|---|-----|---------|
| Completeness of HIV datab | - | |
| Case-linked data reporting | Yes | |
| Cases with DST results | 349 | (95.6%) |
| Estimated RR TB among notified bac conf pulmonary TB cases N, (best-low-high) | 11- | 4-18 |
| Pulmonary MDR-TB cases notified | 15 | (5.3%) |
| of which XDR-TB cases | 0 | (0.0%) |
| Notified MDR-TB | 18 | (5.2%) |
| of which XDR-TB cases | 0 | (0.0%) |
| TB cases tested for HIV | - | - |
| HIV-positive TB cases | - | - |
| of these on ART | - | - |
| | | |

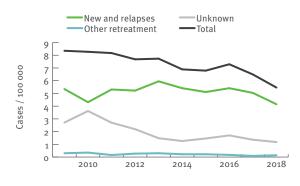
^a National coverage 100% or culturing ≥90%, C+/All TB cases >50%, DST done for C+ >75%, EQA ≥95%. ^b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

| Geographical coverage | Na | tional | | |
|----------------------------|---|---------|---|---------|
| Outcome cohort | New culture positive pulmonary TB cases notified in 2017° | | All MDR-TB cases notified in 2016 ^b | |
| Case-linked data reporting | , | /es | | |
| Cases notified | 266 | | 17 | |
| Success | 178 | (66.9%) | 11 | (64.7%) |
| Died | 20 | (7.5%) | 0 | (0.0%) |
| Failed | 0 | (0.0%) | 0 | (0.0%) |
| Lost to follow-up | 4 | (1.5%) | 1 | (5.9%) |
| Still on treatment | 35 | (13.2%) | 1 | (5.9%) |
| Not evaluated | 29 | (10.9%) | 4 | (23.5%) |

^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

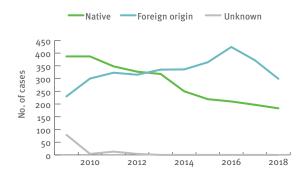
TB notification rates by treatment history, 2009-2018



New and relapsed TB cases – notification rates by age group, 2009-2018



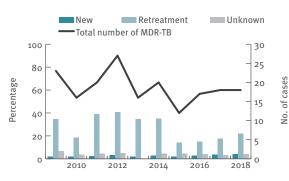
TB cases by geographical origin, 2009-2018

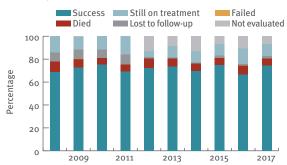


TB/HIV coinfection, 2009-2018

Data not available

MDR-TB cases by previous treatment history, 2009-2018





Treatment outcome monitoring

Bacteriologically confirmed new TB cases in 2017^a

1777 1492 (

⁹ Treatment outcome as presented is treatment outcome after 12 months. ¹⁰ Treatment outcome as presented is treatment outcome after 24 months.

30

109

121

25

(84.0%)

(1.7%)

(6.1%)

(6.8%)

(1.4%)

All RR/MDR-TB

cases enrolled into second-line treatment in 2016^b

112

134

72

0

(60.2%)

(14.0%)

(16.8%)

(9.0%)

(0.0%)

Geographical coverage

Outcome cohort

Case-linked data reporting

Cases notified

Lost to follow-up

Not evaluated

Success Died

Failed

Azerbaijan

Population estimate 2018 by UN Statistical Database: 9 949 537

TB case notifications, 2018

| Total number of cases | 6 896 | |
|---|---------------------|---------|
| Notification rate per 100 000 | 69.3 | |
| New ^a and relapses | 5038 | |
| New ^a and relapses notification rate per 100 000 | 50.6 | |
| Pulmonary | 4 021 | (79.8%) |
| of which microscopy-positive | | |
| of which laboratory-confirmed | 3 029 | (75.3%) |
| Laboratory-confirmed TB cases | 4824 | (70.0%) |
| Mean age of new native TB cases | 27.7 years | |
| Mean age of new foreign TB cases | - years | |
| Foreign origin of all TB cases | 0 | (0.0%) |
| New (not previously treated) | 3762 | (54.6%) |
| Estimate | | |
| Estimated new and relapsed cases N, (best-low-high) | 6300 (4800-8000) | |

^a Cases with unknown previous TB history included in new cases

TB notification rates by treatment history, 2009-2018

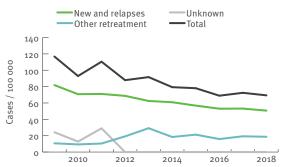
Drug resistance surveillance and TB/HIV coinfection, 2018

| Completeness of DRS data ^a | Yes | |
|---|---------|----------|
| Completeness of HIV data ^b | Yes | |
| Case-linked data reporting | Yes | |
| Cases with DST results | 4726 | (98.0%) |
| Estimated RR TB among notified bac conf pulmonary TB cases N, (best–low–high) | 960 (91 | 10-1000) |
| Pulmonary MDR-TB cases notified | 638 | (13.5%) |
| of which XDR-TB cases | - | - |
| Notified MDR-TB | 938 | (19.8%) |
| of which XDR-TB cases | 77 | (8.9%) |
| TB cases tested for HIV | 6483 | (128.7%) |
| HIV-positive TB cases | 87 | (1.3%) |
| of these on ART | 74 | (85.1%) |
| | | |

 $[^]a$ National coverage 100% or culturing 90%, C+/all TB cases >50%, DST done for C+ >75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

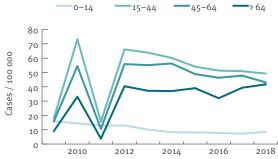
90%, C+/all TB

orted HIV status.



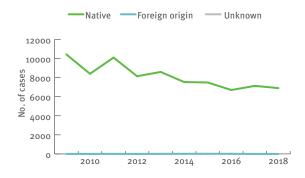
^a Starting from 2013 onward, cases with unknown history are included in new and relapses.

New and relapsed TB cases – notification rates by age group, $2009-2018^a$

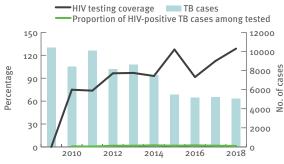


^a Data up to 2012 includes new TB cases only

TB cases by geographical origin, 2009-2018

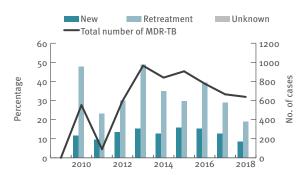


TB/HIV coinfection, 2009-2018a

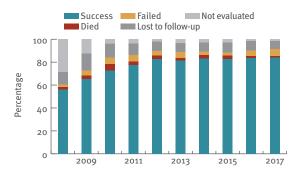


^a Data up to 2014 include all TB cases.

MDR-TB cases by previous treatment history, 2009-2018



Treatment outcome of new TB cases, 2008-2017



Belarus

Population estimate 2018 by UN Statistical Database: 9 452 617

TB case notifications, 2018

| Total number of cases | 2 5 4 2 | |
|---|------------------|---------|
| Notification rate per 100 000 | 26.9 | |
| New ^a and relapses | 2: | 359 |
| New ^a and relapses notification rate per 100 000 | 25.0 | |
| Pulmonary | 2 143 | (90.8%) |
| of which microscopy-positive | | |
| of which laboratory-confirmed | 1 981 | (92.4%) |
| Laboratory-confirmed TB cases | 2141 | (84.2%) |
| Mean age of new native TB cases | 48.1 years | |
| Mean age of new foreign TB cases | - years | |
| Foreign origin of all TB cases | 0 | (0.0%) |
| New (not previously treated) | 1886 | (74.2%) |
| Estimate | | |
| Estimated new and relapsed cases N, | 2900 (2300-3700) | |

^a Cases with unknown previous TB history included in new cases.

Drug resistance surveillance and TB/HIV coinfection, 2018

| Completeness of DRS data ^a | Υ | 'es |
|---|----------------|----------|
| Completeness of HIV datab | Yes | |
| Case-linked data reporting | Yes | |
| Cases with DST results | 2 141 (100.0% | |
| Estimated RR TB among notified bac conf pulmonary TB cases N, (best-low-high) | 980 (940-1000) | |
| Pulmonary MDR-TB cases notified | 984 | (46.0%) |
| of which XDR-TB cases | 185 | (18.8%) |
| Notified MDR-TB | 984 | (46.0%) |
| of which XDR-TB cases | 185 | (18.8%) |
| TB cases tested for HIV | 2359 | (100.0%) |
| HIV-positive TB cases | 182 | (7.7%) |
| of these on ART | 171 | (94.0%) |

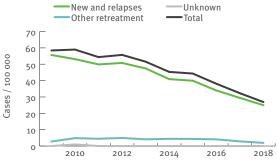
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

| Geographical coverage | Nat | ional | | |
|----------------------------|---|---------|---|---------|
| Outcome cohort | New and relapsed TB cases notified in 2017 ^a | | All RR/MDR-TB cases enrolled into second-line treatme in 2016 ^b | |
| Case-linked data reporting | Υ | es | | |
| Cases notified | 1 | 792 | 1 | 180 |
| Success | 1587 | (88.6%) | 796 | (67.5%) |
| Died | 98 | (5.5%) | 96 | (8.1%) |
| Failed | 47 | (2.6%) | 157 | (13.3%) |
| Lost to follow-up | 60 | (3.3%) | 115 | (9.7%) |
| Not evaluated | 0 | (0.0%) | 16 | (1.4%) |

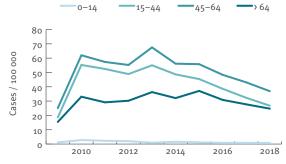
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

TB notification rates by treatment history, 2009-2018



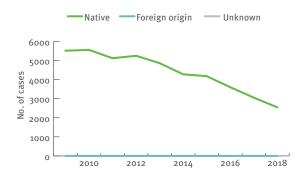
^a Starting from 2013 onward, cases with unknown history are included in new and relapses.

New and relapsed TB cases – notification rates by age group, $2009-2018^a$

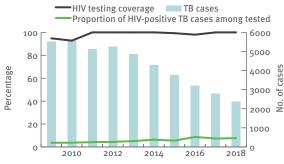


^a Data up to 2012 includes new TB cases only

TB cases by geographical origin, 2009-2018

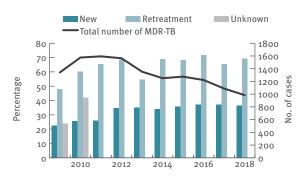


TB/HIV coinfection, 2009-2018a

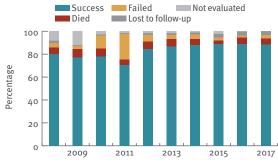


^a Data up to 2014 include all TB cases.

MDR-TB cases by previous treatment history, 2009–2018



Treatment outcome, new and relapsed TB cases, 2008–2017^a



 $^{\mbox{\tiny a}}$ 2008–2011 cohorts include new cases only.

Belgium

Total population at 10 May 2019 by EUROSTAT: 11 398 589

TB case notifications, 2018

| Total number of cases | 981 | |
|---|---------------|---------|
| Notification rate per 100 000 | 8.6 | |
| New ^a and relapses | 913 | |
| New ^a and relapses notification rate per 100 000 | 8.0 | |
| Pulmonary | 703 | (71.7%) |
| of which microscopy-positive | 312 | (44.4%) |
| of which laboratory-confirmed | 551 | (78.4%) |
| Laboratory-confirmed TB cases | 730 | (74.4%) |
| Mean age of new native TB cases | 45.0 years | |
| Mean age of new foreign TB cases | 34.1 years | |
| Foreign origin of all TB cases | 511 | (52.1%) |
| New (not previously treated) | 757 | (77.2%) |
| Estimate | | |
| Estimated new and relapsed cases N, (best-low-high) | 1000-880-1200 | |

^a Cases with unknown previous TB history included in new cases.

Drug resistance surveillance and TB/HIV coinfection, 2018

| Completeness of DRS data ^a | ١ | /es |
|---|-------------|---------|
| Completeness of HIV datab | Yes | |
| Case-linked data reporting | Yes | |
| Cases with DST results | 695 (95.2%) | |
| Estimated RR TB among notified bac conf pulmonary TB cases N, (best–low–high) | 13 | -5-21 |
| Pulmonary MDR-TB cases notified | 7 | (1.3%) |
| of which XDR-TB cases | 3 | (42.9%) |
| Notified MDR-TB | 7 | (1.0%) |
| of which XDR-TB cases | 3 | (42.9%) |
| TB cases tested for HIV | 503 | (51.3%) |
| HIV-positive TB cases | 36 | (7.2%) |
| of these on ART | - | - |
| | | |

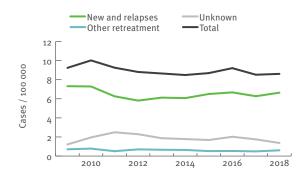
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases \gt 50%, DST done for C+ \gt 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

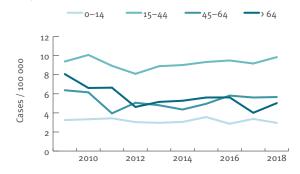
| Geographical coverage | Nat | ional | | |
|----------------------------|---------|--|--------------------------------------|---------|
| Outcome cohort | pulmona | re positive ry TB cases I in 2017ª | All MDR-TB cases notified in 2016 | |
| Case-linked data reporting | ١ | 'es | | |
| Cases notified | 4 | 435 | | 10 |
| Success | 344 | (79.1%) | 9 | (90.0%) |
| Died | 31 | (7.1%) | 0 | (0.0%) |
| Failed | 0 | (0.0%) | 0 | (0.0%) |
| Lost to follow-up | 43 | (9.9%) | 1 | (10.0%) |
| Still on treatment | 6 | (1.4%) | 0 | (0.0%) |
| Not evaluated | 11 | (2.5%) | 0 | (0.0%) |

^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

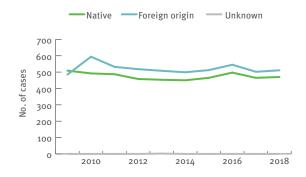
TB notification rates by treatment history, 2009-2018



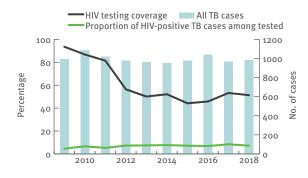
New and relapsed TB cases – notification rates by age group, 2009-2018



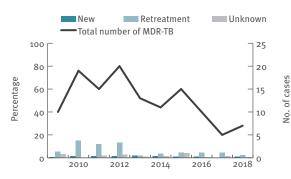
TB cases by geographical origin, 2009-2018

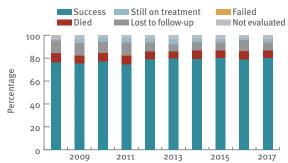


TB/HIV coinfection, 2009-2018



MDR-TB cases by previous treatment history, 2009-2018





Bosnia and Herzegovina

Population estimate 2018 by UN Statistical Database: 3 323 925

TB case notifications, 2018

| Total number of cases | 669 | |
|---|------------|----------|
| Notification rate per 100 000 | 20.1 | |
| New ^a and relapses | 666 | |
| New ^a and relapses notification rate per 100 000 | 20.0 | |
| Pulmonary | 600 | (90.1%) |
| of which microscopy-positive | | |
| of which laboratory-confirmed | 448 | (74.7%) |
| Laboratory-confirmed TB cases | 448 | (67.0%) |
| Mean age of new native TB cases | 52.8 years | |
| Mean age of new foreign TB cases | - | years |
| Foreign origin of all TB cases | 0 | (0.0%) |
| New (not previously treated) | 617 | (92.2%) |
| Estimate | | |
| Estimated new and relapsed cases N, (best-low-high) | 830 (6 | 40-1100) |

^a Cases with unknown previous TB history included in new cases.

Drug resistance surveillance and TB/HIV coinfection, 2018

| Completeness of DRS data ^a | Υ | 'es |
|--|-----|---------|
| Completeness of HIV datab | - 1 | No |
| Case-linked data reporting | Υ | 'es |
| Cases with DST results | 426 | (95.1%) |
| Estimated RR-TB among notified bac conf pulmonary cases N, (best-low-high) | 2 (| (0-5) |
| Pulmonary MDR-TB cases notified | 0 | (0.0%) |
| of which XDR-TB cases | - | - |
| Notified MDR-TB | 2 | (0.5%) |
| of which XDR-TB cases | - | - |
| TB cases tested for HIV | 0 | (0.0%) |
| HIV-positive TB cases | - | - |
| of these on ART | - | - |
| | | |

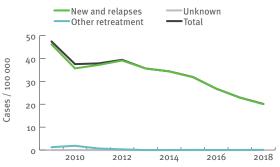
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases \gt 50%, DST done for C+ \gt 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

| Geographical coverage | Nat | tional | | |
|----------------------------|---------|------------------------------------|---|-------------------------|
| Outcome cohort | TB case | d relapsed es notified 2017ª | All RR/N cases enr second-line in 20 | olled into treatment |
| Case-linked data reporting | ١ | /es | | |
| Cases notified | 7 | 766 | C |) |
| Success | 343 | (44.8%) | - | - |
| Died | 47 | (6.1%) | - | - |
| Failed | 17 | (2.2%) | - | - |
| Lost to follow-up | 4 | (0.5%) | - | - |
| Not evaluated | 355 | (46.3%) | - | - |

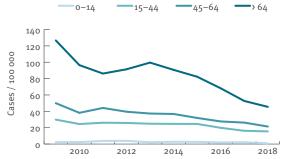
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

TB notification rates by treatment history, 2009-2018



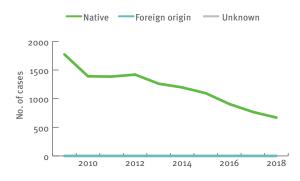
^a Starting from 2013 onward, cases with unknown history are included in new and relapses.

New and relapsed TB cases – notification rates by age group, $2009-2018^{a}$

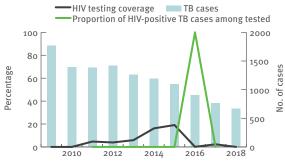


^a Data up to 2012 includes new TB cases only

TB cases by geographical origin, 2009-2018

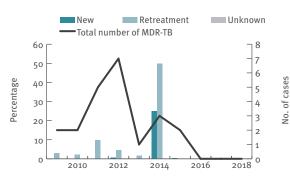


TB/HIV coinfection, 2009-2018a

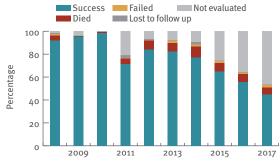


^a Data up to 2014 include all TB cases.

MDR-TB cases by previous treatment history, 2009–2018



Treatment outcome, new and relapsed TB cases, 2008–2017^a



 $^{^{\}mbox{\tiny a}}$ 2008–2011 cohorts include new cases only.

Bulgaria

Total population at 10 May 2019 by EUROSTAT: 7 050 034

TB case notifications, 2018

| Total number of cases | 1,358 | |
|---|-------------------|---------|
| Notification rate per 100 000 | 19.3 | |
| New ^a and relapses | 1,290 | |
| New ^a and relapses notification rate per 100 000 | 18.3 | |
| Pulmonary | 1063 | (78.3%) |
| of which microscopy-positive | 520 | (48.9%) |
| of which laboratory-confirmed | 597 | (56.2%) |
| Laboratory-confirmed TB cases | 618 | (45.5%) |
| Mean age of new native TB cases | 48.0 years | |
| Mean age of new foreign TB cases | 50.9 | years |
| Foreign origin of all TB cases | 8 | (0.6%) |
| New (not previously treated) | 1163 | (85.6%) |
| Estimate | | |
| Estimated new and relapsed cases N, (best-low-high) | 1 600-1 200-2 000 | |
| | | |

^a Cases with unknown previous TB history included in new cases.

Drug resistance surveillance and TB/HIV coinfection, 2018

| Completeness of DRS data ^a | Υ | 'es |
|---|-------|---------|
| Completeness of HIV datab | Υ | 'es |
| Case-linked data reporting | Υ | 'es |
| Cases with DST results | 551 | (89.2%) |
| Estimated RR TB among notified bac conf pulmonary TB cases N, (best–low–high) | 24- | 15-33 |
| Pulmonary MDR-TB cases notified | 24 | (4.5%) |
| of which XDR-TB cases | 0 | (0.0%) |
| Notified MDR-TB | 24 | (4.4%) |
| of which XDR-TB cases | 0 | (0.0%) |
| TB cases tested for HIV | 1 118 | (82.3%) |
| HIV-positive TB cases | 0 | (0.0%) |
| of these on ART | 0 | - |
| | | |

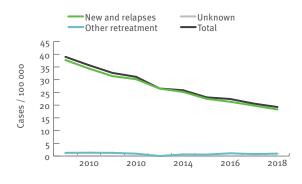
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases \gt 50%, DST done for C+ \gt 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

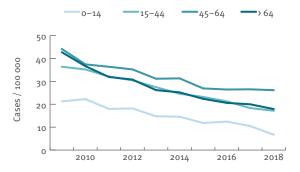
| Geographical coverage | Nat | ional | | |
|----------------------------|---------|---|----|--------------------------------------|
| Outcome cohort | pulmona | ure positive ry TB cases d in 2017° | | R-TB cases d in 2016 ^b |
| Case-linked data reporting | Υ | 'es | | |
| Cases notified | 588 | | | 19 |
| Success | 484 | (82.3%) | 10 | (52.6%) |
| Died | 55 | (9.4%) | 6 | (31.6%) |
| Failed | 10 | (1.7%) | 3 | (15.8%) |
| Lost to follow-up | 33 | (5.6%) | 0 | (0.0%) |
| Still on treatment | 5 | (0.9%) | 0 | (0.0%) |
| Not evaluated | 1 | (0.2%) | 0 | (0.0%) |

^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

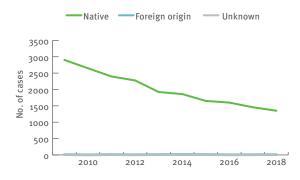
TB notification rates by treatment history, 2009-2018



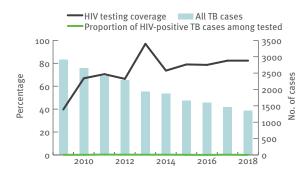
New and relapsed TB cases – notification rates by age group, 2009–2018



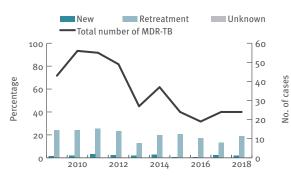
TB cases by geographical origin, 2009-2018

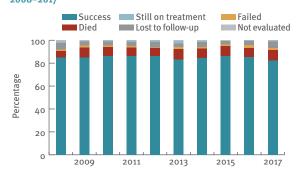


TB/HIV coinfection, 2009-2018



MDR-TB cases by previous treatment history, 2009-2018





Croatia

Total population at 10 May 2019 by EUROSTAT: 4 105 493

TB case notifications, 2018

| Total number of cases | 372 | |
|---|------------|---------|
| Notification rate per 100 000 | 9.1 | |
| New ^a and relapses | 364 | |
| New ^a and relapses notification rate per 100 000 | 8.9 | |
| Pulmonary | 319 | (85.8%) |
| of which microscopy-positive | 154 | (48.3%) |
| of which laboratory-confirmed | 287 | (90.0%) |
| Laboratory-confirmed TB cases | 325 | (87.4%) |
| Mean age of new native TB cases | 57.0 years | |
| Mean age of new foreign TB cases | 68.3 years | |
| Foreign origin of all TB cases | 4 | (1.1%) |
| New (not previously treated) | 291 | (78.2%) |
| Estimate | | |
| Estimated new and relapsed cases N, (best-low-high) | 350-3 | 00-400 |

^a Cases with unknown previous TB history included in new cases

Drug resistance surveillance and TB/HIV coinfection, 2018

| Completeness of DRS data ^a | , | res . |
|---|------------|--------|
| Completeness of HIV datab | No | |
| Case-linked data reporting | Yes | |
| Cases with DST results | 295 (90.8% | |
| Estimated RR TB among notified bac conf pulmonary TB cases N, (best-low-high) | 0 | -0-3 |
| Pulmonary MDR-TB cases notified | 2 | (0.8%) |
| of which XDR-TB cases | 0 | - |
| Notified MDR-TB | 2 | (0.7%) |
| of which XDR-TB cases | 0 | - |
| TB cases tested for HIV | 2 | (0.5%) |
| HIV-positive TB cases | 0 | (0.0%) |
| of these on ART | - | - |
| | | |

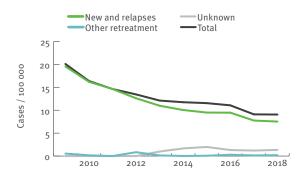
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases $^{\flat}$ 50%, DST done for C+ $^{\flat}$ 775%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

| Geographical coverage | Na | tional | | |
|----------------------------|---|---------|---|----------------------------------|
| Outcome cohort | New culture positive pulmonary TB cases notified in 2017 ^a | | | TB cases in 2016 ^b |
| Case-linked data reporting | 1 | Yes | | |
| Cases notified | | 241 | | 0 |
| Success | 163 | (67.6%) | 0 | - |
| Died | 39 | (16.2%) | 0 | - |
| Failed | 0 | (0.0%) | 0 | - |
| Lost to follow-up | 5 | (2.1%) | 0 | - |
| Still on treatment | 18 | (7.5%) | 0 | - |
| Not evaluated | 16 | (6.6%) | 0 | - |
| | | | | |

^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

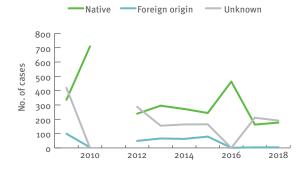
TB notification rates by treatment history, 2009-2018



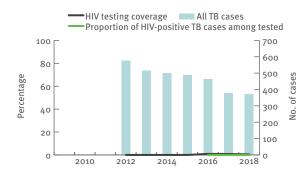
New and relapsed TB cases – notification rates by age group, 2009-2018



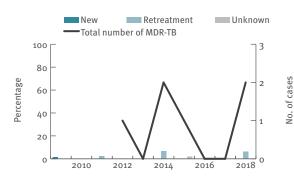
TB cases by geographical origin, 2009-2018

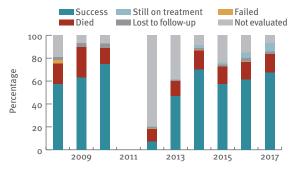


TB/HIV coinfection, 2009-2018



MDR-TB cases by previous treatment history, 2009-2018





Cyprus

Total population at 10 May 2019 by EUROSTAT: 864 236

TB case notifications, 2018

| Total number of cases | | 52 |
|---|------------|---------|
| Notification rate per 100 000 | 6.0 | |
| New ^a and relapses | | 51 |
| New ^a and relapses notification rate per 100 000 | 5.9 | |
| Pulmonary | 42 | (80.8%) |
| of which microscopy-positive | 14 | (33.3%) |
| of which laboratory-confirmed | 35 | (83.3%) |
| Laboratory-confirmed TB cases | 40 | (76.9%) |
| Mean age of new native TB cases | 48.5 years | |
| Mean age of new foreign TB cases | 35.6 | years |
| Foreign origin of all TB cases | 49 | (94.2%) |
| New (not previously treated) | 47 | (90.4%) |
| Estimate | | |
| Estimated new and relapsed cases N, (best-low-high) | 65 | 55-75 |
| | | |

^a Cases with unknown previous TB history included in new cases.

Drug resistance surveillance and TB/HIV coinfection, 2018

| Completeness of DRS data ^a | Yes | |
|---|------------|---------|
| Completeness of HIV datab | Yes | |
| Case-linked data reporting | Yes | |
| Cases with DST results | 39 (97.5%) | |
| Estimated RR TB among notified bac conf pulmonary TB cases N, (best-low-high) | 0 | -0-2 |
| Pulmonary MDR-TB cases notified | 0 | (0.0%) |
| of which XDR-TB cases | 0 | - |
| Notified MDR-TB | 0 | (0.0%) |
| of which XDR-TB cases | 0 | - |
| TB cases tested for HIV | 41 | (78.8%) |
| HIV-positive TB cases | 1 | (2.4%) |
| of these on ART | - | - |
| | | |

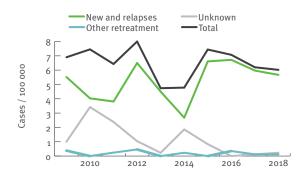
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases \gt 50%, DST done for C+ \gt 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

| Geographical coverage | Na | tional | | |
|----------------------------|---------|---|---|----------------------------------|
| Outcome cohort | pulmona | ure positive ry TB cases d in 2017ª | | TB cases in 2016 ^b |
| Case-linked data reporting | , | Yes | | |
| Cases notified | 33 | | | 1 |
| Success | 19 | (57.6%) | 0 | - |
| Died | 1 | (3.0%) | 0 | - |
| Failed | 0 | (0.0%) | 0 | - |
| Lost to follow-up | 0 | (0.0%) | 0 | - |
| Still on treatment | 5 | (15.2%) | 0 | - |
| Not evaluated | 8 | (24.2%) | 1 | - |
| | | | | |

^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

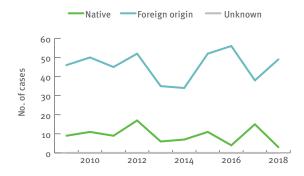
TB notification rates by treatment history, 2009-2018



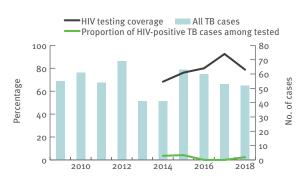
New and relapsed TB cases – notification rates by age group, 2009-2018



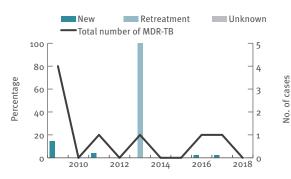
TB cases by geographical origin, 2009-2018

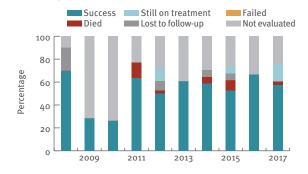


TB/HIV coinfection, 2009-2018



MDR-TB cases by previous treatment history, 2009-2018





Czech Republic

Total population at 10 May 2019 by FUROSTAT: 10 610 055

TB case notifications, 2018

| Total number of cases | 444 | |
|---|-------------|---------|
| Notification rate per 100 000 | 4.2 | |
| New ^a and relapses | 435 | |
| New ^a and relapses notification rate per 100 000 | 4.1 | |
| Pulmonary | 397 | (89.4%) |
| of which microscopy-positive | 165 | (41.6%) |
| of which laboratory-confirmed | 325 | (81.9%) |
| Laboratory-confirmed TB cases | 361 | (81.3%) |
| Mean age of new native TB cases | 55.5 years | |
| Mean age of new foreign TB cases | 39.1 years | |
| Foreign origin of all TB cases | 147 | (33.1%) |
| New (not previously treated) | 413 | (93.0%) |
| Estimate | | |
| Estimated new and relapsed cases N, (best-low-high) | 580-500-670 | |

^a Cases with unknown previous TB history included in new cases.

Drug resistance surveillance and TB/HIV coinfection, 2018

| Completeness of DRS data ^a | Yes | |
|---|------------|---------|
| Completeness of HIV datab | No | |
| Case-linked data reporting | Yes | |
| Cases with DST results | 327 (90.6% | |
| Estimated RR TB among notified bac conf pulmonary TB cases N, (best-low-high) | 10 | -4-17 |
| Pulmonary MDR-TB cases notified | 10 | (3.4%) |
| of which XDR-TB cases | 0 | (0.0%) |
| Notified MDR-TB | 12 | (3.7%) |
| of which XDR-TB cases | 1 | (8.3%) |
| TB cases tested for HIV | 190 | (42.8%) |
| HIV-positive TB cases | 4 | (2.1%) |
| of these on ART | - | - |
| | | |

 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases \gt 50%, DST done for C+ \gt 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

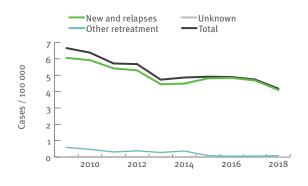
No. of cases

Treatment outcome monitoring

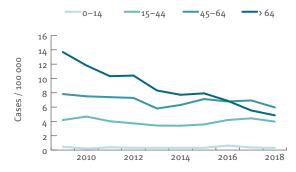
| Geographical coverage | Nat | tional | | |
|----------------------------|---------|---|---|--------------------------------------|
| Outcome cohort | pulmona | ure positive ry TB cases d in 2017ª | | R-TB cases d in 2016 ^b |
| Case-linked data reporting | ١ | /es | | |
| Cases notified | | 318 | | 6 |
| Success | 220 | (69.2%) | 1 | (16.7%) |
| Died | 39 | (12.3%) | 2 | (33.3%) |
| Failed | 1 | (0.3%) | 0 | (0.0%) |
| Lost to follow-up | 36 | (11.3%) | 1 | (16.7%) |
| Still on treatment | 13 | (4.1%) | 1 | (16.7%) |
| Not evaluated | 9 | (2.8%) | 1 | (16.7%) |
| | | | | |

^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

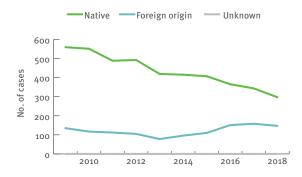
TB notification rates by treatment history, 2009-2018



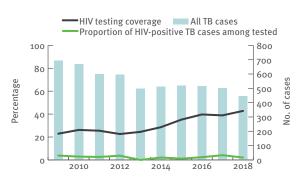
New and relapsed TB cases – notification rates by age group, 2009-2018



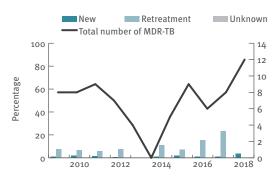
TB cases by geographical origin, 2009-2018

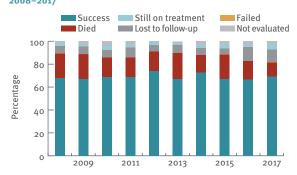


TB/HIV coinfection, 2009-2018



MDR-TB cases by previous treatment history, 2009-2018





Denmark

Total population at 10 May 2019 by EUROSTAT: 5 781 190

TB case notifications, 2018

| Total number of cases | | 291 |
|---|------------|---------|
| Notification rate per 100 000 | 5.0 | |
| New ^a and relapses | 270 | |
| New ^a and relapses notification rate per 100 000 | 4.7 | |
| Pulmonary | 221 | (75.9%) |
| of which microscopy-positive | 106 | (48.0%) |
| of which laboratory-confirmed | 174 | (78.7%) |
| Laboratory-confirmed TB cases | 221 | (75.9%) |
| Mean age of new native TB cases | 46.8 years | |
| Mean age of new foreign TB cases | 41.0 | years |
| Foreign origin of all TB cases | 198 | (68.0%) |
| New (not previously treated) | 270 | (92.8%) |
| Estimate | | |
| Estimated new and relapsed cases N, (best-low-high) | 310-2 | 70-360 |

^a Cases with unknown previous TB history included in new cases.

Drug resistance surveillance and TB/HIV coinfection, 2018

| Completeness of DRS data ^a | Yes | |
|---|------------|---------|
| Completeness of HIV datab | Yes | |
| Case-linked data reporting | Yes | |
| Cases with DST results | 218 (98.6% | |
| Estimated RR TB among notified bac conf pulmonary TB cases N, (best–low–high) | 4 | -0-9 |
| Pulmonary MDR-TB cases notified | 4 | (2.3%) |
| of which XDR-TB cases | 0 | (0.0%) |
| Notified MDR-TB | 4 | (1.8%) |
| of which XDR-TB cases | 0 | (0.0%) |
| TB cases tested for HIV | 234 | (80.4%) |
| HIV-positive TB cases | 3 | (1.3%) |
| of these on ART | - | - |
| | | |

 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases \gt 50%, DST done for C+ \gt 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

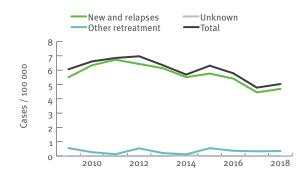
No. of cases

Treatment outcome monitoring

| Geographical coverage | Na | tional | | |
|----------------------------|---------|---|---|--------------------------------------|
| Outcome cohort | pulmona | ure positive ry TB cases d in 2017ª | | R-TB cases d in 2016 ^b |
| Case-linked data reporting | , | Yes | | |
| Cases notified | 157 | | 4 | |
| Success | 67 | (42.7%) | 3 | (75.0%) |
| Died | 2 | (1.3%) | 0 | (0.0%) |
| Failed | 1 | (0.6%) | 0 | (0.0%) |
| Lost to follow-up | 0 | (0.0%) | 0 | (0.0%) |
| Still on treatment | 2 | (1.3%) | 0 | (0.0%) |
| Not evaluated | 85 | (54.1%) | 1 | (25.0%) |

^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

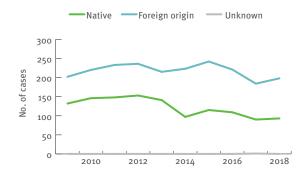
TB notification rates by treatment history, 2009-2018



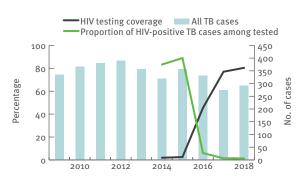
New and relapsed TB cases – notification rates by age group, 2009-2018



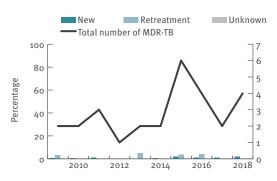
TB cases by geographical origin, 2009-2018

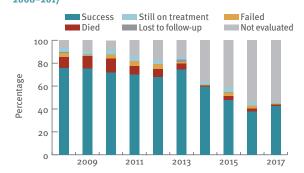


TB/HIV coinfection, 2009-2018



MDR-TB cases by previous treatment history, 2009-2018





Total population at 10 May 2019 by EUROSTAT: 1319 133

TB case notifications, 2018

| Total number of cases | | 147 |
|---|------------|---------|
| Notification rate per 100 000 | 11.1 | |
| New ^a and relapses | 145 | |
| New ^a and relapses notification rate per 100 000 | 11.0 | |
| Pulmonary | 138 | (93.9%) |
| of which microscopy-positive | 73 | (52.9%) |
| of which laboratory-confirmed | 121 | (87.7%) |
| Laboratory-confirmed TB cases | 125 | (85.0%) |
| Mean age of new native TB cases | 47.9 years | |
| Mean age of new foreign TB cases | 57.3 years | |
| Foreign origin of all TB cases | 32 | (21.8%) |
| New (not previously treated) | 121 | (82.3%) |
| Estimate | | |
| Estimated new and relapsed cases N, (hest-low-high) | 170- | 140-190 |

^a Cases with unknown previous TB history included in new cases.

Drug resistance surveillance and TB/HIV coinfection, 2018

| Completeness of DRS data ^a | , | /es |
|---|------------|---------|
| Completeness of HIV datab | Yes | |
| Case-linked data reporting | Yes | |
| Cases with DST results | 122 (97.69 | |
| Estimated RR TB among notified bac conf pulmonary TB cases N, (best–low–high) | 33- | 24-43 |
| Pulmonary MDR-TB cases notified | 30 | (25.4%) |
| of which XDR-TB cases | 8 | (26.7%) |
| Notified MDR-TB | 30 | (24.6%) |
| of which XDR-TB cases | 8 | (26.7%) |
| TB cases tested for HIV | 137 | (93.2%) |
| HIV-positive TB cases | 13 | (9.5%) |
| of these on ART | 10 | (76.9%) |
| | | |

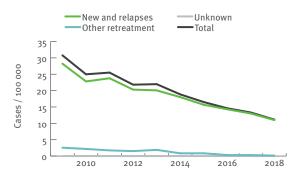
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases \gt 50%, DST done for C+ \gt 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

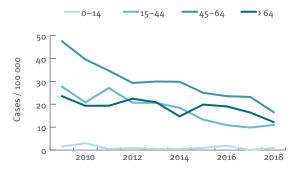
| Geographical coverage | Na | tional | | |
|----------------------------|---------|---|-------------------------------------|---------|
| Outcome cohort | pulmona | ure positive ry TB cases d in 2017ª | All MDR-TB case notified in 2016 | |
| Case-linked data reporting | | Yes | | |
| Cases notified | 119 | | | 24 |
| Success | 77 | (64.7%) | 17 | (70.8%) |
| Died | 18 | (15.1%) | 5 | (20.8%) |
| Failed | 1 | (0.8%) | 1 | (4.2%) |
| Lost to follow-up | 2 | (1.7%) | 0 | (0.0%) |
| Still on treatment | 21 | (17.6%) | 1 | (4.2%) |
| Not evaluated | 0 | (0.0%) | 0 | (0.0%) |
| | | | | |

^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

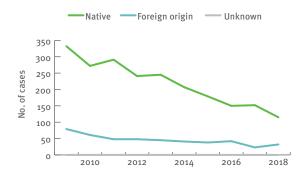
TB notification rates by treatment history, 2009-2018



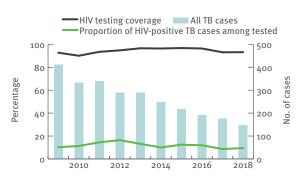
New and relapsed TB cases - notification rates by age group, 2009-2018



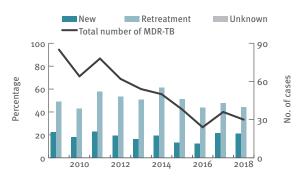
TB cases by geographical origin, 2009-2018

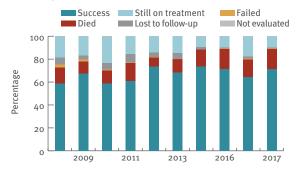


TB/HIV coinfection, 2009-2018



MDR-TB cases by previous treatment history, 2009-2018





Finland

Total population at 10 May 2019 by EUROSTAT: 5 513 130

TB case notifications, 2018

| Total number of cases | 1 | 230 |
|---|-------|---------|
| Notification rate per 100 000 | | 4.2 |
| New ^a and relapses | - 1 | 229 |
| New ^a and relapses notification rate per 100 000 | | 4.2 |
| Pulmonary | 155 | (67.4%) |
| of which microscopy-positive | 51 | (32.9%) |
| of which laboratory-confirmed | 136 | (87.7%) |
| Laboratory-confirmed TB cases | 194 | (84.3%) |
| Mean age of new native TB cases | 72.5 | years |
| Mean age of new foreign TB cases | 36.9 | years |
| Foreign origin of all TB cases | 92 | (40.0%) |
| New (not previously treated) | 222 | (96.5%) |
| Estimate | | |
| Estimated new and relapsed cases N, (best-low-high) | 260-2 | 220-300 |

^a Cases with unknown previous TB history included in new cases.

Drug resistance surveillance and TB/HIV coinfection, 2018

| Completeness of DRS data ^a | Yes | |
|---|-----|---------|
| Completeness of HIV datab | - | |
| Case-linked data reporting | Yes | |
| Cases with DST results | 182 | (93.8%) |
| Estimated RR TB among notified bac conf pulmonary TB cases N, (best–low–high) | 6 | 1-10 |
| Pulmonary MDR-TB cases notified | 4 | (3.1%) |
| of which XDR-TB cases | 1 | (25.0%) |
| Notified MDR-TB | 4 | (2.2%) |
| of which XDR-TB cases | 1 | (25.0%) |
| TB cases tested for HIV | - | - |
| HIV-positive TB cases | - | - |
| of these on ART | - | - |
| | | |

 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases \gt 50%, DST done for C+ \gt 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

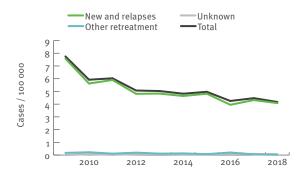
No. of cases

Treatment outcome monitoring

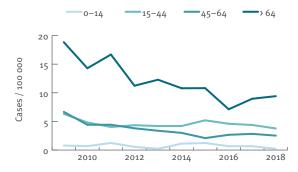
| Geographical coverage | Na | tional | | |
|----------------------------|---|---------|--------------------------------------|---------|
| Outcome cohort | New culture positive pulmonary TB cases notified in 2017° | | All MDR-TB case: notified in 2016 | |
| Case-linked data reporting | , | Yes | | |
| Cases notified | 138 | | 6 | |
| Success | 75 | (54.3%) | 4 | (66.7%) |
| Died | 0 | (0.0%) | 0 | (0.0%) |
| Failed | 1 | (0.7%) | 0 | (0.0%) |
| Lost to follow-up | 1 | (0.7%) | 1 | (16.7%) |
| Still on treatment | 3 | (2.2%) | 0 | (0.0%) |
| Not evaluated | 58 | (42.0%) | 1 | (16.7%) |
| | | | | |

 $^{^{\}rm a}$ Treatment outcome as presented is treatment outcome after 12 months. $^{\rm b}$ Treatment outcome as presented is treatment outcome after 24 months.

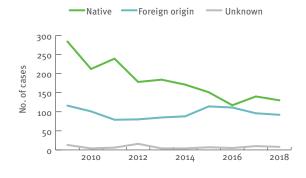
TB notification rates by treatment history, 2009-2018



New and relapsed TB cases – notification rates by age group, 2009-2018



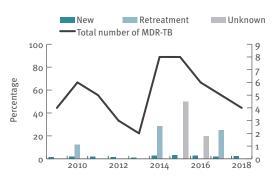
TB cases by geographical origin, 2009-2018

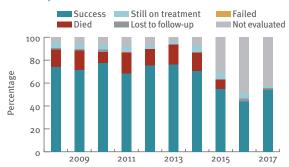


TB/HIV coinfection, 2009-2018

Data not available

MDR-TB cases by previous treatment history, 2009-2018





France

Total population at 10 May 2019 by EUROSTAT: 66 926 166

TB case notifications, 2018

| Total number of cases | 5,092 | |
|---|-------------------|---------|
| Notification rate per 100 000 | 7.6 | |
| New ^a and relapses | 4,779 | |
| New ^a and relapses notification rate per 100 000 | 7.1 | |
| Pulmonary | 3,583 | (70.4%) |
| of which microscopy-positive | 1,652 | - |
| of which laboratory-confirmed | 1,659 | (46.3%) |
| Laboratory-confirmed TB cases | 2,234 | (43.9%) |
| Mean age of new native TB cases | 48.7 years | |
| Mean age of new foreign TB cases | 37.2 years | |
| Foreign origin of all TB cases | 3,142 | (61.7%) |
| New (not previously treated) | - | - |
| Estimate | | |
| Estimated new and relapsed cases N, (best-low-high) | 5 800-5 100-6 500 | |

^a Cases with unknown previous TB history included in new cases

Drug resistance surveillance and TB/HIV coinfection, 2018

| Completeness of DRS data ^a | Yes | |
|---|-----------|----------|
| Completeness of HIV datab | | - |
| Case-linked data reporting | | No |
| Cases with DST results | 82 (1.6%) | |
| Estimated RR TB among notified bac conf pulmonary TB cases N, (best-low-high) | 43 | -31-54 |
| Pulmonary MDR-TB cases notified | 66 | (100.0%) |
| of which XDR-TB cases | 8 | (13.1%) |
| Notified MDR-TB | 82 | (100.0%) |
| of which XDR-TB cases | 8 | (10.5%) |
| TB cases tested for HIV | - | - |
| HIV-positive TB cases | - | - |
| of these on ART | - | - |
| | | |

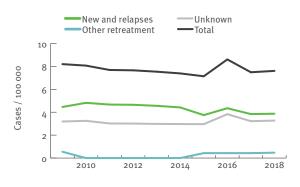
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases \gt 50%, DST done for C+ \gt 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

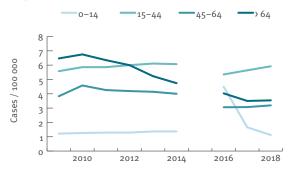
| Geographical coverage | Nat | tional | | |
|----------------------------|---------|---|---|----------------------------------|
| Outcome cohort | pulmona | ure positive ry TB cases d in 2017ª | | TB cases in 2016 ^b |
| Case-linked data reporting | ١ | /es | | |
| Cases notified | 1 | 041 | | - |
| Success | 325 | (31.2%) | - | - |
| Died | 31 | (3.0%) | - | - |
| Failed | 0 | (0.0%) | - | - |
| Lost to follow-up | 25 | (2.4%) | - | - |
| Still on treatment | 9 | (0.9%) | - | - |
| Not evaluated | 651 | (62.5%) | - | - |
| | | | | |

^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

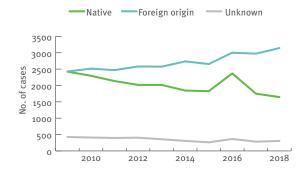
TB notification rates by treatment history, 2009-2018



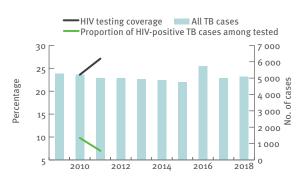
New and relapsed TB cases – notification rates by age group, 2009-2018



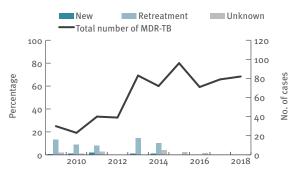
TB cases by geographical origin, 2009-2018



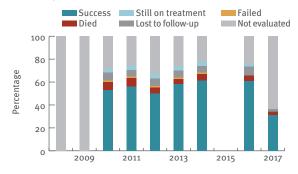
TB/HIV coinfection, 2009-2018



MDR-TB cases by previous treatment history, 2009-2018



In 2018, the bars show 100% since France reported INH and RIF data only for MDR cases.



Georgia

Population estimate 2018 by UN Statistical Database: 4 002 942

TB case notifications, 2018

| Total number of cases | 2 590 | |
|---|------------------|---------|
| Notification rate per 100 000 | 64.7 | |
| New ^a and relapses | 2316 | |
| New ^a and relapses notification rate per 100 000 | 57.9 | |
| Pulmonary | 1863 | (80.4%) |
| of which microscopy-positive | | |
| of which laboratory-confirmed | 1628 | (87.4%) |
| Laboratory-confirmed TB cases | 1862 | (71.9%) |
| Mean age of new native TB cases | 42.5 years | |
| Mean age of new foreign TB cases | - years | |
| Foreign origin of all TB cases | 0 | (0.0%) |
| New (not previously treated) | 1944 | (75.1%) |
| Estimate | | |
| Estimated new and relapsed cases N, | 3200 (2700-3800) | |

^a Cases with unknown previous TB history included in new cases.

Drug resistance surveillance and TB/HIV coinfection, 2018

| Completeness of DRS data ^a | Υ | 'es |
|---|--------|----------|
| Completeness of HIV datab | Υ | es |
| Case-linked data reporting | Υ | es |
| Cases with DST results | 1756 | (94.3%) |
| Estimated RR TB among notified bac conf pulmonary TB cases N, (best–low–high) | 320 (2 | 90-360) |
| Pulmonary MDR-TB cases notified | 167 | (9.5%) |
| of which XDR-TB cases | 34 | (21.4%) |
| Notified MDR-TB | 297 | (16.9%) |
| of which XDR-TB cases | 49 | (23.2%) |
| TB cases tested for HIV | 2174 | (93.9%) |
| HIV-positive TB cases | 45 | (2.1%) |
| of these on ART | 45 | (100.0%) |
| | | |

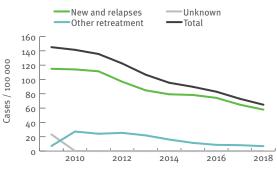
^a National coverage 100% or culturing ≥ 90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA ≥ 95%. ^b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

| Geographical coverage | Nat | ional | | |
|----------------------------|----------|------------------------|------------------------|--|
| Outcome cohort | TB case: | relapsed s notified | cases er second-lir | /MDR-TB irolled into ne treatment 2016 ^b |
| Case-linked data reporting | Υ | es | | |
| Cases notified | 2 | 351 | 3 | 39 |
| Success | 1 977 | (84.1%) | 222 | (65.5%) |
| Died | 85 | (3.6%) | 20 | (5.9%) |
| Failed | 61 | (2.6%) | 18 | (5.3%) |
| Lost to follow-up | 143 | (6.1%) | 65 | (19.2%) |
| Not evaluated | 85 | (3.6%) | 14 | (4.1%) |

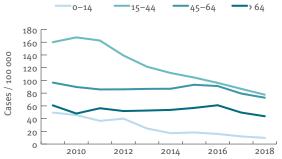
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

TB notification rates by treatment history, 2009-2018



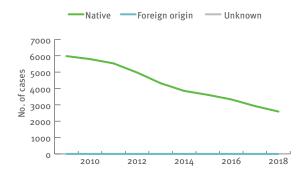
^a Starting from 2013 onward, cases with unknown history are included in new and relapses.

New TB cases – notification rates by age group, 2009–2018^a



a Data up to 2012 includes new TB cases only

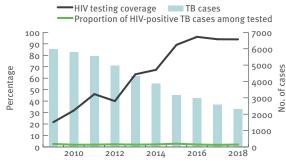
TB cases by geographical origin, 2009-2018



MDR-TB cases by previous treatment history, 2009–2018

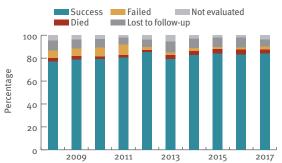


TB/HIV coinfection, 2009-2018a



^a Data up to 2014 include all TB cases.

Treatment outcome, new culture-confirmed pulmonary TB cases, $2008-2017^a$



^a 2008–2011 cohorts include new cases only.

Germany

Total population at 10 May 2019 by FUROSTAT: 82 792 35

TB case notifications, 2018

| Total number of cases | 5 429 | |
|---|-------------------|---------|
| Notification rate per 100 000 | 6.6 | |
| New ^a and relapses | 5 265 | |
| New ^a and relapses notification rate per 100 000 | 6.4 | |
| Pulmonary | 3 916 | (72.1%) |
| of which microscopy-positive | 1901 | (48.5%) |
| of which laboratory-confirmed | 3 159 | (80.7%) |
| Laboratory-confirmed TB cases | 4 127 | (76.0%) |
| Mean age of new native TB cases | 51.7 years | |
| Mean age of new foreign TB cases | 35.2 years | |
| Foreign origin of all TB cases | 3 890 | (71.7%) |
| New (not previously treated) | 5 119 | (94.3%) |
| Estimate | | |
| Estimated new and relapsed cases N, | 6 100-5 200-7 000 | |

^a Cases with unknown previous TB history included in new cases.

Drug resistance surveillance and TB/HIV coinfection, 2018

| Completeness of DRS data ^a | Yes | |
|---|---------------|---------|
| Completeness of HIV datab | - | |
| Case-linked data reporting | Yes | |
| Cases with DST results | 3 731 (90.4%) | |
| Estimated RR TB among notified bac conf pulmonary TB cases N, (best-low-high) | 140-65-210 | |
| Pulmonary MDR-TB cases notified | 98 | (3.4%) |
| of which XDR-TB cases | 8 | (10.7%) |
| Notified MDR-TB | 116 | (3.1%) |
| of which XDR-TB cases | 8 | (8.9%) |
| TB cases tested for HIV | - | - |
| HIV-positive TB cases | - | - |
| of these on ART | - | - |

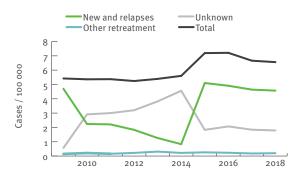
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

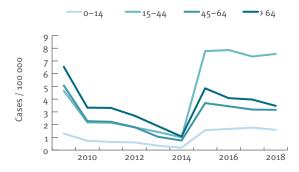
| Geographical coverage | Nat | ional | | |
|----------------------------|---------|--|-----|--------------------------------------|
| Outcome cohort | pulmona | re positive ry TB cases I in 2017ª | | R-TB cases d in 2016 ^b |
| Case-linked data reporting | ١ | 'es | | |
| Cases notified | 2245 | | 105 | |
| Success | 1630 | (72.6%) | 35 | (33.3%) |
| Died | 187 | (8.3%) | 8 | (7.6%) |
| Failed | 0 | (0.0%) | 1 | (1.0%) |
| Lost to follow-up | 34 | (1.5%) | 8 | (7.6%) |
| Still on treatment | 77 | (3.4%) | 11 | (10.5%) |
| Not evaluated | 317 | (14.1%) | 42 | (40.0%) |

^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

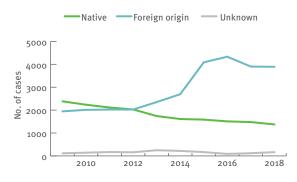
TB notification rates by treatment history, 2009-2018



New and relapsed TB cases – notification rates by age group, 2009-2018



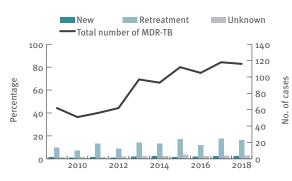
TB cases by geographical origin, 2009-2018

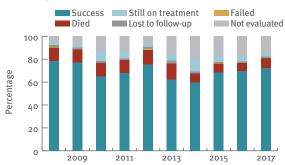


TB/HIV coinfection, 2009-2018

Data not available

MDR-TB cases by previous treatment history, 2009-2018





Total population at 10 May 2019 by EUROSTAT: 10 741 165

TB case notifications, 2018

| Total number of cases | 432 | |
|---|-------------|---------|
| Notification rate per 100 000 | 4.0 | |
| New ^a and relapses | 406 | |
| New ^a and relapses notification rate per 100 000 | 3.8 | |
| Pulmonary | 361 | (83.6%) |
| of which microscopy-positive | 175 | (48.5%) |
| of which laboratory-confirmed | 197 | (54.6%) |
| Laboratory-confirmed TB cases | 225 | (52.1%) |
| Mean age of new native TB cases | 61.1 years | |
| Mean age of new foreign TB cases | 32.6 years | |
| Foreign origin of all TB cases | 216 | (50.0%) |
| New (not previously treated) | 395 | (91.4%) |
| Estimate | | |
| Estimated new and relapsed cases N, (best-low-high) | 470-400-550 | |

Drug resistance surveillance and TB/HIV coinfection, 2018

| Completeness of DRS data ^a | , | res . |
|---|-------------|---------|
| Completeness of HIV datab | Yes | |
| Case-linked data reporting | , | res . |
| Cases with DST results | 154 (68.4%) | |
| Estimated RR TB among notified bac conf pulmonary TB cases N, (best-low-high) | 6- | 0-14 |
| Pulmonary MDR-TB cases notified | 5 | (3.7%) |
| of which XDR-TB cases | 1 | (20.0%) |
| Notified MDR-TB | 5 | (3.2%) |
| of which XDR-TB cases | 1 | (20.0%) |
| TB cases tested for HIV | 362 | (83.8%) |
| HIV-positive TB cases | 11 | (3.0%) |
| of these on ART | - | - |
| | | |

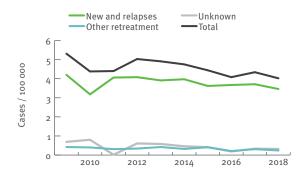
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases \gt 50%, DST done for C+ \gt 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

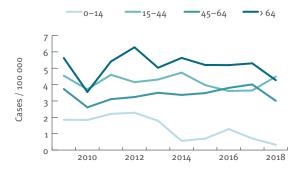
Data not available

^a Cases with unknown previous TB history included in new cases.

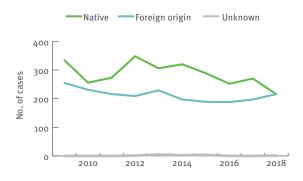
TB notification rates by treatment history, 2009-2018



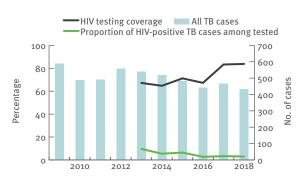
New and relapsed TB cases - notification rates by age group, 2009-2018



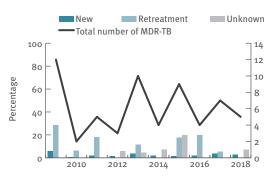
TB cases by geographical origin, 2009-2018



TB/HIV coinfection, 2009-2018



MDR-TB cases by previous treatment history, 2009-2018



Treatment outcome, new culture-confirmed pulmonary TB cases,

Data not available

No. of cases

Hungary

Total population at 10 May 2019 by EUROSTAT: 9 778 371

TB case notifications, 2018

| Total number of cases | 6 | 640 |
|---|-------------|---------|
| Notification rate per 100 000 | 6.5 | |
| New ^a and relapses | 602 | |
| New ^a and relapses notification rate per 100 000 | 6.2 | |
| Pulmonary | 621 | (97.0%) |
| of which microscopy-positive | 222 | (35.7%) |
| of which laboratory-confirmed | 362 | (58.3%) |
| Laboratory-confirmed TB cases | 367 | (57.3%) |
| Mean age of new native TB cases | 55.2 years | |
| Mean age of new foreign TB cases | 34.6 years | |
| Foreign origin of all TB cases | 23 | (3.6%) |
| New (not previously treated) | 573 | (89.5%) |
| Estimate | | |
| Estimated new and relapsed cases N, | 620-530-720 | |

^a Cases with unknown previous TB history included in new cases

Drug resistance surveillance and TB/HIV coinfection, 2018

| Completeness of DRS data ^a | Yes | |
|---|-------------|---------|
| Completeness of HIV datab | | No |
| Case-linked data reporting | ١ | /es |
| Cases with DST results | 330 (89.9%) | |
| Estimated RR TB among notified bac conf pulmonary TB cases N, (best-low-high) | 13-8-19 | |
| Pulmonary MDR-TB cases notified | 12 | (3.7%) |
| of which XDR-TB cases | 3 | (27.3%) |
| Notified MDR-TB | 12 | (3.6%) |
| of which XDR-TB cases | 3 | (27.3%) |
| TB cases tested for HIV | 23 | (3.6%) |
| HIV-positive TB cases | 3 | (13.0%) |
| of these on ART | - | - |
| | | |

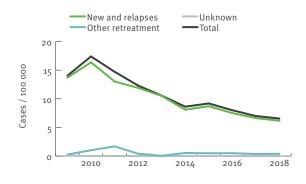
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases \gt 50%, DST done for C+ \gt 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

| Geographical coverage | Nat | tional | | |
|----------------------------|---------|---|---|--------------------------------------|
| Outcome cohort | pulmona | ure positive ry TB cases d in 2017ª | | R-TB cases d in 2016 ^b |
| Case-linked data reporting | ١ | /es | | |
| Cases notified | 1 | 312 | | 18 |
| Success | 189 | (60.6%) | 8 | (44.4%) |
| Died | 53 | (17.0%) | 2 | (11.1%) |
| Failed | 7 | (2.2%) | 0 | (0.0%) |
| Lost to follow-up | 27 | (8.7%) | 0 | (0.0%) |
| Still on treatment | 27 | (8.7%) | 4 | (22.2%) |
| Not evaluated | 9 | (2.9%) | 4 | (22.2%) |

^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

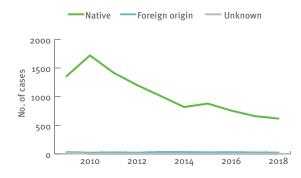
TB notification rates by treatment history, 2009-2018



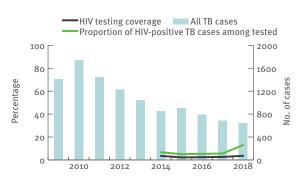
New and relapsed TB cases – notification rates by age group, 2009-2018



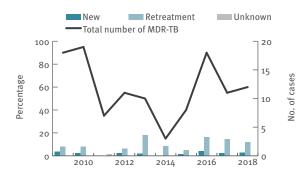
TB cases by geographical origin, 2009-2018

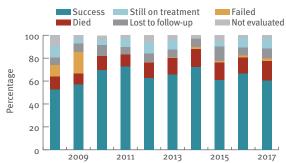


TB/HIV coinfection, 2009-2018



MDR-TB cases by previous treatment history, 2009-2018





Iceland

Total population at 10 May 2019 by EUROSTAT: 348 450

TB case notifications, 2018

| Total number of cases | 8 | |
|---|------------|----------|
| Notification rate per 100 000 | 2.3 | |
| New ^a and relapses | | 8 |
| New ^a and relapses notification rate per 100 000 | 2.3 | |
| Pulmonary | 5 | (62.5%) |
| of which microscopy-positive | 2 | (40.0%) |
| of which laboratory-confirmed | 2 | (40.0%) |
| Laboratory-confirmed TB cases | 2 | (25.0%) |
| Mean age of new native TB cases | - years | |
| Mean age of new foreign TB cases | 53.9 years | |
| Foreign origin of all TB cases | 8 | (100.0%) |
| New (not previously treated) | 8 | (100.0%) |
| Estimate | | |
| Estimated new and relapsed cases N, (best-low-high) | 9-8-11 | |

^a Cases with unknown previous TB history included in new cases.

Drug resistance surveillance and TB/HIV coinfection, 2018

| Completeness of DRS data ^a | Yes | |
|---|------------|----------|
| Completeness of HIV datab | , | Yes |
| Case-linked data reporting | , | Yes |
| Cases with DST results | 2 (100.0%) | |
| Estimated RR TB among notified bac conf pulmonary TB cases N, (best–low–high) | 0-0-1 | |
| Pulmonary MDR-TB cases notified | 0 | (0.0%) |
| of which XDR-TB cases | 0 | - |
| Notified MDR-TB | 0 | (0.0%) |
| of which XDR-TB cases | 0 | - |
| TB cases tested for HIV | 8 | (100.0%) |
| HIV-positive TB cases | 1 | (12.5%) |
| of these on ART | - | - |
| | | |

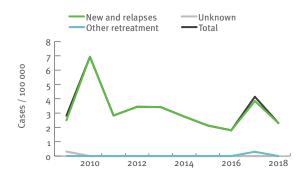
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases \gt 50%, DST done for C+ \gt 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

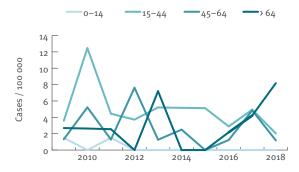
| Geographical coverage | Na | tional | | |
|----------------------------|---------|---|---|-------------------------------------|
| Outcome cohort | pulmona | ure positive ary TB cases ed in 2017ª | | -TB cases I in 2016 ^b |
| Case-linked data reporting | | Yes | | |
| Cases notified | | 6 | | 0 |
| Success | 6 | (100.0%) | 0 | - |
| Died | 0 | (0.0%) | 0 | - |
| Failed | 0 | (0.0%) | 0 | - |
| Lost to follow-up | 0 | (0.0%) | 0 | - |
| Still on treatment | 0 | (0.0%) | 0 | - |
| Not evaluated | 0 | (0.0%) | 0 | - |

^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

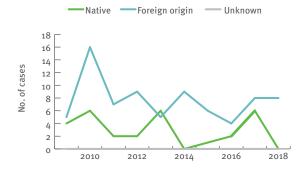
TB notification rates by treatment history, 2009-2018



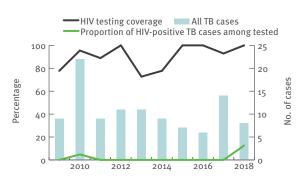
New and relapsed TB cases – notification rates by age group, 2009-2018



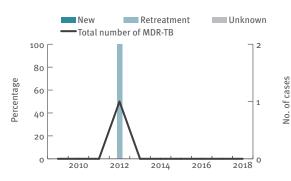
TB cases by geographical origin, 2009-2018

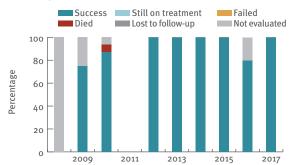


TB/HIV coinfection, 2009-2018



MDR-TB cases by previous treatment history, 2009-2018





Total population at 10 May 2019 by EUROSTAT: 4 830 392

TB case notifications, 2018

| Total number of cases | 314 | |
|---|-------------|---------|
| Notification rate per 100 000 | 6.5 | |
| New ^a and relapses | 294 | |
| New ^a and relapses notification rate per 100 000 | 6.1 | |
| Pulmonary | 215 | (68.5%) |
| of which microscopy-positive | 66 | (30.7%) |
| of which laboratory-confirmed | 167 | (77.7%) |
| Laboratory-confirmed TB cases | 228 | (72.6%) |
| Mean age of new native TB cases | 50.7 years | |
| Mean age of new foreign TB cases | 38.1 years | |
| Foreign origin of all TB cases | 140 | (44.6%) |
| New (not previously treated) | 294 | (93.6%) |
| Estimate | | |
| Estimated new and relapsed cases N, (best-low-high) | 340-290-390 | |

^a Cases with unknown previous TB history included in new cases

Drug resistance surveillance and TB/HIV coinfection, 2018

| Completeness of DRS data ^a | ١ | /es |
|---|-----|---------|
| Completeness of HIV datab | | No |
| Case-linked data reporting | Yes | |
| Cases with DST results | 205 | (89.9%) |
| Estimated RR TB among notified bac conf pulmonary TB cases N, (best–low–high) | 2- | 0-6 |
| Pulmonary MDR-TB cases notified | 4 | (2.6%) |
| of which XDR-TB cases | 0 | (0.0%) |
| Notified MDR-TB | 5 | (2.4%) |
| of which XDR-TB cases | 0 | (0.0%) |
| TB cases tested for HIV | 140 | (44.6%) |
| HIV-positive TB cases | 12 | (8.6%) |
| of these on ART | 8 | (66.7%) |
| | | |

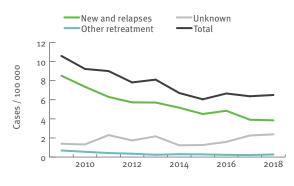
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases \gt 50%, DST done for C+ \gt 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

| Geographical coverage | Na | tional | | |
|----------------------------|---------|---|---|--------------------------------------|
| Outcome cohort | pulmona | ure positive ry TB cases d in 2017ª | | R-TB cases d in 2016 ^b |
| Case-linked data reporting | | Yes | | |
| Cases notified | | 107 | | 6 |
| Success | 52 | (48.6%) | 5 | (83.3%) |
| Died | 3 | (2.8%) | 0 | (0.0%) |
| Failed | 0 | (0.0%) | 0 | (0.0%) |
| Lost to follow-up | 2 | (1.9%) | 0 | (0.0%) |
| Still on treatment | 1 | (0.9%) | 0 | (0.0%) |
| Not evaluated | 49 | (45.8%) | 1 | (16.7%) |

^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

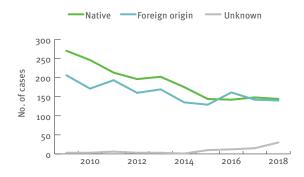
TB notification rates by treatment history, 2009-2018



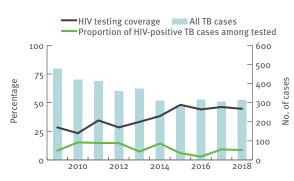
New and relapsed TB cases - notification rates by age group, 2009-2018



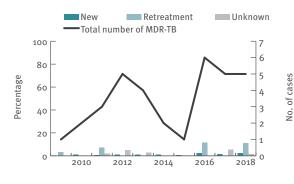
TB cases by geographical origin, 2009-2018

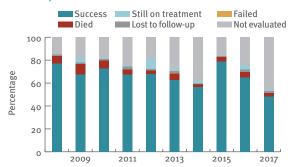


TB/HIV coinfection, 2009-2018



MDR-TB cases by previous treatment history, 2009-2018





Population estimate 2018 by UN Statistical Database: 8 381 516

TB case notifications, 2018

| Total number of cases | 292 | |
|---|---------------|---------|
| Notification rate per 100 000 | 3.5 | |
| New ^a and relapses | - 1 | 292 |
| New ^a and relapses notification rate per 100 000 | 3.5 | |
| Pulmonary | 225 | (77.1%) |
| of which microscopy-positive | | |
| of which laboratory-confirmed | 160 | (71.1%) |
| Laboratory-confirmed TB cases | 160 | (54.8%) |
| Mean age of new native TB cases | 44.9 years | |
| Mean age of new foreign TB cases | - years | |
| Foreign origin of all TB cases | 245 | (83.9%) |
| New (not previously treated) | 284 | (97.3%) |
| Estimate | | |
| Estimated new and relapsed cases N, (best-low-high) | 340 (290-390) | |

^a Cases with unknown previous TB history included in new cases.

Drug resistance surveillance and TB/HIV coinfection, 2018

| Completeness of DRS data ^a | ١ | /es |
|---|------|----------|
| Completeness of HIV datab | Yes | |
| Case-linked data reporting | ١ | /es |
| Cases with DST results | 160 | (100.0%) |
| Estimated RR TB among notified bac conf pulmonary TB cases N, (best–low–high) | 15 (| (8-22) |
| Pulmonary MDR-TB cases notified | 13 | (8.1%) |
| of which XDR-TB cases | 7 | (53.8%) |
| Notified MDR-TB | 15 | (9.4%) |
| of which XDR-TB cases | 7 | (46.7%) |
| TB cases tested for HIV | 292 | (100.0%) |
| HIV-positive TB cases | 12 | (4.1%) |
| of these on ART | 12 | (100.0%) |
| | | |

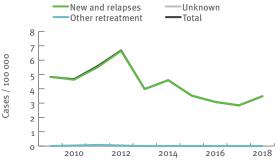
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases \gt 50%, DST done for C+ \gt 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

| Geographical coverage | Nat | ional | | |
|----------------------------|---------|---|----------------------|--|
| Outcome cohort | TB case | d relapsed s notified 2017 ^a | cases e second-li | /MDR-TB nrolled into ne treatment 2016 ^b |
| Case-linked data reporting | ١ | 'es | | |
| Cases notified | 2 | 25 | | 9 |
| Success | 196 | (87.1%) | 6 | (66.7%) |
| Died | 9 | (4.0%) | 1 | (11.1%) |
| Failed | 1 | (0.4%) | 0 | (0.0%) |
| Lost to follow-up | 5 | (2.2%) | 2 | (22.2%) |
| Not evaluated | 14 | (6.2%) | 0 | (0.0%) |

^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

TB notification rates by treatment history, 2009-2018



^a Cases with unknown previous treatment included to new cases.

New and relapsed TB cases - notification rates by age group, 2009-2018°

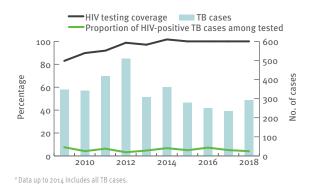


^a Data up to 2012 includes new TB cases only

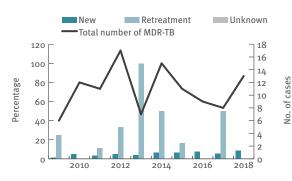
TB/HIV coinfection, 2009-2018a

TB cases by geographical origin, 2009-2018

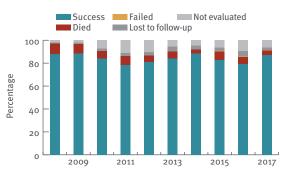




MDR-TB cases by previous treatment history, 2009-2018



Treatment outcome, new and relapsed TB cases, 2008-2017a



a 2008-2011 cohorts include new cases only.

Italy

Total population at 10 May 2019 by EUROSTAT: 60 483 973

TB case notifications, 2018

| Total number of cases | 3 912 | |
|---|-------------------|---------|
| Notification rate per 100 000 | 6.5 | |
| New ^a and relapses | 3 777 | |
| New ^a and relapses notification rate per 100 000 | 6.2 | |
| Pulmonary | 2 744 | (70.1%) |
| of which microscopy-positive | 1468 | (53.5%) |
| of which laboratory-confirmed | 2 220 | (80.9%) |
| Laboratory-confirmed TB cases | 2728 | (69.7%) |
| Mean age of new native TB cases | 53.6 years | |
| Mean age of new foreign TB cases | 34.9 years | |
| Foreign origin of all TB cases | 2 313 | (59.1%) |
| New (not previously treated) | 2 913 | (74.5%) |
| Estimate | | |
| Estimated new and relapsed cases N, (best-low-high) | 4 300-3 700-4 900 | |

^a Cases with unknown previous TB history included in new cases.

Drug resistance surveillance and TB/HIV coinfection, 2018

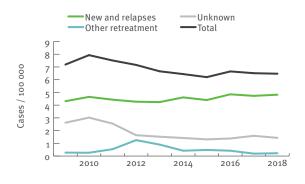
| Completeness of DRS data ^a | No | |
|---|-----|---------|
| Completeness of HIV datab | - | |
| Case-linked data reporting | No | |
| Cases with DST results | - | - |
| Estimated RR TB among notified bac conf pulmonary TB cases N, (best-low-high) | 72- | 46-97 |
| Pulmonary MDR-TB cases notified | 42 | (2.3%) |
| of which XDR-TB cases | 4 | (10.8%) |
| Notified MDR-TB | 53 | - |
| of which XDR-TB cases | - | - |
| TB cases tested for HIV | - | - |
| HIV-positive TB cases | - | - |
| of these on ART | - | - |
| | | |

 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases \gt 50%, DST done for C+ \gt 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

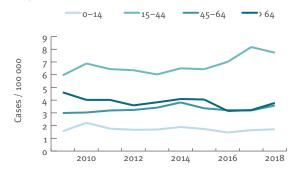
Treatment outcome monitoring

Data not available

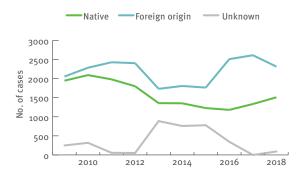
TB notification rates by treatment history, 2009-2018



New and relapsed TB cases - notification rates by age group, 2009-2018



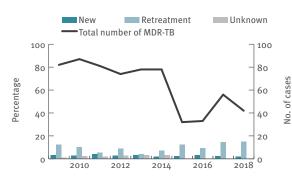
TB cases by geographical origin, 2009-2018



TB/HIV coinfection, 2009-2018

Data not available

MDR-TB cases by previous treatment history, 2009-2018



Treatment outcome, new culture-confirmed pulmonary TB cases,

Data not available

Kazakhstan

Population estimate 2018 by UN Statistical Database: 18 319 618

TB case notifications, 2018

| Total number of cases | 13 361 | |
|---|-----------------------|---------|
| Notification rate per 100 000 | 72.9 | |
| New ^a and relapses | 12832 | |
| New ^a and relapses notification rate per 100 000 | 70.0 | |
| Pulmonary | 11 695 | (91.1%) |
| of which microscopy-positive | | |
| of which laboratory-confirmed | 10 307 | (88.1%) |
| Laboratory-confirmed TB cases | 10774 | (80.6%) |
| Mean age of new native TB cases | 41.7 years | |
| Mean age of new foreign TB cases | - years | |
| Foreign origin of all TB cases | 200 | (1.5%) |
| New (not previously treated) | 8937 | (66.9%) |
| Estimate | | |
| Estimated new and relapsed cases N, (best-low-high) | 12000 (8100-18000) | |

^a Cases with unknown previous TB history included in new cases.

Drug resistance surveillance and TB/HIV coinfection, 2018

| Completeness of DRS data ^a | Yes | |
|---|----------|-----------|
| Completeness of HIV datab | Yes | |
| Case-linked data reporting | Yes | |
| Cases with DST results | 9 934 | (92.2%) |
| Estimated RR TB among notified bac conf pulmonary TB cases N, (best–low–high) | 4400 (43 | 800-4500) |
| Pulmonary MDR-TB cases notified | 1462 | (14.7%) |
| of which XDR-TB cases | - | - |
| Notified MDR-TB | 4043 | (40.7%) |
| of which XDR-TB cases | 336 | (9.4%) |
| TB cases tested for HIV | 12236 | (95.4%) |
| HIV-positive TB cases | 717 | (5.9%) |
| of these on ART | 689 | (96.1%) |
| | | |

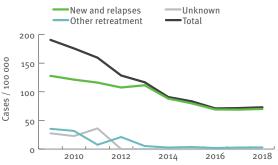
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases \gt 50%, DST done for C+ \gt 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

| Geographical coverage | Nati | ional | | |
|----------------------------|---|---------|--|---------|
| Outcome cohort | New and relapsed TB cases notified in 2017 ^a | | All RR/MDR-TB cases enrolled int second-line treatme in 2016 ^b | |
| Case-linked data reporting | Υ | es | | |
| Cases notified | 8 | 589 | 6260 | |
| Success | 7 826 | (91.1%) | 4979 | (79.5%) |
| Died | 425 | (4.9%) | 558 | (8.9%) |
| Failed | 232 | (2.7%) | 319 | (5.1%) |
| Lost to follow-up | 82 | (1.0%) | 257 | (4.1%) |
| Not evaluated | 24 | (0.3%) | 147 | (2.3%) |

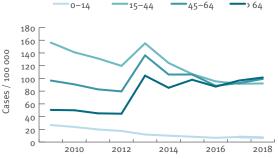
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

TB notification rates by treatment history, 2009-2018



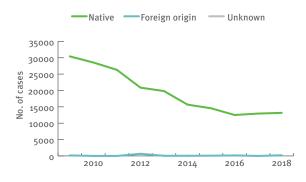
^a Starting from 2013 onward cases with unknown history are included in new and relapses.

New and relapsed TB cases – notification rates by age group, $2009-2018^a$

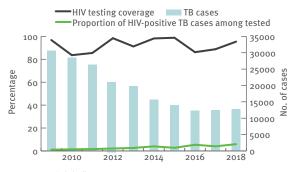


^a Data up to 2012 includes new TB cases only

TB cases by geographical origin, 2009-2018

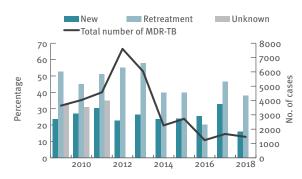


TB/HIV coinfection, 2009-2018a

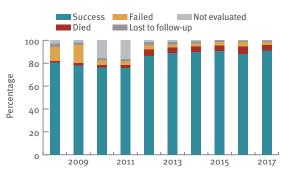


^a Data up to 2014 include all TB cases.

MDR-TB cases by previous treatment history, 2009-2018



Treatment outcome, new and relapsed TB cases 2008–2017^a



^a 2008–2011 cohorts include new cases only.

Kyrgyzstan

Population estimate 2018 by UN Statistical Database: 6 304 030

TB case notifications, 2018

| Total number of cases | 7 585 | |
|---|------------------|---------|
| Notification rate per 100 000 | 120.3 | |
| New ^a and relapses | 6338 | |
| New ^a and relapses notification rate per 100 000 | 100.5 | |
| Pulmonary | 4 978 | (78.5%) |
| of which microscopy-positive | | |
| of which laboratory-confirmed | 3 050 | (61.3%) |
| Laboratory-confirmed TB cases | 3875 | (51.1%) |
| Mean age of new native TB cases | 39.7 years | |
| Mean age of new foreign TB cases | - years | |
| Foreign origin of all TB cases | 0 | (0.0%) |
| New (not previously treated) | 5249 | (69.2%) |
| Estimate | | |
| Estimated new and relapsed cases N, | 7300 (6200-8400) | |

^a Cases with unknown previous TB history included in new cases.

Drug resistance surveillance and TB/HIV coinfection, 2018

| Completeness of DRS data ^a | Yes | |
|---|------------------|----------|
| Completeness of HIV datab | Yes | |
| Case-linked data reporting | Yes | |
| Cases with DST results | 3 535 (91.29 | |
| Estimated RR TB among notified bac conf pulmonary TB cases N, (best-low-high) | 1600 (1600-1700) | |
| Pulmonary MDR-TB cases notified | 1241 | (35.1%) |
| of which XDR-TB cases | 119 | (12.9%) |
| Notified MDR-TB | 1513 | (42.8%) |
| of which XDR-TB cases | 114 | (17.1%) |
| TB cases tested for HIV | 6338 | (100.0%) |
| HIV-positive TB cases | 187 | (3.0%) |
| of these on ART | 132 | (70.6%) |

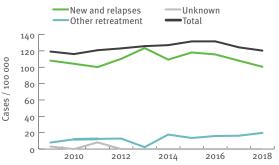
 $[^]a$ National coverage 100% or culturing \geq 90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA \geq 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

| Geographical coverage | Nat | ional | | |
|----------------------------|---|---------|--|---------|
| Outcome cohort | New and relapsed TB cases notified in 2017 ^a | | All RR/MDR-TB cases enrolled int second-line treatme in 2016 ^b | |
| Case-linked data reporting | Υ | es | | |
| Cases notified | 5 | 752 | 1 | 232 |
| Success | 4728 | (82.2%) | 655 | (53.2%) |
| Died | 302 | (5.3%) | 141 | (11.4%) |
| Failed | 109 | (1.9%) | 147 | (11.9%) |
| Lost to follow-up | 590 | (10.3%) | 288 | (23.4%) |
| Not evaluated | 23 | (0.4%) | 1 | (0.1%) |

^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

TB notification rates by treatment history, 2009-2018



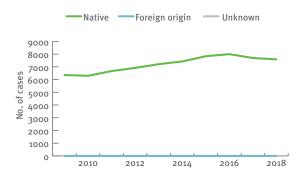
^a Starting from 2013 onward, cases with unknown history are included in new and relapses.

New and relapsed TB cases - notification rates by age group, $2009-2018^{\rm a}$

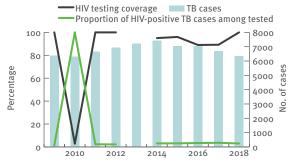


^a Data up to 2012 includes new TB cases only

TB cases by geographical origin, 2009-2018

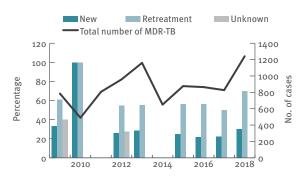


TB/HIV coinfection, 2009-2018a

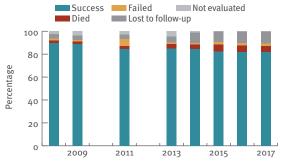


^a Data up to 2014 include all TB cases.

MDR-TB cases by previous treatment history, 2009–2018



Treatment outcome of new TB cases, 2008-2017a



 $^{^{\}mbox{\tiny a}}$ 2008–2011 cohorts include new cases only.

Latvia

Total population at 10 May 2019 by EUROSTAT: 1934 379

TB case notifications, 2018

| Total number of cases | | - |
|---|-------|---------|
| Notification rate per 100 000 | | - |
| New ^a and relapses | | - |
| New ^a and relapses notification rate per 100 000 | | - |
| Pulmonary | - | - |
| of which microscopy-positive | - | - |
| of which laboratory-confirmed | - | - |
| Laboratory-confirmed TB cases | - | - |
| Mean age of new native TB cases | | - years |
| Mean age of new foreign TB cases | | - years |
| Foreign origin of all TB cases | - | - |
| New (not previously treated) | - | - |
| Estimate | | |
| Estimated new and relapsed cases N, (best-low-high) | 560-4 | 80-650 |
| | | |

^a Cases with unknown previous TB history included in new cases.

Drug resistance surveillance and TB/HIV coinfection, 2018

| Completeness of DRS data ^a | No |) |
|---|----|---|
| Completeness of HIV datab | - | |
| Case-linked data reporting | No |) |
| Cases with DST results | - | - |
| Estimated RR TB among notified bac conf pulmonary TB cases N, (best-low-high) | - | |
| Pulmonary MDR-TB cases notified | - | - |
| of which XDR-TB cases | - | - |
| Notified MDR-TB | - | - |
| of which XDR-TB cases | - | - |
| TB cases tested for HIV | - | - |
| HIV-positive TB cases | - | - |
| of these on ART | - | - |
| | | |

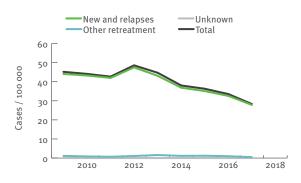
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

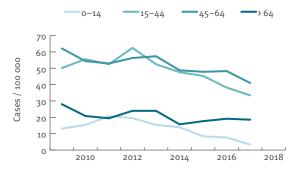
| Geographical coverage | Nati | onal | | |
|----------------------------|--|------|---|---|
| Outcome cohort | New culture positive pulmonary TB cases notified in 2017 ^a All MDR-TE | | | |
| Case-linked data reporting | Ye | es | | |
| Cases notified | 379 | | 5 | 6 |
| Success | - | - | - | - |
| Died | - | - | - | - |
| Failed | - | - | - | - |
| Lost to follow-up | - | - | - | - |
| Still on treatment | - | - | - | - |
| Not evaluated | - | - | - | - |

 $^{^{\}rm a}$ Treatment outcome as presented is treatment outcome after 12 months. $^{\rm b}$ Treatment outcome as presented is treatment outcome after 24 months.

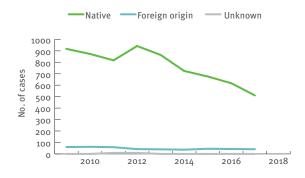
TB notification rates by treatment history, 2009-2018



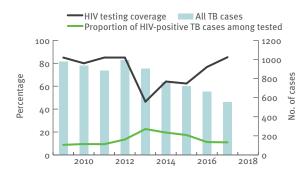
New and relapsed TB cases – notification rates by age group, 2009–2018



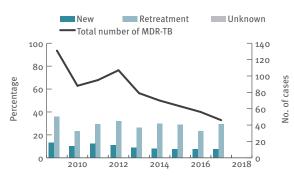
TB cases by geographical origin, 2009-2018

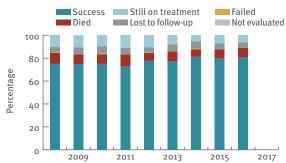


TB/HIV coinfection, 2009-2018



MDR-TB cases by previous treatment history, 2009-2018





Liechtenstein

TB case notifications, 2018

| Total number of cases | | 1 |
|---|------|----------|
| Notification rate per 100 000 | | 2.6 |
| New ^a and relapses | 1 | |
| New ^a and relapses notification rate per 100 000 | 1 | 2.6 |
| Pulmonary | 1 | (100.0%) |
| of which microscopy-positive | 0 | (0.0%) |
| of which laboratory-confirmed | 1 | (100.0%) |
| Laboratory-confirmed TB cases | 1 | (100.0%) |
| Mean age of new native TB cases | | - years |
| Mean age of new foreign TB cases | 37.0 | years |
| Foreign origin of all TB cases | 1 | (100.0%) |
| New (not previously treated) | 1 | (100.0%) |
| Estimate | | |
| Estimated new and relapsed cases N, (best-low-high) | | - |
| | | |

^a Cases with unknown previous TB history included in new cases

Drug resistance surveillance and TB/HIV coinfection, 2018

| Completeness of DRS data ^a | Yes | | |
|---|-----------|--------|------------|
| Completeness of HIV datab | - | | |
| Case-linked data reporting | Yes | | |
| Cases with DST results | 1 (100.09 | | 1 (100.0%) |
| Estimated RR TB among notified bac conf pulmonary TB cases N, (best-low-high) | | | |
| Pulmonary MDR-TB cases notified | 0 | (0.0%) | |
| of which XDR-TB cases | 0 | (0.0%) | |
| Notified MDR-TB | 0 | (0.0%) | |
| of which XDR-TB cases | 0 | - | |
| TB cases tested for HIV | - | - | |
| HIV-positive TB cases | - | - | |
| of these on ART | - | - | |
| | | | |

 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

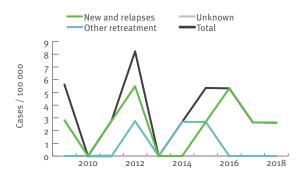
No. of cases

Treatment outcome monitoring

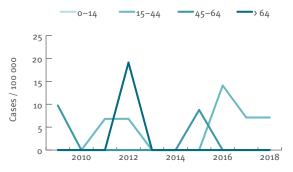
| Geographical coverage | Na | itional | | |
|----------------------------|---------|--|---|----------------------------------|
| Outcome cohort | pulmona | ture positive ary TB cases ed in 2017ª | | TB cases in 2016 ^b |
| Case-linked data reporting | Yes | | | |
| Cases notified | | 1 | | 0 |
| Success | 1 | (100.0%) | 0 | - |
| Died | 0 | (0.0%) | 0 | - |
| Failed | 0 | (0.0%) | 0 | - |
| Lost to follow-up | 0 | (0.0%) | 0 | - |
| Still on treatment | 0 | (0.0%) | 0 | - |
| Not evaluated | 0 | (0.0%) | 0 | - |
| | | | | |

^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

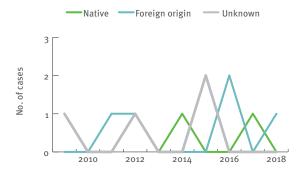
TB notification rates by treatment history, 2009-2018



New and relapsed TB cases - notification rates by age group, 2009-2018



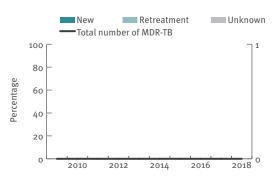
TB cases by geographical origin, 2009-2018

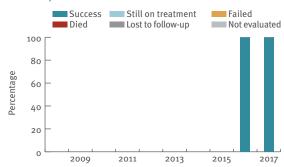


TB/HIV coinfection, 2009-2018

Data not available

MDR-TB cases by previous treatment history, 2009-2018





Lithuania

Total population at 10 May 2019 by EUROSTAT: 2 808 901

TB case notifications, 2018

| Total number of cases | 1 142 | |
|---|-------------------|---------|
| Notification rate per 100 000 | 40.7 | |
| New ^a and relapses | 1063 | |
| New ^a and relapses notification rate per 100 000 | 37.8 | |
| Pulmonary | 1065 | (93.3%) |
| of which microscopy-positive | 673 | (63.2%) |
| of which laboratory-confirmed | 969 | (91.0%) |
| Laboratory-confirmed TB cases | 992 | (86.9%) |
| Mean age of new native TB cases | 47.8 years | |
| Mean age of new foreign TB cases | 43.2 | years |
| Foreign origin of all TB cases | 12 | (1.1%) |
| New (not previously treated) | 922 | (80.7%) |
| Estimate | | |
| Estimated new and relapsed cases N, | 1 200-1 000-1 400 | |

^a Cases with unknown previous TB history included in new cases.

Drug resistance surveillance and TB/HIV coinfection, 2018

| Completeness of DRS data ^a | Yes | |
|---|-------|----------|
| Completeness of HIV datab | Yes | |
| Case-linked data reporting | Yes | |
| Cases with DST results | 992 | (100.0%) |
| Estimated RR TB among notified bac conf pulmonary TB cases N, (best–low–high) | 190-1 | 170-210 |
| Pulmonary MDR-TB cases notified | 170 | (17.5%) |
| of which XDR-TB cases | 58 | (34.1%) |
| Notified MDR-TB | 170 | (17.1%) |
| of which XDR-TB cases | 58 | (34.1%) |
| TB cases tested for HIV | 954 | (83.5%) |
| HIV-positive TB cases | 32 | (3.4%) |
| of these on ART | - | - |
| | | |

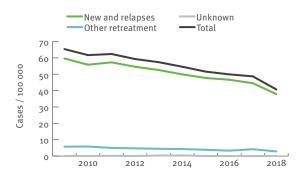
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases \gt 50%, DST done for C+ \gt 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

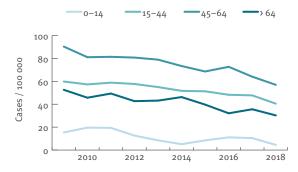
| Geographical coverage | Nat | ional | | | |
|----------------------------|---|---------|---|---------|--|
| Outcome cohort | New culture positive pulmonary TB cases notified in 2017 ^a | | All MDR-TB cases notified in 2016 ^b | | |
| Case-linked data reporting | Υ | 'es | | | |
| Cases notified | 855 | | - 1 | 244 | |
| Success | 606 | (70.9%) | 103 | (42.2%) | |
| Died | 101 | (11.8%) | 52 | (21.3%) | |
| Failed | 15 | (1.8%) | 14 | (5.7%) | |
| Lost to follow-up | 19 | (2.2%) | 52 | (21.3%) | |
| Still on treatment | 112 | (13.1%) | 18 | (7.4%) | |
| Not evaluated | 2 | (0.2%) | 5 | (2.0%) | |

^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

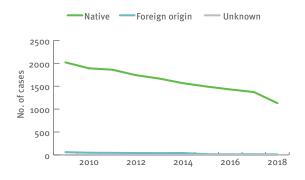
TB notification rates by treatment history, 2009-2018



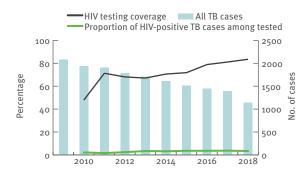
New and relapsed TB cases – notification rates by age group, 2009-2018



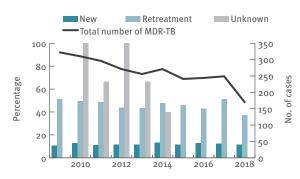
TB cases by geographical origin, 2009-2018

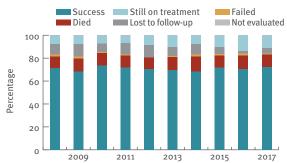


TB/HIV coinfection, 2009-2018



MDR-TB cases by previous treatment history, 2009-2018





Luxembourg

Total population at 10 May 2019 by FUROSTAT: 602 005

TB case notifications, 2018

| Total number of cases | 42 | |
|---|------------|---------|
| Notification rate per 100 000 | 7.0 | |
| New ^a and relapses | 42 | |
| New ^a and relapses notification rate per 100 000 | 7.0 | |
| Pulmonary | 32 | (76.2%) |
| of which microscopy-positive | 20 | (62.5%) |
| of which laboratory-confirmed | 29 | (90.6%) |
| Laboratory-confirmed TB cases | 35 | (83.3%) |
| Mean age of new native TB cases | | - years |
| Mean age of new foreign TB cases | | - years |
| Foreign origin of all TB cases | 34 | (81.0%) |
| New (not previously treated) | 42 (100.0% | |
| Estimate | | |
| Estimated new and relapsed cases N, | 48-41-56 | |

^a Cases with unknown previous TB history included in new cases.

Drug resistance surveillance and TB/HIV coinfection, 2018

| Completeness of DRS data ^a | 1 | res . |
|---|----|----------|
| Completeness of HIV datab | | No |
| Case-linked data reporting | , | /es |
| Cases with DST results | 35 | (100.0%) |
| Estimated RR TB among notified bac conf pulmonary TB cases N, (best-low-high) | 1 | -0-1 |
| Pulmonary MDR-TB cases notified | 1 | (3.4%) |
| of which XDR-TB cases | 0 | - |
| Notified MDR-TB | 1 | (2.9%) |
| of which XDR-TB cases | 0 | - |
| TB cases tested for HIV | 7 | (16.7%) |
| HIV-positive TB cases | 0 | (0.0%) |
| of these on ART | 0 | - |
| | | |

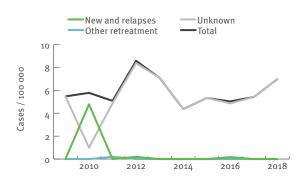
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases \gt 50%, DST done for C+ \gt 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

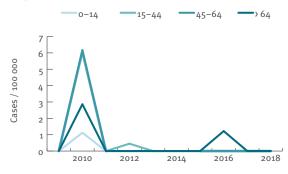
| Geographical coverage | Nati | onal | | |
|----------------------------|----------|---------------------------------------|----------------------|----------------------------------|
| Outcome cohort | pulmonar | re positive y TB cases in 2017ª | All MDR- notified | TB cases in 2016 ^b |
| Case-linked data reporting | Y | es | | |
| Cases notified | 0 | | | 1 |
| Success | 0 | - | - | - |
| Died | 0 | - | - | - |
| Failed | 0 | - | - | - |
| Lost to follow-up | 0 | - | - | - |
| Still on treatment | 0 | - | - | - |
| Not evaluated | 0 | - | - | - |

^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

TB notification rates by treatment history, 2009-2018



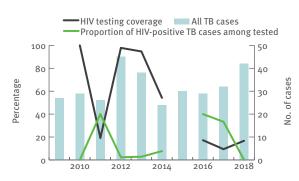
New and relapsed TB cases – notification rates by age group, 2009-2018



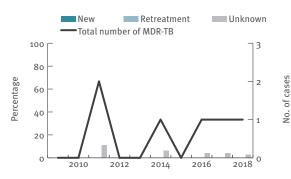
TB cases by geographical origin, 2009-2018

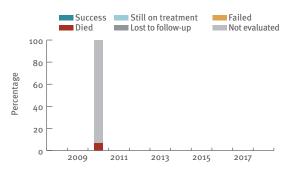


TB/HIV coinfection, 2009-2018



MDR-TB cases by previous treatment history, 2009-2018





Treatment outcome monitoring

Data not available

Malta

Total population at 10 May 2019 by EUROSTAT: 475 701

TB case notifications, 2018

| Total number of cases | 55 | |
|---|------------|----------|
| Notification rate per 100 000 | 11.6 | |
| New ^a and relapses | 55 | |
| New ^a and relapses notification rate per 100 000 | 11.6 | |
| Pulmonary | 39 | (70.9%) |
| of which microscopy-positive | 21 | (53.8%) |
| of which laboratory-confirmed | 29 | (74.4%) |
| Laboratory-confirmed TB cases | 34 | (61.8%) |
| Mean age of new native TB cases | 64.5 years | |
| Mean age of new foreign TB cases | 27. | 7 years |
| Foreign origin of all TB cases | 53 | (96.4%) |
| New (not previously treated) | 55 | (100.0%) |
| Estimate | | |
| Estimated new and relapsed cases N, | 60-51-69 | |

^a Cases with unknown previous TB history included in new cases.

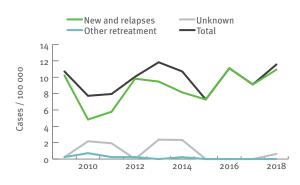
Drug resistance surveillance and TB/HIV coinfection, 2018

| , | Yes |
|----|---------|
| - | |
| , | Yes |
| 32 | (94.1%) |
| 0 | -0-4 |
| 0 | (0.0%) |
| 0 | - |
| 0 | (0.0%) |
| 0 | - |
| - | - |
| - | - |
| - | - |
| | 32 0 |

 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases $^{\flat}$ 50%, DST done for C+ $^{\flat}$ 775%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

18 = 90 %, € 7 at 1 15 EQA ≥ 95 %. ported HIV status.

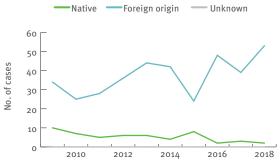
TB notification rates by treatment history, 2009-2018



New and relapsed TB cases – notification rates by age group, 2009–2018

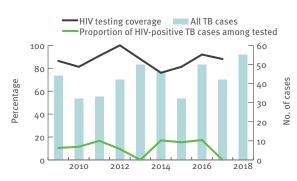


TB cases by geographical origin, 2009-2018

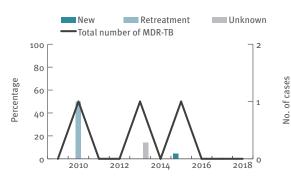


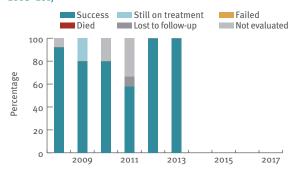
^a By nationality for 2000–2006

TB/HIV coinfection, 2009-2018



MDR-TB cases by previous treatment history, 2009-2018





Montenegro

Population estimate 2018 by UN Statistical Database: 627 809

TB case notifications, 2018

| Total number of cases | 84 | |
|---|-------------|---------|
| Notification rate per 100 000 | 13.4 | |
| New ^a and relapses | 84 | |
| New ^a and relapses notification rate per 100 000 | 13.4 | |
| Pulmonary | 74 | (88.1%) |
| of which microscopy-positive | | |
| of which laboratory-confirmed | 64 | (86.5%) |
| Laboratory-confirmed TB cases | 64 | (76.2%) |
| Mean age of new native TB cases | 44.7 years | |
| Mean age of new foreign TB cases | | - years |
| Foreign origin of all TB cases | 4 | (4.8%) |
| New (not previously treated) | 81 | (96.4%) |
| Estimate | | |
| Estimated new and relapsed cases N, (best-low-high) | 97 (83-110) | |

^a Cases with unknown previous TB history included in new cases.

Drug resistance surveillance and TB/HIV coinfection, 2018

| Completeness of DRS data ^a | ١ | /es |
|---|-----|---------|
| Completeness of HIV datab | ١ | /es |
| Case-linked data reporting | ١ | /es |
| Cases with DST results | 63 | (98.4%) |
| Estimated RR TB among notified bac conf pulmonary TB cases N, (best-low-high) | 1 (| (0-3) |
| Pulmonary MDR-TB cases notified | 1 | (1.6%) |
| of which XDR-TB cases | 0 | (0.0%) |
| Notified MDR-TB | 1 | (1.6%) |
| of which XDR-TB cases | 0 | (0.0%) |
| TB cases tested for HIV | 43 | (51.2%) |
| HIV-positive TB cases | 0 | (0.0%) |
| of these on ART | - | - |
| | | |

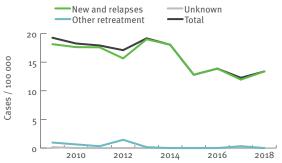
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases \gt 50%, DST done for C+ \gt 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

| Geographical coverage | Na | tional | | |
|----------------------------|---|---------|---|---|
| Outcome cohort | New and relapsed TB cases notified in 2017 ^a | | All RR/MDR-TB cases enrolled int second-line treatm in 2016 ^b | |
| Case-linked data reporting | , | Yes | | |
| Cases notified | | 75 | C |) |
| Success | 65 | (86.7%) | - | - |
| Died | 6 | (8.0%) | - | - |
| Failed | 1 | (1.3%) | - | - |
| Lost to follow-up | 1 | (1.3%) | - | - |
| Not evaluated | 2 | (2.7%) | - | - |

^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

TB notification rates by treatment history, 2009-2018



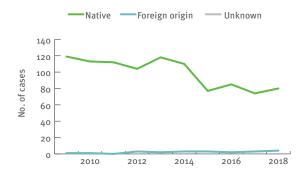
^a Starting from 2013 onward, cases with unknown history are included in new and relapses.

New and relapsed TB cases – notification rates by age group, $2009-2018^{\rm a}$

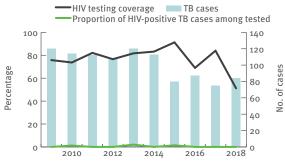


^a Data up to 2012 includes new TB cases only

TB cases by geographical origin, 2009-2018

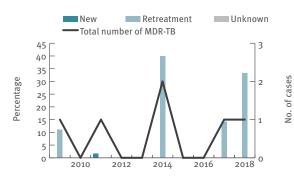


TB/HIV coinfection, 2009-2018a

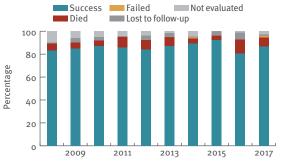


^a Data up to 2014 include all TB cases.

MDR-TB cases by previous treatment history, 2009–2018



Treatment outcome of new TB cases, 2008-2017a



 $^{^{\}mbox{\tiny a}}$ 2008–2011 cohorts include new cases only.

Netherlands

Total population at 10 May 2019 by FUROSTAT: 17 181 084

TB case notifications, 2018

| Total number of cases | 806 | |
|---|--------------|---------|
| Notification rate per 100 000 | 4.7 | |
| New ^a and relapses | 791 | |
| New ^a and relapses notification rate per 100 000 | 4.6 | |
| Pulmonary | 464 | (57.6%) |
| of which microscopy-positive | 212 | (45.7%) |
| of which laboratory-confirmed | 380 | (81.9%) |
| Laboratory-confirmed TB cases | 560 | (69.5%) |
| Mean age of new native TB cases | 46.6 years | |
| Mean age of new foreign TB cases | 37.5 years | |
| Foreign origin of all TB cases | 619 | (76.8%) |
| New (not previously treated) | 770 | (95.5%) |
| Estimate | | |
| Estimated new and relapsed cases N, (best-low-high) | 910-780-1100 | |

^a Cases with unknown previous TB history included in new cases.

Drug resistance surveillance and TB/HIV coinfection, 2018

| Completeness of DRS data ^a | Yes | |
|---|-------------|---------|
| Completeness of HIV datab | Yes | |
| Case-linked data reporting | Yes | |
| Cases with DST results | 500 (89.3%) | |
| Estimated RR TB among notified bac conf pulmonary TB cases N, (best–low–high) | 5-0-9 | |
| Pulmonary MDR-TB cases notified | 3 | (0.9%) |
| of which XDR-TB cases | 1 | (33.3%) |
| Notified MDR-TB | 6 | (1.2%) |
| of which XDR-TB cases | 1 | (16.7%) |
| TB cases tested for HIV | 534 | (66.3%) |
| HIV-positive TB cases | 21 | (3.9%) |
| of these on ART | 12 | (57.1%) |
| | | |

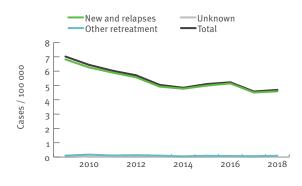
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases \gt 50%, DST done for C+ \gt 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

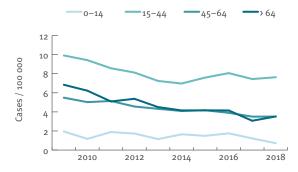
| Geographical coverage | Nat | ional | | |
|----------------------------|---|---------|---|---------|
| Outcome cohort | New culture positive pulmonary TB cases notified in 2017ª | | All MDR-TB cases notified in 2016 ^b | |
| Case-linked data reporting | Υ | 'es | | |
| Cases notified | 354 | | 14 | |
| Success | 299 | (84.5%) | 10 | (71.4%) |
| Died | 17 | (4.8%) | 1 | (7.1%) |
| Failed | 0 | (0.0%) | 0 | (0.0%) |
| Lost to follow-up | 10 | (2.8%) | 2 | (14.3%) |
| Still on treatment | 8 | (2.3%) | 0 | (0.0%) |
| Not evaluated | 20 | (5.6%) | 1 | (7.1%) |

^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

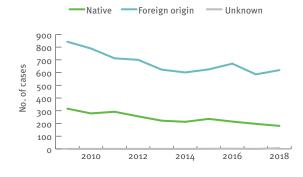
TB notification rates by treatment history, 2009-2018



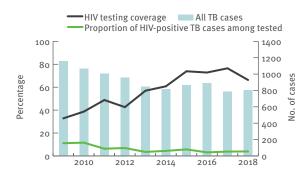
New and relapsed TB cases – notification rates by age group, 2009-2018



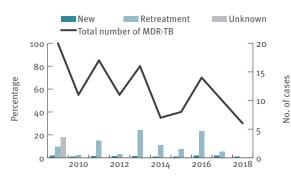
TB cases by geographical origin, 2009-2018

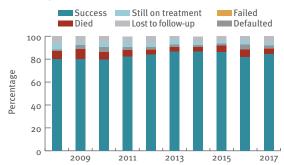


TB/HIV coinfection, 2009-2018



MDR-TB cases by previous treatment history, 2009-2018





North Macedonia

Population estimate 2018 by UN Statistical Database: 2 082 957

TB case notifications, 2018

| Total number of cases | 217 | |
|---|---------------|---------|
| Notification rate per 100 000 | 10.4 | |
| New ^a and relapses | 217 | |
| New ^a and relapses notification rate per 100 000 | 10.4 | |
| Pulmonary | 165 | (76.0%) |
| of which microscopy-positive | | |
| of which laboratory-confirmed | 146 | (88.5%) |
| Laboratory-confirmed TB cases | 146 | (67.3%) |
| Mean age of new native TB cases | 43.3 years | |
| Mean age of new foreign TB cases | - years | |
| Foreign origin of all TB cases | 1 | (0.5%) |
| New (not previously treated) | 202 | (93.1%) |
| Estimate | | |
| Estimated new and relapsed cases N, (best-low-high) | 270 (210-340) | |

^a Cases with unknown previous TB history included in new cases.

Drug resistance surveillance and TB/HIV coinfection, 2018

| Completeness of DRS data ^a | Yes | | |
|---|-------------|----------|--|
| Completeness of HIV datab | Υ | Yes | |
| Case-linked data reporting | Yes | | |
| Cases with DST results | 139 (95.2%) | | |
| Estimated RR TB among notified bac conf pulmonary TB cases N, (best-low-high) | 0 (| 0 (0-2) | |
| Pulmonary MDR-TB cases notified | 2 | (1.4%) | |
| of which XDR-TB cases | - | - | |
| Notified MDR-TB | 0 | (0.0%) | |
| of which XDR-TB cases | - | - | |
| TB cases tested for HIV | 126 | (58.1%) | |
| HIV-positive TB cases | 3 | (2.4%) | |
| of these on ART | 3 | (100.0%) | |
| | | | |

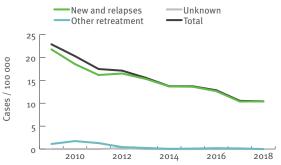
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases \gt 50%, DST done for C+ \gt 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

| Geographical coverage | Na | tional | | |
|----------------------------|--|---------|--|---------|
| Outcome cohort | New and relapsed TB cases notified in 2017 ^a Yes | | All RR/MDR-TB cases enrolled into second-line treatmen in 2016 ^b | |
| Case-linked data reporting | | | | |
| Cases notified | 219 | | | 2 |
| Success | 193 | (88.1%) | 1 | (50.0%) |
| Died | 13 | (5.9%) | 0 | (0.0%) |
| Failed | 0 | (0.0%) | 0 | (0.0%) |
| Lost to follow-up | 9 | (4.1%) | 1 | (50.0%) |
| Not evaluated | 4 | (1.8%) | 0 | (0.0%) |

^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

TB notification rates by treatment history, 2009-2018



^a Starting from 2013 onward, cases with unknown history are included in new and relapses.

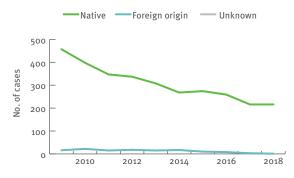
New and relapsed TB cases – notification rates by age group, $2009-2018^{a}$



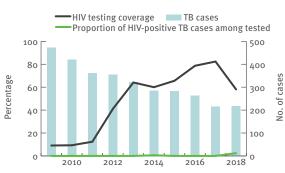
^a Data up to 2012 includes new TB cases only.

TB/HIV coinfection, 2009-2018a

TB cases by geographical origin, 2009-2018

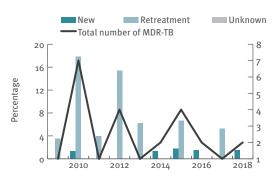


No. of cases

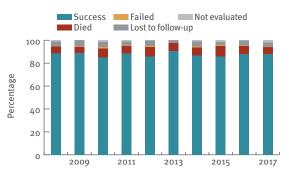


^a Data up to 2014 include all TB cases.

MDR-TB cases by previous treatment history, 2009–2018



Treatment outcome, new and relapsed TB cases, 2008–2017^a



 $^{\mbox{\tiny a}}$ 2008–2011 cohorts include new cases only.

Norway

Total population at 10 May 2019 by EUROSTAT: 5 295 619

TB case notifications, 2018

| Total number of cases | | 209 |
|---|-------------|---------|
| Notification rate per 100 000 | 3.9 | |
| New ^a and relapses | 189 | |
| New ^a and relapses notification rate per 100 000 | 3.6 | |
| Pulmonary | 126 | (60.3%) |
| of which microscopy-positive | 51 | (40.5%) |
| of which laboratory-confirmed | 111 | (88.1%) |
| Laboratory-confirmed TB cases | 170 | (81.3%) |
| Mean age of new native TB cases | 45.6 years | |
| Mean age of new foreign TB cases | 35.9 | years |
| Foreign origin of all TB cases | 180 | (86.1%) |
| New (not previously treated) | 189 | (90.4%) |
| Estimate | | |
| Estimated new and relapsed cases N, (hest-low-high) | 220-190-250 | |

^a Cases with unknown previous TB history included in new cases.

Drug resistance surveillance and TB/HIV coinfection, 2018

| Completeness of DRS data ^a | ١ | /es |
|---|-----|---------|
| Completeness of HIV datab | ١ | /es |
| Case-linked data reporting | ١ | /es |
| Cases with DST results | 167 | (98.2%) |
| Estimated RR TB among notified bac conf pulmonary TB cases N, (best–low–high) | 6 | 1-11 |
| Pulmonary MDR-TB cases notified | 4 | (3.7%) |
| of which XDR-TB cases | 0 | (0.0%) |
| Notified MDR-TB | 4 | (2.4%) |
| of which XDR-TB cases | 0 | (0.0%) |
| TB cases tested for HIV | 184 | (88.0%) |
| HIV-positive TB cases | 7 | (3.8%) |
| of these on ART | - | - |
| | | |

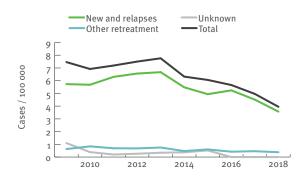
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases \gt 50%, DST done for C+ \gt 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

| Geographical coverage | Na | tional | | |
|----------------------------|---------|---|----|--------------------------------------|
| Outcome cohort | pulmona | ure positive ry TB cases d in 2017ª | | R-TB cases d in 2016 ^b |
| Case-linked data reporting | , | /es | | |
| Cases notified | | 135 | | 11 |
| Success | 116 | (85.9%) | 10 | (90.9%) |
| Died | 1 | (0.7%) | 0 | (0.0%) |
| Failed | 0 | (0.0%) | 0 | (0.0%) |
| Lost to follow-up | 0 | (0.0%) | 0 | (0.0%) |
| Still on treatment | 11 | (8.1%) | 0 | (0.0%) |
| Not evaluated | 7 | (5.2%) | 1 | (9.1%) |

 $^{^{\}rm a}$ Treatment outcome as presented is treatment outcome after 12 months. $^{\rm b}$ Treatment outcome as presented is treatment outcome after 24 months.

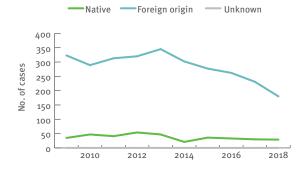
TB notification rates by treatment history, 2009-2018



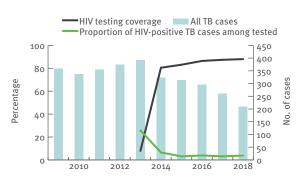
New and relapsed TB cases – notification rates by age group, 2009-2018



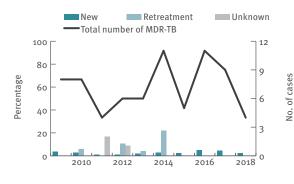
TB cases by geographical origin, 2009-2018

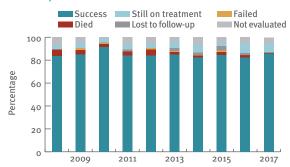


TB/HIV coinfection, 2009-2018



MDR-TB cases by previous treatment history, 2009-2018





Poland

Total population at 10 May 2019 by EUROSTAT: 37 976 687

TB case notifications, 2018

| Total number of cases | 5 487 | |
|---|------------------|---------|
| Notification rate per 100 000 | 14.4 | |
| New ^a and relapses | 5 196 | |
| New ^a and relapses notification rate per 100 000 | 13.7 | |
| Pulmonary | 5 244 | (95.6%) |
| of which microscopy-positive | 2 353 | (44.9%) |
| of which laboratory-confirmed | 3 935 | (75.0%) |
| Laboratory-confirmed TB cases | 4 075 | (74.3%) |
| Mean age of new native TB cases | 54.2 years | |
| Mean age of new foreign TB cases | 35.1 | years |
| Foreign origin of all TB cases | 97 | (1.8%) |
| New (not previously treated) | 4 852 | (88.4%) |
| Estimate | | |
| Estimated new and relapsed cases N, (best-low-high) | 6 000-5 100-6 90 | |
| | | |

^a Cases with unknown previous TB history included in new cases.

Drug resistance surveillance and TB/HIV coinfection, 2018

| Completeness of DRS data ^a | Υ | es |
|---|-------|---------|
| Completeness of HIV datab | | - |
| Case-linked data reporting | Υ | es |
| Cases with DST results | 3 764 | (92.4%) |
| Estimated RR TB among notified bac conf pulmonary TB cases N, (best-low-high) | 63-4 | 16-79 |
| Pulmonary MDR-TB cases notified | 46 | (1.3%) |
| of which XDR-TB cases | 12 | (29.3%) |
| Notified MDR-TB | 48 | (1.3%) |
| of which XDR-TB cases | 13 | (30.2%) |
| TB cases tested for HIV | - | - |
| HIV-positive TB cases | - | - |
| of these on ART | - | - |
| | | |

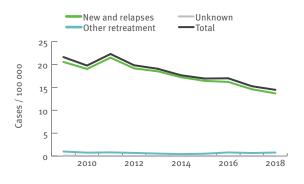
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases \gt 50%, DST done for C+ \gt 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

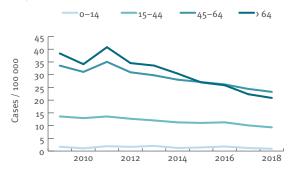
| Geographical coverage | Nati | onal | | |
|----------------------------|---|-------|----------------------|----------------------------------|
| Outcome cohort | New culture positive pulmonary TB cases notified in 2017 ^a | | All MDR- notified | TB cases in 2016 ^b |
| Case-linked data reporting | Ye | es | | |
| Cases notified | 3 6 | 3 603 | | 6 |
| Success | - | - | - | - |
| Died | - | - | - | - |
| Failed | - | - | - | - |
| Lost to follow-up | - | - | - | - |
| Still on treatment | - | - | - | - |
| Not evaluated | - | - | - | - |
| | | | | |

^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

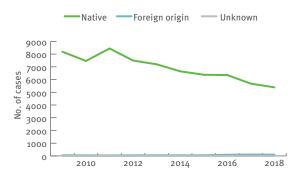
TB notification rates by treatment history, 2009-2018



New and relapsed TB cases – notification rates by age group, 2009-2018



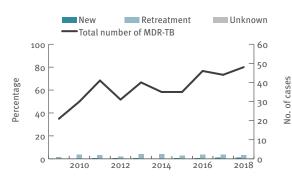
TB cases by geographical origin, 2009-2018

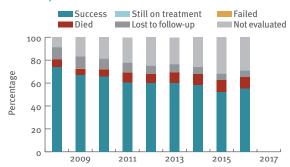


TB/HIV coinfection, 2009-2018

Data not available

MDR-TB cases by previous treatment history, 2009-2018





Portugal

Total population at 10 May 2019 by EUROSTAT: 10 291 027

TB case notifications, 2018

| Total number of cases | 2 | 137 |
|---|-------------------|---------|
| Notification rate per 100 000 | 20.8 | |
| New ^a and relapses | 2 111 | |
| New ^a and relapses notification rate per 100 000 | 20.5 | |
| Pulmonary | 1 612 | (75.4%) |
| of which microscopy-positive | 1002 | (62.2%) |
| of which laboratory-confirmed | 1 3 2 1 | (81.9%) |
| Laboratory-confirmed TB cases | 1 5 2 7 | (71.5%) |
| Mean age of new native TB cases | 51.7 years | |
| Mean age of new foreign TB cases | 39.4 | years |
| Foreign origin of all TB cases | 497 | (23.3%) |
| New (not previously treated) | 2 047 | (95.8%) |
| Estimate | | |
| Estimated new and relapsed cases N, | 2 400-2 100-2 800 | |

^a Cases with unknown previous TB history included in new cases.

Drug resistance surveillance and TB/HIV coinfection, 2018

| Completeness of DRS data ^a | Υ | es |
|---|-------|---------|
| Completeness of HIV datab | Yes | |
| Case-linked data reporting | Υ | es |
| Cases with DST results | 1066 | (69.8%) |
| Estimated RR TB among notified bac conf pulmonary TB cases N, (best–low–high) | 18-1 | 10-27 |
| Pulmonary MDR-TB cases notified | 7 | (0.7%) |
| of which XDR-TB cases | 0 | (0.0%) |
| Notified MDR-TB | 10 | (0.9%) |
| of which XDR-TB cases | 0 | (0.0%) |
| TB cases tested for HIV | 2 011 | (94.1%) |
| HIV-positive TB cases | 193 | (9.6%) |
| of these on ART | - | - |
| | | |

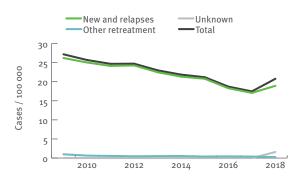
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases \gt 50%, DST done for C+ \gt 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

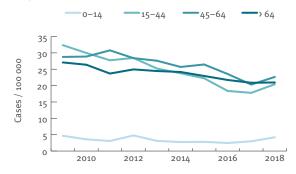
| Geographical coverage | Nat | tional | | |
|----------------------------|---------|---|----|--------------------------------------|
| Outcome cohort | pulmona | ure positive ry TB cases d in 2017ª | | R-TB cases d in 2016 ^b |
| Case-linked data reporting | ١ | /es | | |
| Cases notified | 8 | 343 | 15 | |
| Success | 373 | (44.2%) | 3 | (20.0%) |
| Died | 62 | (7.4%) | 0 | (0.0%) |
| Failed | 0 | (0.0%) | 0 | (0.0%) |
| Lost to follow-up | 28 | (3.3%) | 0 | (0.0%) |
| Still on treatment | 352 | (41.8%) | 0 | (0.0%) |
| Not evaluated | 28 | (3.3%) | 12 | (80.0%) |

^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

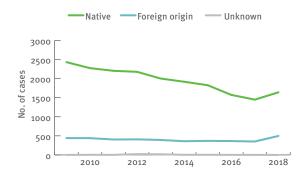
TB notification rates by treatment history, 2009-2018



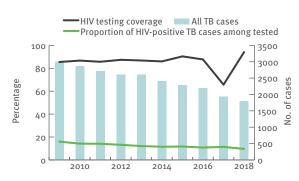
New and relapsed TB cases – notification rates by age group, 2009–2018



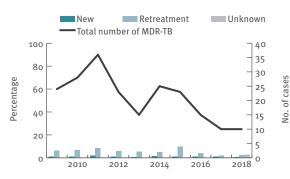
TB cases by geographical origin, 2009-2018

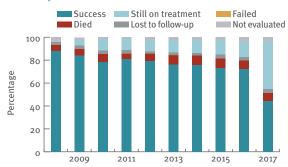


TB/HIV coinfection, 2009-2018



MDR-TB cases by previous treatment history, 2009-2018





Republic of Moldova

Population estimate 2018 by UN Statistical Database: 4 051 944

TB case notifications, 2018

| Total number of cases | 3 465 | |
|---|------------------|---------|
| Notification rate per 100 000 | 85.5 | |
| New ^a and relapses | 3022 | |
| New ^a and relapses notification rate per 100 000 | 74.6 | |
| Pulmonary | 2 735 | (90.5%) |
| of which microscopy-positive | = | - |
| of which laboratory-confirmed | 1839 | (67.2%) |
| Laboratory-confirmed TB cases | 2197 | (63.4%) |
| Mean age of new native TB cases | 43.6 years | |
| Mean age of new foreign TB cases | - | years |
| Foreign origin of all TB cases | 17 | (0.5%) |
| New (not previously treated) | 2455 | (70.9%) |
| Estimate | | |
| Estimated new and relapsed cases N, (best-low-high) | 3500 (3000-4000) | |
| | | |

^a Cases with unknown previous TB history included in new cases

Drug resistance surveillance and TB/HIV coinfection, 2018

| Completeness of DRS data ^a | Υ | es |
|---|--------------|---------|
| Completeness of HIV datab | Υ | es |
| Case-linked data reporting | Yes | |
| Cases with DST results | 1999 (91.0%) | |
| Estimated RR TB among notified bac conf pulmonary TB cases N, (best-low-high) | 860 (8 | 20-910) |
| Pulmonary MDR-TB cases notified | 625 | (31.3%) |
| of which XDR-TB cases | 74 | (12.0%) |
| Notified MDR-TB | 761 | (38.1%) |
| of which XDR-TB cases | 80 | (12.2%) |
| TB cases tested for HIV | 2893 | (95.7%) |
| HIV-positive TB cases | 248 | (8.6%) |
| of these on ART | 168 | (67.7%) |
| | | |

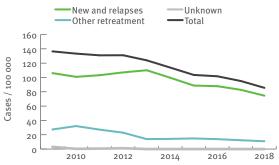
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

| Outcome cohort New and relapsed lases enrolled in 2017³ cases enrolled second-line tree in 2016¹ Case-linked data reporting Yes 979 Cases notified 2 715 979 Success 2 187 (80.6%) 518 (5 Died 286 (10.5%) 125 (1 | ographical verage | Nat | ional | | |
|---|----------------------|----------|------------|---|---------|
| reporting Yes Cases notified 2 715 979 Success 2 187 (80.6%) 518 (5 Died 286 (10.5%) 125 (1 | tcome cohort | TB case: | s notified | All RR/MDR-TB cases enrolled int second-line treatm in 2016 ^b | |
| Success 2 187 (80.6%) 518 (5 Died 286 (10.5%) 125 (1 | | Υ | es | | |
| Died 286 (10.5%) 125 (1 | ses notified | 2 | 715 | 9 | 979 |
| | ccess | 2 187 | (80.6%) | 518 | (52.9%) |
| Failed 79 (2.9%) 132 (1 | ed | 286 | (10.5%) | 125 | (12.8%) |
| | led | 79 | (2.9%) | 132 | (13.5%) |
| Lost to follow-up 123 (4.5%) 198 (2 | st to follow-up | 123 | (4.5%) | 198 | (20.2%) |
| Not evaluated 40 (1.5%) 6 | t evaluated | 40 | (1.5%) | 6 | (0.6%) |

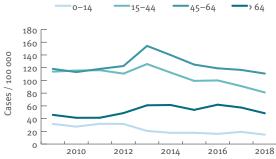
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

TB notification rates by treatment history, 2009-2018



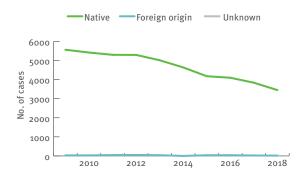
^a Starting from 2013 onward, cases with unknown history are included in new and relapses.

New and relapsed TB cases – notification rates by age group, $2009-2018^a$

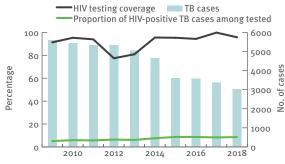


^a Data up to 2012 includes new TB cases only

TB cases by geographical origin, 2009-2018

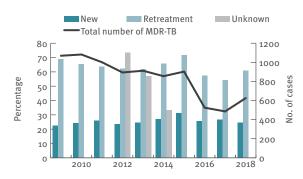


TB/HIV coinfection, 2009-2018a

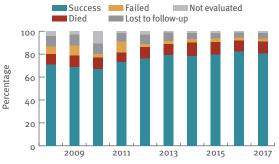


^a Data up to 2014 include all TB cases.

MDR-TB cases by previous treatment history, 2009-2018



Treatment outcome, new and relapsed TB cases, 2008–2017^a



 $^{\mbox{\tiny a}}$ 2008–2011 cohorts include new cases only.

Romania

Total population at 10 May 2019 by EUROSTAT: 19 530 631

TB case notifications, 2018

| Total number of cases | 12 205 | |
|---|-------------------------|---------|
| Notification rate per 100 000 | 62.5 | |
| New ^a and relapses | 11 586 | |
| New ^a and relapses notification rate per 100 000 | 59.3 | |
| Pulmonary | 10 416 | (85.3%) |
| of which microscopy-positive | 6 749 | (64.8%) |
| of which laboratory-confirmed | 8 368 | (80.3%) |
| Laboratory-confirmed TB cases | 8 720 | (71.4%) |
| Mean age of new native TB cases | 44.7 years | |
| Mean age of new foreign TB cases | 24.1 years | |
| Foreign origin of all TB cases | 33 | (0.3%) |
| New (not previously treated) | 9 786 | (80.2%) |
| Estimate | | |
| Estimated new and relapsed cases N, (best-low-high) | 13 000-11 000-15 000 | |

^a Cases with unknown previous TB history included in new cases

Drug resistance surveillance and TB/HIV coinfection, 2018

| Completeness of DRS data ^a | Y | es |
|---|---------------|---------|
| Completeness of HIV datab | Yes | |
| Case-linked data reporting | Yes | |
| Cases with DST results | 8 042 (92.2%) | |
| Estimated RR TB among notified bac conf pulmonary TB cases N, (best-low-high) | 480-4 | 40-520 |
| Pulmonary MDR-TB cases notified | 347 | (4.5%) |
| of which XDR-TB cases | 46 | (20.6%) |
| Notified MDR-TB | 354 | (4.4%) |
| of which XDR-TB cases | 47 | (20.6%) |
| TB cases tested for HIV | 10 246 | (83.9%) |
| HIV-positive TB cases | 254 | (2.5%) |
| of these on ART | 200 | (78.7%) |

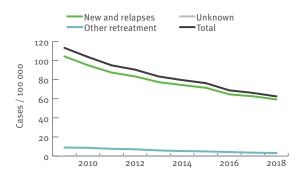
 $[^]a$ National coverage 100% or culturing \geq 90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA \geq 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

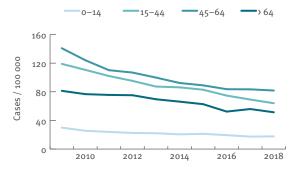
| Geographical coverage | Nat | ional | | |
|----------------------------|----------|--|-----|--------------------------------------|
| Outcome cohort | pulmonar | re positive ry TB cases I in 2017ª | | l-TB cases d in 2016 ^b |
| Case-linked data reporting | Υ | es | | |
| Cases notified | 6 762 | | L | 70 |
| Success | 5 745 | (85.0%) | 223 | (47.4%) |
| Died | 547 | (8.1%) | 95 | (20.2%) |
| Failed | 111 | (1.6%) | 104 | (22.1%) |
| Lost to follow-up | 267 | (3.9%) | 46 | (9.8%) |
| Still on treatment | 90 | (1.3%) | 2 | (0.4%) |
| Not evaluated | 2 | (0.0%) | 0 | (0.0%) |

^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

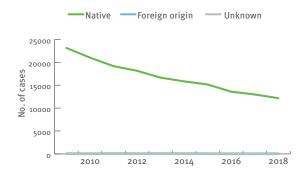
TB notification rates by treatment history, 2009-2018



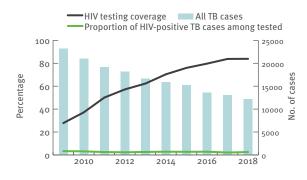
New and relapsed TB cases – notification rates by age group, 2009-2018



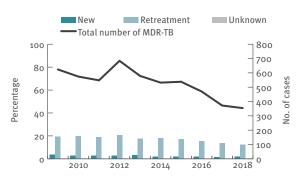
TB cases by geographical origin, 2009-2018

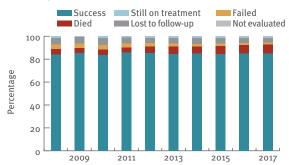


TB/HIV coinfection, 2009-2018



MDR-TB cases by previous treatment history, 2009-2018





Population estimate 2018 by UN Statistical Database: 145 734 038

TB case notifications, 2018

| Total number of cases | 106 913 | |
|---|-------------------------|---------|
| Notification rate per 100 000 | 73.4 | |
| New ^a and relapses | 78258 | |
| New ^a and relapses notification rate per 100 000 | 53.7 | |
| Pulmonary | 71 913 | (91.9%) |
| of which microscopy-positive | - | - |
| of which laboratory-confirmed | 38 774 | (53.9%) |
| Laboratory-confirmed TB cases | 57187 | (53.5%) |
| Mean age of new native TB cases | 41.7 years | |
| Mean age of new foreign TB cases | - years | |
| Foreign origin of all TB cases | 2 0 6 6 | (1.9%) |
| New (not previously treated) | 65234 | (61.0%) |
| Estimate | | |
| Estimated new and relapsed cases N, (best-low-high) | 79000 (51000-112000) | |

^a Cases with unknown previous TB history included in new cases.

Drug resistance surveillance and TB/HIV coinfection, 2018

| Completeness of DRS data ^a | , | /es |
|---|-----------|-------------|
| Completeness of HIV datab | , | res . |
| Case-linked data reporting | , | /es |
| Cases with DST results | 52 048 | (91.0%) |
| Estimated RR TB among notified bac conf pulmonary TB cases N, (best-low-high) | 29000 (29 | 9000-29000) |
| Pulmonary MDR-TB cases notified | 24035 | (46.2%) |
| of which XDR-TB cases | 4970 | (20.7%) |
| Notified MDR-TB | 26665 | (51.2%) |
| of which XDR-TB cases | 4970 | (20.8%) |
| TB cases tested for HIV | 74075 | (94.7%) |
| HIV-positive TB cases | 14797 | (20.0%) |
| of these on ART | 10077 | (68.1%) |

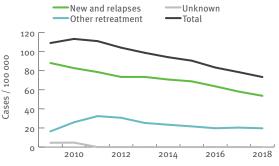
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

| Geographical coverage | Nati | onal | | |
|----------------------------|----------|------------------------------|------------------------|--|
| Outcome cohort | TB cases | relapsed notified 017ª | cases en second-lin | MDR-TB rolled into le treatment 2016 ^b |
| Case-linked data reporting | Y | es | | |
| Cases notified | 67 | 593 | 22 | 593 |
| Success | 46 938 | (69.4%) | 12141 | (53.7%) |
| Died | 7162 | (10.6%) | 3396 | (15.0%) |
| Failed | 4632 | (6.9%) | 2718 | (12.0%) |
| Lost to follow-up | 3404 | (5.0%) | 2046 | (9.1%) |
| Not evaluated | 5457 | (8.1%) | 2292 | (10.1%) |
| | | | | |

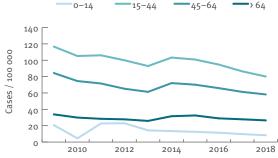
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

TB notification rates by treatment history, 2009-2018



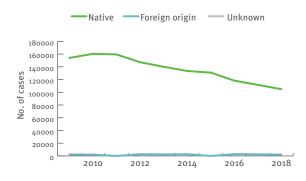
^a Starting from 2013 onward, cases with unknown history are included in new and relapses.

New and relapsed TB cases - notification rates by age group, 2009-2018°

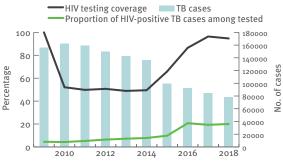


^a Data up to 2012 includes new TB cases only

TB cases by geographical origin, 2009-2018

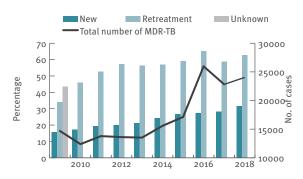


TB/HIV coinfection, 2009-2018a

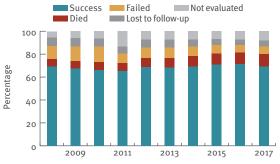


^a Data up to 2014 include all TB cases.

MDR-TB cases by previous treatment history, 2009-2018



Treatment outcome, new and relapsed TB cases, 2008-2017a



a 2008-2011 cohorts include new cases only.

Serbia

Population estimate 2018 by UN Statistical Database: 8 802 754

TB case notifications, 2018

| Total number of cases | 1358 | |
|---|------------------|---------|
| Notification rate per 100 000 | 15.4 | |
| New ^a and relapses | 13 | 30 |
| New ^a and relapses notification rate per 100 000 | 15.1 | |
| Pulmonary | 1 071 | (80.5%) |
| of which microscopy-positive | | |
| of which laboratory-confirmed | 772 | (72.1%) |
| Laboratory-confirmed TB cases | 557 | (41.0%) |
| Mean age of new native TB cases | 49.8 years | |
| Mean age of new foreign TB cases | - years | |
| Foreign origin of all TB cases | 5 | (0.4%) |
| New (not previously treated) | 1240 | (91.3%) |
| Estimate | | |
| Estimated new and relapsed cases N, | 1500 (1300-1800) | |

^a Cases with unknown previous TB history included in new cases.

Drug resistance surveillance and TB/HIV coinfection, 2018

| Completeness of DRS data ^a | | No |
|---|------|----------|
| Completeness of HIV datab | No | |
| Case-linked data reporting | ١ | /es |
| Cases with DST results | 302 | (54.2%) |
| Estimated RR TB among notified bac conf pulmonary TB cases N, (best-low-high) | 11 (| 5-17) |
| Pulmonary MDR-TB cases notified | 3 | (1.0%) |
| of which XDR-TB cases | - | - |
| Notified MDR-TB | 3 | (1.0%) |
| of which XDR-TB cases | - | - |
| TB cases tested for HIV | 56 | (4.2%) |
| HIV-positive TB cases | 8 | (14.3%) |
| of these on ART | 8 | (100.0%) |
| | | |

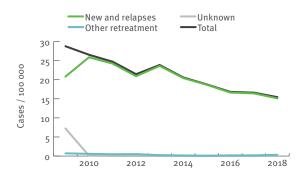
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

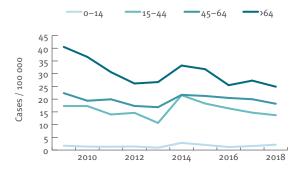
| Geographical coverage | Nat | ional | | |
|----------------------------|---|---------|---|---------|
| Outcome cohort | New culture positive pulmonary TB cases notified in 2017 ^a All MDR-TB case | | | |
| Case-linked data reporting | Υ | 'es | | |
| Cases notified | 1 | 1 440 | | 12 |
| Success | 1 239 | (86.0%) | 9 | (75.0%) |
| Died | 38 | (2.6%) | 2 | (16.7%) |
| Failed | 3 | (0.2%) | 0 | (0.0%) |
| Lost to follow-up | 58 | (4.0%) | 1 | (8.3%) |
| Not evaluated | 102 | (7.1%) | 0 | (0.0%) |

^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

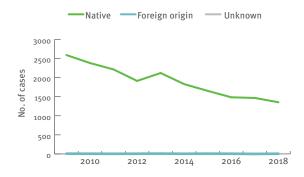
TB notification rates by treatment history, 2009-2018



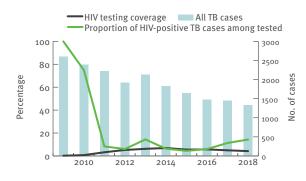
New and relapsed TB cases – notification rates by age group, 2009–2018



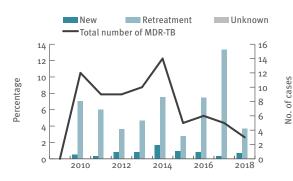
TB cases by geographical origin, 2009-2018

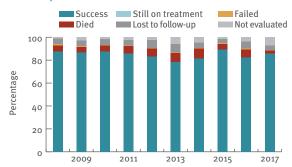


TB/HIV coinfection, 2009-2018



MDR-TB cases by previous treatment history, 2009-2018





Total population at 10 May 2019 by EUROSTAT: 5 443 120

TB case notifications, 2018

| Total number of cases | 281 | |
|---|-------------|---------|
| Notification rate per 100 000 | 5.2 | |
| New ^a and relapses | 273 | |
| New ^a and relapses notification rate per 100 000 | 5.0 | |
| Pulmonary | 244 | (86.8%) |
| of which microscopy-positive | 72 | (29.5%) |
| of which laboratory-confirmed | 135 | (55.3%) |
| Laboratory-confirmed TB cases | 146 (52.0%) | |
| Mean age of new native TB cases | 48.5 years | |
| Mean age of new foreign TB cases | 37.4 years | |
| Foreign origin of all TB cases | 10 | (3.6%) |
| New (not previously treated) | 254 | (90.4%) |
| Estimate | | |
| Estimated new and relapsed cases N, (best-low-high) | 310-270-360 | |

^a Cases with unknown previous TB history included in new cases

Drug resistance surveillance and TB/HIV coinfection, 2018

| Completeness of DRS data ^a | ١ | /es |
|---|-----|---------|
| Completeness of HIV datab | Yes | |
| Case-linked data reporting | ١ | /es |
| Cases with DST results | 144 | (98.6%) |
| Estimated RR TB among notified bac conf pulmonary TB cases N, (best–low–high) | 4 | -0-7 |
| Pulmonary MDR-TB cases notified | 2 | (1.5%) |
| of which XDR-TB cases | 0 | (0.0%) |
| Notified MDR-TB | 2 | (1.4%) |
| of which XDR-TB cases | 0 | (0.0%) |
| TB cases tested for HIV | 238 | (84.7%) |
| HIV-positive TB cases | 2 | (0.8%) |
| of these on ART | 1 | (50.0%) |
| | | |

 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases \gt 50%, DST done for C+ \gt 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

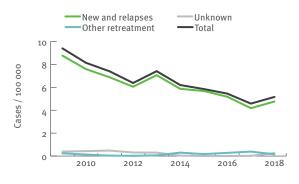
No. of cases

Treatment outcome monitoring

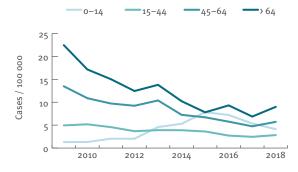
| Na | tional | | |
|---------|--------------------------|--|---|
| pulmona | ry TB cases | | R-TB cases d in 2016 ^b |
| , | Yes | | |
| | 98 | | 3 |
| 87 | (88.8%) | 0 | (0.0%) |
| 5 | (5.1%) | 2 | (66.7%) |
| 0 | (0.0%) | 0 | (0.0%) |
| 0 | (0.0%) | 0 | (0.0%) |
| 4 | (4.1%) | 1 | (33.3%) |
| 2 | (2.0%) | 0 | (0.0%) |
| | New cult pulmona notifie | 5 (5.1%) 0 (0.0%) 0 (0.0%) 4 (4.1%) | New culture positive pulmonary TB cases notified in 2017 ^a Yes 98 87 (88.8%) 0 5 (5.1%) 2 0 (0.0%) 0 0 (0.0%) 0 4 (4.1%) 1 |

^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

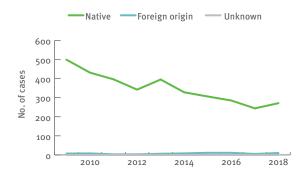
TB notification rates by treatment history, 2009-2018



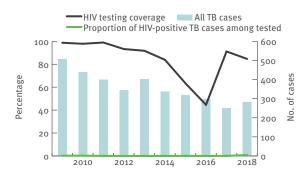
New and relapsed TB cases - notification rates by age group, 2009-2018



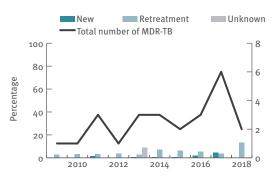
TB cases by geographical origin, 2009-2018

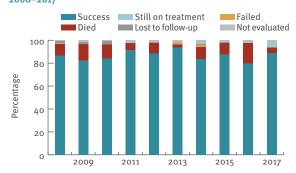


TB/HIV coinfection, 2009-2018



MDR-TB cases by previous treatment history, 2009-2018





Slovenia

Total population at 10 May 2019 by EUROSTAT: 2 066 880

TB case notifications, 2018

| Total number of cases | | 99 |
|---|------------|---------|
| Notification rate per 100 000 | 4.8 | |
| New ^a and relapses | 98 | |
| New ^a and relapses notification rate per 100 000 | 4.7 | |
| Pulmonary | 84 | (84.8%) |
| of which microscopy-positive | 45 | (53.6%) |
| of which laboratory-confirmed | 80 | (95.2%) |
| Laboratory-confirmed TB cases | 92 | (92.9%) |
| Mean age of new native TB cases | 66.4 years | |
| Mean age of new foreign TB cases | 46.3 | years |
| Foreign origin of all TB cases | 44 | (3.6%) |
| New (not previously treated) | 89 | (90.4%) |
| Estimate | | |
| Estimated new and relapsed cases N, | 110- | 95-130 |

^a Cases with unknown previous TB history included in new cases.

Drug resistance surveillance and TB/HIV coinfection, 2018

| Completeness of DRS data ^a | Yes | |
|---|-----|----------|
| Completeness of HIV datab | Yes | |
| Case-linked data reporting | Yes | |
| Cases with DST results | 92 | (100.0%) |
| Estimated RR TB among notified bac conf pulmonary TB cases N, (best–low–high) | 0 | -0-3 |
| Pulmonary MDR-TB cases notified | 0 | (0.0%) |
| of which XDR-TB cases | 0 | - |
| Notified MDR-TB | 0 | (0.0%) |
| of which XDR-TB cases | 0 | - |
| TB cases tested for HIV | 80 | (80.8%) |
| HIV-positive TB cases | 0 | (0.0%) |
| of these on ART | - | - |
| | | |

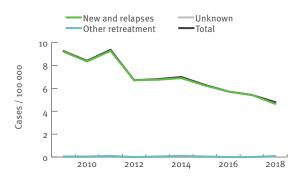
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases \gt 50%, DST done for C+ \gt 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

| Geographical coverage | Na | tional | | |
|----------------------------|---|---------|-------------------------------------|---|
| Outcome cohort | New culture positive pulmonary TB cases notified in 2017ª | | All MDR-TB case notified in 2016 | |
| Case-linked data reporting | | Yes | | |
| Cases notified | 85 | | 0 | |
| Success | 67 | (78.8%) | 0 | - |
| Died | 12 | (14.1%) | 0 | - |
| Failed | 0 | (0.0%) | 0 | - |
| Lost to follow-up | 0 | (0.0%) | 0 | - |
| Still on treatment | 4 | (4.7%) | 0 | - |
| Not evaluated | 2 | (2.4%) | 0 | - |
| | | | | |

^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

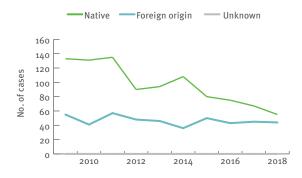
TB notification rates by treatment history, 2009-2018



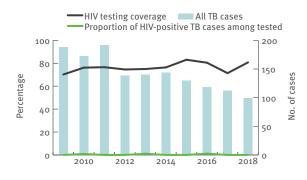
New and relapsed TB cases – notification rates by age group, 2009-2018



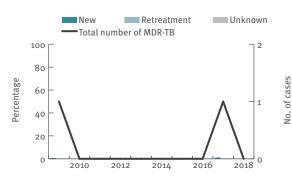
TB cases by geographical origin, 2009-2018

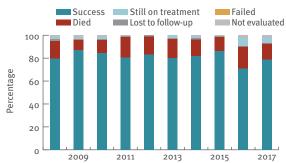


TB/HIV coinfection, 2009-2018



MDR-TB cases by previous treatment history, 2009-2018





Spain

Total population at 10 May 2019 by EUROSTAT: 46 658 447

TB case notifications, 2018

| Total number of cases | 4 648 | |
|---|-------------------|---------|
| Notification rate per 100 000 | 10.0 | |
| New ^a and relapses | 4 500 | |
| New ^a and relapses notification rate per 100 000 | 9.6 | |
| Pulmonary | 3 369 | (72.5%) |
| of which microscopy-positive | 1595 | (47.3%) |
| of which laboratory-confirmed | 2 600 | (77.2%) |
| Laboratory-confirmed TB cases | 3 250 | (69.9%) |
| Mean age of new native TB cases | 50.9 years | |
| Mean age of new foreign TB cases | 37.6 years | |
| Foreign origin of all TB cases | 1670 | (35.9%) |
| New (not previously treated) | 4 5 0 0 | (96.8%) |
| Estimate | | |
| Estimated new and relapsed cases N, (best-low-high) | 4 400-3 800-5 100 | |
| | | |

^a Cases with unknown previous TB history included in new cases.

Drug resistance surveillance and TB/HIV coinfection, 2018

| Completeness of DRS data ^a | Yes | |
|---|-------------|---------|
| Completeness of HIV datab | Yes | |
| Case-linked data reporting | Yes | |
| Cases with DST results | 1258 (38.79 | |
| Estimated RR TB among notified bac conf pulmonary TB cases N, (best-low-high) | 130-9 | 92-170 |
| Pulmonary MDR-TB cases notified | 28 | (2.2%) |
| of which XDR-TB cases | 3 | (13.6%) |
| Notified MDR-TB | 33 | (2.6%) |
| of which XDR-TB cases | 3 | (12.5%) |
| TB cases tested for HIV | 2 448 | (52.7%) |
| HIV-positive TB cases | 275 | (11.2%) |
| of these on ART | - | - |
| | | |

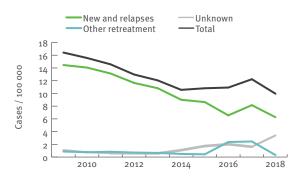
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases \gt 50%, DST done for C+ \gt 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

| Geographical coverage | Nat | ional | | |
|----------------------------|---|---------|---|---|
| Outcome cohort | New culture positive pulmonary TB cases notified in 2017 ^a All MDR-1 | | | |
| Case-linked data reporting | Y | 'es | | |
| Cases notified | 2264 | | 1 | 5 |
| Success | 1382 | (61.0%) | - | - |
| Died | 144 | (6.4%) | - | - |
| Failed | 0 | (0.0%) | - | - |
| Lost to follow-up | 8 | (0.4%) | - | - |
| Still on treatment | 61 | (2.7%) | - | - |
| Not evaluated | 669 | (29.5%) | - | - |
| | | | | |

^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

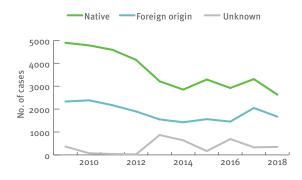
TB notification rates by treatment history, 2009-2018



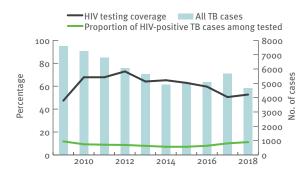
New and relapsed TB cases – notification rates by age group, 2009-2018



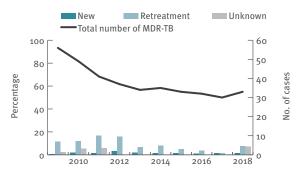
TB cases by geographical origin, 2009-2018



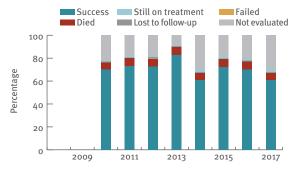
TB/HIV coinfection, 2009-2018



MDR-TB cases by previous treatment history, 2009–2018^a



 $^{\rm a}$ In 2013, 2015 and 2016, only pulmonary MDR-TB cases were reported.



Sweden

Total population at 10 May 2019 by EUROSTAT: 10 120 242

TB case notifications, 2018

| Total number of cases | 491 | |
|---|------------|---------|
| Notification rate per 100 000 | 4.9 | |
| New ^a and relapses | 477 | |
| New ^a and relapses notification rate per 100 000 | 4.7 | |
| Pulmonary | 334 | (68.0%) |
| of which microscopy-positive | 106 | (31.7%) |
| of which laboratory-confirmed | 292 | (87.4%) |
| Laboratory-confirmed TB cases | 408 | (83.1%) |
| Mean age of new native TB cases | 46.4 years | |
| Mean age of new foreign TB cases | 35.9 | years |
| Foreign origin of all TB cases | 423 | (86.2%) |
| New (not previously treated) | 468 | (95.3%) |
| Estimate | | |
| Estimated new and relapsed cases N, (best-low-high) | 550-4 | 70-630 |

^a Cases with unknown previous TB history included in new cases.

Drug resistance surveillance and TB/HIV coinfection, 2018

| Completeness of DRS data ^a | ١ | /es |
|---|-----|---------|
| Completeness of HIV datab | - | |
| Case-linked data reporting | Yes | |
| Cases with DST results | 407 | (99.8%) |
| Estimated RR TB among notified bac conf pulmonary TB cases N, (best–low–high) | 8- | 3-14 |
| Pulmonary MDR-TB cases notified | 7 | (2.4%) |
| of which XDR-TB cases | 0 | (0.0%) |
| Notified MDR-TB | 13 | (3.2%) |
| of which XDR-TB cases | 0 | (0.0%) |
| TB cases tested for HIV | | - |
| HIV-positive TB cases | - | - |
| of these on ART | - | - |
| | | |

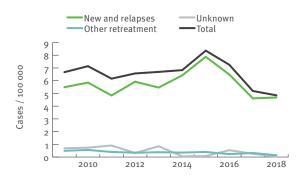
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases \gt 50%, DST done for C+ \gt 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

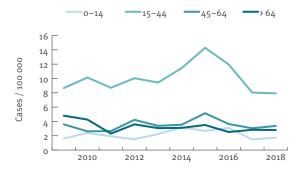
| Geographical coverage | Nat | tional | | | |
|----------------------------|---|---------|---|---------|--|
| Outcome cohort | New culture positive pulmonary TB cases notified in 2017° | | All MDR-TB cases notified in 2016 ^b | | |
| Case-linked data reporting | ١ | /es | | | |
| Cases notified | 252 | | | 22 | |
| Success | 210 | (83.3%) | 20 | (90.9%) | |
| Died | 12 | (4.8%) | 1 | (4.5%) | |
| Failed | 0 | (0.0%) | 0 | (0.0%) | |
| Lost to follow-up | 5 | (2.0%) | 0 | (0.0%) | |
| Still on treatment | 8 | (3.2%) | 0 | (0.0%) | |
| Not evaluated | 17 | (6.7%) | 1 | (4.5%) | |

^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

TB notification rates by treatment history, 2009-2018



New and relapsed TB cases – notification rates by age group, 2009-2018



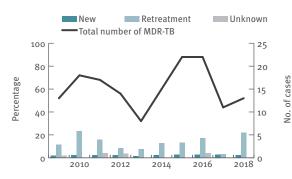
TB cases by geographical origin, 2009-2018

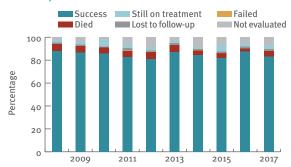


TB/HIV coinfection, 2009-2018

Data not available

MDR-TB cases by previous treatment history, 2009-2018





Switzerland

Population estimate 2018 by UN Statistical Database: 8 525 61

TB case notifications, 2018

| Total number of cases | 516 | |
|---|---------------|---------|
| Notification rate per 100 000 | 6.1 | |
| New ^a and relapses | 473 | |
| New ^a and relapses notification rate per 100 000 | 5.5 | |
| Pulmonary | 337 | (71.2%) |
| of which microscopy-positive | | |
| of which laboratory-confirmed | 317 | (94.1%) |
| Laboratory-confirmed TB cases | 342 | (66.3%) |
| Mean age of new native TB cases | 40.4 years | |
| Mean age of new foreign TB cases | - years | |
| Foreign origin of all TB cases | 352 | (68.2%) |
| New (not previously treated) | 473 | (91.7%) |
| Estimate | | |
| Estimated new and relapsed cases N, (best-low-high) | 540 (470-630) | |

^a Cases with unknown previous TB history included in new cases.

Drug resistance surveillance and TB/HIV coinfection, 2018

| Completeness of DRS data ^a | , | /es |
|---|-----|---------|
| Completeness of HIV datab | No | |
| Case-linked data reporting | Yes | |
| Cases with DST results | 276 | (80.7%) |
| Estimated RR TB among notified bac conf pulmonary TB cases N, (best-low-high) | 10 | (4-17) |
| Pulmonary MDR-TB cases notified | 4 | (1.4%) |
| of which XDR-TB cases | 1 | (25.0%) |
| Notified MDR-TB | 4 | (1.4%) |
| of which XDR-TB cases | 1 | (25.0%) |
| TB cases tested for HIV | 0 | (0.0%) |
| HIV-positive TB cases | - | - |
| of these on ART | - | - |

 $[^]a$ National coverage 100% or culturing \geq 90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA \geq 95%. b More than 50% of TB cases with reported HIV status.

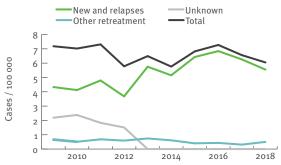
of cases

Treatment outcome monitoring

| Geographical coverage | Nat | tional | | |
|----------------------------|--|---------|---|---------|
| Outcome cohort | New culture positive pulmonary TB cases notified in 2017 ^a All MDR-TB cases | | | |
| Case-linked data reporting | ١ | /es | | |
| Cases notified | 518 | | | 17 |
| Success | 406 | (78.4%) | 8 | (47.1%) |
| Died | 23 | (4.4%) | 0 | (0.0%) |
| Failed | 0 | (0.0%) | 0 | (0.0%) |
| Lost to follow-up | 13 | (2.5%) | 1 | (5.9%) |
| Not evaluated | 76 | (14.7%) | 8 | (47.1%) |
| | | | | |

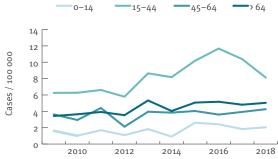
 $^{^{\}rm a}$ Treatment outcome as presented is treatment outcome after 12 months. $^{\rm b}$ Treatment outcome as presented is treatment outcome after 24 months.

TB notification rates by treatment history, 2009–2018



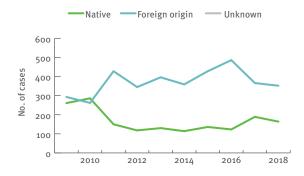
^a Starting from 2013 onward, cases with unknown history are included in new and relapses.

New and relapsed TB cases – notification rates by age group, 2009–2018^a

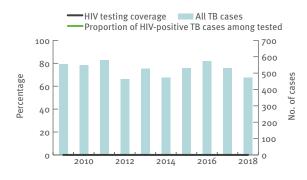


^a Data up to 2012 includes new TB cases only

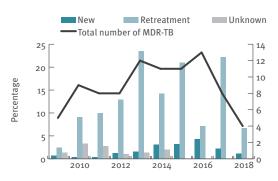
TB cases by geographical origin, 2009-2018



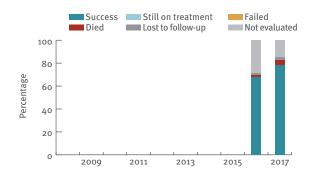
TB/HIV coinfection, 2009-2018



MDR-TB cases by previous treatment history, 2009-2018



Treatment outcome, new and relapsed TB cases, 2008-2017



Tajikistan

Population estimate 2018 by UN Statistical Database: 9 100 835

TB case notifications, 2018

| Total number of cases | 5 975 | |
|---|-----------------|---------|
| Notification rate per 100 000 | 65.7 | |
| New ^a and relapses | 57 | 726 |
| New ^a and relapses notification rate per 100 000 | 62.9 | |
| Pulmonary | 4 153 | (72.5%) |
| of which microscopy-positive | | |
| of which laboratory-confirmed | 2 870 | (69.1%) |
| Laboratory-confirmed TB cases | 3037 | (50.8%) |
| Mean age of new native TB cases | 36.7 years | |
| Mean age of new foreign TB cases | - years | |
| Foreign origin of all TB cases | 0 | (0.0%) |
| New (not previously treated) | 5102 | (85.4%) |
| Estimate | | |
| Estimated new and relapsed cases N, (hest-low-high) | 7600 (5900-9600 | |

^a Cases with unknown previous TB history included in new cases

Drug resistance surveillance and TB/HIV coinfection, 2018

| Completeness of DRS data ^a | Υ | 'es |
|---|---------------|---------|
| Completeness of HIV datab | Yes | |
| Case-linked data reporting | Yes | |
| Cases with DST results | 3 037 (100.0% | |
| Estimated RR TB among notified bac conf pulmonary TB cases N, (best–low–high) | 740 (6 | 80-800) |
| Pulmonary MDR-TB cases notified | 416 | (13.7%) |
| of which XDR-TB cases | 52 | (16.7%) |
| Notified MDR-TB | 904 | (29.8%) |
| of which XDR-TB cases | 56 | (9.6%) |
| TB cases tested for HIV | 5545 | (96.8%) |
| HIV-positive TB cases | 227 | (4.1%) |
| of these on ART | 178 | (78.4%) |
| | | |

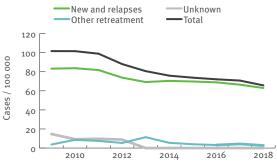
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases \gt 50%, DST done for C+ \gt 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

| Geographical coverage | Nati | ional | | |
|----------------------------|---|---------|---|---------|
| Outcome cohort | New and relapsed TB cases notified in 2017 ^a | | All RR/MDR-TB cases enrolled int second-line treatm in 2016 ^b | |
| Case-linked data reporting | Υ | es | | |
| Cases notified | 5 | 259 | (| 581 |
| Success | 4 789 | (91.1%) | 440 | (64.6%) |
| Died | 205 | (3.9%) | 115 | (16.9%) |
| Failed | 78 | (1.5%) | 62 | (9.1%) |
| Lost to follow-up | 144 | (2.7%) | 58 | (8.5%) |
| Not evaluated | 43 | (0.8%) | 6 | (0.9%) |

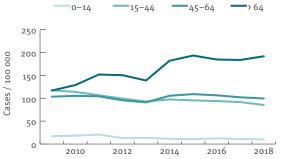
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

TB notification rates by treatment history, 2009-2018



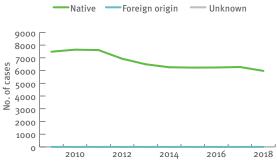
^a Starting from 2013 onward, cases with unknown history are included in new and relapses.

New and relapsed TB cases – notification rates by age group, 2009–2018°



^a Data up to 2012 includes new TB cases only

TB cases by geographical origin, 2009-2018





2014

0

2018

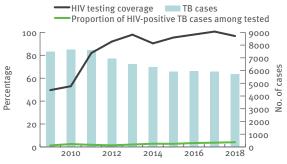
2016

0

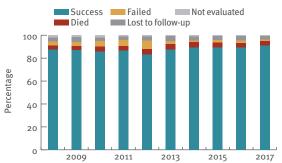
2010

2012

TB/HIV coinfection, 2009-2018a



^a Data up to 2014 include all TB cases.



^a 2008–2011 cohorts include new cases only.

Turkey

Population estimate 2018 by UN Statistical Database: 82 340 088

TB case notifications, 2018

| Total number of cases | 11 786 | |
|---|------------------------|---------|
| Notification rate per 100 000 | 14.3 | |
| New ^a and relapses | 11576 | |
| New ^a and relapses notification rate per 100 000 | 14.1 | |
| Pulmonary | 7 559 | (65.3%) |
| of which microscopy-positive | | |
| of which laboratory-confirmed | 5 861 | (77.5%) |
| Laboratory-confirmed TB cases | 5995 | (50.9%) |
| Mean age of new native TB cases | 44.0 years | |
| Mean age of new foreign TB cases | - years | |
| Foreign origin of all TB cases | 1 278 | (10.8%) |
| New (not previously treated) | 10948 | (92.9%) |
| Estimate | | |
| Estimated new and relapsed cases N, (best-low-high) | 13000 (11000-15000) | |
| | | |

^a Cases with unknown previous TB history included in new cases.

Drug resistance surveillance and TB/HIV coinfection, 2018

| Completeness of DRS data ^a | Υ | es |
|---|---------|---------|
| Completeness of HIV datab | Υ | es |
| Case-linked data reporting | Υ | es |
| Cases with DST results | 5 16 4 | (86.1%) |
| Estimated RR TB among notified bac conf pulmonary TB cases N, (best-low-high) | 250 (2: | 20-280) |
| Pulmonary MDR-TB cases notified | 167 | (3.2%) |
| of which XDR-TB cases | 8 | (6.7%) |
| Notified MDR-TB | 216 | (4.2%) |
| of which XDR-TB cases | 8 | (5.6%) |
| TB cases tested for HIV | 8234 | (71.1%) |
| HIV-positive TB cases | 67 | (0.8%) |
| of these on ART | 52 | (77.6%) |
| | | |

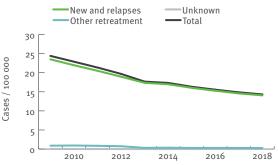
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases \gt 50%, DST done for C+ \gt 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

| Geographical coverage | Nati | ional | | |
|----------------------------|---|---------|--|---------|
| Outcome cohort | New and relapsed TB cases notified in 2017 ^a | | All RR/MDR-TB cases enrolled int second-line treatme in 2016 ^b | |
| Case-linked data reporting | Υ | es | | |
| Cases notified | 11 | 638 | | 211 |
| Success | 10 014 | (86.0%) | 131 | (62.1%) |
| Died | 803 | (6.9%) | 19 | (9.0%) |
| Failed | 32 | (0.3%) | 16 | (7.6%) |
| Lost to follow-up | 320 | (2.7%) | 27 | (12.8%) |
| Not evaluated | 469 | (4.0%) | 18 | (8.5%) |

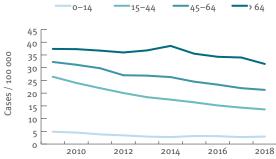
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

TB notification rates by treatment history, 2009-2018



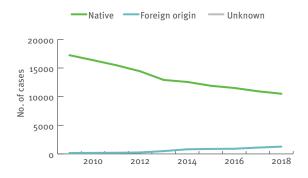
^a Starting from 2013 onward, cases with unknown history are included in new and relapses.

New and relapsed TB cases – notification rates by age group, $2009-2018^a$

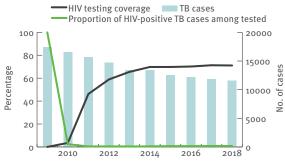


^a Data up to 2012 includes new TB cases only.

TB cases by geographical origin, 2009-2018

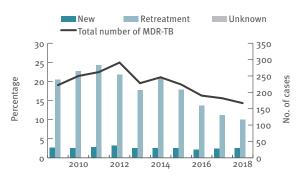


TB/HIV coinfection, 2009-2018a

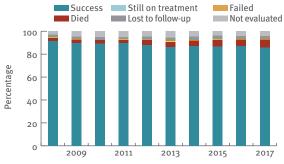


^a Data up to 2014 include all TB cases.

MDR-TB cases by previous treatment history, 2009-2018



Treatment outcome, new and relapsed TB cases, 2008–2017^a



 $^{\mbox{\tiny a}}$ 2008–2011 cohorts include new cases only.

Turkmenistan

Population estimate 2018 by UN Statistical Database: 5 850 90

TB case notifications, 2018

| Total number of cases | 2 636 | |
|---|------------------|---------|
| Notification rate per 100 000 | 45.1 | |
| New ^a and relapses | 2157 | |
| New ^a and relapses notification rate per 100 000 | 36.9 | |
| Pulmonary | 1 611 | (74.7%) |
| of which microscopy-positive | | |
| of which laboratory-confirmed | 782 | (48.5%) |
| Laboratory-confirmed TB cases | 854 | (32.4%) |
| Mean age of new native TB cases | 41.0 years | |
| Mean age of new foreign TB cases | - years | |
| Foreign origin of all TB cases | 0 | (0.0%) |
| New (not previously treated) | 1981 | (75.2%) |
| Estimate | | |
| Estimated new and relapsed cases N, (best-low-high) | 2700 (2100-3400) | |

^a Cases with unknown previous TB history included in new cases.

Drug resistance surveillance and TB/HIV coinfection, 2018

| N | 0 |
|---------|---------|
| No | |
| Ye | es. |
| | |
| 270 (25 | 0-300) |
| - | - |
| - | - |
| - | - |
| - | - |
| - | - |
| - | - |
| - | - |
| | N Ye |

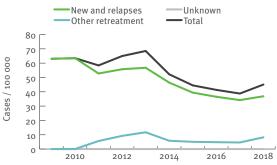
 $[^]a$ National coverage 100% or culturing 90%, C+/all TB cases >50%, DST done for C+ >75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

| Geographical coverage | Nat | ional | | |
|----------------------------|---|---------|---|---------|
| Outcome cohort | New and relapsed TB cases notified in 2017 ^a | | All RR/MDR-TB cases enrolled into second-line treatme in 2016 ^b | |
| Case-linked data reporting | Υ | es | | |
| Cases notified | 1 | 968 | | 557 |
| Success | 1 676 | (85.2%) | 303 | (54.4%) |
| Died | 64 | (3.3%) | 93 | (16.7%) |
| Failed | 116 | (5.9%) | 99 | (17.8%) |
| Lost to follow-up | 78 | (4.0%) | 52 | (9.3%) |
| Not evaluated | 34 | (1.7%) | 10 | (1.8%) |
| | | | | |

^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

TB notification rates by treatment history, 2009-2018



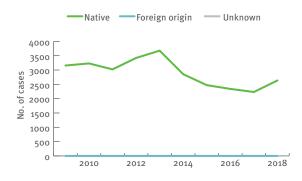
^a Starting from 2013 onward, cases with unknown history are included in new and relapses.

New and relapsed TB cases – notification rates by age group, 2009–2018°

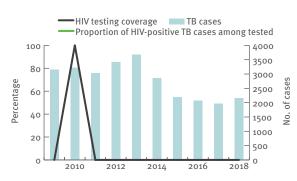


^a Data up to 2012 includes new TB cases only.

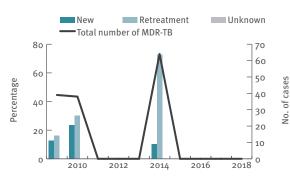
TB cases by geographical origin, 2009-2018



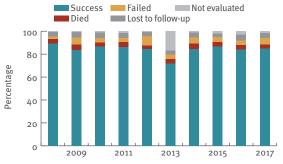
TB/HIV coinfection, 2006-2014



MDR-TB cases by previous treatment history, 2009-2018



Treatment outcome of new TB cases, 2008-2017^a



^a 2008–2011 cohorts include new cases only.

Ukraine

Population estimate 2018 by UN Statistical Database: 44 246 156

TB case notifications, 2018

| Total number of cases | 30 378 | |
|---|------------------------|---------|
| Notification rate per 100 000 | 68.7 | |
| New ^a and relapses | 26512 | |
| New ^a and relapses notification rate per 100 000 | 59.9 | |
| Pulmonary | 24 213 | (91.3%) |
| of which microscopy-positive | | |
| of which laboratory-confirmed | 16 596 | (68.5%) |
| Laboratory-confirmed TB cases | 19705 | (64.9%) |
| Mean age of new native TB cases | 43.3 years | |
| Mean age of new foreign TB cases | - years | |
| Foreign origin of all TB cases | 47 | (0.2%) |
| New (not previously treated) | 21323 | (70.2%) |
| Estimate | | |
| Estimated new and relapsed cases N, (best-low-high) | 36000 (23000-51000) | |

^a Cases with unknown previous TB history included in new cases.

Drug resistance surveillance and TB/HIV coinfection, 2018

| Completeness of DRS data ^a | Υ | es |
|---|----------|-----------|
| Completeness of HIV datab | Υ | es |
| Case-linked data reporting | Υ | es |
| Cases with DST results | 18 568 | (94.2%) |
| Estimated RR TB among notified bac conf pulmonary TB cases N, (best-low-high) | 6900 (68 | 300-7000) |
| Pulmonary MDR-TB cases notified | 5054 | (27.2%) |
| of which XDR-TB cases | 972 | (19.2%) |
| Notified MDR-TB | 6475 | (34.9%) |
| of which XDR-TB cases | 1028 | (15.9%) |
| TB cases tested for HIV | 26312 | (99.2%) |
| HIV-positive TB cases | 6053 | (23.0%) |
| of these on ART | 4806 | (79.4%) |
| | | |

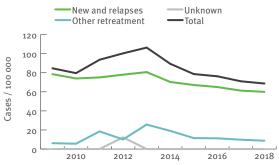
 $[^]a$ National coverage 100% or culturing \geq 90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA \geq 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

| Geographical coverage | Nati | ional | | |
|----------------------------|----------|--------------------------------|--|---------|
| Outcome cohort | TB cases | relapsed s notified 017ª | All RR/MDR-TB cases enrolled int second-line treatme in 2016 ^b | |
| Case-linked data reporting | Υ | es | | |
| Cases notified | 21 | 165 | 7 | 277 |
| Success | 16 189 | (76.5%) | 3590 | (49.3%) |
| Died | 2050 | (9.7%) | 1160 | (15.9%) |
| Failed | 1574 | (7.4%) | 1308 | (18.0%) |
| Lost to follow-up | 1290 | (6.1%) | 1149 | (15.8%) |
| Not evaluated | 62 | (0.3%) | 70 | (1.0%) |

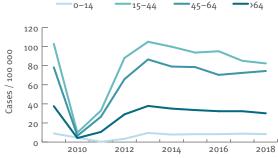
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

TB notification rates by treatment history, 2009-2018



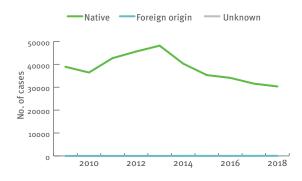
^a Starting from 2013 onward, cases with unknown history are included in new and relapses.

New and relapsed TB cases – notification rates by age group, $2009-2018^{a}$

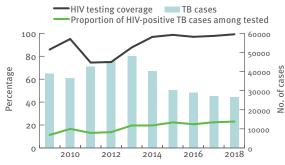


^a Data up to 2012 includes new TB cases only

TB cases by geographical origin, 2009-2018

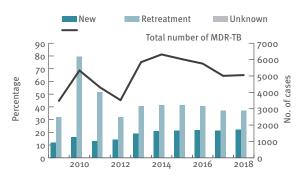


TB/HIV coinfection, 2009-2018a

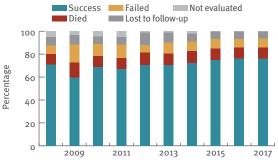


^a Data up to 2014 include all TB cases.

MDR-TB cases by previous treatment history, 2009-2018



Treatment outcome, new and relapsed TB cases, 2008–2017^a



 $^{^{\}mbox{\tiny a}}$ 2008–2011 cohorts include new cases only.

United Kingdom Total population at 10 May 2019 by EUROSTAT: 66 273 576

TB case notifications, 2018

| Total number of cases | 5 075 | |
|---|-------------------|---------|
| Notification rate per 100 000 | 7.7 | |
| New ^a and relapses | 4 775 | |
| New ^a and relapses notification rate per 100 000 | 7.2 | |
| Pulmonary | 2 948 | (58.1%) |
| of which microscopy-positive | 1 221 | (41.4%) |
| of which laboratory-confirmed | 2 197 | (74.5%) |
| Laboratory-confirmed TB cases | 3 147 | (62.0%) |
| Mean age of new native TB cases | 44.6 years | |
| Mean age of new foreign TB cases | 42.1 years | |
| Foreign origin of all TB cases | 3 501 | (69.0%) |
| New (not previously treated) | 4 775 | (94.1%) |
| Estimate | | |
| Estimated new and relapsed cases N, (best-low-high) | 5 400-4 800-5 900 | |
| | | |

^a Cases with unknown previous TB history included in new cases

Drug resistance surveillance and TB/HIV coinfection, 2018

| Completeness of DRS data ^a | Υ | es |
|---|----------|---------|
| Completeness of HIV datab | Yes | |
| Case-linked data reporting | Yes | |
| Cases with DST results | 3 099 | (98.5%) |
| Estimated RR TB among notified bac conf pulmonary TB cases N, (best-low-high) | 35-23-48 | |
| Pulmonary MDR-TB cases notified | 25 | (1.2%) |
| of which XDR-TB cases | 3 | (15.0%) |
| Notified MDR-TB | 37 | (1.2%) |
| of which XDR-TB cases | 3 | (10.3%) |
| TB cases tested for HIV | 4 323 | (85.2%) |
| HIV-positive TB cases | 123 | (2.8%) |
| of these on ART | 100 | (81.3%) |
| | | |

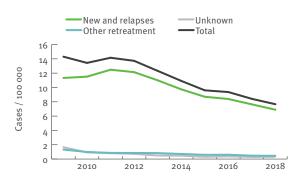
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases \gt 50%, DST done for C+ \gt 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

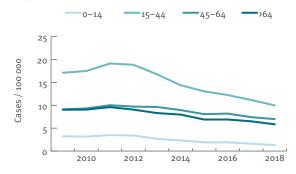
| Geographical coverage | Nat | ional | | |
|----------------------------|---|---------|---|---------|
| Outcome cohort | New culture positive pulmonary TB cases notified in 2017 ^a | | All MDR-TB cases notified in 2016 ^b | |
| Case-linked data reporting | Yes | | | |
| Cases notified | 2 121 | | 58 | |
| Success | 1639 | (77.3%) | 34 | (58.6%) |
| Died | 147 | (6.9%) | 6 | (10.3%) |
| Failed | 0 | (0.0%) | 0 | (0.0%) |
| Lost to follow-up | 127 | (6.0%) | 7 | (12.1%) |
| Still on treatment | 170 | (8.0%) | 10 | (17.2%) |
| Not evaluated | 38 | (1.8%) | 1 | (1.7%) |

^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

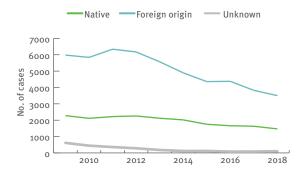
TB notification rates by treatment history, 2009-2018



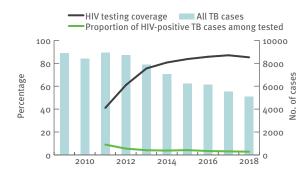
New and relapsed TB cases - notification rates by age group, 2009-2018



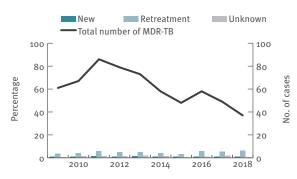
TB cases by geographical origin, 2009-2018

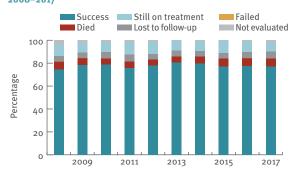


TB/HIV coinfection, 2009-2018



MDR-TB cases by previous treatment history, 2009-2018





Uzbekist

TB case notifications, 2018

| Total number of cases | 18 496 | |
|---|---------------------|---------|
| Notification rate per 100 000 | 57.0 | |
| New ^a and relapses | 16413 | |
| New ^a and relapses notification rate per 100 000 | 50.5 | |
| Pulmonary | 10 811 | (65.9%) |
| of which microscopy-positive | | |
| of which laboratory-confirmed | 5 929 | (54.8%) |
| Laboratory-confirmed TB cases | 6841 | (37.0%) |
| Mean age of new native TB cases | 40.6 years | |
| Mean age of new foreign TB cases | - years | |
| Foreign origin of all TB cases | 0 | (0.0%) |
| New (not previously treated) | 14162 | (76.6%) |
| Estimate | | |
| Estimated new and relapsed cases N, | 23000 (16000-31000) | |

^a Cases with unknown previous TB history included in new cases.

Drug resistance surveillance and TB/HIV coinfection, 2018

| Completeness of DRS data ^a | Yes | |
|---|------------------|----------|
| Completeness of HIV datab | Yes | |
| Case-linked data reporting | Yes | |
| Cases with DST results | 6 841 | (100.0%) |
| Estimated RR TB among notified bac conf pulmonary TB cases N, (best–low–high) | 1400 (1400-1500) | |
| Pulmonary MDR-TB cases notified | 816 | (11.9%) |
| of which XDR-TB cases | 0 | (0.0%) |
| Notified MDR-TB | 1422 | (20.8%) |
| of which XDR-TB cases | 400 | (22.9%) |
| TB cases tested for HIV | 16413 | (100.0%) |
| HIV-positive TB cases | 736 | (4.5%) |
| of these on ART | 612 | (83.2%) |
| | | |

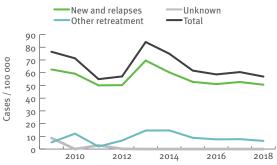
^a National coverage 100% or culturing 90%, C+/all TB cases 50%, DST done for C+75%, EQA 95%. ^b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

| Geographical coverage | Nati | ional | | |
|----------------------------|---|---------|---|---------|
| Outcome cohort | New and relapsed TB cases notified in 2017 ^a | | All RR/MDR-TB cases enrolled into second-line treatment in 2016 ^b | |
| Case-linked data reporting | Υ | es | | |
| Cases notified | 15 167 | | 1986 | |
| Success | 13 554 | (89.4%) | 1140 | (57.4%) |
| Died | 698 | (4.6%) | 311 | (15.7%) |
| Failed | 154 | (1.0%) | 109 | (5.5%) |
| Lost to follow-up | 331 | (2.2%) | 244 | (12.3%) |
| Not evaluated | 430 | (2.8%) | 182 | (9.2%) |

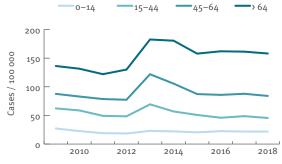
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

TB notification rates by treatment history, 2009-2018



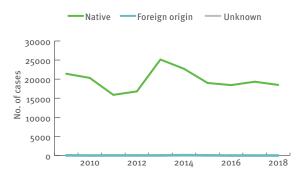
^a Starting from 2013 onward, cases with unknown history are included in new and relapses.

New and relapsed TB cases - notification rates by age group, 2009-2018°

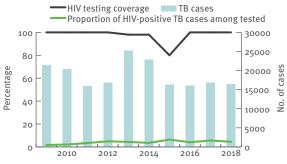


^a Data up to 2012 includes new TB cases only

TB cases by geographical origin, 2009-2018

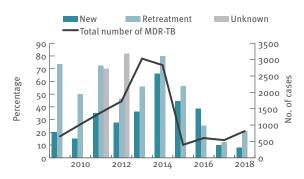


TB/HIV coinfection, 2009-2018a

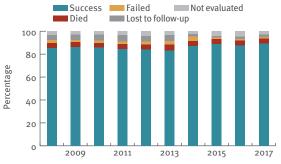


^a Data up to 2014 include all TB cases.

MDR-TB cases by previous treatment history, 2009-2018



Treatment outcome, new and relapsed TB cases, 2008-2017a



a 2008-2011 cohorts include new cases only.



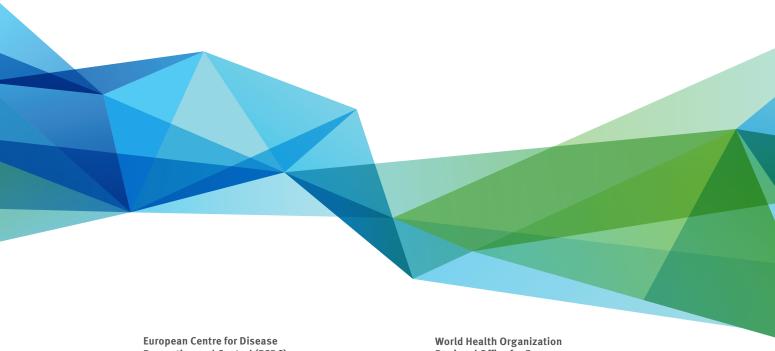
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