

Tuberculosis surveillance and monitoring in Europe

2021

2019 data

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Abstract

With almost 260 000 tuberculosis (TB) cases reported in 2019, TB remains a major public health problem in the WHO European Region, including the countries of the European Union/European Economic Area (EU/EEA). This report provides an overview of the latest TB epidemiological situation and is published jointly by the WHO Regional Office for Europe and the European Centre for Disease Prevention and Control (ECDC). It finds that epidemic patterns and trends vary widely, with the EU/EEA approaching the low incidence level of 9.2 per 100 000 population while the Region has nine out of 30 countries with the highest multidrug-resistant TB burden in the world. Overall, TB mortality and incidence rates have fallen. Despite the notable progress achieved in the fight against TB, countries still face a variety of challenges in reaching the goal to end the TB epidemic in the Region.

Keywords

TUBERCULOSIS – EPIDEMIOLOGY TB – EPIDEMIOLOGY TB SURVEILLANCE

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¹ All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1990).

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

EQA European Economic Area
EQA external quality assessment

ERLTB-Net European Tuberculosis Reference Laboratory Network

EU European Union

EU/EEA European Union/European Economic Area

HPCs high-priority countries
MDR multidrug resistance

MDR-TB multidrug-resistant tuberculosis

RR relative risk

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

WRD WHO-recommended rapid diagnostics

XDR extensive drug resistance

XDR-TB extensively drug-resistant tuberculosis

Executive summary

Executive summary

The WHO European Region

The data in this report present tuberculosis (TB) notifications through to the end of 2019, the period just before the global COVID-19 pandemic began. The impact of the pandemic on laboratory, clinical and public health institutions involved in TB surveillance and response has been felt during the data-collection and preparation stages of the report, with several countries and areas requiring more time than usual to submit their 2019 TB data. Several found that it was not possible to report some variables at all or at levels concordant with the past. The European Centre for Disease Prevention and Control (ECDC) and the WHO Regional Office for Europe, in collaboration with Member States and partners, will look carefully at the impact of COVID-19 on TB surveillance to ensure the continuing high standard of European TB data.

Despite the notable progress achieved in the fight against 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 2019 saw a further decrease in TB, with 246 000 incident TB cases (214 000–280 000) estimated in the WHO European Region, corresponding to 26 cases (23–30) per 100 000 population. During the period 2015–2019 the average annual decline in the TB incidence rate was 5.0%, which is the fastest decline among all WHO regions. The cumulative reduction for the period 2015–2019 was 19.0%, indicating that the Region has almost reached the 2020 End TB Strategy milestone to reduce the TB incidence rate in 2020 by 20% against the 2015 baseline, and is on track to achieve the regional action plan target of a 25% reduction in the TB incidence rate.

In 2019, there were an estimated 20 000 TB deaths among HIV-negative people in the European Region, a cumulative 57.0% decrease since 2010 and equivalent to 2.2 deaths per 100 000 population (range 2.1–2.3). The regional mortality decline was 9.4% between 2018 and 2019, which is notably higher than the average global decline in TB mortality (3.7% between 2018 and 2019).

In 2019, there were an estimated 70 000 new cases of rifampicin-resistant and multidrug-resistant TB (RR/MDR-TB) in the Region, with 46 000 estimated among notified bacteriologically confirmed pulmonary TB patients. This represents around 15.0% of the 465 000 global RR/MDR-TB burden. The proportion of RR/MDR-TB among new and previously treated TB cases in the Region also significantly exceeds the global average, with 17.0%

in new and 52.0% in previously treated cases compared to 3.3% and 18.0% respectively.

HIV prevalence in incident TB cases was estimated to be 12.0% in 2019, marking the third year of halted growth after an unprecedented increase from 3.0% to 12.0% during the period 2007–2016. There were an estimated 30 000 HIV-positive TB cases in the Region, with the Russian Federation (56.7%) and Ukraine (26.0%) contributing to the highest burden of coinfection.

TB disease notification and treatment outcomes

Overall, a 20.4% decrease was observed in the notification rates of new and relapse TB cases during the period 2015–2019 (incident TB cases), from 29.2 to 23.2 cases per 100 000 population. In 2019, 215 871 incident TB cases were notified, amounting to 87.8% 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 69.3% in 2019, overachieving the initial target of 30% set in the TB regional action plan, but remaining below the global End TB Strategy target of 90%.

A total of 180 113 patients with pulmonary TB (83.4%) were notified among incident TB cases, 67.0% of which were laboratory-confirmed. Among bacteriologically confirmed pulmonary TB cases, 90.8% were tested for rifampicin resistance.

Overall, 32.2% of pulmonary TB patients who were reported as having been tested for drug susceptibility had RR/MDR-TB. Prevalence of RR/MDR-TB among new and previously treated bacteriologically confirmed pulmonary TB cases was 21.1% and 54.4% respectively.

There has been an increasing trend in extensively drugresistant TB (XDR-TB) and with 94.5% second-line drugsusceptibility testing (DST) coverage, 22.5% of pulmonary MDR-TB cases had XDR-TB in 2019. In absolute numbers, XDR-TB cases among pulmonary TB cases increased from 955 in 2015 to 7259 in 2019, largely due to the increase in the number of countries and areas reporting on secondline DST data.

Of the new and relapse TB patients notified from countries and areas reporting HIV testing data, 93.5% were screened for HIV. A total of 25 o6o TB cases were detected with HIV-positive status, which is 14.5% of those tested, representing some increase compared to the last year (13.0% in 2018).

A total of 18 836 (75.8%) 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 coinfected 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 76.5% and 58.6% respectively, which is comparable with the previous year's results.

Conclusions

Analysis of the 2019 TB surveillance data shows that 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 the 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 TB regional action plan. However, COVID-19 may jeopardize this progress; the impact of the pandemic on TB service delivery and TB notifications has already been documented and reported from a few high TB burden countries (1).

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 2019, 49 752 cases of TB were reported in 29 European Union and European Economic Area (EU/EEA) countries (Latvia and Liechtenstein did not report any case-based data), resulting in a notification rate of 9.6 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, 38 267 (76.9%) were newly diagnosed and 33 368 (67.1%) were confirmed by culture, or smear and nucleic acid amplification test. In 2019, adults aged between 25 and 64 years accounted for 65.3% of all new and relapse TB cases, while children under 15 years accounted for 4.1% of all new and relapse TB cases. Romania reported the highest notification rates among children, with 14.1 cases per 100 000 population aged between 0 and 4 years. In 2019, new and relapse TB cases were more frequently reported in males than females, with a male-to-female ratio of 1.8.

Approximately one third (34.5%) of TB cases reported in the EU/EEA in 2019 were of foreign origin, but this proportion was less than 25% in the countries with TB notification rates higher than 10 per 100 000 population (excluding Malta).

Of 24 812 cases with DST results, 834 (3.4%) had MDR-TB. The countries with the highest proportion of MDR-TB cases among cases with DST results (excluding France) were Estonia (21.3%) and Lithuania (17.0%). XDR-TB was reported for 21.9% of 584 MDR-TB cases tested for secondline drug susceptibility. The proportion of XDR-TB cases among pulmonary MDR-TB cases with results for secondline DST has remained between 20.0% and 25.0% since 2015. Lithuania and Romania reported 75.0% of the total XDR-TB cases in 2019.

The number of countries reporting data on HIV coinfection, which had peaked at 23 countries in 2016 and 2017, decreased to 21 in 2018 and again to 19 in 2019. Of the 16 088 TB cases with known HIV status, 502 (3.1%) were reported as HIV-positive.

TB in prisons remains poorly reported. For the 13 EU/EEA countries reporting data, the notification rate was 185 new and relapse TB cases per 100 000 prison population, and prisoners had a relative risk of 15.8 compared to the general population in the same countries.

Of all 42 811 TB cases notified in 2018 with a treatment outcome reported in 2019, 63.7% were treated successfully, 6.7% died and 0.8% experienced treatment failure. Of 937 MDR-TB cases notified in 2017 with a treatment outcome reported in 2019, 45.7% were treated successfully, 15.2% died and 11.0% experienced treatment failure. Treatment success was reported only for 34.9% of XDR-TB cases notified in 2016, while 26.2% of cases were reported to have died and 18.0% experienced treatment failure.

Conclusions

In 2019, 29 of 31 EU/EEA countries reported TB notification data. There was a further decline in the overall TB notification rate (9.6 per 100 000 population), continuing the trend observed since 2002. However, there is significant work ahead to achieve the United Nations Sustainable Development Goal 3 target notification rate at EU/EEA level of 2.4 per 100 000 population by 2030. Reassuringly, the number of reported MDR-TB and XDR-TB cases continued to decline in EU/EEA countries in 2019 and account for a very small proportion of all reported TB cases in 2019.

Across all cohorts, reported treatment success remains well below the WHO targets. Of all TB cases notified in 2018 with a treatment outcome reported in 2019, only 63.7% were treated successfully. Treatment success was lower for MDR-TB cases at 24 months (43.2%) and lower still among XDR-TB cases at 36 months (34.9%), while the proportion of deaths for these cohorts was 15.0% and 26.2%, respectively.

Across the EU/EEA, TB data continue to be incomplete for HIV coinfection, TB in prisons, and for treatment

outcomes. In 2019, there were further declines in the number of countries reporting HIV status and treatment outcomes.

Reference

1. Global tuberculosis report 2020. Geneva: World Health Organization; 2020 (https://apps.who.int/iris/bitstream/handle/10665/336069/9789240013131-eng. pdf, accessed 10 February 2021).

Резюме

Европейский регион ВОЗ

В настоящем докладе представлены данные по регистрации случаев туберкулеза (ТБ) вплоть до конца 2019 г. – периода непосредственно перед началом глобальной пандемии COVID-19. Влияние пандемии на работу лабораторий, клиник и учреждений здравоохранения, которые принимают участие в эпиднадзоре за ТБ и реализации ответных мер, ощущалось на этапах сбора данных и подготовки доклада, когда нескольким странам и регионам требовалось больше времени для представления данных по ТБ за 2019 г., чем обычно. Некоторые страны сообщили о невозможности сбора данных по ряду переменных или в объемах, сопоставимых с объемом прошлых лет. Европейский центр по контролю и профилактике заболеваний (ЕЦКЗ) и Европейское региональное бюро ВОЗ в сотрудничестве с государствами-членами и партнерами внимательно изучат влияние COVID-19 на эпиднадзор за ТБ, чтобы сохранить неизменно высокий стандарт европейских данных по ТБ.

Несмотря на заметный прогресс в борьбе с ТБ в Европейском регионе ВОЗ и, как следствие, стабильное снижение заболеваемости, туберкулез и особенно его лекарственно-устойчивая форма по-прежнему представляют угрозу общественному здоровью в большинстве стран и территорий Региона, и эту угрозу нельзя недооценивать.

Бремя ТБ

В 2019 г. наблюдалось дальнейшее снижение заболеваемости ТБ: расчетное число новых случаев и рецидивов ТБ в Европейском регионе ВОЗ составило 246 000 (214 000-280 000), что соответствует 26 случаям (23-30) на 100 000 населения. В период 2015-2019 гг. заболеваемость туберкулезом снижалась в среднем на 5,0% в год, – это самые быстрые темпы снижения среди всех регионов ВОЗ. Совокупное снижение за период 2015-2019 гг. составило 19,0%, свидетельствуя о том, что Регион почти достиг промежуточного показателя на 2020 г., установленного в Стратегии по ликвидации ТБ (снижение заболеваемости ТБ к 2020 г. на 20% по сравнению с базовым уровнем 2015 г.), и находится на пути к достижению целевого ориентира Регионального плана действий - снижение заболеваемости ТБ на 25%.

Расчетное число смертей от ТБ среди ВИЧ-отрицательных больных в Европейском регионе ВОЗ в 2019 г. составило 20 000, что на 57,0% меньше, чем в 2010 г., и эквивалентно 2,2 случая смерти на 100 000 населения (диапазон 2,1—2,3). Региональное снижение смертности в период с 2018 по 2019 год составило 9,4%, что значительно

выше среднего показателя снижения смертности от ТБ в мире (3,7% в период с 2018 по 2019 г.).

В 2019 г. расчетное число новых случаев ТБ с лекарственной устойчивостью возбудителя к рифампицину и множественной лекарственной устойчивостью (РУ/МЛУ-ТБ) в Регионе составило около 70 000, причем примерно 46 000 из них были выявлены среди больных ТБ легких с бактериологически подтвержденным диагнозом. Это соответствует приблизительно 15,0% от 465 000 случаев РУ/МЛУ-ТБ во всем мире. Доля РУ/МЛУ-ТБ среди новых и ранее леченных случаев ТБ в Регионе также значительно превышает среднемировой показатель: 17,0% среди новых и 52,0% среди ранее леченных случаев, по сравнению с 3,3% и 18,0% соответственно.

Расчетная распространенность ВИЧ-инфекции среди новых случаев и рецидивов ТБ в 2019 г. составила 12,0%; это означает, что данный показатель не увеличивался уже три года подряд после беспрецедентного повышения 3,0% до 12,0% в период 2007-2016 гг. Расчетное число ВИЧ-положительных больных ТБ в Регионе составило 30 000, при этом наибольшее бремя сочетанной инфекции приходится на Российскую Федерацию (56,7%) и Украину (26,0%).

Регистрация случаев ТБ и исходы лечения

В целом в период 2015—2019 гг. наблюдалось снижение показателей регистрации новых случаев и рецидивов ТБ на 20,4%—с 29,2 до 23,2 случая на 100 000 населения. В 2019 г. был зарегистрирован 215 871 случай заболевания ТБ, что составляет 87,8% от расчетного числа новых случаев и рецидивов заболевания в Регионе.

Процент впервые выявленных больных ТБ, прошедших тестирование с использованием рекомендованных ВОЗ быстрых диагностических тестов, вырос с 45,3% в 2015 г. до 69,3% в 2019 г., превысив первоначальный целевой показатель — 30%, предусмотренный Региональным планом действий по борьбе с ТБ, но оставаясь ниже целевого ориентира Глобальной стратегии по ликвидации туберкулеза — 90%.

В общей структуре новых случаев и рецидивов ТБ было зарегистрировано 180 113 больных ТБ легких (83,4%), у 67,0% из которых диагноз был подтвержден лабораторно. Среди больных ТБ легких с бактериологически подтвержденным диагнозом 90,8% прошли тестирование на лекарственную устойчивость возбудителя к рифампицину.

В целом 32,2% больных ТБ легких, которые, по отчетным данным, прошли тестирование на лекарственную чувствительность, имели РУ/МЛУ-ТБ. Распространенность

РУ/МЛУ-ТБ среди новых и ранее леченных бактериологически подтвержденных случаев ТБ легких составила 21,1% и 54,4% соответственно.

Наблюдается тенденция к росту числа случаев ТБ с широкой лекарственной устойчивостью (ШЛУ-ТБ); так, на фоне 94,5% охвата тестированием на лекарственную чувствительность (ТЛЧ) к противотуберкулезным препаратам второго ряда в 2019 г. 22,5% больных МЛУ-ТБ легких имели ШЛУ-ТБ. В абсолютных цифрах число случаев ШЛУ-ТБ среди больных ТБ легких выросло с 955 в 2015 г. до 7259 в 2019 г., в основном вследствие увеличения числа стран и территорий, представляющих отчетность о ТЛЧ к препаратам второго ряда.

Девяносто три с половиной процента новых случаев и рецидивов ТБ, зарегистрированных в странах и территориях, представляющих данные о тестировании на ВИЧ-инфекцию, прошли скрининг на ВИЧ. Всего было выявлено 25 обо больных ТБ с ВИЧ-положительным статусом, что составляет 14,5% от числа обследованных. Это несколько превышает аналогичный показатель предыдущего года (13,0% в 2018 г.).

По отчетным данным, общее число ВИЧ-положительных пациентов, получавших антиретровирусную терапию (АРТ), составило 18 836 (75,8%). На протяжении последних пяти лет отмечался рост охвата АРТ, однако он по-прежнему остается значительно ниже целевого показателя ВОЗ – всеобщего охвата 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% соответственно. В когорте больных ТБ показатель положительных исходов лечения составлял 76,5%, а в когорте больных РУ/МЛУ-ТБ — 58,6%, что сопоставимо с результатами предыдущего года.

Выводы

Анализ данных эпиднадзора за ТБ за 2019 г. показывает, что государствам-членам удалось добиться значительного прогресса, особенно в работе по снижению смертности от ТБ и регистрации случаев (как косвенного показателя заболеваемости ТБ), а также увеличению охвата тестированием впервые выявленных больных ТБ и больных с рецидивом заболевания с использованием рекомендованных ВОЗ экспресс-тестов. Это свидетельствует о том, что в целом Регион находится на правильном пути в своих усилиях по сдерживанию эпидемии ТБ. Большинство стран высокого приоритета уже достигли или близки к достижению промежуточных ориентиров на 2020 г., указанных в Глобальной стратегии по ликвидации ТБ, и целей, сформулированных в Региональном плане действий по борьбе с ТБ. Однако пандемия COVID-19 ставит под угрозу достигнутый прогресс: несколько стран с высоким бременем ТБ уже сообщили о зафиксированных фактах влияния пандемии на оказание противотуберкулезной помощи и регистрацию случаев ТБ (1).

Фактические данные свидетельствуют о медленном улучшении ситуации, однако показатели успешного лечения впервые выявленных больных и больных с рецидивом ТБ, а также пациентов с РУ/МЛУ-ТБ по-прежнему остаются ниже региональных и глобальных целевых ориентиров. Сохранение, несмотря на предпринятые усилия, высокого бремени РУ-ТБ и ТБ/ВИЧ подчеркивает необходимость внедрения более инновационных и эффективных подходов к диагностике и лечению ТБ и МЛУ-ТБ.

Страны Европейского союза и Европейской экономической зоны

Эпидемиология и исходы лечения

В 2019 г. в 29 странах Европейского союза и Европейской экономической зоны (EC/EЭЗ) было зарегистрировано 49 752 случая ТБ (Латвия и Лихтенштейн не представили данных о случаях заболевания), в результате чего показатель регистрации случаев составил 9,6 на 100 000 населения стран EC/EЭЗ. На протяжении последних пяти лет отмечалось снижение как общего показателя регистрации случаев, так и соответствующих показателей в большинстве стран.

Из числа всех зарегистрированных случаев ТБ 38 267 (76,9%) были выявлены впервые, и 33 368 (67,1%) — подтверждены культуральным методом или микроскопией мазка мокроты и тестом на амплификацию нуклеиновых кислот. В 2019 г. в структуре общего числа новых случаев и рецидивов ТБ взрослые в возрасте от 25 до 64 лет составили 65,3%, а дети младше 15 лет — 4,1%. Румыния зафиксировала самые высокие показатели регистрации случаев ТБ среди детей: 14,1 случая на 100 000 населения в возрасте от 0 до 4 лет. В 2019 г. новые случаи и рецидивы ТБ чаще регистрировались среди мужчин, чем среди женщин, причем соотношение мужчин и женщин составило 1.8.

Примернотреть (34,5%) больных ТБ, зарегистрированных в странах ЕС/ЕЭЗ в 2019 г., были лицами иностранного происхождения, но в странах с показателем регистрации ТБ выше 10 на 100 000 населения (исключая Мальту) их доля составила менее 25%.

Из 24 812 больных с соответствующими результатами ТЛЧ у 834 (3,4%) был МЛУ-ТБ. Страны с наибольшей долей случаев МЛУ-ТБ (среди больных с соответствующими результатами ТЛЧ) — Литва (17,0%), Франция (100,0%) и Эстония (21,3%). ШЛУ-ТБ был зарегистрирован у 21,9% от 584 больных МЛУ-ТБ, прошедших тестирование на лекарственную чувствительность к препаратам второго ряда. Доля случаев ШЛУ-ТБ среди больных МЛУ-ТБ легких с результатами ТЛЧ к препаратам второго ряда начиная с 2015 г. колеблется в диапазоне от 20,0% до 25,0%. На долю Литвы и Румынии пришлось 75,0% от общего числа случаев ШЛУ-ТБ в 2019 г.

Число стран, представляющих данные отчетности о случаях сочетанной ВИЧ-инфекции, достигшее пика в 2016 и 2017 гг. (23 страны), сократилось до 21 в 2018 г. и до 19 в 2019 г. Из 16 о88 случаев ТБ с известным ВИЧ-статусом 502 (3,1%) были зарегистрированы как ВИЧ-положительные.

Представление данных о случаях ТБ в местах лишения свободы носит неудовлетворительный характер. Для 13 стран ЕС/ЕЭЗ, представляющих данные, показатель регистрации случаев составил 185 новых случаев и рецидивов ТБ на 100 000 заключенных, относительный риск развития ТБ у заключенных составил 15,8, по сравнению с аналогичным показателем для населения в целом в тех же странах.

Из 42 811 больных ТБ, зарегистрированных в 2018 г., исход лечения которых был зарегистрирован в 2019 г., у 63,7% лечение было успешным, 6,7% умерли, и у 0,8% лечение было неэффективным. Из 937 больных МЛУ-ТБ, зарегистрированных в 2017 г., исход лечения которых был зарегистрирован в 2019 г., у 45,7% лечение было успешным, 15,2% умерли, и у 11,0% лечение было неэффективным. Успешный исход лечения был зафиксирован лишь у 34,9% больных ШЛУ-ТБ, зарегистрированных в 2016 г., при этом 26,2% больных умерли, и у 18,0% лечение было неэффективным.

Выводы

В 2019 г. 29 из 31 страны EC/EЭЗ представили отчетные данные о регистрации случаев ТБ. Отмечалось дальнейшее снижение общего показателя регистрации случаев ТБ (9,6 на 100 000 населения), что является продолжением тенденции, наблюдаемой с 2002 г. Однако

нам предстоит проделать значительную работу для достижения к 2030 г. показателя регистрации ТБ в странах ЕС/ЕЭЗ на уровне 2,4 на 100 000 населения, в соответствии с Целью ООН в области устойчивого развития № 3. Обнадеживает то, что в 2019 г. в странах ЕС/ЕЭЗ число зарегистрированных случаев МЛУ-ТБ и ШЛУ-ТБ продолжило снижаться, и они составляли лишь небольшую долю в структуре всех зарегистрированных случаев ТБ.

Показатель успешного лечения во всех когортах пациентов остается существенно ниже целевых показателей ВОЗ. Извсех больных ТБ, зарегистрированных в 2018 г., исход лечения которых был зарегистрирован в 2019 г., только у 63,7% лечение было успешным. Показатель успешного лечения был ниже у больных МЛУ-ТБ через 24 месяца (43,2%) и еще ниже у больных ШЛУ-ТБ через 36 месяцев (34,9%), в то время как доля смертей в этих когортах составила 15,0% и 26,2% соответственно.

Данные по ТБ и сочетанной ВИЧ-инфекции, ТБ в местах лишения свободы и результатах лечения по-прежнему остаются неполными во всех странах ЕС/ЕЭЗ. В 2019 г. число стран, представляющих данные отчетности о ВИЧ-статусе и результатах лечения, еще больше сократилось.

Ссылка

 Global tuberculosis report 2020. Geneva: World Health Organization; 2020 (https://apps.who.int/iris/ bitstream/handle/10665/336069/9789240013131-eng. pdf, accessed 10 February 2021).

1. Main facts about tuberculosis

1. Main facts about tuberculosis

Tuberculosis (TB) is an infectious disease caused by a group of *Mycobacterium* species called the *Mycobacterium* tuberculosis 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 when, for example, 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 (\approx 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 TB (MDR-TB) and extensively drug-resistant TB (XDR-TB) require longer treatments with more drugs and are associated with lower success rates.

WHO estimated that 10 million people developed TB disease in 2019. Most cases were thought to occur in the WHO South-East Asia Region (44%), the WHO African Region (25%) and the WHO Western Pacific Region (18%). Smaller proportions of cases were estimated for the WHO Eastern Mediterranean Region (8.2%) and the WHO Region of the Americas (2.9%). The WHO European Region accounted for 2.5% of all cases (4).

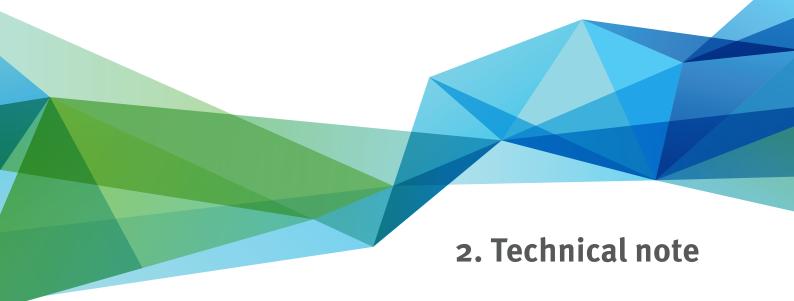
Overall, this report shows that in the European Union/ European Economic Area (EU/EEA), TB remains a public health issue. Most EU/EEA countries, however, are lowincidence countries (with a notification rate below 10 per 100 000) in which TB predominantly affects vulnerable populations, such as migrants, 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.

References²

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² All weblinks accessed 10 February 2021.



2. 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 jointly have coordinated the collection and analysis of TB surveillance data in Europe, aiming to ensure data standardization 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.

The data presented in the text and figures are augmented by:

- Tables 1–29, plus a summary table
- trends Tables I-XV
- 53 country profiles
- five annexes.

Data published in the report may differ from figures in national and area reports due to variations in reporting periods and the deadlines for data collection. The deadline for updating the data used in this report was 4 October 2020.

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 2019 electronically to the ECDC-WHO Regional Office for Europe Joint TB Information System via a common portal.3 TB surveillance data from the EU/EEA countries were later submitted 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 the WHO Tuberculosis Monitoring and Evaluation (TME) platform in aggregated format. In 2019, 29 out of 31 EU/EEA Member States reported case-based data. All countries and areas in the European Region were also asked to provide updates for 2016, 2017 and 2018 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 2019 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 surveillance systems and TB case ascertainment. Readers should be cautious when making comparisons across countries and areas, even though the quality and comparability of reported data have improved in recent years and the reporting completeness generally is high in the EU/EEA, with a few exceptions, such as HIV status and drug-susceptibility testing (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/area total population denominators by age group and gender were obtained from Eurostat (5) (25 June 2020) 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, localization of disease, laboratory results, HIV status and treatment outcome) variables. Associations between variables were, if indicated, quantified as relative risk (RR) and their 95% confidence intervals (CI), and results were considered significant if the CI did not include 1.

2.1.1 TB/HIV coinfection

Case-based HIV status for 2019 was reported by Belgium, Bulgaria, Croatia, Cyprus, Czechia, Denmark, Estonia, Greece, Hungary, Iceland, Ireland, Lithuania, Luxembourg, the Netherlands, Norway, Portugal, Romania, Slovakia and Slovenia. 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 2019, start or continuation on antiretroviral therapy (ART) was reported by seven EU/EEA Member States.

³ ECDC/WHO Europe Joint Surveillance can be accessed at: http://www.ecdcwhosurveillance.org/

2.1.2 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 78.8% of EU/EEA countries reporting the latter for the last six years (2014–2019). 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 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 and areas where DST results are linked to TB case notifications (28 in 2019). Where individual DST data are not available, data have been obtained from WHO's TME in aggregated format, when possible and deemed adequate. Information on the organization 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 DST 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 if:

- they were collected nation- or area-wide; 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 were not reported or are considered incomplete for Albania, Andorra, Bosnia and Herzegovina, Italy, Georgia, Latvia, Liechtenstein, Monaco, Serbia, Switzerland and Turkmenistan. France reported complete national DRS data only for rifampicin-resistant TB (RR-TB) cases.

EQA systems are essential for ensuring accurate diagnosis of TB and drug-resistant TB. Implementing EQA by organizing 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 2019 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 MDR-TB cases only.

2.1.3 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 and XDR-TB treatment outcome for cases reported two years earlier and additionally, XDR-TB treatment outcome for cases reported three years earlier. As part of the 2020 data call, for 2019 data, outcome data were collected for TB cases reported in 2018, MDR-TB and XDR-TB cases in 2017 and XDR-TB cases in 2016. Non-EU/EEA countries and areas have reported aggregated treatment outcome data following the same principle since 2013, except for XDR-TB treatment outcome for cases registered three years earlier, which is not reported by non-EU/EEA countries and areas.

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.

2.1.4 Geographical areas

The following 31 EU/EEA countries are presented separately in tables and in Chapter 3: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czechia, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia (case-based data not reported for 2018 or 2019), Liechtenstein (case-based data not reported for 2019), 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, Monaco, Montenegro, North Macedonia, the Republic of Moldova, the Russian Federation, San Marino, Serbia, Switzerland, Tajikistan, Turkey, Turkmenistan, Ukraine and Uzbekistan.

Data from Serbia include TB cases reported from Kosovo⁴ and these are also stratified in tables to reflect United Nations Security Council Resolution 1244 (1999).

⁴ All references to Kosovo in this document should be understood to be in the context of the 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 or 2019), Lithuania, the Republic of Moldova, Romania, the Russian Federation, Tajikistan, Turkey, Turkmenistan, Ukraine and Uzbekistan.

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

2.2 Definitions

2.2.1 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 meet the clinical criteria as well as at least one of the laboratory criteria for a probable case: detection of acid-fast bacilli (AFB) by microscopy; detection of M. tuberculosis complex by nucleic acid amplification testing; or histological appearance of granulomata. Confirmed cases require isolation of M. tuberculosis complex by culture or detection of both AFB by microscopy and M. tuberculosis complex by nucleic acid amplification testing, in addition to meeting clinical criteria.

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 postmortem 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.

2.2.2 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 and relapse cases of TB are incident TB cases.

2.2.3 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).

2.2.4 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, relapse cases are included in notifications from all countries and areas, 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.

2.2.5 Origin of cases

The geographic origin of a TB case is classified according to the place of birth of a person with TB disease (born in the country/born outside of the country) for Bulgaria, Croatia, Cyprus, Czechia, 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, Montenegro, Poland, the Republic of Moldova, the Russian Federation, 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.

2.2.6 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 reinfection with resistant bacilli

Multidrug resistance (MDR) refers to resistance to at least isoniazid and rifampicin.

Extensive drug resistance (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, MDR, polydrug resistance or XDR.

2.2.7 Treatment outcome

2.2.7.1 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 RR-TB; for non-EU/EEA countries and areas, 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 DST 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.

2.2.7.2 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.

2.2.7.3 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" applies only 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/area 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 as recommended under national/area policy but does not meet the criteria to be classified as cure or treatment failure.

⁵ The degree of adherence to the 12-month limit is unknown, and a number of countries are known to exceed it.

 $^{6\,\,}$ The degree of adherence to the 24-month limit is unknown.

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.

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:7

- 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".

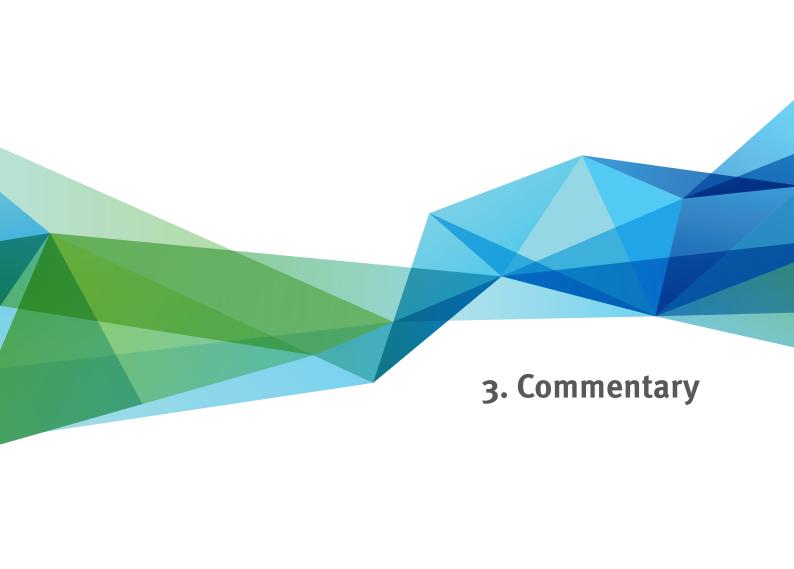
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 $^{\, 7 \,\,}$ This definition is applicable to EU/EEA countries only.

⁸ All weblinks accessed 10 February 2021.



3. Commentary

3.1 The WHO European Region

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

An estimated 246 ooo new and relapse TB cases (range 214 000–280 000) occurred in countries and areas of the WHO European Region in 2019, equivalent to an average incidence of 26 cases (23–30) per 100 000 population. This represents about 2.5% of the total burden of TB in the world

The absolute number of incident TB cases in the WHO European Region fell by 13 000 in 2019 compared to the previous year. About 83% of the estimated TB cases in the Region occur in the 18 HPCs, where estimated TB incidence was 50 cases per 100 000 population – almost five 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 (73 000), Ukraine (34 000), Uzbekistan (22 000), Romania (13 000), Turkey (13 000) and Kazakhstan (13 000). The number relative to population (incidence rate) was highest in Kyrgyzstan (110 per 100 000 population), followed by Tajikistan (83), the Republic of Moldova (80), Ukraine (77) and Georgia (74).

The estimated number of TB cases in the Region has been decreasing consistently since 2000. During the period 2010–2019, the average annual decline in the TB incidence rate was 5.0%, with 5.3% between 2018 and 2019, which is notably higher than the global rate of decline for TB incidence (2.3%) and the fastest decline in the world compared to other regions (1). The cumulative reduction for the period 2015–2019 was 19.0%, indicating that the Region has almost reached the 2020 End TB Strategy milestone to reduce the TB incidence rate in 2020 by 20% against the 2015 baseline, and is on track to achieve 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 2010-2019, the HPCs with the highest annual rate of decline were Armenia (-9.0%), Belarus (-9.0%), Kazakhstan (-8.0%), Estonia (-7.0%) and Latvia (-7.0%).

There were an estimated 20 000 TB deaths among HIV-negative people in the European Region in 2019, equivalent to 2.2 deaths per 100 000 population (range 2.1–2.3). Considerable variation was seen across the Region, ranging from less than one TB death per 100 000 population in western European countries up to 10 per 100 000 in HPCs. The TB mortality rate was highest in Turkmenistan (10.0 deaths per 100 000), followed by Tajikistan (7.9) and Ukraine (7.3). Together, the 18 HPCs accounted for over 88% of TB deaths in the Region.

Between 2010 and 2019, the TB mortality rate at regional level fell cumulatively by 56.0%, from 5.0 to 2.2 deaths per 100 000 population (Table I), which on average is a decline of 9.0% per year. This decline was 9.4% between 2018 and 2019, which is notably higher than the global rate of decline for TB mortality (3.7% between 2018 and 2019). With a cumulative reduction of 33.3% between 2015 and 2019, 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 7.8%–18.0%) of incident TB cases in 2019 were coinfected with HIV (Table 2). The proportion of TB cases coinfected with HIV was highest in the Russian Federation (23.0%), Turkmenistan (23.0%) and Ukraine (23.0%), followed by Estonia (12.0%) and the Republic of Moldova (11.0%). The top five countries with the highest absolute number of TB/HIV coinfection cases were the Russian Federation (17 000) and Ukraine (7 800), amounting to 82.7% of the total number of cases, followed by Uzbekistan (880), Kazakhstan (680) and Turkmenistan (610).

Nine out of the 30 countries with the highest MDR-TB burden in the world are in the WHO European Region.9 In 2019, there were an estimated 46 000 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 86%.

An estimated 17% (95% CI: 16–18%) of newly diagnosed patients and 52% (95% CI: 45–59%) 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 70 000 (range 55 000–87 000) RR/MDR-TB cases would be detected.

3.1.2 TB notification and trends

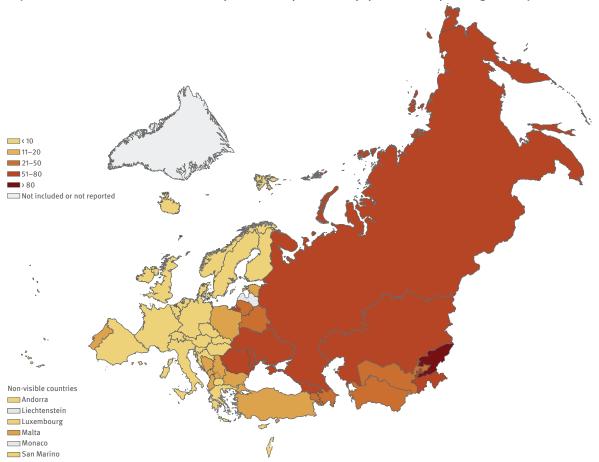
In 2019, 259 946 TB patients were reported from 51 countries and areas¹⁰ in the WHO European Region, 215 871 of which were new or relapse cases or had an unknown previous treatment history (Table 3 and 4). This represents 83.0% of all TB cases notified in 2019.

The notification rate of new and relapse cases varies widely among countries and areas, from zero (San Marino) to 95.7 (Kyrgyzstan) per 100 000 population (Map 1 and Table 4).

Thirty-seven countries, all located in the western and central part of the Region and mostly high-income

⁹ 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.

¹⁰ Latvia, Liechtenstein and Monaco did not report and San Marino reported zero cases in 2019.



Map 1. TB notification rates of new and relapse TB cases per 100 000 population, European Region, 2019

countries, had low notification of new and relapse cases (less than 20 cases per 100 000) in 2019. Six reported new or relapse case rates of between 20 and 50 per 100 000 population and eight reported over 50 cases per 100 000 population: Kyrgyzstan (95.7), Republic of Moldova (69.5), Kazakhstan (67.4), Tajikistan (61.7), Ukraine (57.7), Romania (57.1), Georgia (54.3) and the Russian Federation (50.3). New and relapse case notifications in the 18 HPCs account for about 83% of the regional burden. The largest proportion of new and relapse cases (73 328, or 34.0%) comes from the Russian Federation, even though the Russian Federation accounts for only approximately 16% of the Region's population. All HPCs rates continue to show a decreasing trend compared to the previous year.

During the period 2015–2019, an overall downward trend of 20.5% was observed in the notification of incident TB cases, from 29.2 to 23.2 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 55.7 to 43.9 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 (43.9 cases per 100 000, compared to 23.2 for the Region) and almost five times higher than the rate in the EU/EEA (9.2 cases per 100 000 population) (Fig. 3.1.1).

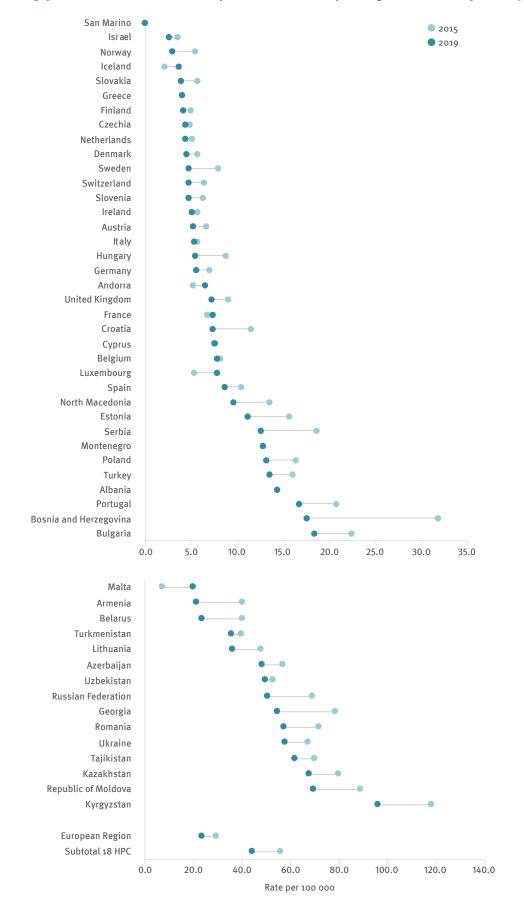
3.1.3 Previous treatment history

In 2019, previously treated cases represented 9.7% and 33.4% in the EU/EEA and non-EU/EEA, respectively (Table 5). The average in the 18 HPCs was 32.8%, which is above the pan-European average of 28.8%. Previously treated cases accounted for 15% or more of all TB cases in 15 countries: Azerbaijan (44.7%), the Russian Federation (41.8%), Turkmenistan (33.6%), Kazakhstan (33.1%), Belarus (32.8%), the Republic of Moldova (31.2%), Ukraine (27.7%), Kyrgyzstan (27.6%), Uzbekistan (22.7%), Georgia (22.6%), Romania (19.7%), Armenia (19.1%), Lithuania (17.3%), Estonia (16.0%) and Slovakia (15.9%). 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.

3.1.4 Disease localization

Pulmonary localization was notified in 83.4% of the incident TB cases in the Region in 2019 (Table 7). The proportion of patients with pulmonary localization in the non-EU/EEA countries and areas was higher than in the EU/EEA. Extrapulmonary TB was notified on average for 16.6% of all incident TB cases in the Region. Eleven countries reported more than 30% of their TB cases having extrapulmonary localization: Finland, France, Iceland, the

Fig. 3.1.1. Trend in TB notification rate per 100 000, WHO European Region, between 2015 and 2019



Netherlands, Norway, Sweden, Switzerland, Tajikistan, Turkey, the United Kingdom and Uzbekistan.

3.1.5 Bacteriological confirmation

Bacteriological confirmation of TB diagnosis was reported for 120 613 (67.0%) of all 180 113 new and relapse pulmonary cases in the Region (Table 7). Testing of cases using WRD (such as Xpert MTB/RIF) was much lower in the EU/EEA countries (28.3%) than in the non-EU/EEA countries and areas (81.7%). Nevertheless, the five-year trend shows a continuing increase in usage of WRDs across the Region, from 45.3% in 2015 to 69.3% in 2019 (Table XV; Fig. 3.1.2). Testing also varied considerably among countries, from 1.3% in Bulgaria to 100% in the Republic of Moldova. Bacteriological confirmation of new and relapse pulmonary cases was below 60% in six countries, underlining the need to strengthen diagnostics: Turkmenistan (48.0%), the Russian Federation (53.6%), Hungary (56.9%), Iceland (57.1%), Armenia (59.5%) and Uzbekistan (59.9%). In 31 countries, bacteriological confirmation of new and relapse pulmonary cases was 75% and above.

3.1.6 Age and sex

There is wide variation in the distribution of age- and sex-specific notification rates across countries and areas (Table 9). Notification rates in eastern European countries and areas are highest in young adults (25–44 years) and subsequently decrease with increasing age, 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 18 HPCs, the rate of TB in children under 5 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 and areas with at least 100 new and relapse TB cases, the proportion of TB cases notified in children (o-14 years) varied from below 1% (Bosnia and Herzegovina, Belarus, Croatia, Czechia and Estonia) to 16.7% (Slovakia) of all new and relapse cases. 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/overdiagnosis or reporting of childhood TB. The average percentage of new and relapse TB patients under 15 years in the Region is around 4%.

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. The exception was Italy, where the number of female TB patients outnumbered those of males. In most countries and areas, 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). The 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.

3.1.7 Drug resistance

Fifty countries/areas in the Region reported on first-line anti-TB DST results in 2019.

Overall, DST coverage in the Region, at least for rifampicin among bacteriologically confirmed pulmonary TB cases, was 90.8%, with 39 countries/areas achieving coverage of 85% or higher. Only in three was the coverage less than 50%: Spain (26.8%), Albania (12.9%) and France (4.4%). The percentage of confirmed RR-TB cases among 86 176 new pulmonary TB cases tested for rifampicin resistance in the Region was 21.1% (Map 2, Fig. 3.1.3, Table 12 and Table V). While 11 countries/areas reported no RR-TB or less than 1% among new TB cases, the rate was over 20% in eight (Table 12). Overall for EU/EEA countries, the prevalence of MDR-TB cases among all confirmed new pulmonary TB cases tested for rifampicin resistance was 2.2%, but among previously treated pulmonary cases, the MDR-TB proportion was higher at 11.9% (Fig. 3.1.4).

Six HPC countries had an RR/MDR-TB prevalence ranging from 10% to 19% among new cases tested for rifampicin resistance: Estonia (16.8%), Armenia (16.3%), Lithuania

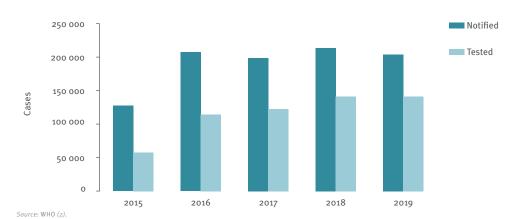


Fig. 3.1.2. New and relapse TB cases tested using WRD such as Xpert MTB/RIF, European Region, 2015-2019

(13.8%), Georgia (12.1%), Azerbaijan (11.5%) and Uzbekistan (11.7%). Four had 20–29% MDR-TB among new cases – Kyrgyzstan (29.5%), Tajikistan (29.0%), Ukraine (27.2%) and Kazakhstan (27.0%) – and three had an RR-TB prevalence over 30% – Belarus (37.7%), the Russian Federation (35.3%) and the Republic of Moldova (32.9%). The percentage of RR/MDR-TB is misleading for France, as DST results are only reported for RR-TB cases.

The percentage of confirmed RR/MDR-TB cases among 46 739 previously treated pulmonary bacteriologically confirmed TB cases whose isolates were tested for first-line DST was 54.5% (Fig. 3.1.3, Table 12 and Table VI).

Fifteen countries/areas had between 15% and 49% RR/MDR-TB among previously treated TB cases tested for first-line DST. The rate was even higher in some HPCs: the Russian Federation (70.8%), Belarus (59.8%), Kyrgyzstan (60.1%) and Estonia (50%) (Fig. 3.1.5, Table 12).

The rate of MDR-TB notification at regional level was 1.6 per 100 000 in 2019. This represents an average annual decrease of 3.9% between 2015 and 2019 (Table V).

Trends in the MDR percentage among new bacteriologically confirmed pulmonary TB cases and trends in the notification rate have differed by country/area in recent years (Table V). At subregional level, the proportion of MDR among new pulmonary TB cases remained stable in the EU/EEA subregion over the last five years, ranging between 2.1% and 2.3%. 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 non-EU/EEA countries and areas also remained stable, ranging between 22.9% and 23.8%, but the rate per 100 000 population declined slightly from 3.9 to 3.6 per 100 000 population during the same period.

Forty-seven countries/areas reported second-line DST data among pulmonary TB patients in 2019. Data on second-line DST were available for about 94.5% of all notified pulmonary MDR-TB cases. Of the 32 320 pulmonary MDR-TB cases subjected to second-line DST, 7259 (22.5%) were XDR-TB (Table 14).

XDR-TB cases are rising in absolute terms; 956 cases were notified among pulmonary MDR-TB cases in 2015 and 7259 in 2019, largely due to the increase in the number of countries and areas reporting second-line DST data (Table VIII).

In EU/EEA countries, where 69.6% of MDR-TB cases were tested for second-line drugs, the prevalence of XDR among MDR cases was 22.4%.

Among the countries and areas reporting at least 30 MDR cases with second-line DST results, eight reported over 20% XDR prevalence among MDR-TB cases: Armenia (54.5%), Uzbekistan (34.8%), Lithuania (36.3%), Romania (30.9%), Tajikistan (26.1%), Azerbaijan (24.3%) and the Russian Federation (23.5%).

There is no clear trend in relation to XDR-TB prevalence in countries and areas with a long history of second-line DST surveillance among pulmonary MDR-TB cases (with data

reported every year from 2015 to 2019). In most countries and areas, the XDR percentage varies widely from year to year, but in Armenia, Georgia, the Republic of Moldova, the Russian Federation and Turkey, XDR prevalence among MDR-TB cases has increased over the past five years (Table VIII).

Of the 47 614 RR/MDR-TB patients notified in 2019, 45 472 (95.5%) were enrolled into MDR-TB treatment programmes and another 9457 patients into XDR treatment. Four HPCs reported a gap of over 5% between the number of patients diagnosed and enrolled to treatment (treatment coverage): Tajikistan (67.0%), Georgia (84.6%), the Republic of Moldova (85.3%) and Kyrgyzstan (86.3%) (Table 16).

In 2019, access to XDR-TB treatment at regional level exceeded 100%, influenced by data reported by the Russian Federation, Ukraine and Kazakhstan, but six HPCs – Azerbaijan, Belarus, Georgia, Kyrgyzstan, the Republic of Moldova and Tajikistan – reported a gap of over 5% in XDR-TB treatment coverage.

3.1.8 TB/HIV coinfection

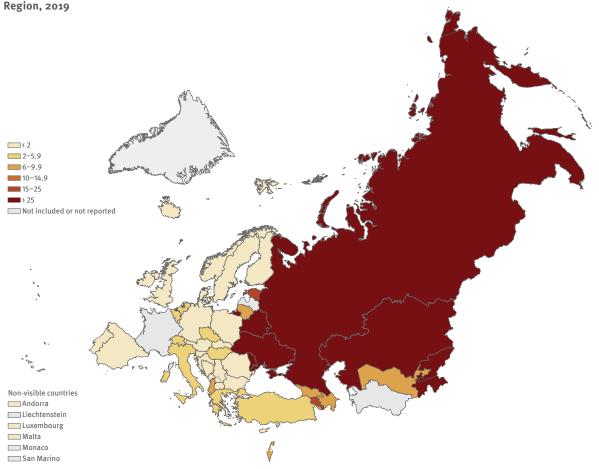
Thirty-nine countries and areas provided surveillance data on TB/HIV coinfection (Table 17). Of the 184 944 new and relapse TB patients notified in the reporting countries/ areas, 172 941 were screened for HIV (93.5%). Twelve HPCs achieved a testing level above 90%: Armenia, Azerbaijan, Belarus, Estonia, Georgia, Kazakhstan, Kyrgyzstan, the Republic of Moldova, the Russian Federation, Tajikistan, Ukraine and Uzbekistan. A total of 25 060 TB cases were detected with HIV-positive status, representing 14.5% of those tested (versus 13.0% recorded in 2018).

Among those countries and areas reporting representative HIV testing (above 50% HIV testing coverage), six documented a significant overlap of the HIV and TB epidemics by exceeding 10% HIV prevalence among new and relapse TB cases (Table 17): the Russian Federation (23.3%), Ukraine (23.0%), Estonia (11.6%), the Republic of Moldova (10.6%), Armenia (10.5%) and Portugal (10.5%). Three countries with representative routine surveillance had 5–10% HIV prevalence among TB patients: Belgium (7.8%), Belarus (7.1%) and Kazakhstan (5.4%).

Twenty-six countries and areas in the Region provided information on ART enrolment among TB cases with HIV-positive status in 2019. Of 24 836 HIV-positive TB cases, 18 836 (75.8%) had received ART. This is slightly higher than in 2018 (73.1%), but far below the WHO target of universal ART coverage. However, six of the HPCs did achieve ART coverage of over 90%: Armenia, Azerbaijan, Belarus, Bulgaria, Georgia and Kazakhstan.

3.1.9 Country of origin

TB patients of foreign origin represent 8.7% of all TB cases notified Region-wide: 34.5% in EU/EEA countries, and only 2.2% in non-EU/EEA countries and areas (Table 10). TB patients of foreign origin represent a large majority in several countries: Malta (95.9%), Luxembourg (90.0%), Cyprus (89.9%), Norway (88.5%), Israel (86.6%), Iceland



Map 2. Percentage of notified TB cases with MDR-TB among new pulmonary laboratory-confirmed TB cases, European

(84.6%), the Netherlands (74.7%), the United Kingdom (70.4%) and Switzerland (68.2%).

3.1.10 TB in prisons

Thirty countries/areas in the Region provided information on TB case-detection and treatment in prisons during 2019 (Table 19). Overall, 8754 (4.7%) of the new and relapse TB cases in the Region were reported from prisons, 8492 (96.9%) of which were in the HPCs. The proportion of TB cases in prisons represented about 1.7% of the country total in EU/EEA countries; in non-EU/EEA countries and areas, the proportion was 5.1%. The notification rate in prisons in non-EU/EEA countries and areas was 801 new TB cases per 100 000 prison population, which is about four times higher than in the EU/EEA subregion (185 per 100 000). The overall notification rate for new TB cases in prisons in the WHO European Region was 698 per 100 000 prison population. The TB notification rate exceeded 1000 cases per 100 000 detainees in five countries: Azerbaijan, Kyrgyzstan, the Republic of Moldova, the Russian Federation and Ukraine. The highest TB-related risks in prison (relative to incidence in the general population) are calculated to be in the Russian Federation (RR 24.2), followed by Ukraine (RR 23.8), Kyrgyzstan (RR 23.6), Azerbaijan (RR 23.2) and Belgium (RR 23.2).

3.1.11 Treatment outcome

The treatment success rate among 173 o58 new and relapse TB cases having started treatment with first-line drugs in 2018 was 76.5% (Table 21). In the HPCs, the average rate of cases cured or for whom treatment was completed was 77.4%. The treatment success rate was slightly lower in the EU/EEA countries than in non-EU/EEA countries and areas (73.1% versus 77.4%), both showing results comparable with the previous year. Only 14 countries and areas achieved an 85% treatment success rate in this treatment cohort. Another 13 were close to the target, with success rates of 80–85%. Seven had treatment success rates below 60%, with a very high proportion of cases not evaluated.

A total of 13 930 (8.0%) cases were reported to have died in the same cohort, 4.5% to have been lost to follow up and 3.9% 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 – 0.6% in the EU/EEA versus 4.7% in non-EU/EEA countries and areas (Table 21). Countries reporting fatal outcomes in excess of 10% were Hungary (15.6%), Slovenia (14.3%), Estonia (13.9%), Czechia (13.5%), Croatia (11.0%) and the Russian Federation (10.6%).

Fig. 3.1.3. Percentages of MDR among laboratory-confirmed pulmonary TB cases, European Region, 2015–2019

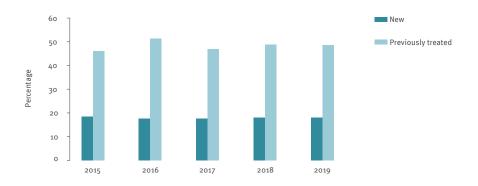


Fig. 3.1.4. Percentages of MDR-TB among laboratory-confirmed pulmonary TB cases, EU/EEA, 2015–2019

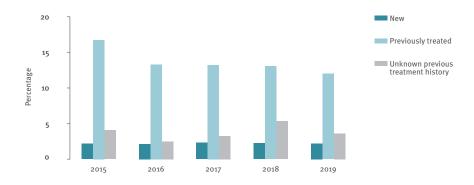
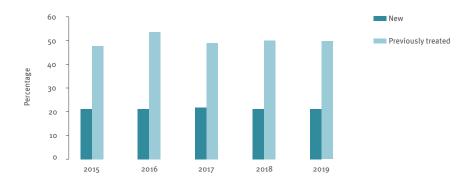


Fig. 3.1.5. Percentages of MDR-TB among laboratory-confirmed pulmonary TB cases, 18 HPCs, 2015-2019



The Russian Federation accounted for almost half of the deaths in the Region in absolute numbers.

The treatment success rate among the 5706 child TB cases (aged o-14 years) in the 2018 cohort was 89.4% (Table 22). The treatment success rate in EU/EEA countries was remarkably lower than in the non-EU/EEA countries

and areas (79.9% versus 93.1%). Among child TB cases in the Region, 0.9% died, another 1.0% failed and 1.3% were lost to follow up.

Of the 17 928 TB/HIV coinfected patients who started treatment throughout the Region in 2018, only 9247 (51.6%) had a successful treatment outcome (Table 24).

In the 2017 cohort, treatment outcome was notified for 43 720 laboratory-confirmed RR/MDR-TB cases reported by 44 countries/areas (Table 26). The treatment success rate for the whole Region was 58.6%, which is slightly higher than the 57.4% rate reported for the 2016 RR/MDR-TB treatment cohort. The treatment success rate for RR/MDR-TB patients was higher in non-EU/EEA countries and areas than in the EU/EEA (58.9% versus 45.7%). The countries that performed best were Norway (88.9%), Switzerland (83.3%), Sweden (81.8%), Kazakhstan (81.3%) and Belgium (80.0%). In the Region as a whole, 13.8% of RR/MDR-TB cases died, 11.3% failed and 10.7% were lost to follow up.

3.1.12 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: 5.1% between 2015 and 2019. The cumulative reductions for the period 2015–2019 were 19.0%, indicating that the Region has almost reached the 2020 End TB Strategy milestone to reduce the TB incidence rate in 2020 by 20% against the 2015 baseline, and is on track to achieve the regional action plan target of a 25% reduction in the TB incidence rate. However, the impact of the COVID-19 pandemic on TB service delivery and surveillance (which will be seen in the next report) may affect the achievement of the targets in future years. Disruptions in TB service delivery and a decrease in TB case notifications have already been documented and reported from a few high TB burden countries worldwide (1).

There were an estimated 20 000 TB deaths among HIV-negative people in 2019, with considerable variation across the Region, and 86% of TB deaths were attributed to the 18 HPCs. Twelve per cent of incident TB cases were estimated to be coinfected with HIV, marking the third 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 83% 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 2019, which is substantially higher than the global TB detection of 71%.

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 70 000 people in the Region are estimated to develop RR/MDR-TB each year, and it is of the utmost importance that capacity exists at country/area level to rapidly detect resistant TB. Over the past five years, there has been rapid uptake of WRD, with 69.3% of incident TB cases tested using this platform in 2019, compared to 45.3% in 2015.

Overall, most countries and areas achieved coverage of 85% or higher for first-line DST among bacteriologically confirmed pulmonary TB cases, but they should aim to have universal coverage. Ninety-four per cent of all notified

RR/MDR-TB cases in the Region had second-line DST available, with most countries and areas 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 2019, 84% of an estimated 30 000 HIV patients coinfected with TB were detected, and 76% of them were offered ART. Only 71% of coinfected patients notified in 2018 had TB treatment outcomes available in 2019. This underlines the need to strengthen collaboration between TB and HIV programmes and to improve surveillance of coinfection in the Region.

Most countries and areas offer universal access to TB and MDR-TB treatment. Ninety-five per cent of the RR/MDR-TB cases notified in 2019 were enrolled into drug-resistant 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 76.5% and 58.4% respectively, which is comparable with the results for the previous year.

3.2 EU/EEA countries

3.2.1 Data completeness

TB notification data for 2019 were reported by 29 of 31 countries (there were no case-based data from Latvia or Liechtenstein for 2019). The reporting of non-mandatory variables in 2019 was complete or near complete (>95.0%) for age, gender, TB site and variables defining the origin of a case (Annex 3). Overall, previous treatment history was available for 86.6% of cases reported in 2019, but completeness ranged from below 70.0% in five countries (Croatia 5.3%, France 56.9%, Ireland 65.0%, Luxembourg 62.0% and Spain 62.6%) to 100.0% in 12 (Annex 3).

Among TB cases reported in 2019, 81.1% had culture results reported (Annex 3), which was a similar proportion to that reported in 2018 (82.5%). Only five countries had less than 75% of cases with culture results reported: France (46.4%), Greece (62.7%), Malta (51.0%), Portugal (62.9%) and the United Kingdom (61.9%). Reporting completeness for microscopy was slightly lower in 2019 (83.0%) compared to 2018 data (84.1%) and ranged from 41.7% in Belgium to 100% in Lithuania. For 2019, drug-susceptibility reporting completeness was 74.4% for the first-line drugs (isoniazid and rifampicin). Second-line DST reporting completeness was 100% for the 25 countries that reported at least one MDR-TB case (Annex 3); three countries (Iceland, Malta and Slovenia) reported no MDR-TB cases in 2019 (Table 13).

The number of countries reporting HIV status continued to decrease, with only 19 (of 29) reporting HIV status in 2019 compared to 21 (of 30) in 2018 and 23 (of 31) in 2017. HIV status was available only for 32.3% of all TB cases reported in 2019, but nine countries reported HIV status for more than 75% of their TB cases.

Treatment outcome at 12 months was available for 65.0% of all cases reported in 2018. Among MDR-TB cases reported in 2017, 96.1% had treatment outcome at 24 months completed. Treatment outcome at 36 months for XDR-TB cases reported in 2016 was complete for 95.8% of cases. In 2019, the completeness of treatment outcomes across all three cohorts had decreased compared to 2018.

3.2.2 Time and place

In 2019, 49 752 cases of TB were reported in 29 EU/EEA countries (Table 3). Four countries reported more than 5000 cases each (France, Poland, Romania and the United Kingdom), accounting for 54.7% of all reported cases, with Romania alone accounting for 23.4% of all TB cases reported in 2019.

The EU/EEA notification rate in 2019 was 9.6 per 100 000 population (Table I), continuing the downward trend observed since the launch of European enhanced TB surveillance in 1996 (Fig. 3.2.1). During the period 2015–2019, the average annual decline in the notification rate was 5.1% (Table 3).

As reported for previous years, country-specific notification rates differed considerably in 2019, ranging from 3.1 per 100 000 population in Norway to 59.9 per 100 000 in Romania (Table 3). Rates were below 10 per 100 000 in 22 countries and below 20 per 100 000 in 27. Only two countries (Lithuania and Romania) had notification rates above 30 per 100 000 population (37.9 and 59.9 per 100 000, respectively).

In 24 countries, the notification rates have fallen compared with 2015 (Table 3). The downward trend was particularly pronounced in Croatia, Hungary, Norway and Sweden, where the average annual rate of decrease exceeded 10%.

3.2.2 Previous treatment, laboratory confirmation and TB site

The distribution of cases by previous treatment history was similar in 2019 to that reported in previous years: 38 267 (76.9%) of 49 752 TB cases reported in 2019 were newly diagnosed, 4843 (9.7%) had previously been treated for TB and 6642 (13.4%) had an unknown previous treatment status (Table 5). The proportion of previously treated cases was more than 10% in seven countries: Bulgaria, Estonia, Hungary, Lithuania, Poland, Romania and Slovenia.

Laboratory confirmation was reported for 33 368 (67.1%) of the 49 752 TB cases reported in 2019 (Table 8). Country-specific proportions of laboratory-confirmed cases ranged from 35.3% in France to 92.1% in Slovenia. The proportion of laboratory-confirmed TB cases remained stable in 2019 compared to 2018 (68.2%) and 2017 (68.1%). Among the five HPCs (of which four reported 2019 data), Estonia and Lithuania had the highest proportions of confirmed cases (85.3% and 88.4%, respectively), followed by Romania (73.1%) and Bulgaria (46.6%).

Of all 49 752 TB cases reported in 2019, 34 975 (70.3%) were diagnosed with pulmonary TB, 10 988 (22.1%) with extrapulmonary TB, 3514 (7.1%) with a combination of both and 275 (0.6%) had no TB site reported (Table 6). The proportion of extrapulmonary TB was above 30% in six countries: France (31.0%), Iceland (46.2%), the Netherlands (41.9%), Norway (33.9%), Sweden (37.2%) and the United Kingdom (42.9%).

Of 36 819 new and relapse pulmonary TB cases reported in 2019, 29 929 (81.3%) were confirmed by culture and/or smear and nucleic acid amplification test (Table 7). In six countries, over 30% of reported new and relapse pulmonary TB cases were diagnosed clinically: Bulgaria (38.2%), France (31.6%), Hungary (43.1%), Iceland (42.9%), Malta (40.8%) and Slovakia (30.2%).

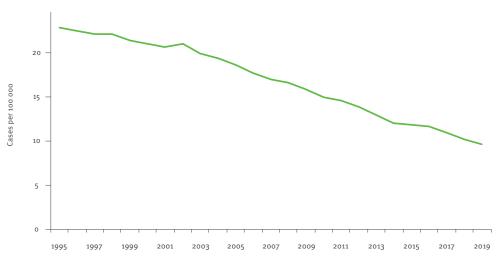


Fig. 3.2.1. TB notification rate per 100 000 population by year of reporting, EU/EEA, 1995-2019

Source: ECDC (3).

According to the EU case definition, 33 368 (67.1%) of 49 752 TB cases reported in 2019 would be classified as confirmed, 5022 (10.1%) as probable and 11 362 (22.8%) as possible cases (Table 8). In 14 countries, over 75% of reported cases were confirmed, with the highest proportion of confirmed cases reported by Lithuania (88.4%) and Slovenia (92.1%). Conversely, four countries reported over 40% of their TB cases as possible cases (that is, only clinically diagnosed): Bulgaria (44.3%), France (44.3%), Hungary (43.8%) and Malta (42.9%). The high proportion of clinically diagnosed cases may reflect underreporting of laboratory results to the national surveillance systems in these countries, or alternatively could indicate that TB may be overdiagnosed in these countries.

3.2.3 Age and sex

Of 47 504 new and relapse TB cases reported in 2019, 30 998 (65.3%) were aged between 25 and 64 years and 9052 cases (19.1%) were in adults aged over 64 years (Table 9). Notification rates were similar among the 15–24, 25–44 and 45–64 years age groups (11.6, 11.9 and 10.5 per 100 000 population, respectively).

There was variation in the age distribution of cases between countries: in most, the cases predominantly were aged between 25 and 64 years, but cases were younger in Malta (52.0% were aged between 15 and 24 years) and older in Croatia, Estonia, Poland and Slovenia (more than 70% of cases were aged over 45 years (Table 9)).

Children under 15 years accounted for 1928 (4.1%) of 47 504 new and relapse TB cases reported in 2019 and children aged between 5 and 14 years had the lowest notification rate of all age groups (2.1 per 100 000 population (Table 9)). Romania reported the highest notification rates among children under 15 years: 14.1 cases per 100 000 children aged between 0 and 4 years, and 12.2 cases per 100 000 aged between 5 and 14 years (Table 9).

In 2019, the male-to-female ratio in new and relapse TB cases was 1.8 (Table 9), which was lower than the ratio reported in 2018 (male-to-female ratio: 2.0). All EU/EEA Member States reported more male than female new and relapse TB cases, except for Italy. For children under 15 years, the male-to-female ratio among new and relapse cases was 1.1.

3.2.4 Origin of cases

Of the 49 752 TB cases notified in 2019, 31 239 (62.8%) were born in, or were citizens of, the reporting country (referred to as "native"), 17 181 (34.5%) were of foreign origin and 1332 (2.7%) were of unknown origin (Table 10). Of the 17 181 cases of foreign origin in 2019, 10 076 (58.6%) were reported by France, Germany and the United Kingdom. Country-specific proportions of foreign-origin TB cases ranged from 0.0% in Bulgaria and 0.4% in Romania to above 85% in Cyprus, Luxembourg, Malta, Norway and Sweden. Countries with TB notification rates higher than 10 per 100 000 population, with the exception of Malta, reported less than 25% of cases as being of foreign origin. The overall proportion of native TB cases has declined from 66.7% in 2015 to 62.8% in 2019 (Table IV).

3.2.5 Drug resistance

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

Of 31 007 laboratory-confirmed TB cases notified in 2019, 24 812 (80.0%) had isoniazid and rifampicin susceptibility testing results reported (Table 13). Resistance to any anti-TB drug was reported for 2638 (10.6%) cases. Overall, of 24 812 cases with the relevant DST results, MDR-TB was reported for 834 cases (3.4%). Among the cases with relevant DST results, the proportion that were MDR-TB varied by country: France reported 100.0% of cases with DST results as MDR-TB (DST results are reported only for MDR-TB cases), while Estonia and Lithuania reported that among cases with DST results, 38.6% and 32.0%, respectively, were MDR-TB. The total number of reported MDR-TB cases has continued to decrease each year, but the rate of MDR-TB cases remained at 0.2 per 100 000 population in 2019 (Table VII).

In 2019, XDR-TB was reported for 128 (21.9%) of 584 MDR-TB cases with results for second-line DST (Table 15). The proportion of XDR-TB cases among pulmonary MDR-TB cases with results for second-line DST has remained between 20% and 25% since 2015 (Table VIII). Lithuania and Romania reported 75.0% of the XDR-TB cases in 2019, which is an increased proportion compared with the previous four years (during which they reported between 60% and 70% of XDR cases (Table VIII)).

Of 19 333 new confirmed pulmonary TB cases with rifampicin DST results, 504 (2.6%) were resistant to rifampicin (Table 12). In contrast, 384 (13.3%) of 2887 previously treated confirmed pulmonary TB cases with rifampicin DST results were resistant to rifampicin. Previously treated pulmonary TB cases were five times as likely to be resistant to rifampicin compared with new pulmonary cases.

3.2.6 TB/HIV coinfection

HIV status was reported for 16 088 (78.0%) of 20 620 TB cases reported from the 19 countries that reported HIV status of TB cases (Table 18). Of the 16 088 cases with known HIV status, 502 (3.1%) were reported as HIV positive. Among countries with at least 50% reporting completeness for HIV status, the proportion of coinfected cases was highest in Estonia (11.3%) and Portugal (11.0%). The proportion of HIV-coinfected TB cases has declined from 4.6% in 2015 to 3.1% in 2019 (Table IX).

3.2.7 TB in prisons

For 2019, 13 EU/EEA countries reported 386 new and relapse TB cases in prisons, resulting in a notification rate of 185 per 100 000 prison population and an RR of 15.8 compared to the general population in the same countries (Table 19). Overall, TB cases in prisons accounted for 1.7% of all new and relapse cases notified in the 13 reporting EU/EEA countries, with the proportion being highest in Poland (3.2%), Portugal (2.3%) and Slovakia (2.8%).

3.2.8 Treatment outcome

Of all 42 811 TB cases notified in 2018 with a treatment outcome reported in 2019, 27 277 (63.7%) were treated successfully, 2853 (6.7%) died, 358 (0.8%) experienced treatment failure, 1623 (3.8%) were lost to follow up, 1705 (4.0%) were still on treatment in 2019 and 8995 cases (21.0%) were not evaluated (Table 20). Among the 24 countries that reported treatment outcome for the 2018 cohort, six countries reported successful treatment for over 80.0% of cases (Belgium 80.9%, Bulgaria 84.5%, Iceland 100.0%, the Netherlands 85.1%, Norway 82.7% and Slovakia 90.7%), while five countries reported death as the outcome for over 10.0% of cases (Croatia 11.0%, Czechia 13.5%, Estonia 14.3%, Hungary 15.2% and Slovenia 15.2% (Table 20)).

Among the 35 316 TB cases notified in 2018 and classified as new and relapse TB cases, including those with unknown previous treatment history and excluding those that were started on second-line treatment, 25 809 (73.1%) were treated successfully (Table 21). In countries where at least 75% of these new and relapse TB cases had a known outcome, treatment success ranged from 65.7% in Hungary to 100.0% in Iceland. The overall proportion of successfully treated cases among these new and relapse TB cases decreased from 76.5% of cases notified in 2014 to 73.1% of cases notified in 2018 (Table X).

Of 952 MDR-TB cases notified in 2017 with a treatment outcome reported in 2019, 446 (46.8%) were treated successfully, 149 (15.7%) died, 104 (10.9%) experienced treatment failure, 113 (11.9%) were lost to follow up, 85 (8.9%) were still on treatment in 2019 and 113 (11.9%) were not evaluated (Table 27). The proportion of MDR-TB cases with successful treatment was highest in Norway (88.9%), Sweden (81.8%) and Belgium (80.0%) (Table 27). Overall, the 24-month treatment success rate for RR/MDR-TB remained low for cases reported in 2017 (45.4%) and was lower than for cases reported in 2016 (49.9%) (Table XII).

Ten countries reported 172 XDR-TB cases in 2016 and a treatment outcome for these cases in 2019: 60 (34.9%) were treated successfully, 45 (26.2%) died, 31 (18.0%) experienced treatment failure, 18 (10.5%) were lost to follow up and 18 (10.5%) were not evaluated (Table 29). The 36-month XDR-TB treatment success rate remained low among the 2016 XDR-TB cases, but variations over time should be interpreted with caution due to the small number of cases (Table XIV).

Of 501 HIV-positive TB cases notified in 2018 (who were not started on second-line treatment and had a treatment outcome reported in 2019), 275 (54.9%) were reported as successfully treated, 62 (12.4%) died, four (0.8%) experienced treatment failure, 51 (10.2%) were lost to follow up, 66 (13.2%) were still on treatment in 2019 and 44 (8.6%) were not evaluated (Table 24).

3.2.9 WHO disease burden estimates

According to WHO, the estimated TB incidence in the EU/EEA overall (excluding Liechtenstein) was 10.6 per 100 000 population in 2019 (Table 1 and Table II). Of the

30 countries with estimates, 22 had an estimated incidence of less than 10.0 per 100 000 population (Table 1 and Table II). The overall number of estimated TB deaths, excluding HIV deaths in people who were HIV positive, was 3560 for the EU/EEA in 2019, a slight decrease compared to the 3730 estimated for 2018 and almost a 40% reduction on the 5800 estimated for 2010 (Table I).

3.2.10 Conclusions for the European Union/ European Economic Area

In 2019, 29 of 31 EU/EEA countries reported TB notification data and a total of 49 752 TB cases. There was a further decline in the overall TB notification rate to 9.6 per 100 000 population, which continued the decreasing trend observed since 2002. As in previous years, a few countries reported a large proportion of the total number of cases, including Romania, which reported almost a quarter of all TB cases in 2019.

While the decreasing notification rates observed in most countries are reassuring, there is still significant work ahead to reach the United Nations Sustainable Development Goal 3 target of an 80% reduction in the TB incidence rate in 2030 compared to 2015. The target at EU/EEA level is a notification rate of 2.4 per 100 000 population (based on an 80% reduction of the 2015 TB notification rate of 11.9 per 100 000 population). Although progress is being made towards this goal, at the current rate of decline most EU/EEA countries are not on track to reach the 80% reduction target by 2030, or the elimination target by 2050 (4). Countries need to accelerate progress towards these goals to achieve them.

The overall proportion of native TB cases has continued to decline in the EU/EEA since 2015, with approximately one third of all TB cases in 2019 being of foreign origin. However, the proportion of foreign- versus native-origin cases varies significantly between countries, highlighting that different approaches to TB screening and disease prevention are needed. In countries with a higher proportion of foreign-origin cases, screening for active TB or TB infection among newly arrived migrants from high-incidence countries remains an important measure for TB disease prevention (5).

Data on HIV coinfection remained incomplete in the EU/EEA, and the number of countries reporting HIV status was lower in 2019 than in 2018. HIV status was reported only for approximately one third of all reported TB cases across the EU/EEA in 2019, limiting the conclusions that can be drawn about this important cohort. This is especially true with regard to treatment outcomes among TB/HIV coinfected cases, which accounted for 4.1% of TB cases in the EU/EEA with known HIV status in 2018.

Data on TB in prisons are scarce and the number of countries reporting also declined in 2019. With only 13 EU/EEA countries reporting in 2019, the conclusions that can be drawn about TB in prisons are also very limited. Although the proportion of TB cases among inmates in the countries that reported was low, the data indicate nevertheless that inmates have a 16-times higher risk of being reported as

a TB case than the general population. Public health guidance concluded in 2018 that it is advisable to offer universal testing for active TB at prison entry so that treatment can be initiated and transmission prevented (6). Further to this, additional efforts must be made to collect TB data within prison settings to better understand the risks within this setting.

Reassuringly, the number of MDR-TB and XDR-TB cases in the EU/EEA continued to decrease in 2019, despite the high number of drug-resistant TB cases in the European Region HPCs bordering the EU/EEA. DST results for first-line drugs were reported only for approximately 75% of laboratory-confirmed TB cases in 2019, indicating that there is still considerable room for improvement here. Countries need DST results to be able to diagnose and treat drug-resistant TB, and to monitor this threat.

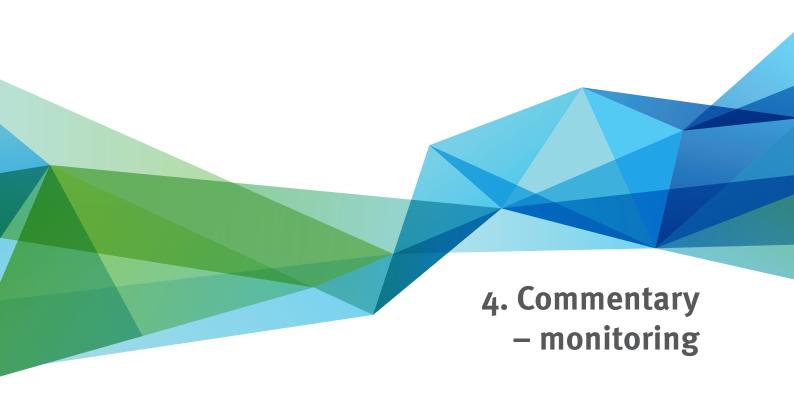
The WHO target for treatment success in new and relapse cases is 85% (7). Data reported in 2019 (73.1% treatment success rate) indicate that improvement is needed to reach the treatment success target. The target for successful treatment among MDR-TB cases after 24 months is 75%, and overall the EU/EEA is far below where it should be (at 46.8% of MDR-TB cases with treatment success). In 2020, WHO released updated treatment guidelines for drugresistant TB that recommend an all-oral bedaquiline-based shorter regimen (instead of the previously recommended injectable-based shorter regimen), all-oral regimens (whether shorter or longer) for all MDR-TB cases and the so-called BPaL regimen (a new agent, pretomanid, with bedaquiline and linezolid, under operational research conditions only) for MDR-TB cases with additional resistance to fluroquinolones (8). The move away from injectable agents to all-oral regimens, and new agents such as pretomanid, provide hope that the rate of treatment success for MDR-TB will improve in the future.

Finally, the slight deterioration in the completeness of 2019 data (particularly HIV status and treatment outcomes) may have been due to the widespread disruption in TB services caused by the COVID-19 pandemic from early 2020. Despite much of the 2019 data having been collected during 2019, countries were required to collate, submit, check and clean the data during 2020, while also managing COVID-19 pandemic-related work. Countries ensured they submitted TB data, highlighting their commitment to, and the importance of, maintaining TB essential services and monitoring. The broader impact of the COVID-19 pandemic will be reflected in the 2020 TB surveillance data, as during 2020 there were anecdotes of disruptions to (or reallocation of) TB laboratory (9) and clinical services, as well as major pressures to public health workforce capacity and limitations on patient access to TB services (1).

In late 2018, EU/EEA countries reaffirmed their commitment to ending the TB epidemic at a United Nations high-level meeting (10). The 2019 data presented in this report indicate that there is still considerable work ahead to achieve this goal, and with the ongoing disruption caused by the COVID-19 pandemic, now is the time to prioritize and intensify public health measures against TB. As always, ECDC remains committed to supporting EU/EEA countries to end the TB epidemic.

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4. Commentary - monitoring

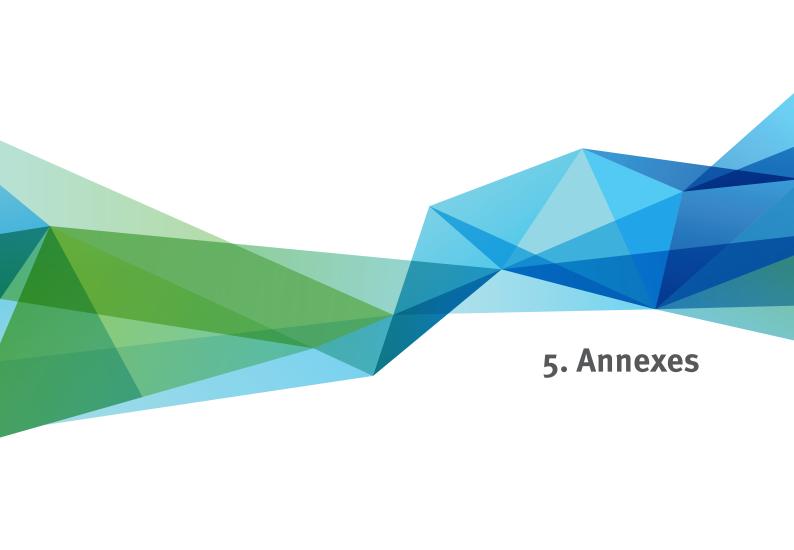
To address the challenges to TB and MDR/XDR-TB prevention and care, the WHO Regional Office for Europe, working in close consultation with representatives from countries and areas, experts and communities, developed the Tuberculosis action plan for the WHO European Region 2016-2020 (1). This action plan is based on lessons learned from implementing the seven areas of intervention in the Consolidated action plan to prevent and combat multidrug and extensively drug-resistant tuberculosis in the WHO European Region 2011-2015 (2) and is in line with the global End TB Strategy and other health policy guidance, such as the European policy for health and well-being, Health 2020 (3). The Tuberculosis action plan for the WHO European Region 2016–2020 is supported by a monitoring and evaluation framework to monitor progress towards defined targets. 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, the selection of indicators was harmonized 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.

The final year covered by the action plan was 2020, so the WHO Regional Office for Europe has developed a final report that provides an overview of implementation. This is based on a summary report that was reviewed and approved by the Standing Committee of the Regional Committee and subsequently submitted to the 70th session of the WHO Regional Committee for Europe in 2020, in line with resolution EUR/RC65/R6. The report summarizes the progress and challenges and the next steps in ending TB and drug-resistant TB in the WHO European Region (5). The next and the final update with the status of all indicators will be presented in the TB surveillance and monitoring in Europe 2022 report.

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¹² All weblinks accessed 10 February 2020.



Annex 1. Tuberculosis surveillance system overview, EU/EEA, 2019

		Lorel	Compre		National	Data a	vailable
Country	Data source	Legal character	Compre- hensiveness	Туре	coverage	TME aggregated data	TESSy case-based data ^a
Austria	AT-TUBERKULOSEGESETZ	Ср	Co	C	Υ	-	1995-2019
Belgium	BE-TUBERCULOSIS	Ср	Со	C	Υ	-	1995-2019
Bulgaria	BG-MOH	Ср	Co	C	Υ	1995-2006	2007-2019
Croatiab	HR-CNIPH	Ср	Со	C	Υ	1995-2007	2012-2019
Cyprus	CY-NOTIFIED_DISEASES	Ср	Со	C	Υ	1995-2001	2002-2019
Czechia	CZ-TUBERCULOSIS	Ср	Со	C	Υ	-	1995-2019
Denmark	DK-MIS	Ср	Co	C	Υ	-	1995-2019
Estonia	EE-TBC	Ср	Со	C	Υ	-	1995-2019
Finland	FI-NIDR	Ср	Co	C	Υ	-	1995-2019
France	FR-MANDATORY_INFECTIOUS_DISEASES	Ср	Co	С	Υ	-	1995-2019
Germany	DE-SURVNET@RKI-7.1/6	Ср	Co	С	Υ	1995-2000	2001-2019
Greece	EL-NOTIFIABLE_DISEASES	Ср	Со	C	Υ	1995-2001	2002-2019
Hungary	HU-TUBERCULOSIS	Ср	Co	C	Υ	1995-1998	1999-2019
Iceland	IS-TUBERCULOSIS	Ср	Со	C	Υ	-	1995-2019
Ireland	IE-CIDR	Ср	Co	C	Υ	1995-1997	1998-2019
Italy	IT-NRS	Ср	Co	C	Υ	-	1995-2019
Latvia	LV-TB	Ср	Co	С	Υ	1995-2000	2001-2017
Liechtenstein	CH-SFOPH-LI	Ср	Co	С	Υ	-	1995-2018
Lithuania	LT-TB_REGISTER	Ср	Co	С	Υ	1995-2002	2003-2019
Luxembourg	LU-SYSTEM1	Ср	Co	C	Υ	-	1995-2019
Malta	MT-DISEASE_SURVEILLANCE	Ср	Co	С	Υ	-	1995-2019
Netherlands	NL-NTR	Ср	Со	C	Υ	-	1995-2019
Norway	NO-MSIS_A	Ср	Co	C	Υ	-	1995-2019
Poland	PL_CR	Ср	Со	C	Υ	1995-1999	2000-2019
Portugal	PT-TUBERCULOSIS	Ср	Co	C	Υ	1995-1999	2000-2019
Romania	RO-NTBSy	Ср	Со	C	Υ	-	1995-2019
Slovakia	SK-NRT	Ср	Co	С	Υ	1995	1996-2019
Slovenia	SI-TUBERCULOSIS	Ср	Со	С	Υ	-	1995-2019
Spain	ES-STATUTORY_DISEASES	Ср	Co	С	Υ	1995-2006	2007-2019
Sweden	SE-SweTBReg	Ср	Со	С	Υ	-	1995-2019
United Kingdom	UK-TUBERCULOSIS	Ср	Co	С	Υ	1995-1997	1998-2019

Cp: compulsory reporting.
Co: comprehensive.
C: case-based.
EU/EEA: European Union/European Economic Area.
TESSy: The European Surveillance System.
TME: WHO Tuberculosis Monitoring and Evaluation platform.
Y: yes.
For some years, data from France, Italy and Spain related to drug-susceptibility testing have been collected in aggregated format from the WHO TME.
Data reported since 2012 to TESSy, historical data extracted from WHO TME.

Annex 2. List of variables for 2019 tuberculosis data collection^a

	List	Description
Comi	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) from which the record originates
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 laboratory 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 TB in the past
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 13–24 months from the start of treatment
30	Outcome36Months	The first outcome observed 25–36 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
33	ResultOtherTest	Additional laboratory test results
	Pathogen	Species and gene (<i>M. tuberculosis</i> complex) of the pathogen that 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
39	SIR_DLM	Susceptibility to delamanid
	SIR_ETH	Susceptibility to ethambutol Susceptibility to gatifloxacin
	SIR_GAT	1 1 2
	SIR_INH	Susceptibility to isoniazid Susceptibility to kanamycin
	SIR_KAN	
	SIR_LVX SIR_MFX	Susceptibility to levofloxacin Susceptibility to moxifloxacin
45	SIR_OFX	Susceptibility to ofloxacin
	SIR_PZA	Susceptibility to Orloxaciii Susceptibility to pyrazinamide
47	SIR_RIF	Susceptibility to rifampicin
	SIR_STR	Susceptibility to streptomycin
	IsolateID	Unique identifier for each isolate within the data source/laboratory system related to the case
		Identifier for each isolate record that is guaranteed to be unique across countries/areas/laboratories/pathogens
51	ECDCIsolateID	and does not contain additional encoded information
52	SpoligoCode ^b	Spoligo pattern code
53	MiruCode ^b	MIRU pattern code
54	BeijingGenotype ^b	Beijing genotype identification

^a Notification of tuberculosis (TB) cases for 2019, treatment outcome data updated for cohort 2018 and multidrug-resistant TB treatment outcome data updated for cohort 2017 and extensively drug-resistant TB treatment outcome data updated for cohort 2016.
^b Optional variable. No need to be reported if the "IsolateID" or "ECDCIsolateID" is provided.

Annex 3. Completeness of data reported for 2019, EU/EEA

Country	Age (%)	Gender (%)	Origin² (%)	Country of origin (%)	Site (%)	Previous treatment history ^b (%)	Diagnosed antemortem (%)	Result culture (%)	Result microscopy (%)	Result other test (%)	DST FLD (%)	DST SLD (%)	HIV status (%)	Enrolled in treatment (%)	Outcome 12 months ^c (%)	Outcome 24 months ^d (%)	Outcome 36 months ^e (%)
Austria	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(9.08)	(100.0)	(95.4)	(71.5)	(84.0)	(8.96)	(100.0)	(0.0)	(0.0)	(92.3)	(72.7)	(100.0)
Belgium	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(85.5)	(100.0)	(65.7)	(41.7)	(75.3)	(62.6)	(100.0)	(52.2)	(9.86)	(67.2)	(100.0)	1
Bulgaria	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(86.3)	(87.4)	(7.4)	(72.5)	(100.0)	(82.1)	(100.0)	(100.0)	(100.0)	1
Croatia	(100.0)	(100.0)	(100.0)	(0.66)	(85.1)	(5.3)	(82.2)	(868)	(82.5)	(0.0)	(9.98)	(100.0)	(1.7)	(81.8)	(43.8)	1	I
Cyprus	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(97.1)	(100.0)	(78.3)	(87.0)	(47.8)	(100.0)	(100.0)	(62.3)	(100.0)	(75.0)	(0.0)	I
Czechia	(100.0)	(100.0)	(866)	(8.66)	(100.0)	(100.0)	(100.0)	(68.3)	(92.0)	(78.4)	(106)	(100.0)	(58.4)	(100.0)	(69.7)	(2.99)	I
Denmark	(100.0)	(100.0)	(100.0)	(100.0)	(68.6)	(9.66)	(100.0)	(64.3)	(026)	(61.5)	(286)	(100.0)	(80.8)	(100.0)	(16.2)	I	1
Estonia	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(98.7)	(28.7)	(92.0)	(99.2)	(100.0)	(0.4.0)	(100.0)	(100.0)	(100.0)	(100.0)
Finland	(100.0)	(100.0)	(98.2)	(67.3)	(100.0)	(98.2)	(100.0)	(78.7)	(52.9)	(61.8)	(95.5)	(100.0)	(0.0)	(81.8)	(50.9)	(100.0)	I
France	(100.0)	(6.66)	(89.1)	(93.4)	(6.86)	(26.9)	(1.2)	(46.4)	(82.3)	(0.0)	(4.2)	(100.0)	(0.0)	(0.0)	(13.3)	I	I
Germany	(100.0)	(866)	(67.5)	(0.86)	(66.3)	(71.6)	(98.4)	(87.2)	(91.1)	(85.1)	(106)	(100.0)	(0.0)	(98.4)	(9.98)	(100.0)	I
Greece	(100.0)	(100.0)	(100.0)	(97.2)	(6.86)	(62.6)	(100.0)	(62.7)	(74.9)	(50.8)	(79.5)	(100.0)	(88.9)	(87.8)	(1.6)	ı	I
Hungary	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(86.6)	(87.9)	(0.0)	(90.2)	(100.0)	(2.8)	(100.0)	(0.7.0)	(100.0)	(0.0)
Iceland	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(29.6)	(20.9)	(100.0)	(100.0)	1	(84.6)	(100.0)	(100.0)	ı	I
Ireland	(100.0)	(9.66)	(9.48)	(84.6)	(60.2)	(65.0)	(100.0)	(80.1)	(42.1)	(52.6)	(88.8)	(100.0)	(39.8)	(100.0)	(47.1)	(20.0)	1
Italy	(100.0)	(9.66)	(67.6)	(67.2)	(9.76)	(84.3)	(0.0)	(73.8)	(9.69)	(0.0)	(0.0)	ı	(0.0)	(29.0)	(0.0)	ı	I
Latvia	ı	I	1	1	ı	I	1	ı	ı	1	1	1	1	ı	1	ı	I
Liechtenstein	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Lithuania	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(1.3)	(100.0)	(100.0)	(96.4)	(100.0)	(100.0)	(100.0)	(100.0)
Luxembourg	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(62.0)	(100.0)	(80.0)	(72.0)	(0.0)	(80.0)	(100.0)	(74.0)	(100.0)	(0.0)	ı	I
Malta	(100.0)	(100.0)	(100.0)	(91.8)	(100.0)	(100.0)	(0.0)	(21.0)	(26.1)	(0.0)	(95.8)	1	(0.0)	(100.0)	(0.0)	I	I
Netherlands	(100.0)	(100.0)	(68.7)	(68.7)	(8.86)	(666)	(98.2)	(77.5)	(73.6)	(81.3)	(89.0)	(100.0)	(75.9)	(98.6)	(1.76)	(100.0)	I
Norway	(100.0)	(100.0)	(66.4)	(66.4)	(100.0)	(100.0)	(100.0)	(65.7)	(85.5)	(63.3)	(64.6)	(100.0)	(78.8)	(100.0)	(65.7)	(100.0)	I
Poland	(100.0)	(100.0)	(100.0)	(8.66)	(100.0)	(100.0)	(100.0)	(92.4)	(89.7)	(21.3)	(91.0)	(100.0)	(0.0)	(0.0)	(0.0)	ı	I
Portugal	(100.0)	(100.0)	(6.66)	(80.1)	(8.66)	(100.0)	(100.0)	(62.9)	(48.6)	(37.9)	(57.3)	(100.0)	(0.89)	(100.0)	(100.0)	(77.8)	I
Romania	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(95.4)	(9.96)	(30.7)	(600.5)	(100.0)	(86.4)	(100.0)	(100.0)	(100.0)	(100.0)
Slovakia	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(62.3)	(100.0)	(87.4)	(88.8)	(36.0)	(100.0)	(100.0)	(69.2)	(100.0)	(98.6)	(100.0)	I
Slovenia	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(92.0)	(88.1)	(0.96)	(100.0)	1	(72.3)	(100.0)	(0.66)	ı	I
Spain	(866)	(100.0)	(91.2)	(86.6)	(100.0)	(97.9)	(0.0)	(84.3)	(87.3)	(37.4)	(29.0)	(100.0)	(0.0)	(0.0)	(22.0)	(0.0)	I
Sweden	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(88.9)	(100.0)	(100.0)	(73.7)	(85.4)	(99.2)	(100.0)	(0.0)	(100.0)	(86.5)	(100.0)	1
United Kingdom	(100.0)	(100.0)	(6.96)	(66.3)	(66.7)	(24.7)	(100.0)	(61.9)	(64.1)	(17.0)	(98.8)	(100.0)	(0.0)	(95.4)	(95.8)	(83.3)	(100.0)
Total EU/EEA	(100.0)	(66.6)	(67.3)	(9.96)	(66.4)	(9.98)	(74.3)	(81.1)	(83.0)	(31.7)	(74.4)	(100.0)	(32.3)	(64.1)	(65.0)	(1.96)	(95.8)

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

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

DST SLD: drug-susceptibility testing for second-line anti-tuberculosis drugs, calculated only for multidrug-resistant tuberculosis cases.

EU/EEA: European Union/European Economic Area.

For determining the origin, two variables were merged: BornReporting Country and NationalityReporting Country, depending on country preference.

For determining the origin, two variables were merged: BornReporting Country and NationalityReporting Country, depending on country preference.

Fisher or previous freatment defined by previous diagnosis of fuberculosis for cases reported by Belgium, Denmark, Ireland, Norway and the United Kingdom. Data for the case Schort.

Fisher or he case show a factor of the cases that are reported as "still on treatment" at 12 months.

Annex 4. Reporting completeness into Global TB Database, 2019

Country/area	Identification (%) (17 fields)	Notification (%) (58 fields)	Anti-tuberculosis (TB) drug resistance surveillance (%) (45 fields)	Treatment outcome of TB cases by risk categories (%) (79 fields)	Implementing End TB Strategy (%) (86 fields)	Budget and expenditure (%) (49 fields)
EU/EEA						
Austria	(0.0)	(62.1)	(77.8)	(45.6)	(0.0)	(0.0)
Belgium	(100.0)	(87.9)	(91.1)	(92.4)	(32.6)	(0.0)
Bulgaria	(100.0)	(87.9)	(91.1)	(92.4)	(76.7)	(93.9)
Croatia	(29.4)	(62.1)	(91.1)	(38.0)	(23.3)	(0.0)
Cyprus	(0.0)	(62.1)	(91.1)	(53.2)	(0.0)	(0.0)
Czechia	(100.0)	(91.4)	(91.1)	(92.4)	(47.7)	(0.0)
Denmark	(70.6)	(79.3)	(91.1)	(62.0)	(41.9)	(0.0)
Estonia	(94.1)	(93.1)	(91.1)	(74.7)	(80.2)	(87.8)
Finland	(70.6)	(84.5)	(77.8)	(45.6)	(44.2)	(0.0)
France	(0.0)	(62.1)	(77.8)	(30.4)	(0.0)	(0.0)
Germany	(0.0)	(62.1)	(77.8)	(45.6)	(7.0)	(0.0)
Greece	(58.8)	(74.1)	(91.1)	(39.2)	(11.6)	(0.0)
Hungary	(47.1)	(87.9)	(91.1)	(92.4)	(62.8)	(2.0)
Iceland	(0.0)	(62.1)	(91.1)	(38.0)	(0.0)	(0.0)
Ireland	(100.0)	(82.8)	(91.1)	(77.2)	(58.1)	(0.0)
Italy	(29.4)	(72.4)	(100.0)	(0.0)	(30.2)	(0.0)
Latvia	(100.0)	(19.0)	(0.0)	(0.0)	(46.5)	(28.6)
Liechtenstein	-	-	-	-	_	-
Lithuania	(58.8)	(87.9)	(91.1)	(100.0)	(75.6)	(0.0)
Luxembourg	(100.0)	(77.6)	(91.1)	(5.1)	(45.3)	(0.0)
Malta	(58.8)	(86.2)	(77.8)	(24.1)	(32.6)	(0.0)
Netherlands	(105.9)	(89.7)	(91.1)	(92.4)	(47.7)	(2.0)
Norway	(0.0)	(79.3)	(91.1)	(73.4)	(43.0)	(0.0)
Poland	(100.0)	(82.8)	(77.8)	(0.0)	(36.0)	(0.0)
Portugal	(64.7)	(87.9)	(91.1)	(83.5)	(65.1)	(0.0)
Romania	(100.0)	(91.4)	(91.1)	(100.0)	(75.6)	(100.0)
Slovakia	(94.1)	(89.7)	(91.1)	(77.2)	(32.6)	(2.0)
Slovenia	(100.0)	(87.9)	(91.1)	(62.0)	(75.6)	(0.0)
Spain	(0.0)	(62.1)	(77.8)	(53.2)	(0.0)	(0.0)
Sweden	(64.7)	(82.8)	(77.8)	(60.8)	(44.2)	(0.0)
United Kingdom	(0.0)	(56.9)	(77.8)	(45.6)	(0.0)	(0.0)
Subtotal EU/EEA	(56.4)	(74.0)	(81.6)	(53.2)	(36.6)	(10.2)
Non-EU/EEA						
Albania	(100.0)	(93.1)	(82.2)	(100.0)	(73.3)	(2.0)
Andorra	(64.7)	(50.0)	(31.1)	(79.7)	(58.1)	(2.0)
Armenia	(100.0)	(96.6)	(100.0)	(98.7)	(68.6)	(77.6)
Azerbaijan	(94.1)	(87.9)	(40.0)	(49.4)	(59.3)	(83.7)
Belarus	(100.0)	(101.7)	(97.8)	(92.4)	(77.9)	(93.9)
Bosnia and Herzegovina	(100.0)	(67.2)	(31.1)	(11.4)	(38.4)	(16.3)
Georgia	(100.0)	(93.1)	(86.7)	(92.4)	(84.9)	(100.0)
Israel	(100.0)	(86.2)	(82.2)	(60.8)	(37.2)	(0.0)
Kazakhstan	(100.0)	(98.3)	(51.1)	(100.0)	(86.0)	(100.0)
Kyrgyzstan	(100.0)	(86.2)	(100.0)	(86.1)	(89.5)	(100.0)
Republic of Moldova	(100.0)	(100.0)	(100.0)	(100.0)	(94.2)	(93.9)
Monaco	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)
Montenegro	(100.0)	(81.0)	(86.7)	(59.5)	(57.0)	(2.0)
North Macedonia	(100.0)	(93.1)	(100.0)	(100.0)	(76.7)	(0.0)
Russian Federation	(70.6)	(81.0)	(42.2)	(92.4)	(53.5)	(100.0)
San Marino	(100.0)	(87.9)	(100.0)	(75.9)	(70.9)	(2.0)
Serbia	(100.0)	(79.3)	(73.3)	(100.0)	(81.4)	(0.0)
Serbia excluding Kosovo ¹	(94.1)	(79.3)	(73.3)	(100.0)	(76.7)	(0.0)
Kosovo¹	(100.0)	(70.7)	(24.4)	(100.0)	(81.4)	(0.0)
Switzerland	(100.0)	(72.4)	(82.2)	(46.8)	(37.2)	(2.0)
Tajikistan	(100.0)	(89.7)	(100.0)	(100.0)	(80.2)	(100.0)
Turkey	(100.0)	(89.7)	(100.0)	(100.0)	(83.7)	(0.0)
Turkmenistan	(88.2)	(70.7)	(13.3)	(30.4)	(72.1)	(0.0)
Ukraine	(100.0)	(101.7)	(60.0)	(100.0)	(91.9)	(100.0)
Uzbekistan	(100.0)	(89.7)	(64.4)	(48.1)	(84.9)	(0.0)
Subtotal non-EU/EEA	(92.1)	(82.5)	(70.6)	(75.0)	(71.2)	(42.4)
Total European Region	(73.4)	(78.9)	(77.4)	(65.2)	(51.4)	(23.9)

Note: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs presented in italics. EU/EEA: European Union/European Economic Area. HPC: high-priority country.

¹ All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

Annex 5. Laboratory network capacity, European Region, 2019^a

					Country/	area labor	atory networl				
								Internation nation	nal profici al referenc	ency testi e laborato	ng of ry
Country/area	Micros	сору	Culture	DST for is and rifa		Line probe	Xpert MTB/Rif		Percen agreem results	tage ent of	
	Number of laboratories performing	EQA passed	Number of aboratories performing	Number of aboratories performing	EQA passed	assay	(N)	Year	isoniazid	rifampicin	Acceptable performance ^b
EU/EEA		_									
Austria	-	-	-	-	-	-	-	-	-	-	-
Belgium	101	101	101	14	14	1	27	-	-	-	-
Bulgaria	33	33	30	9	9	3	4	2018	100	100	Υ
Croatia	15	1	15	6	6	0	1	-	-	-	-
Cyprus	-	-	-	-	-	-	-	-	-	-	-
Czechia	38	38	38	-	-	-	13	2019	100	100	Υ
Denmark	1	1	1	1	1	0	1	2019	100	100	Υ
Estonia	2	2	2	2	2	0	6	2019	100	100	Υ
Finland	9	9	9	1	1	2	5	2019	100	100	Υ
France	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Greece	-	-	-	-	-	-	-	-	-	-	-
Hungary	11	11	11	6	2	1	5	2019	100	100	Υ
Iceland	-	-	-	-	-	-	-	-	-	-	-
Ireland	11	11	10	3	3	0	7	2019	100	100	Υ
Italy	46	0	46	68	65	36	42	2018	100	100	Υ
Latvia	143	143	-	1	1	0	323	-	-	-	Υ
Liechtenstein	-	-	-	-	-	-	-	-	-	-	-
Lithuania	10	10	5	5	5	2	4	2019	100	100	Υ
Luxembourg	1	1	1	1	1	1	0	2019	100	100	Υ
Malta	1	1	1	2	-	0	1	-	-	-	-
Netherlands	-	-	30	8	-	-	-	2019	100	100	Υ
Norway	14	14	8	3	3	1	8	2019	100	100	Υ
Poland	50	0	50	39	-	0	22	2019	100	100	Υ
Portugal	46	0	42	21	11	20	10	2019	100	100	Υ
Romania	94	73	86	43	35	7	27	2019	100	100	Υ
Slovakia	7	7	3	2	2	1	1	2040	- 400	-	-
Slovenia	2	2	2	2	2	1	2	2019	100	100	Υ
Spain	-	-	-	-	-	-	-	2010	100	100	-
Sweden	5	5	5	6	6	2	3	2019	100	100	Υ
United Kingdom Subtotal EU/EEA	640	463	496	243	169	78	512	-	-	-	-
Non-EU/EEA	040	403	470	243	107	/0	312	_	-	-	
Albania	12	1	1	1	0	0	1	2017	100	100	Υ
Andorra	7	_	7	6	-	4	3	2017	-	-	-
Armenia	25	25	1	1	1	1	13	2019	100	100	Υ
Azerbaijan	55	35	7	5	5	2	11	2019	-	-	-
Belarus	116	105	16	16	16	8	26	2019	100	100	Υ
Bosnia and Herzegovina	15	-	12	7	-	3	1	-	-	-	-
Georgia	11	11	2	2	2	2	27	2019	98	97	Υ
Israel	17	0	17	3	3	1	_	2018	100	100	Y
Kazakhstan	281	279	19	19	19	12	123	2018	100	100	Y
Kyrgyzstan	116	116	7	2	2	1	24	2019	95	95	N
Republic of Moldova	57	57	4	4	4	0	57	2019	100	100	Y
Monaco	-	-	_	_	-	_	-	-	-	-	_
Montenegro	1	1	1	1	1	_	-1	2019	100	100	Υ
North Macedonia	7	7	3	1	0	0	1	2017	100	100	Y
Russian Federation	5 594	537	359	286	78	5	212	_	-	-	-
San Marino	0	0	0	0	0	0	0	-	-	-	-
Serbia	41	11	32	6	6	1	5	2018	100	100	Υ
Serbia excluding Kosovo¹	31	1	29	4	4	1	2	-	-	-	-
Kosovo¹	10	10	3	2	2	0	3	2018	100	100	Υ
Switzerland	32	32	21	11	11	5	53	-	-	-	-
Tajikistan	76	71	6	2	2	6	43	2019	-	100	N
Turkey	274	165	127	65	-	2	26	2019	100	100	Υ
Turkmenistan	74	6	6	12	2	6	7	2019	100	100	Υ
Ukraine	740	711	82	68	68	4	134	-	100	100	Ν
Uzbekistan	285	260	8	8	2	-	51	2019	100	100	Υ
Subtotal non-EU/EEA	7 836	2 430	738	526	222	63	819	-	-	-	-
Total European Region	8 476	2 893	1234	769	391	141	1 331	-	-	-	-
Subtotal 18 HPCs	0 17 0										

Note: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB high-priority countries presented in italics.

EQA: external quality assessment.

EU/EEA: European Union/European Economic Area.

HPC: high-priority country.

DST: drug-susceptibility testing.

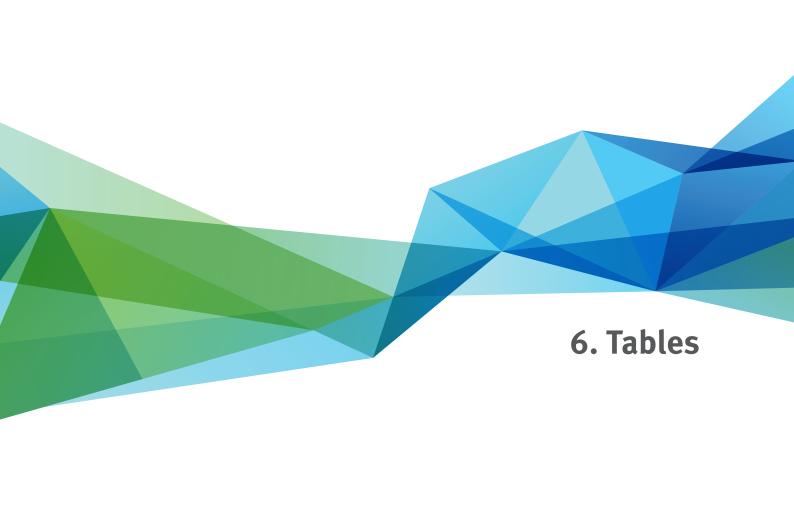
Y: yes.

N: no.

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

* Acceptable performance defined as reference laboratory achieving 95% performance (smear and DST).

* All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).



Summary table. Tuberculosis (TB) surveillance data by region, European Region, 2019

					Re	gion			
		EU/	EEA	Non	-EU/EEA	To	otal		h-priority ntries ^a
Data item	Table showing data by country/area	Number of reporting countries/areas ^b	Value	Number of reporting countries/areas ^b	Value	Number of reporting countries/areas ^b	Value	Number of reporting countries/areas ^b	Value
Total population (millions)	-	30	518.1	23	411.9	52	930.2	18	409.4
Estimates of TB disease burden, 2019°									
Estimated TB mortality rate (excluding HIV-related deaths) per 100 000 population	1	30	0.7	21	4.1	51	2.2	18	4.3
Estimated TB incidence rate per 100 000 population	1	30	10.6	23	46.6	53	26.4	18	49.8
Estimated RR-TB cases among notified bacteriologically confirmed pulmonary TB patients	2	31	1 170	22	44 100	53	46 000	17	44 800
Estimated percentage of HIV infection among incident TB cases (new and relapse)	2	29	3.8	20	14.7	49	12.0	18	14.0
Notifications of TB cases, 2019									
Total number of TB cases	3	29	49 752	22	210 194	51	259 946	17	221 270
All TB cases per 100 000 population	3	29	9.6	22	51.0	51	28.0	17	54.3
Mean annual percentage change of notification rate (2015–2019)	3	29	-5.1%	22	-5.3%	51	-5.1%	17	-5.2%
Number of new and relapse TB cases	4	29	47 504	22	168 367	51	215 871	17	178 89
New and relapse TB cases per 100 000 population	4	29	9.2	22	40.9	51	23.2	17	43.9
Mean annual percentage change of notification rate of new and relapse TB cases (2015–2019)	4	29	-5.0%	22	-5.9%	51	-5.5%	17	-5.8%
Percentage of new cases among all TB cases	5	29	76.9%	22	66.6%	51	68.6%	17	67.2%
Percentage of retreatment cases among all TB cases	5	29	9.7%	22	33.4%	51	28.8%	17	32.8%
Percentage of pulmonary TB among all TB cases	6	29	77.4%	-	-	-	-	-	-
Percentage of laboratory-confirmed TB cases among all TB cases	8	29	67.1%	-	-	-	-	-	-
Male-to-female ratio of new and relapse TB cases	9	29	1.8	22	1.9	51	1.9	17	2.0
Percentage of foreign TB cases among all TB cases	10	29	34.5%	19	2.2%	48	8.7%	14	1.8%
TB case laboratory confirmation, MDR and XDR, 2019									
Percentage of laboratory-confirmed cases among new pulmonary TB cases ^d	12	29	75.9%	21	62.2%	50	65.0%	16	63.4%
Percentage of DST results reported among new bacteriologically confirmed pulmonary TB cases	12	29	86.5%	21	93.2%	50	91.6%	16	93.4%
Percentage of MDR-TB among new pulmonary TB cases	12	29	2.2%	21	26.6%	50	21.1%	16	24.7%
Percentage of MDR-TB among previously treated pulmonary TB cases	12	29	11.9%	21	57.4%	50	54.4%	16	55.6%
Percentage of DST results reported among all confirmed TB cases	13	28	80.0%	-	-	-	-	-	-
Percentage of MDR-TB among all TB cases	13	28	3.4%	-	-	-	-	-	-
Percentage of XDR-TB among all MDR-TB cases with DST for SLD TB/HIV coinfection, 2019	14	29	22.4%	18	22.5%	47	22.5%	15	22.6%
Percentage of new and relapse TB cases with known HIV status	17	19	77.9%	20	95.4%	39	93.5%	16	95.3%
Percentage of HIV-positive cases among new and relapse TB cases with known HIV status	17	19	3.0%	20	15.6%	39	14.5%	16	14.7%
Percentage of HIV-positive new and relapse TB cases started on ART	17	7	85.7%	19	75.7%	26	75.8%	15	75.9%
Percentage of all TB cases with known HIV status	18	19	78.0%	-	-	-	-	-	-
Percentage of HIV-positive cases among all TB cases with known HIV status	18	19	3.1%	-	-	-	-	-	-
Treatment outcome									
Treatment success of all TB cases reported in 2018	20	24	63.7%	22	75.2%	46	72.7%	17	75.6%
Treatment success of new and relapse TB cases notified in 2018	21	24	73.1%	22	77.4%	46	76.5%	17	78.2%
Treatment success of childhood TB cases notified in 2018	22	26	79.9%	19	93.1%	45	89.4%	14	93.6%
Treatment success of TB/HIV cases notified in 2018	24	19	54.9%	15	51.5%	34	51.6%	14	51.6%
Treatment success of RR/MDR-TB cases enrolled in SLD treatment in 2017	26	23	45.7%	21	58.9%	44	58.6%	17	58.6%
Treatment success of all MDR-TB cases notified in 2017	27	23	46.8%	-	-	-	-	-	-
Treatment success of all XDR-TB cases notified in 2017	28	26	7.8%	19	43.9%	45	43.0%	17	43.0%

Wate: European Region comprises the 53 countries of the WHO European Region and Liechtenstein.

ART: antiretroviral therapy.

DST: drug-susceptibility testing.

MDR: multidrug-resistant.

RR: rifampicin-resistant.

SLD: second-line anti-TB drugs.

XDR: extensively drug-resistant.

4 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, the Republic of Moldova, Romania, the Russian Federation, Tajikistan, Turkey, Turkmenistan, Ukraine and Uzbekistan.

b Number of countries/areas with available data included in the statistics.

c WHO estimates, as published in: WHO (2020). Global tuberculosis report 2020. Geneva: World Health Organization (https://www.who.int/teams/global-tuberculosis-report-2020, accessed 10 February 2021).

c Laboratory-confirmed cases – cases with positive identification for Mycobacterium tuberculosis complex confirmed by culture and/or line probe assay for non-EU/EEA countries and areas. 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, 2019

				d number o forms. exc				Esti	mated numl	er of inciden	t cases (al	l forms)	
Country	Population ^a		Number		Pe	r 100 000			Number			100 000	
		Best	Low	High	Best	Low	High	Best	Low	High	Best	Low	High
EU/EEA													
Austria	8 955 108	35	34	35	0.4	0.4	0.4	560	480	650	6.2	5.3	7.2
Belgium	11 539 326	33	32	35	0.3	0.3	0.3	1000	880	1200	8.9	7.6	10
Bulgaria	7 000 117	110	110	110	1.6	1.5	1.6	1 400	1 100	1 800	21	16	26
Croatia	4 130 299	40	39	40	1.0	1.0	1.0	330	280	380	8	6.8	9.2
Cyprus	1 198 574	3	2	4	0.3	0.2	0.3	64	54	73	5.3	4.5	6.1
Czechia	10 689 213	36	36	37	0.3	0.3	0.3	530	450	610	4.9	4.2	5.7
Denmark	5 771 877	18	17	18	0.3	0.3	0.3	290	250	340	5	4.3	5.8
Estonia	1 325 649	13	13	13	1.0	1.0	1.0	170	140	200	13	11	15
Finland	5 532 159	23	23	23	0.4	0.4	0.4	260	220	300	4.7	4	5.4
France	65 129 731	290	270	310	0.5	0.4	0.5	5 700	5 000	6 400	8.7	7.6	9.8
Germany	83 517 046	300	290	300	0.4	0.4	0.4	4 9 0 0	4 600	5 100	5.8	5.5	6.1
Greece	10 473 452	48	46	50	0.5	0.4	0.5	450	390	520	4.3	3.7	5
Hungary	9 684 680	27	27	27	0.3	0.3	0.3	610	520	700	6.3	5.4	7.2
Iceland	339 037	1	1	1	0.4	0.4	0.4	15	13	17	4.4	3.8	5.1
Ireland	4 882 498	19	19	19	0.4	0.4	0.4	280	240	330	5.8	5	6.7
Italy	60 550 092	320	310	330	0.5	0.5	0.5	4 300	3 700	5 000	7.1	6.1	8.2
Latvia	1 906 740	42	41	42	2.2	2.2	2.2	490	420	570	26	22	30
Liechtenstein	-	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	2 759 631	110	110	110	4.0	3.9	4.1	1200	990	1300	42	36	48
Luxembourg	615 730	1	1	1	0.2	0.2	0.2	55	47	64	9	7.7	10
Malta	440 377	3	3	3	0.7	0.7	0.7	60	51	69	14	12	16
Netherlands	17 097 123	24	23	24	0.1	0.1	0.1	860	730	990	5	4.3	5.8
Norway	5 378 859	19	18	19	0.3	0.3	0.4	180	150	200	3.3	2.8	3.8
Poland	37 887 771	460	430	490	1.2	1.1	1.3	5 700	4 900	6 600	15	13	17
Portugal	10 226 178	180	170	190	1.8	1.7	1.8	2 000	1700	2 300	19	17	22
Romania	19 364 558	790	790	800	4.1	4.1	4.1	13 000	11 000	15 000	66	56	76
Slovakia	5 457 012	35	35	35	0.6	0.6	0.7	250	210	280	4.5	3.9	5.2
Slovenia	2 078 654	7	7	7	0.3	0.3	0.3	110	96	130	5.4	4.6	6.3
Spain	46 736 782	240	240	250	0.5	0.5	0.5	4 300	3 700	5 000	9.3	7.9	11
Sweden	10 036 391	23	22	23	0.2	0.2	0.2	550	470	640	5.5	4.7	6.3
United Kingdom	67 530 161	310	300	310	0.5	0.5	0.5	5 400	4 900	6 000	8	7.2	8.8
Subtotal EU/EEA	518 234 825	3 560	3 520	3 600	0.7	0.7	0.7	55 000	52 000	58 000	10.6	10.0	11.2
Non-EU/EEA	0.0 20 (020		7720		4. ,	4.,	0.,		52000		1010		
Albania	2 880 913	8	4	14	0.3	0.2	0.5	470	410	550	16	14	19
Andorra	77 146	0	0	1	0.6	0.4	0.9	6	5	7	7.5	6.4	8.6
Armenia	2 957 728	1	0	2	0.0	0.0	0.1	780	590	980	26	20	33
Azerbaijan	10 047 719	590	550	640	5.9	5.4	6.4	6 000	4 600	7 600	60	46	76
Belarus	9 452 409	270	260	280	2.8	2.7	3.0	2 800	2 100	3 500	29	22	37
Bosnia and Herzegovina	3 300 998	93	86	100	2.8	2.6	3.0	900	690	1100	27	21	34
Georgia	3 996 762	150	140	170	3.8	3.5	4.2	3 000	2 500	3 500	74	62	87
Israel	8 519 373	130	13	14	0.2	0.2	0.2	250	210	290	2.9	2.5	3.4
Kazakhstan	18 551 428	290	220	370	1.6	1.2	2.0	13 000	8 200	18 000	68	44	98
		350	320	380	5.5	5.0		7 100	6 000	8 200	110	94	127
Kyrgyzstan	6 415 851			380			5.9	7100	0 000	8 200	0	94	0
Monaco	38 967	0	0	-	0.0	0.0	0.0	-	-	-	-	-	-
Montenegro	627 988	1	1	1	0.2	0.2	0.2	92	79	110	15	13	17
North Macedonia	2 083 458	20	20	21	1.0	0.9	1.0	250	190	310	12	9.1	15
Republic of Moldova	4 043 258	200	170	230	4.9	4.1	5.7	3 200	2 800	3 700	80	68	92
Russian Federation	145 872 260	8 400	7900	8 900	5.8	5.4	6.1	73 000	47 000	104 000	50	32	71
San Marino	33 864	0	0	0	0.0	0.0	0.0	0	0	0	0	0	0
Serbia	8 772 228	44	41	48	0.5	0.5	0.6	1300	1100	1500	14	12	17
Switzerland	8 591 361	27	26	28	0.3	0.3	0.3	460	400	530	5.4	4.6	6.2
Tajikistan	9 321 023	730	650	820	7.9	7.0	8.7	7 700	6 000	9 700	83	64	104
Turkey	83 429 607	300	270	340	0.4	0.3	0.4	13 000	11 000	15 000	16	13	18
Turkmenistan	5 942 094	600	520	680	10.0	8.8	12.0	2 600	2 000	3 300	45	34	56
Ukraine	43 993 643	3 200	3 000	3 400	7.3	6.8	7.8	34 000	22 000	48 000	77	50	110
Uzbekistan	32 981 715	1 500	1 400	1700	4.7	4.3	5.0	22 000	15 000	30 000	67	47	91
Subtotal non-EU/EEA	411 931 793	17 000	16 000	18 000	4.1	3.9	4.4	192 000	160 000	224 000	47	39	54
Total European Region	930 166 618	20 000	20 000	21 000	2.2	2.1	2.3	246 000	214 000	280 000	26	23	30
Subtotal 18 HPCs	409 362 192	17 646	17 000	18 000	4.3	4.2	4.4	204 000	167 000	241 000	50	41	59

Note: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. HPC: high-priority countries.

a Population estimate 2020 by United Nations Statistical Database for all countries.

	Estimate	d incidence	of child T	B cases		ı	Estimated i	ncidence of	TB among	females		
	Number			er 100 000			Number			r 100000		Country
Best	Low	High	Best	Low	High	Best	Low	High	Best	Low	High	FILEP A
33	28	39	2.6	2.2	3.0	210	160	260	5.4	4.1	6.6	EU/EEA Austria
58	48	67	2.9	2.4	3.4	320	250	390	6.6	5.1		Belgium
90	66	110	8.8	6.4	10.7	470	300	640	15.2	9.7		Bulgaria
7	6	8	1.2	1.0	1.3	120	94	140	6.5	5.1		Croatia
1	1	1	0.5	0.5	0.5	31	24	38	6.2	4.8		Cyprus
5	4	5	0.3	0.2	0.3	130	110	150	2.8	2.4		Czechia
11	9	12	1.2	1.0	1.3	110	85	130	4.5	3.5	5.3	Denmark
1	1	1	0.5	0.5	0.5	54	43	65	9.1	7.2	11.0	Estonia
10	9	12	1.1	1.0	1.4	91	71	110	3.8	3.0		Finland
310	270	360	2.7	2.3	3.1	1800	1500	2 200	6.4	5.4		France
200	190	220	1.7	1.6	1.9	1600	1500	1700	4.4	4.1		Germany
6	5	6	0.4	0.3	0.4	110	89	130	2.4	1.9		Greece
12	10	13	0.9	0.7	0.9	200	160	240	4.5	3.6		Hungary
0	0	0	0.0	0.0	0.0	7	5	8	5.1	3.7		Iceland
12	10	13	1.2	1.0	1.3	110	86	130	5.6	4.4		Ireland
190	160	210	2.4	2.0	2.6	1300	1100	1600	4.8	4.0		Italy
9	8	11	2.9	2.6	3.5	140	120	170	15.9	13.7		Latvia Liechtenstein
31	26	36	7.4	6.2	8.6	320	250	380	25.0	19.5		Lithuania
0	0	0	0.0	0.0	0.0	12	250	14	4.7	3.5		Luxembourg
1	1	1	1.6	1.6	1.6	14	12	17	7.4	6.3		Malta
53	44	61	2.0	1.6	2.2	340	260	410	4.7	3.6		Netherlands
5	4	5	0.5	0.4	0.5	71	56	87	3.2	2.5		Norway
93	79	110	1.6	1.4	1.9	1500	1200	1800	9.0	7.2		Poland
72	61	84	5.3	4.5	6.2	640	510	780	13.5	10.8		Portugal
450	380	520	14.9	12.6	17.2	3 600	2 900	4 300	42.5	34.2	50.7	Romania
40	33	47	4.7	3.9	5.5	86	65	110	3.6	2.7	4.6	Slovakia
2	2	3	0.6	0.6	1.0	40	32	49	4.5	3.6	5.5	Slovenia
290	240	330	4.3	3.5	4.8	1500	1200	1800	7.3	5.9	8.8	Spain
22	18	25	1.2	1.0	1.4	240	190	300	5.8	4.6		Sweden
200	180	230	1.7	1.5	1.9	2 000	1700	2 300	7.1	6.0		United Kingdom
2 210	2 100	2 320	2.8	2.6	2.9	17 000	16 000	18 000	7.5	7.1	8.0	Subtotal EU/EEA
12	11	15	2.6	2.2	2.0	120	110	160	11.0	0.3	12.6	Non-EU/EEA
13	11	15	2.6 0.0	0.0	3.0 0.0	130	110	160	11.0	9.3		Albania Andorra
47	35	60	7.7	5.7	9.8	150	100	200	11.7	7.8		Armenia
460	330	580	19.5	14.0	24.6	1900	1200	2 600	48.3	30.5		Azerbaijan
69	51	86	4.3	3.2	5.3	790	530	1 100	18.5	12.4		Belarus
7	5	8	1.4	1.0	1.6	350	230	470	24.2	15.9		Bosnia and Herzegovina
160	130	190	20.0	16.2	23.7	930	710	1200	54.5	41.6		Georgia
8	7	9	0.3	0.3	0.4	92	72	110	2.9	2.3		Israel
360	210	500	6.7	3.9	9.3	4 800	2 100	7 500	69.1	30.2		Kazakhstan
350	300	410	16.8	14.4	19.7	2 800	2 200	3 400	125.9	98.9	152.9	Kyrgyzstan
0	0	0	0.0	0.0	0.0	0	0	0	0.0	0.0		Monaco
1	1	1	0.9	0.9	0.9	29	23	35	11.0	8.7		Montenegro
15	11	19	4.4	3.2	5.6	80	51	110	9.1	5.8		North Macedonia
120	98	130	18.7	15.3	20.2	820	660	980	45.7	36.8		Republic of Moldova
2 000	1 200	2 800	7.6	4.5	10.6	21 000	9 900	32 000	32.1	15.1		Russian Federation
0	0	0	0.0	0.0	0.0	520	(10	0	0.0	0.0		San Marino
18 17	15 15	20	1.3	1.1	1.5	520 200	410 160	630 250	13.6	10.7 4.3		Serbia Switzerland
630	460	790	18.2	13.3	22.9	3 200	2 000	4 300	108.7	68.0		Tajikistan
570	480	660	2.8	2.4	3.3	5 100	4 000	6 200	15.8	12.4		Turkey
120	87	150	6.6	4.8	8.2	1 000	660	1 400	47.3	31.2		Turkmenistan
1300	750	1800	18.5	10.7	25.7	10 000	4 700	16 000	49.5	23.3		Ukraine
3 200	2 000	4 400	33.7	21.1	46.3	8 700	4 000	13 000	73.0	33.6		Uzbekistan
9 000	7 000	11 000	10.2	7.9	12.4	63 000	50 000	76 000	36.7	29.1		Subtotal non-EU/EEA
12 000	10 000	13 000	7.1	5.9	7.7	80 000	65 000	95 000	20.2	16.4		Total European Region
10 000	8 000	12 000	11.5	9.2	13.8	66 000	53 000	79 000	38.5	30.9		Subtotal 18 HPCs

Table 2. Estimates for TB/HIV coinfection and MDR-TB, European Region, 2019

Country	Estimated I	HIV infectio	n among incid	dent TB case	s (new and r	elapse)	Estimated p	ercentage o	
Country		Number			%			%	
	Best	Low	High	Best	Low	High	Best	Low	High
EU/EEA									
Austria	13	5	23	2.3	1.0	4.1	2.3	0.8	4.9
Belgium	44	14	90	4.3	1.4	8.7	2.1	1.0	3.9
Bulgaria	15	4	32	1.0	0.3	2.1	2.5	1.3	4.4
Croatia	3	2	6	1.0	0.5	1.7	0.4	0.0	2.5
Cyprus	3	2	5	4.9	2.6	7.8	0.0	0.0	11.0
Czechia Denmark	5	2 2	9 17	0.9	0.4	1.7	2.6	1.1	5.1
Estonia	19	11	30	2.7 12.0	0.9 6.6	5.7 18.0	2.5 17.0	0.7 10.0	6.3
Finland	4	2	7	1.6	0.7	2.8	1.7	0.2	5.8
France	400	130	820	7.1	2.3	14.0	1.0	0.7	1.5
Germany	130	72	210	2.7	1.5	4.4	2.2	0.8	4.8
Greece	16	9	25	3.6	2.1	5.5	1.5	0.0	8.0
Hungary	6	3	10	1.0	0.5	1.7	3.3	1.4	6.4
Iceland	0	0	1	2.7	0.3	7.8	0.0	0.0	60.0
Ireland	11	6	18	3.9	2.2	6.1	1.1	0.0	5.8
Italy	230	100	420	5.4	2.4	9.6	2.8	1.8	4.3
Latvia	36	11	75	7.2	2.1	15.0	8.0	5.4	11.0
Liechtenstein	-	-	-	-	-	-	-	-	-
Lithuania	30	18	44	2.6	1.7	3.7	14.0	11.0	17.0
Luxembourg	0	0	2	0	0	3.7	2.5	1.3	4.0
Malta	2	1	5	3.5	0.9	7.8	0.0	0.0	13.0
Netherlands	29	18	43	3.4	2.2	4.9	2.4	1.0	5.0
Norway	8	3	16	4.7	1.7	8.9	1.4	0.0	7.3
Poland	84	43	140	1.5	0.8	2.4	1.0	0.7	1.4
Portugal	200	160	240	10.0	8.8	12.0	1.0	0.5	1.7
Romania	240	190	290	1.9	1.6	2.1	2.7	2.3	3.1
Slovakia	7	2	14	2.7	0.8	5.7	1.3	0.0	6.9
Slovenia	2	0	6	1.4	0.0	5.2	0.0	0.0	4.6
Spain	340	110	700	7.9	2.5	16.0	4.2	2.9	5.8
Sweden	13	6	23	2.4	1.1	4.2	2.1	0.7	4.9
United Kingdom	210	68	440	3.9	1.2	8.0	1.4	0.9	2.1
Subtotal EU/EEA	2 110	2 000	3 000	3.8	3.4	5.8	2.7	1.9	3.7
Non-EU/EEA									
Albania	10	4	19	2.2	0.9	4.0	2.3	0.6	5.8
Andorra	-	-	-	-	-	-	0.0	0.0	98.0
Armenia	81	56	110	10.0	8.1	13.0	16.0	12.0	22.0
Azerbaijan	94	65	130	1.6	1.2	1.9	11.0	10.0	13.0
Belarus	200	140	260	7.1	6.1	8.2	38.0	35.0	40.0
Bosnia and Herzegovina	1	0	4	0.2	0.0	0.4	0.5	0.1	1.8
Georgia	53	35	74	1.8	1.3	2.4	12.0	10.0	14.0
Israel	9	4	17	3.7	1.4	6.9	8.6	4.0	16.0
Kazakhstan	680	440	980	5.4	5.0	5.8	27.0	26.0	28.0
Kyrgyzstan	160	130	200	2.3	1.9	2.6	29.0	28.0	31.0
Monaco	-	-	-	-	-	-	2.5	1.3	4.0
Montenegro	0	0	2	0	0	2.3	0.0	0.0	5.8
North Macedonia	2	0	6	0.7	0.0	2.6	0.8	0.0	4.3
Republic of Moldova	340	280	410	11.0	9.4	12.0	33.0	30.0	35.0
Russian Federation	17 000	11 000	24 000	23.0	23.0	24.0	35.0	35.0	36.0
San Marino	-	-	-	-	-	-	2.5	1.3	4.0
Serbia	4	3	6	0.3	0.2	0.5	1.1	0.5	2.2
Switzerland	23	11	37	4.9	2.5	8.0	1.1	0.2	3.3
Tajikistan	230	170	300	3.0	2.5	3.4	29.0	27.0	31.0
Turkey	150	120	190	1.2	1.0	1.4	2.4	1.9	2.8
Turkmenistan	610	310	1 000	23.0	12.0	36.0	23.0	21.0	26.0
Ukraine	7 800	5 000	11 000	23.0	22.0	24.0	27.0	26.0	28.0
Uzbekistan	880	610	1 200	4.0	3.7	4.3	12.0	11.0	13.0
Subtotal non-EU/EEA	28 300	21 000	35 000	14.7	9.4	21.9	22	21	23
Total European Region	30 000	23 000	38 000	12.0	7.9	18.0	17	16	18
Subtotal 18 HPCs	28 600	22 000	40 300	14.0	9.1	24.1	22	21	23

Note: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. HPC: high-priority countries. RR: rifampicin-resistant.

		percentage o long retreate patients		notified	RR-TB case bacteriolog ed pulmona patients	gically	Country
18.0 3.8 4.3.0 10 4 17 Austria	Post	%	Ulah	Doot	Number	Hink	
18.0	Best	LOW	nign	Best	LOW	nign	EII/EEA
8.8	18.0	3.8	//3.0	10	/1	17	_
13.0							
6.3							-
12.0							•
12.0							
		2.4	30.0	11			
10.0	0.0	0.0	25.0	4	0	9	Denmark
10.0	52.0	30.0	74.0	29	20	38	Estonia
16.0 30.0 100 52 160 Germany 9.1 0.2 41.0 7 0 16 Greece 8.1 3.3 16.0 12 5 18 Hungary 0.0 0.0 0.0 98.0 0 0 2 Iceland 11.0 0.3 48.0 3 0 7 Ireland 13.0 7.7 21.0 72 47 96 Italy 13.0 7.7 21.0 72 47 96 Italy 13.0 7.7 21.0 72 47 96 Italy 14.0 7 15.0 19.0 Italy 14.0 7 15.0 19.0 Italy 14.0 11.0 7.1 16.0 0 0 6 Maita 11.0 7.1 16.0 0 0 6 Maita 11.0 7.1 16.0 0 0 6 Maita 14.0 0.0 0.0 25.0 9 2 15 Netherlands 15.0	67.0	9.4	99.0	6	2	10	Finland
9.1 0.2 41.0 7 0 16 Greece							
8.1 3.3 16.0 12 5 18 Hungary 10.0 0.0 99.0 0 0 2 Iceland 11.0 0.3 48.0 3 0 7 Ireland 13.0 7.7 21.0 72 47 96 Italy 31.0 19.0 44.0 Latvia Liechtenstein 39.0 32.0 46.0 770 150 190 Lithuania 11.0 7.1 16.0 0 0 6 Malta 0.0 0.0 25.0 9 2 15 Netherlands 0.0 0.0 0.0 40.							,
0.0							
11.0							- /
13.0							
31.0							
10						96	,
39.0 32.0 46.0 170 150 190 Lithuania 11.0 7.1 16.0 0 0 1 Luxembourg 11.0 7.1 16.0 0 0 6 Malta 10.0 0.0 25.0 9 2 15 Netherlands 10.0 0.0 25.0 9 2 15 Netherlands 10.0 10.0 10.0 25.0 9 2 15 Netherlands 10.0 10						-	
11.0							
11.0							
0.0							
0.0							
2.8							
6.9 2.8 14.0 16 9 23 Portugal 13.0 11.0 15.0 430 390 480 Romania 19.0 5.4 42.0 6 1 1 Slovakia 0.0 0.0 6.0 0 0 2 Slovenia 18.0 9.4 30.0 110 78 150 Spain 18.0 2.3 52.0 6 1 12 Sweden 3.3 0.9 8.1 35 23 47 United Kingdom 12.1 8.7 20.2 1170 1100 1300 Subtotal EU/EEA							,
13.0							
19.0							
0.0							
18.0							
3.3 0.9 8.1 35 23 47 United Kingdom 12.1 8.7 20.2 1170 1100 1300 Subtotal EU/EEA Non-EU/EEA Non-EU/EEA	18.0	9.4	30.0	110	78	150	Spain
12.1 8.7 20.2 1170 1100 1300 Subtotal EU/EEA	18.0	2.3	52.0	6	1	12	Sweden
Non-EU/EEA 1.0	3.3	0.9	8.1	35	23	47	United Kingdom
6.7 0.2 32.0 6	12.1	8.7	20.2	1 170	1 100	1 300	Subtotal EU/EEA
11.0							
41.0 29.0 54.0 66 52 80 Armenia 24.0 23.0 26.0 760 710 810 Azerbaijan 60.0 56.0 64.0 870 830 920 Belarus 0.0 0.0 8.2 2 0 4 Bosnia and Herzegovina 32.0 28.0 37.0 320 280 350 Georgia 0.0 0.0 46.0 10 4 17 Israel 44.0 43.0 46.0 3100 3 000 3 200 Kazakhstan 60.0 57.0 63.0 1 400 1 300 1 400 Kyrgyzstan 11.0 7.1 16.0 -							
24.0 23.0 26.0 760 710 810 Azerbaijan 60.0 56.0 64.0 870 830 920 Belarus 0.0 0.0 8.2 2 0 4 Bosnia and Herzegovina 32.0 28.0 37.0 320 280 350 Georgia 0.0 0.0 46.0 10 4 11 Israel 44.0 43.0 46.0 3 100 3 000 3 200 Kazakhstan 60.0 57.0 63.0 1 400 1 300 Hoon Kyrgyzstan 11.0 7.1 16.0 - - - Montenegro 0.0 0.0 37.0 0 0 2 Montenegro 0.0 0.0 23.0 1 0 4 North Macedonia 80.0 56.0 64.0 930 880 970 Republic of Moldova 71.0 70.0 71.0 28 000 28 000 29 000 Russian Federation 11.0 7.1 16.0 0 0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
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52 45 59 46 000 45 000 46 000 Total European Region							

Table 3. TB cases, notification rates per 100 000 population and mean annual change in rates, European Region,

	2015		2016		2017		2018	:	2019		Mean annual %
Country/area	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	change in rate, 2015–2019
EU/EEA											2015 2019
Austria	583	6.8	634	7.3	569	6.5	482	5.5	474	5.4	-5.8%
Belgium	977	8.7	1 042	9.2	967	8.5	977	8.6	968	8.5	-0.7%
Bulgaria	1 660	23.0	1 603	22.4	1 4 6 3	20.6	1 358	19.3	1344	19.2	-4.5%
Croatia	488	11.5	464	11.1	378	9.1	372	9.1	303	7.4	-10.4%
Cyprus	63	7.4	60	7.1	53	6.2	52	6.0	69	7.9	1.4%
Czechia	517	4.9	516	4.9	501	4.7	443	4.2	464	4.4	-2.9%
Denmark	357	6.3	330	5.8	275	4.8	291	5.0	281	4.8	-6.4%
Estonia	217	16.5	192	14.6	175	13.3	147	11.1	150	11.3	-9.0%
Finland	272	5.0	234	4.3	245	4.5	225	4.1	225	4.1	-4.8%
France	4 744	7.1	5 735	8.6	5 015	7.5	5 092	7.6	5 116	7.6	1.7%
Germany	5 837	7.2	5 925	7.2	5 498	6.7	5 492	6.6	4 791	5.8	-5.3%
Greece	482	4.4	440	4.1	467	4.3	432	4.0	459	4.3	0.9%
Hungary	906	9.2	786	8.0	685	7.0	640	6.5	552	5.6	-11.5%
Iceland	7	2.1	6	1.8	14	4.1	8	2.3	13	3.6	14.4%
Ireland	283	6.1	315	6.7	300	6.3	310	6.4	266	5.4	-2.7%
Italy	3 769	6.2	4 032	6.6	3 944	6.5	3 912	6.5	3 346	5.5	-2.8%
Latvia	721	36.3	660	33.5	552	28.3	-	-	-	-	-
Liechtenstein	2	5.4	2	5.3	1	2.6	1	2.6	-	-	-
Lithuania	1 507	51.6	1 442	49.9	1 387	48.7	1 142	40.7	1 058	37.9	-7.4%
Luxembourg	30	5.3	29	5.0	32	5.4	42	7.0	50	8.1	11.2%
Malta	32	7.3	50	11.1	42	9.1	55	11.6	98	19.9	28.5%
Netherlands	862	5.1	887	5.2	783	4.6	797	4.6	759	4.4	-3.7%
Norway	313	6.1	295	5.7	261	5.0	208	3.9	165	3.1	-15.4%
Poland	6 430	16.9	6 444	17.0	5 787	15.2	5 487	14.4	5 321	14.0	-4.6%
Portugal	2 195	21.2	1936	18.7	1 914	18.6	1905	18.5	1771	17.2	-5.0%
Romania	15 183	76.4	13 601	68.8	12 997	66.2	12 199	62.5	11 633	59.9	-5.9%
Slovakia	317	5.8	296	5.5	249	4.6	281	5.2	214	3.9	-9.5%
Slovenia	130	6.3	118	5.7	112	5.4	99	4.8	101	4.9	-6.3%
Spain	5 020	10.8	5 070	10.9	5 660	12.2	4 766	10.2	4 150	8.8	-4.9%
Sweden	815	8.4	714	7.2	519	5.2	489	4.8	479	4.7	-13.5%
United Kingdom	6 228	9.6	6 116	9.3	5 531	8.4	5 036	7.6	5 132	7.7	-5.4%
Subtotal EU/EEA	60 947	11.9	59 974	11.6	56 376	10.9	52 740	10.2	49 752	9.6	-5.1%
Non-EU/EEA						.= .					
Albania	415	14.4	415	14.4	503	17.4	440	15.3	412	14.3	-0.1%
Andorra	4	5.1	4	5.2	1	1.3	2	2.6	5	6.5	6.0%
Armenia	1 185	40.5	1 080	36.8	926	31.4	796	27.0	670	22.7	-13.5%
Azerbaijan	7 501	78.0	6 707	68.9	7 129	72.4	6 896	69.3	6 533	65.0	-4.4%
Belarus	4 177	44.3	3 598	38.1	3 052	32.3	2 542	26.9	2 615	27.7	-11.1%
Bosnia and Herzegovina	1095	31.9	907	26.8	768	22.9	669	20.1	580	17.6	-13.9%
Georgia	3 611	89.7	3 330	82.9	2 927	73.0	2 590	64.7	2 451	61.3	-9.1%
Israel	280	3.5	250	3.1	234	2.8	292	3.5	217	2.5	-7.7%
Kazakhstan	14 631 7 833	83.3	12 658 7 995	71.0 131.6	12 942 7 695	71.6 124.3	13 361 7 585	72.9	12 990	70.0 109.7	-4.2% -4.4%
Kyrgyzstan Monaco	0	131.4	0	0.0	0	0.0	0	120.3	7 039 0		-4.4 %
Montenegro	80	0.0	87	13.9	77	12.3	84	13.4	82	0.0	0.6%
North Macedonia											-8.6%
Republic of Moldova	284 4 211	13.7 103.4	267 4 134	12.8 101.7	219 3 858	10.5 95.0	217 3 465	10.4 85.5	199 3 255	9.6 80.5	-8.6% -6.1%
Russian Federation	130 904	90.3	121 046	83.3	114 187	78.5	106 913	73.4	103 979	71.3	-5.7% -5.7%
San Marino	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0.0%
Serbia	1658	18.7	1488	16.8	1466	16.6	1 358	15.4	1 179	13.4	-7.9%
Serbia excluding Kosovo ¹	888	12.5	767	10.8	745	10.6	656	9.4	567	8.2	-7.9 % -9.9 %
Kosovo ¹	770	43.5	707	40.6	721	40.4	702	39.2	612	34.4	-5.7%
Switzerland	564	6.8	609	7.3	555	6.6	516	6.1	435	5.1	-7.1%
Tajikistan	6 232	73.7	6 241	72.0	6 279	70.7	5 975	65.7	5 976	64.1	-3.4%
Turkey	12 772	16.3	12 417	15.6	12 046	14.9	11 786	14.3	11 401	13.7	-4.3%
Turkmenistan	2 472	44.4	2 340	41.3	2 232	38.8	2 636	45.1	2 863	48.2	2.1%
Ukraine	35 304	78.6	34 088	76.2	31 584	71.0	30 378	68.7	28 539	64.9	-4.7%
Uzbekistan	19 055	61.6	18 441	58.7	19 329	60.5	18 496	57.0	18 774	56.9	-2.0%
Subtotal non-EU/EEA	254 268	63.4	238 102	58.9	228 009	56.0	216 997	53.0	210 194	51.0	-2.0 % -5.3%
Total European Region	315 215	34.4	298 076	32.4	284 385	30.8	269 737	29.1	259 946	28.0	-5.1%
Subtotal 18 HPCs	269 176	67.2	251 573	62.5	240 760	59.4	228 265	56.3	221 270	54.3	-5.2%

Note: 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. HPC: high-priority countries.

1 All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

Table 4. New and relapse TB cases, a notification rates per 100 000 population and mean annual change in rates, European Region, 2015-2019

Country/area	2015		201	5	2017		2018		2019)	Mean annual %
Country/area	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	change in rate, 2015–2019
EU/EEA											
Austria	564	6.6	619	7.1	561	6.4	470	5.3	464	5.2	-5.59
Belgium ^b	919	8.2	982	8.7	911	8.0	910	8.0	895	7.8	-1.19
Bulgaria	1 619	22.5	1 525	21.3	1 408	19.8	1290	18.3	1 288	18.4	-4.99
Croatia	485	11.5	452	10.8	372	9.0	364	8.9	297	7.3	-10.7°
Cyprus	63	7.4	57	6.7	52	6.1	51	5.9	66	7.5	0.39
Czechia	507	4.8	511	4.8	495	4.7	434	4.1	458	4.3	-2.89
Denmark ^b	320	5.7	292	5.1	253	4.4	270	4.7	260	4.5	-5.79
Estonia	206	15.7	188	14.3	171	13.0	145	11.0	147	11.1	-8.39
Finland	268	4.9	223	4.1	242	4.4	224	4.1	224	4.1	-4.60
France	4 457	6.7	5 446	8.2	5 015	7.5	4 779	7.1	4 8 6 9	7.3	2.09
Germany	5 626	6.9	5 739	7.0	5 353	6.5	5 329	6.4	4 628	5.6	-5.39
Greece	438	4.0	417	3.9	434	4.0	406	3.8	434	4.0	0.19
Hungary	858	8.7	737	7.5	650	6.6	602	6.2	528	5.4	-11.29
Iceland	7	2.1	6	1.8	13	3.8	8	2.3	13	3.6	14.49
Ireland ^b	266	5.7	290	6.1	283	5.9	290	6.0	247	5.0	-3.09
Italy	3 476	5.7	3 778	6.2	3 828	6.3	3 777	6.2	3 185	5.3	-2.09
Latvia	697	35.1	641	32.6	543	27.8	-	-	J 10J	-	-2.0
Liechtenstein	1	2.7	2	5.3	1	2.6	1	2.6	_	_	
Lithuania	1 395	47.8	1 347	46.6	1268	44.5	1 063	37.8	1006	36.0	-6.89
Luxembourg	30	5.3	29	5.0	32	5.4	42	7.0	48	7.8	10.19
Malta	32	7.3	50	11.1	42	9.1	55	11.6	98	19.9	28.5%
Matta Netherlands	846	7.3 5.0	875	5.2	772	4.5	781	4.5	746	4.3	-3.69
Norway ^b	282	5.5	273	5.2	237	4.5	188	3.6	153	2.9	-14.89
Poland	6 237	16.4	6 143	16.2	5 535	14.6	5 196	13.7	4 983	13.1	-5.4%
Portugal	2 154	20.8	1891	18.3	1870	18.1	1856	18.0	1720	16.7	-5.2%
Romania	14 215	71.5	12 774	64.6	12 303	62.6	11 581	59.3	11 083	57.1	-5.59
Slovakia	308	5.7	281	5.2	228	4.2	273	5.0	214	3.9	-8.89
Slovenia	129	6.3	118	5.7	112	5.4	98	4.7	98	4.7	-6.89
Spain	4 818	10.4	3 973	8.6	4 522	9.7	4 614	9.9	4 071	8.7	-4.4%
Sweden	776	8.0	691	7.0	487	4.9	475	4.7	478	4.7	-12.5%
United Kingdom ^b	5 844	9.0	5 726	8.8	5 219	7.9	4 723	7.1	4 8 0 3	7.2	-5.4%
Subtotal EU/EEA	57 843	11.3	56 076	10.9	53 212	10.3	50 295	9.7	47 504	9.2	-5.0%
Non-EU/EEA											
Albania	415	14.4	415	14.4	503	17.4	440	15.3	412	14.3	-0.19
Andorra	4	5.1	4	5.2	1	1.3	2	2.6	5	6.5	6.0%
Armenia	1 171	40.0	1 027	35.0	841	28.6	734	24.9	621	21.0	-14.9%
Azerbaijan	5 456	56.7	5 159	53.0	5 231	53.1	5 038	50.6	4 823	48.0	-4.19
Belarus	3 765	39.9	3 211	34.0	2 781	29.4	2 359	25.0	2 207	23.3	-12.5%
Bosnia and Herzegovina	1092	31.8	907	26.8	766	22.9	666	20.0	580	17.6	-13.8%
Georgia	3 152	78.3	2 983	74.3	2 597	64.8	2 316	57.9	2 169	54.3	-8.89
Israel	280	3.5	250	3.1	234	2.8	292	3.5	217	2.5	-7.7%
Kazakhstan	14 006	79.7	12 322	69.1	12 449	68.9	12 832	70.0	12 501	67.4	-4.19
Kyrqyzstan	7 027	117.9	7 026	115.7	6 687	108.0	6 338	100.5	6 138	95.7	-5.19
Monaco	0	0.0	-	-	-	-	-	-	-	-	
Montenegro	80	12.8	87	13.9	75	12.0	84	13.4	80	12.7	0.09
North Macedonia	282	13.6	263	12.6	216	10.4	217	10.4	199	9.6	-8.49
Republic of Moldova	3 608	88.6	3 571	87.8	3 358	82.7	3 022	74.6	2 809	69.5	-5.99
Russian Federation	99 590	68.7	92 407	63.6	84 510	58.1	78 258	53.7	73 328	50.3	-7.59
San Marino	-	-	0	0.0	0	0.0	0	0.0	0	0.0	7.57
Serbia	1649	18.6	1 472	16.6	1 450	16.4	1330	15.1	1 106	12.6	-9.29
Serbia excluding Kosovo ¹	879		755	10.7		10.4	641	9.1	501	7.2	-12.89
Jeinia excludilla KO2010		12.4			738						-6.1°
Vocaval	770	43.5	717 573	40.4	712	39.9	689	38.5	605	33.8	
Kosovo¹ Switzorland	E 24		2/3	6.8	529	6.3	473	5.5	402 5 755	4.7	-7.5° -3.0°
Switzerland	531	6.4		(0.0	E 00E						-3 ()9
Switzerland Tajikistan	5 894	69.7	5 965	68.9	5 895	66.4	5 726	62.9		61.7	
Switzerland Tajikistan Turkey	5 894 12 550	69.7 16.0	5 965 12 186	15.3	11 821	14.6	11 576	14.1	11 247	13.5	-4.29
Switzerland Tajikistan Turkey Turkmenistan	5 894 12 550 2 191	69.7 16.0 39.4	5 965 12 186 2 068	15.3 36.5	11 821 1 968	14.6 34.2	11 576 2 157	14.1 36.9	11 247 2 117	13.5 35.6	-4.29 -2.59
Switzerland Tajikistan Turkey Turkmenistan Ukraine	5 894 12 550 2 191 30 151	69.7 16.0 39.4 67.1	5 965 12 186 2 068 29 052	15.3 36.5 65.0	11 821 1 968 27 229	14.6 34.2 61.2	11 576 2 157 26 512	14.1 36.9 59.9	11 247 2 117 25 379	13.5 35.6 57.7	-4.29 -2.59 -3.79
Switzerland Tajikistan Turkey Turkmenistan Ukraine Uzbekistan	5 894 12 550 2 191 30 151 16 315	69.7 16.0 39.4 67.1 52.7	5 965 12 186 2 068 29 052 16 050	15.3 36.5 65.0 51.0	11 821 1 968 27 229 16 842	14.6 34.2 61.2 52.7	11 576 2 157 26 512 16 413	14.1 36.9 59.9 50.5	11 247 2 117 25 379 16 272	13.5 35.6 57.7 49.3	-4.29 -2.59 -3.79 -1.79
Switzerland Tajikistan Turkey Turkmenistan Ukraine	5 894 12 550 2 191 30 151	69.7 16.0 39.4 67.1	5 965 12 186 2 068 29 052	15.3 36.5 65.0	11 821 1 968 27 229	14.6 34.2 61.2	11 576 2 157 26 512	14.1 36.9 59.9	11 247 2 117 25 379	13.5 35.6 57.7	-4.29 -2.59 -3.79

Note: 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.
HPC: high-priority countries.

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

* Previous TB history is defined by previous diagnosis.

* All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

Table 5. TB cases by history of previous TB treatment, European Region, 2019

									Previously	y treated					
Country/area	Ne	W ^a	Unkn previo histo	us TB	Previo treated		Previ treati comp	nent	Previ treatmen		Lost to fo from pro treatn	evious '	Oth retrea (inclu unkn previ treati deta	tment Iding Iown Ious ment	All TB cases
	N	(%) ^c	N	(%)°	N	(%)°	N	(%)⁴	N	(%)⁴	N	(%)⁴	N	(%)⁴	N
EU/EEA									,						
Austria	345	(72.8)	92	(19.4)	37	(7.8)	27	(73.0)	0	(0.0)	0	(0.0)	10	(27.0)	474
Belgiume	755	(78.0)	140	(14.5)	73	(7.5)	0	(0.0)	0	(0.0)	0	(0.0)	73	(100.0)	968
Bulgaria	1 193	(88.8)	0	(0.0)	151	(11.2)	95	(62.9)	12	(7.9)	12	(7.9)	32	(21.2)	1344
Croatia	2	(0.7)	287	(94.7)	14	(4.6)	8	(57.1)	1	(7.1)	0	(0.0)	5	(35.7)	303
Cyprus	64	(92.8)	2	(2.9)	3	(4.3)	0	(0.0)	0	(0.0)	0	(0.0)	3	(100.0)	69
Czechia	444	(95.7)	0	(0.0)	20	(4.3)	14	(70.0)	1	(5.0)	1	(5.0)	4	(20.0)	464
Denmarke	259	(92.2)	1	(0.4)	21	(7.5)	0	(0.0)	0	(0.0)	0	(0.0)	21	(100.0)	281
Estonia	126	(84.0)	0	(0.0)	24	(16.0)	21	(87.5)	2	(8.3)	1	(4.2)	0	(0.0)	150
Finland	213	(94.7)	4	(1.8)	8	(3.6)	7	(87.5)	0	(0.0)	0	(0.0)	1	(12.5)	225
France	2 663	(52.1)	2 206	(43.1)	247	(4.8)	0	(0.0)	0	(0.0)	0	(0.0)	247	(100.0)	5 116
Germany	3 157	(65.9)	1363	(28.4)	271	(5.7)	108	(39.9)	6	(2.2)	61	(22.5)	96	(35.4)	4 791
Greece	406	(88.5)	19	(4.1)	34	(7.4)	9	(26.5)	1	(2.9)	0	(0.0)	24	(70.6)	459
Hungary	496	(89.9)	0	(0.0)	56	(10.1)	32	(57.1)	0	(0.0)	18	(32.1)	6	(10.7)	552
Iceland	13	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	13
Ireland ^e	154	(57.9)	93	(35.0)	19	(7.1)	0	(0.0)	0	(0.0)	0	(0.0)	19	(100.0)	266
Italy	2 661	(79.5)	524	(15.7)	161	(4.8)	0	(0.0)	0	(0.0)	0	(0.0)	161	(100.0)	3 346
Latvia	-	-	-	-	-	_	-	_	-	-	-	-	-	_	-
Liechtenstein	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	875	(82.7)	0	(0.0)	183	(17.3)	131	(71.6)	24	(13.1)	28	(15.3)	0	(0.0)	1 058
Luxembourg	29	(58.0)	19	(38.0)	2	(4.0)	0	(0.0)	0	(0.0)	0	(0.0)	2	(100.0)	50
Malta	98	(100.0)	0	(0.0)	0	(0.0)	0	-	0	-	0	-	0	-	98
Netherlands	728	(95.9)	1	(0.1)	30	(4.0)	17	(56.7)	0	(0.0)	10	(33.3)	3	(10.0)	759
Norwaye	153	(92.7)	0	(0.0)	12	(7.3)	0	(0.0)	0	(0.0)	0	(0.0)	12	(100.0)	165
Poland	4 717	(88.6)	0	(0.0)	604	(11.4)	266	(44.0)	0	(0.0)	0	(0.0)	338	(56.0)	5 321
Portugal	1644	(92.8)	0	(0.0)	127	(7.2)	76	(59.8)	1	(0.8)	25	(19.7)	25	(19.7)	1771
Romania	9 342	(80.3)	0	(0.0)	2 291	(19.7)	1 741	(76.0)	238	(10.4)	312	(13.6)	0	(0.0)	11 633
Slovakia	170	(79.4)	10	(4.7)	34	(15.9)	34	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	214
Slovenia	96	(95.0)	0	(0.0)	5	(5.0)	2	(40.0)	1	(20.0)	2	(40.0)	0	(0.0)	101
Spain	2 517	(60.7)	1554	(37.4)	79	(1.9)	0	(0.0)	0	(0.0)	0	(0.0)	79	(100.0)	4 150
Sweden	418	(87.3)	53	(11.1)	8	(1.7)	7	(87.5)	1	(12.5)	0	(0.0)	0	(0.0)	479
United Kingdom ^e	4 529	(88.3)	274	(5.3)	329	(6.4)	0	(0.0)	0	(0.0)	0	(0.0)	329	(100.0)	5 132
Subtotal EU/EEA	38 267	(76.9)	6 642	(13.4)	4 843	(9.7)	2 595	(53.6)	288	(5.9)	470	(9.7)	1 490	(30.8)	49 752
Non-EU/EEA	202	(02.0)			20	(7.0)	20	(400.0)					0	(0, 0)	(42
Albania	383	(93.0)	-	-	29	(7.0)	29	(100.0)	-	-	-	-	0	(0.0)	
Andorra	5	(100.0)	-	-	0	(0.0)	0	(0.0)	-	-	-	-	0	(0.0)	5
Armenia	542	(80.9)	-	-	128	(19.1)	79	(61.7)	-	-	-	-	49	(38.3)	670
Azerbaijan	3 613	(55.3)	-	-	2 920	(44.7)	1 210	(41.4)	-	-	-	-	1 710	(58.6)	6 533
Belarus	1758	(67.2)	-	-	857	(32.8)	449	(52.4)	-	-	-	-	408	(47.6)	2 615
Bosnia and Herzegovina	535	(92.2)	-	-	45	(7.8)	45	(100.0)	-	-	-	-	0	(0.0)	580
Georgia	1 897	(77.4)	-	-	554	(22.6)	272	(49.1)	-	-	-	-	282	(50.9)	2 451
Israel	211	(97.2)	-	-	6	(2.8)	6	(100.0)	-	-	-	-	0	(0.0)	217
Kazakhstan	8 687	(66.9)	-	-	4 303	(33.1)	3 814	(88.6)	-	-	-	-	489	(11.4)	12 990
Kyrgyzstan	5 096	(72.4)	-	-	1 943	(27.6)	1 042	(53.6)	-	-	-	-	901	(46.4)	
Monaco	-	-	-	-	-	-	-	_	-	-	-	-	-	_	_
Montenegro	71	(86.6)	-	-	11	(13.4)	9	(81.8)	-	_	-	-	2	(18.2)	82
North Macedonia	180	(90.5)	-	_	19	(9.5)	19	(100.0)	-	_	-	-	0	(0.0)	
Republic of Moldova	2 239	(68.8)	_	_	1 016	(31.2)	570	(56.1)	_	_	-	-	446	(43.9)	
Russian Federation		(58.2)	-	_	43 448				_	_	_	_			
	60 531	(30.2)	-			(41.8)	12 797	(29.5)	_	_	_	-	30 651	(70.5)	
San Marino	0	(0 (0)	_	-	0	(40.7)	0	(5:0)	_	_	_		0	(15.0)	0
Serbia	1 017	(86.3)	-	-	162	(13.7)	89	(54.9)	-	-	-	-	73	(45.1)	1 179
Serbia excluding Kosovo¹	470	(82.9)	-	-	97	(17.1)	31	(32.0)	-	-	-	-	66	(68.0)	567
Kosovo¹	547	(89.4)	-	-	65	(10.6)	58	(892)	-	-	-	-	7	(10.8)	612
Switzerland	402	(92.4)	-	-	33	(7.6)	0	(0.0)	-	-	-	-	33	(100.0)	435
Tajikistan	5 159	(86.3)	-	-	817	(13.7)	596	(72.9)	-	-	-	-	221	(27.1)	
Turkey	10 669	(93.6)	-	-	732	(6.4)	578	(79.0)	-	-	-	-	154	(21.0)	
	1 900	(66.4)	-	_	963	(33.6)	217	(22.5)	_	_	_	_	746	(77.5)	
,		(00.4)													
Turkmenistan		(72 2)	_		7.007	(27.71	1, 7/,7	(60.01		-	_		2 14/1		
Turkmenistan Ukraine	20 632	(72.3)	-	-	7 9 0 7	(27.7)	4 747	(60.0)	-	-		-	3 160	(40.0)	
Turkmenistan Ukraine Uzbekistan	20 632 14 517	(77.3)	-	-	4 257	(22.7)	1 755	(41.2)	-	-	-	-	2 502	(58.8)	18 774
Turkmenistan Ukraine	20 632														18 774 210 194

Note: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. HPC: high-priority countries.

For non-EU/EEA countries and areas, cases with unknown previous TB history are included among new TB cases.

In previous reports defined as "defaulted".

Proportion of all TB cases.

Proportion of all previously treated TB cases.

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

All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

Table 6. TB cases by site of disease, EU/EEA, 2019

			Pulmona	iry							
Country	Pulmonary	only	Pulmonary extrapulmo		Total		Extrapulm	onary	No site rep	orted	Total
	N	(%)	N	(%)	N	(%)	N	(%)	N	(%)	N
EU/EEA											
Austria	301	(63.5)	41	(8.6)	342	(72.2)	132	(27.8)	0	(0.0)	474
Belgium	562	(58.1)	130	(13.4)	692	(71.5)	276	(28.5)	0	(0.0)	968
Bulgaria	1 001	(74.5)	65	(4.8)	1066	(79.3)	278	(20.7)	0	(0.0)	1344
Croatia	222	(73.3)	17	(5.6)	239	(78.9)	19	(6.3)	45	(14.9)	303
Cyprus	56	(81.2)	6	(8.7)	62	(89.9)	7	(10.1)	0	(0.0)	69
Czechia	398	(85.8)	28	(6.0)	426	(91.8)	38	(8.2)	0	(0.0)	464
Denmark	209	(74.4)	15	(5.3)	224	(79.7)	54	(19.2)	3	(1.1)	281
Estonia	110	(73.3)	29	(19.3)	139	(92.7)	11	(7.3)	0	(0.0)	150
Finland	158	(70.2)	0	(0.0)	158	(70.2)	67	(29.8)	0	(0.0)	225
France	3 476	(67.9)	0	(0.0)	3 476	(67.9)	1586	(31.0)	54	(1.1)	5 116
Germany	2 871	(59.9)	564	(11.8)	3 435	(71.7)	1 3 2 1	(27.6)	35	(0.7)	4 79
Greece	313	(68.2)	83	(18.1)	396	(86.3)	58	(12.6)	5	(1.1)	459
Hungary	517	(93.7)	18	(3.3)	535	(96.9)	17	(3.1)	0	(0.0)	552
Iceland	5	(38.5)	2	(15.4)	7	(53.8)	6	(46.2)	0	(0.0)	13
Ireland	144	(54.1)	27	(10.2)	171	(64.3)	69	(25.9)	26	(9.8)	266
Italy	2 336	(69.8)	201	(6.0)	2 537	(75.8)	728	(21.8)	81	(2.4)	3 346
Latvia	-	-	-	-	-	-	-	-	-	-	-
Liechtenstein	-	-	-	-	-	-	-	-	-	-	-
Lithuania	979	(92.5)	3	(0.3)	982	(92.8)	76	(7.2)	0	(0.0)	1 058
Luxembourg	35	(70.0)	5	(10.0)	40	(80.0)	10	(20.0)	0	(0.0)	50
Malta	64	(65.3)	12	(12.2)	76	(77.6)	22	(22.4)	0	(0.0)	98
Netherlands	354	(46.6)	78	(10.3)	432	(56.9)	318	(41.9)	9	(1.2)	759
Norway	90	(54.5)	19	(11.5)	109	(66.1)	56	(33.9)	0	(0.0)	165
Poland	5 057	(95.0)	18	(0.3)	5 075	(95.4)	246	(4.6)	0	(0.0)	5 321
Portugal	1133	(64.0)	178	(10.1)	1 311	(74.0)	457	(25.8)	3	(0.2)	177
Romania	9 313	(80.1)	754	(6.5)	10 067	(86.5)	1 566	(13.5)	0	(0.0)	11 633
Slovakia	149	(69.6)	30	(14.0)	179	(83.6)	35	(16.4)	0	(0.0)	214
Slovenia	75	(74.3)	14	(13.9)	89	(88.1)	12	(11.9)	0	(0.0)	101
Spain	2 670	(64.3)	339	(8.2)	3 009	(72.5)	1141	(27.5)	0	(0.0)	4 150
Sweden	257	(53.7)	44	(9.2)	301	(62.8)	178	(37.2)	0	(0.0)	479
United Kingdom	2 120	(41.3)	794	(15.5)	2 914	(56.8)	2 204	(42.9)	14	(0.3)	5 132
Total EU/EEA	34 975	(70.3)	3 514	(7.1)	38 489	(77.4)	10 988	(22.1)	275	(0.6)	49 752

 $\textit{Note}{:} \ \mathsf{WHO} \ \mathsf{European} \ \mathsf{Region} \ \mathsf{TB} \ \mathsf{high-priority} \ \mathsf{countries} \ \mathsf{are} \ \mathsf{presented} \ \mathsf{in} \ \mathsf{italics}.$

Table 7. TB cases by history of previous TB treatment, site of disease and diagnostic method, according to the WHO definitions, European Region, 2019

				Ne	w ^b and rela _l Pulmo		es				Previously	, treated	
Country/area	N	(%)°	N	(%)°	Labora confir	tory-	Clinic		Extrapul	nonary	cas		All TB cases
				(,	N	(%)8	N	(%)8	N	(%)°	N	(%) ^c	N
EU/EEA													
Austria	464	(97.9)	333	(71.8)	302	(90.7)	31	(9.3)	131	(28.2)	10	(2.1)	474
Belgium ^h	895	(92.5)	633	(70.7)	564	(89.1)	69	(10.9)	262	(29.3)	73	(7.5)	968
Bulgaria	1 288	(95.8)	1 022	(79.3)	632	(61.8)	390	(38.2)	266	(20.7)	56	(4.2)	1344
Croatia	297	(98.0)	278	(93.6)	243	(87.4)	35	(12.6)	19	(6.4)	6	(2.0)	303
Cyprus	66	(95.7)	59	(89.4)	50	(84.7)	9	(15.3)	7	(10.6)	3	(4.3)	69
Czechia	458	(98.7)	420	(91.7)	365	(86.9)	55	(13.1)	38	(8.3)	6	(1.3)	464
Denmark ^h	260	(92.5)	208	(80.0)	176	(84.6)	32	(15.4)	52	(20.0)	21	(7.5)	281
Estonia	147	(98.0)	136	(92.5)	124	(91.2)	12	(8.8)	11	(7.5)	3	(2.0)	150
Finland	224	(99.6)	157	(70.1)	140	(89.2)	17	(10.8)	67	(29.9)	1	(0.4)	225
France	4 869	(95.2)	3 328	(68.4)	2 237	(67.2)	1 0 9 1	(32.8)	1 5 4 1	(31.6)	247	(4.8)	5 116
Germany	4 628	(96.6)	3 335	(72.1)	2 952	(88.5)	383	(11.5)	1 293	(27.9)	163	(3.4)	4 791
Greece	434	(94.6)	378	(87.1)	308	(81.5)	70	(18.5)	56	(12.9)	25	(5.4)	459
Hungary	528	(95.7)	511	(96.8)	291	(56.9)	220	(43.1)	17	(3.2)	24	(4.3)	552
Iceland	13	(100.0)	7	(53.8)	4	(57.1)	3	(42.9)	6	(46.2)	0	(0.0)	13
Ireland ^h	247	(92.9)	186	(75.3)	154	(82.8)	32	(17.2)	61	(24.7)	19	(7.1)	266
Italy	3 185	(95.2)	2 475	(77.7)	2 027	(81.9)	448	(18.1)	710	(22.3)	161	(4.8)	3 346
Latvia	-	-	-	-	-	-	-	-	-	-	-	-	-
Liechtenstein	-	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	1 0 0 6	(95.1)	931	(92.5)	854	(91.7)	77	(8.3)	75	(7.5)	52	(4.9)	1 058
Luxembourg	48	(96.0)	39	(81.3)	33	(84.6)	6	(15.4)	9	(18.8)	2	(4.0)	50
Malta	98	(100.0)	76	(77.6)	45	(59.2)	31	(40.8)	22	(22.4)	0	(0.0)	98
Netherlands	746	(98.3)	432	(57.9)	364	(84.3)	68	(15.7)	314	(42.1)	13	(1.7)	759
Norway ^h	153	(92.7)	100	(65.4)	92	(92.0)	8	(8.0)	53	(34.6)	12	(7.3)	165
Poland	4 983	(93.6)	4 742	(95.2)	3 760	(79.3)	982	(20.7)	241	(4.8)	338	(6.4)	5 321
Portugal	1720	(97.1)	1 272	(74.0)	1073	(84.4)	199	(15.6)	448	(26.0)	51	(2.9)	1771
Romania	11 083	(95.3)	9 528	(86.0)	8 066	(84.7)	1 462	(15.3)	1 555	(14.0)	550	(4.7)	11 633
Slovakia	214	(100.0)	179	(83.6)	125	(69.8)	54	(30.2)	35	(16.4)	0	(0.0)	214
Slovenia	98	(97.0)	87	(88.8)	81	(93.1)	6	(6.9)	11	(11.2)	3	(3.0)	101
Spain	4 071	(98.1)	2 943	(72.3)	2 449	(83.2)	494	(16.8)	1128	(27.7)	79	(1.9)	4 150
Sweden	478	(99.8)	300	(62.8)	280	(93.3)	20	(6.7)	178	(37.2)	1	(0.2)	479
United Kingdom ^h	4 803	(93.6)	2 724	(56.7)	2 138	(78.5)	586	(21.5)	2 079	(43.3)	329	(6.4)	5 132
Subtotal EU/EEA	47 504	(95.5)	36 819	(77.5)	29 929	(81.3)	6 890	(18.7)	10 685	(22.5)	2 248	(4.5)	49 752
Non-EU/EEA													
Albania	412	(100.0)	320	(77.7)	225	(70.3)	95	(29.7)	92	(22.3)	0	(0.0)	412
Andorra	5	(100.0)	4	(80.0)	4	(100.0)	0	(0.0)	1	(20.0)	0	(0.0)	5
Armenia	621	(92.7)	454	(73.1)	270	(59.5)	184	(40.5)	167	(26.9)	49	(7.3)	670
Azerbaijan	4 823	(73.8)	3 891	(80.7)	2 911	(74.8)	980	(25.2)	932	(19.3)	1 710	(26.2)	6 533
Belarus	2 207	(84.4)	2 029	(91.9)	1 9 3 1	(95.2)	98	(4.8)	178	(8.1)	408	(15.6)	2 615
Bosnia and Herzegovina	580	(100.0)	502	(86.6)	355	(70.7)	147	(29.3)	78	(13.4)	0	(0.0)	580
Georgia	2 169	(88.5)	1749	(80.6)	1 588	(90.8)	161	(9.2)	420	(19.4)	282	(11.5)	2 451
Israel	217	(100.0)	159	(73.3)	111	(69.8)	48	(30.2)	58	(26.7)	0	(0.0)	217
Kazakhstan	12 501	(96.2)	11 234	(89.9)	8 933	(79.5)	2 301	(20.5)	1 2 6 7	(10.1)	489	(3.8)	12 990
Kyrgyzstan	6 138	(87.2)	4 793	(78.1)	3 042	(63.5)	1 751	(36.5)	1 345	(21.9)	901	(12.8)	7 039
Monaco	-	-	-	-	-	-	-	-	-	-	-	-	-
Montenegro	80	(97.6)	74	(92.5)	70	(94.6)	4	(5.4)	6	(7.5)	2	(2.4)	82
North Macedonia	199	(100.0)	162	(81.4)	140	(86.4)	22	(13.6)	37	(18.6)	0	(0.0)	199
Republic of Moldova	2 809	(86.3)	2 521	(89.7)	1791	(71.0)	730	(29.0)	288	(10.3)	446	(13.7)	3 255
Russian Federation	73 328	(70.5)	67 759	(92.4)	36 329	(53.6)	31 430	(46.4)	5 569	(7.6)	30 651	(29.5)	103 979
San Marino	0	-	0	-	0	-	0	-	0	_	0	-	0
Serbia	1 106	(93.8)	862	(77.9)	569	(66.0)	293	(34.0)	244	(22.1)	73	(6.2)	1 179
Serbia excluding Kosovo ¹	501	(88.4)	426	(85.0)	330	(77.5)	96	(22.5)	75	(15.0)	66	(11.6)	567
Kosovo¹	605	(98.9)	436	(72.1)	239	(54.8)	197	(45.2)	169	(27.9)	7	(1.1)	612
Switzerland	402	(92.4)	276	(68.7)	261	(94.6)	15	(5.4)	126	(31.3)	33	(7.6)	435
Tajikistan	5 755	(96.3)	4 027	(70.0)	2 676	(66.5)	1 351	(33.5)	1 728	(30.0)	221	(3.7)	5 976
Turkey	11 247	(98.6)	7 308	(65.0)	5 829	(79.8)	1 479	(20.2)	3 939	(35.0)	154	(1.4)	11 401
Turkmenistan	2 117	(73.9)	1 650	(77.9)	792	(48.0)	858	(52.0)	467	(22.1)	746	(26.1)	2 863
Ukraine	25 379	(88.9)	22 950	(90.4)	16 529	(72.0)	6 421	(28.0)	2 429	(9.6)	3 160	(11.1)	28 539
Uzbekistan	16 272	(86.7)	10 570	(65.0)	6 328	(59.9)	4 242	(40.1)	5 702	(35.0)	2 502	(13.3)	18 774
Subtotal non-EU/EEA	168 367	(80.1)	143 294	(85.1)	90 684	(63.3)	52 610	(36.7)	25 073	(14.9)	41 827	(19.9)	210 194
Total European Region	215 871	(83.0)	180 113	(83.4)	120 613	(67.0)	59 500	(33.0)	35 758	(16.6)	44 075	(17.0)	259 946
Subtotal 18 HPCs	178 890	(80.8)	152 552	(85.3)	98 625	(64.7)	53 927	(35.3)	26 338	(14.7)	42 380	(19.2)	221 270

Note: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. HPC: high-priority countries.

* As published in: WHO (2013). Definitions and reporting framework for tuberculosis – 2013 revision. Geneva: World Health Organization (WHO/HTM/TB/2013.2; https://www.who.int/tb/publications/definitions/en/).

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

* Proportion of all TB cases.

* Proportion of all TB cases with no disease site reported are included among pulmonary TB cases.

* Proportion of all new and relapse TB 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 TB cases.

h Previous TB history is defined by previous diagnosis.

* All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

Table 8. TB cases according to EU case definition, EU/EEA, 2019

		All la	boratory-co	nfirmed ca	sesª								
Country	Meeting or smear-posit nucleic aci positive cr	tive and d test-	Meeting of culture-p	ositive	Meeting crite		Confirmed	l cases ^b	Probable	cases	Possible	cases	All TB cases
	N	(%)°	N	(%)°	N	(%)°	N	(%) ^d	N	(%) ^d	N	(%) ^d	N
Austria	4	(1.2)	249	(72.8)	89	(26.0)	342	(72.2)	81	(17.1)	51	(10.8)	474
Belgium	15	(2.0)	402	(54.5)	320	(43.4)	737	(76.1)	127	(13.1)	104	(10.7)	968
Bulgaria	0	(0.0)	624	(99.7)	2	(0.3)	626	(46.6)	122	(9.1)	596	(44.3)	1344
Croatia	0	(0.0)	253	(100.0)	0	(0.0)	253	(83.5)	9	(3.0)	41	(13.5)	303
Cyprus	0	(0.0)	39	(73.6)	14	(26.4)	53	(76.8)	5	(7.2)	11	(15.9)	69
Czechia	2	(0.5)	218	(58.1)	155	(41.3)	375	(80.8)	50	(10.8)	39	(8.4)	464
Denmark	1	(0.4)	133	(58.3)	94	(41.2)	228	(81.1)	6	(2.1)	47	(16.7)	281
Estonia	0	(0.0)	65	(50.8)	63	(49.2)	128	(85.3)	12	(8.0)	10	(6.7)	150
Finland	0	(0.0)	145	(81.9)	32	(18.1)	177	(78.7)	24	(10.7)	24	(10.7)	225
France	0	(0.0)	1807	(100.0)	0	(0.0)	1807	(35.3)	1 0 4 5	(20.4)	2 264	(44.3)	5 116
Germany	146	(3.9)	1953	(52.8)	1602	(43.3)	3 701	(77.2)	471	(9.8)	619	(12.9)	4 791
Greece	12	(4.2)	165	(58.3)	106	(37.5)	283	(61.7)	82	(17.9)	94	(20.5)	459
Hungary	0	(0.0)	287	(100.0)	0	(0.0)	287	(52.0)	23	(4.2)	242	(43.8)	552
Iceland	0	(0.0)	4	(50.0)	4	(50.0)	8	(61.5)	1	(7.7)	4	(30.8)	13
Ireland	0	(0.0)	158	(80.2)	39	(19.8)	197	(74.1)	25	(9.4)	44	(16.5)	266
Italy	0	(0.0)	2 361	(100.0)	0	(0.0)	2 361	(70.6)	317	(9.5)	668	(20.0)	3 346
Latvia	-	-	-	-	-	-	-	-	-	-	-	-	-
Liechtenstein	-	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	0	(0.0)	935	(100.0)	0	(0.0)	935	(88.4)	6	(0.6)	117	(11.1)	1 058
Luxembourg	0	(0.0)	40	(100.0)	0	(0.0)	40	(80.0)	0	(0.0)	10	(20.0)	50
Malta	0	(0.0)	48	(100.0)	0	(0.0)	48	(49.0)	8	(8.2)	42	(42.9)	98
Netherlands	4	(0.8)	293	(57.8)	210	(41.4)	507	(66.8)	79	(10.4)	173	(22.8)	759
Norway	2	(1.5)	92	(67.2)	43	(31.4)	137	(83.0)	16	(9.7)	12	(7.3)	165
Poland	0	(0.0)	3 273	(80.7)	781	(19.3)	4 054	(76.2)	103	(1.9)	1164	(21.9)	5 321
Portugal	34	(3.4)	870	(87.2)	94	(9.4)	998	(56.4)	423	(23.9)	350	(19.8)	1771
Romania	50	(0.6)	6 510	(76.6)	1939	(22.8)	8 499	(73.1)	934	(8.0)	2 200	(18.9)	11 633
Slovakia	0	(0.0)	94	(83.2)	19	(16.8)	113	(52.8)	38	(17.8)	63	(29.4)	214
Slovenia	0	(0.0)	50	(53.8)	43	(46.2)	93	(92.1)	6	(5.9)	2	(2.0)	101
Spain	59	(2.1)	2 202	(78.7)	536	(19.2)	2 797	(67.4)	606	(14.6)	747	(18.0)	4 150
Sweden	1	(0.3)	297	(74.4)	101	(25.3)	399	(83.3)	38	(7.9)	42	(8.8)	479
United Kingdom	9	(0.3)	3 003	(94.3)	173	(5.4)	3 185	(62.1)	365	(7.1)	1582	(30.8)	5 132
Total EU/EEA	339	(1.0)	26 570	(79.6)	6 459	(19.4)	33 368	(67.1)	5 022	(10.1)	11 362	(22.8)	49 752

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

* Laboratory-confirmed TB 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 TB cases.

d Proportion of all B cases.

Table 9. New and relapse TB cases, by age group and male-to-female ratio, European Region, 2019

		0	-4			5	-14			15	-24			25-	44		
Country/area	N	(%)	Rate per	M/F ratio	N	(%)	Rate per 100 000	M/F ratio	N	(%)	Rate per	M/F ratio	N	(%)	Rate per	M/F ratio	
EU/EEA																	
Austria	8	(1.7)	1.8	1.7	14	(3.0)	1.7	0.8	64	(13.8)	6.6	2.4	142	(30.6)	6.0	1.3	
Belgium ^b	16	(1.8)	2.6	1.3	34	(3.8)	2.6	1.4	129	(14.4)	9.9	2.1	363	(40.6)	12.2	1.9	
Bulgaria	16	(1.2)	4.9	0.3	38	(3.0)	5.6	1.4	50	(3.9)	8.0	1.4	428	(33.2)	22.1	1.8	
Croatia	0	(0.0)	0.0	-	1	(0.3)	0.2	N/M	16	(5.4)	3.6	3.0	68	(22.9)	6.4	1.3	
Cyprus	2	(3.0)	4.3	N/M	0	(0.0)	0.0	-	12	(18.2)	10.7	1.0	35	(53.0)	12.9	1.3	
Czechia	3	(0.7)	0.5	2.0	1	(0.2)	0.1	N/M	25	(5.5)	2.6	1.5	143	(31.2)	4.6	3.6	
Denmark ^b	6	(2.3)	2.0	2.0	10	(3.8)	1.5	N/F	27	(10.4)	3.7	2.9	110	(42.3)	7.6	1.0	
Estonia	1	(0.7)	1.4	N/F	0	(0.0)	0.0	-	1	(0.7)	0.8	N/M	41	(27.9)	11.0	2.4	
Finland	4	(1.8)	1.5	1.0	5	(2.2)	0.8	1.5	19	(8.5)	3.1	0.6	72	(32.1)	5.1	1.6	
France	106	(2.2)	2.8	0.9	111	(2.3)	1.3	1.0	871	(17.9)	11.1	2.7	1944	(39.9)	12.0	1.8	
Germany	94	(2.0)	2.4	1.7	101	(2.2)	1.4	0.8	913	(19.7)	10.6	2.2	1 670	(36.1)	8.1	1.8	
Greece	7	(1.6)	1.5	0.8	9	(2.1)	0.8	0.8	92	(21.2)	8.4	6.7	137	(31.6)	5.0	3.3	
Hungary	5	(0.9)	1.1	1.5	5	(0.9)	0.5	0.7	29	(5.5)	2.8	1.6	134	(25.4)	4.8	1.7	
Iceland	0	(0.0)	0.0	-	0	(0.0)	0.0	-	1	(7.7)	2.1	N/F	8	(61.5)	7.7	1.0	
Ireland ^b	9	(3.6)	2.9	1.3	1	(0.4)	0.1	N/M	20	(8.1)	3.2	1.0	101	(40.9)	7.2	1.3	
Italy	80	(2.5)	3.4	0.5	96	(3.0)	1.7	0.4	470	(14.8)	8.0	0.7	1136	(35.7)	7.7	0.7	
Latvia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Liechtenstein	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lithuania	6	(0.6)	4.1	2.0	21	(2.1)	7.7	2.0	50	(5.0)	17.0	0.9	294	(29.2)	41.2	2.5	
Luxembourg	0	(0.0)	0.0	-	0	(0.0)	0.0	-	13	(27.1)	18.2	3.3	23	(47.9)	12.2	4.8	
Malta	0	(0.0)	0.0	-	2	(2.0)	4.5	N/F	51	(52.0)	93.8	7.5	38	(38.8)	23.8	5.3	
Netherlands	14	(1.9)	1.6	1.8	32	(4.3)	1.7	0.7	112	(15.0)	5.3	1.5	299	(40.1)	7.0	1.2	
Norway ^b	1	(0.7)	0.3	N/M	3	(2.0)	0.5	2.0	29	(19.0)	4.4	2.2	74	(48.4)	5.1	1.1	
Poland	26	(0.5)	1.4	1.0	55	(1.1)	1.4	0.8	148	(3.0)	3.8	1.6	1 253	(25.1)	10.8	2.6	
Portugal	40	(2.3)	9.3	0.7	23	(1.3)	2.4	1.6	147	(8.5)	13.5	1.2	508	(29.5)	19.5	1.5	
Romania	141	(1.3)	14.1	1.4	250	(2.3)	12.2	1.2	1 055	(9.5)	51.4	1.1	3 378	(30.5)	62.5	2.1	
Slovakia	16	(7.5)	5.5	3.0	19	(8.9)	3.4	3.8	8	(3.7)	1.4	1.0	51	(23.8)	3.0	1.6	
Slovenia	2	(2.0)	2.0	1.0	0	(0.0)	0.0	-	6	(6.1)	3.1	5.0	16	(16.3)	2.8	4.3	
Spain	127	(3.1)	6.1	0.9	166	(4.1)	3.4	1.1	440	(10.8)	9.5	2.1	1324	(32.5)	10.4	1.4	
Sweden	4	(0.8)	0.7	0.3	15	(3.1)	1.2	1.1	108	(22.6)	9.3	1.6	207	(43.3)	7.6	1.0	
United Kingdom ^b	64	(1.3)	1.6	1.4	118	(2.5)	1.5	0.6	612	(12.7)	7.8	1.6	2 019	(42.0)	11.6	1.6	
Subtotal EU/EEA	798	(1.7)	3.1	1.1	1 130	(2.4)	2.1	1.0	5 518	(11.6)	9.9	1.6	16 016	(33.7)	11.9	1.7	
Non-EU/EEA																	
Albania	4	(1.0)	2.4	N/F	7	(1.7)	2.1	0.8	59	(14.3)	13.3	2.5	131	(31.8)	16.8	2.9	
Andorra	0	(0.0)	0.0	-	0	(0.0)	0.0	-	0	(0.0)	0.0	-	2	(40.0)	10.1	1.0	
Armenia	16	(2.6)	7.7	1.0	22	(3.5)	5.4	1.0	65	(10.5)	18.3	3.3	219	(35.3)	23.7	2.8	
Azerbaijan	46	(1.3)	5.4	1.2	133	(3.7)	8.8	1.7	889	(24.6)	63.7	2.0	1 326	(36.7)	40.4	1.9	
Belarus	2	(0.1)	0.4	0.0	6	(0.3)	0.6	1.0	91	(4.1)	10.2	1.1	816	(37.0)	28.6	2.8	
Bosnia and Herzegovina	0	(0.0)	0.0	-	3	(0.5)	0.9	2.0	112	(19.3)	28.6	1.4	131	(22.6)	14.9	1.8	
Georgia	10	(0.5)	3.6	1.5	62	(2.9)	11.8	1.1	268	(12.4)	58.4	1.4	842	(38.8)	76.3	1.9	
Israel	5	(2.3)	0.6	1.5	2	(0.9)	0.1	1.0	20	(9.2)	1.6	1.9	88	(40.6)	4.0	2.0	
Kazakhstan	116	(0.9)	6.0	1.6	235	(1.9)	6.9	0.7	1 611	(12.9)	72.2	1.0	5 252	(42.0)	93.2	1.5	
Kyrgyzstan	67	(1.1)	8.7	1.4	238	(3.9)	18.1	1.3	1 268	(20.7)	124.1	1.3	2 070	(33.7)	108.4	1.3	
Monaco	-	-	-	-	-	-	-	-	-	_	-	-	-	-	-	-	
Montenegro	0	(0.0)	0.0	-	0	(0.0)	0.0	-	13	(16.5)	16.0	2.3	23	(29.1)	13.2	1.9	
North Macedonia	6	(3.0)	5.3	0.5	6	(3.0)	2.6	1.0	24	(12.1)	9.3	1.2	45	(22.6)	7.1	1.8	
Republic of Moldova	41	(1.5)	19.9	1.1	60	(2.1)	13.8	1.0	161	(5.7)	34.9	1.6	1 282	(45.6)	91.2	2.5	
Russian Federation	755	(1.0)	8.0	1.1	1 273	(1.7)	7.5	0.9	4 112	(5.6)	30.0	1.4	39 039	(53.2)	87.4	2.4	
San Marino	0	-	0.0	-	0	-	0.0	-	0	-	0.0	-	0	-	0.0	-	
Serbia	6	(0.5)	1.4	1.0	9	(0.8)	1.0	0.5	137	(12.4)	13.0	1.0	259	(23.4)	10.7	1.4	
Serbia excluding Kosovo¹	1	(0.2)	0.4	0.0	3	(0.6)	0.5	0.5	42	(8.4)	5.8	1.6	91	(18.2)	4.8	1.8	
Kosovo¹	5	(0.8)	3.4	1.5	6	(1.0)	2.0	0.5	95	(15.7)	29.3	0.9	168	(27.8)	32.6	1.2	
Switzerland	4	(1.0)	0.9	0.3	11	(2.7)	1.3	1.8	67	(16.7)	7.3	1.5	146	(36.3)	6.3	0.9	
Tajikistan	117	(2.0)	8.7	1.5	287	(5.0)	13.6	1.1	1 454	(25.3)	88.3	1.6	2 169	(37.7)	83.1	1.4	
Turkey	179	(1.6)	2.7	1.2	317	(2.8)	2.3	0.9	1740	(15.5)	12.9	1.3	3 195	(28.4)	12.8	1.3	
Turkmenistan	0	(0.0)	0.0	-	0.0	(0.0)	0.0	-	356	(17.2)	37.3	1.3	886	(42.7)	47.7	1.5	
Ukraine	206	(0.8)	9.4	1.2	379	(1.5)	7.8	0.9	1 384	(5.5)	33.0	1.4	12 481	(49.2)	92.6	2.4	
Uzbekistan	358	(2.2)	10.4	1.3	1 832	(11.3)	30.2	1.2	1 873	(11.5)	34.6	1.2	5 177	(31.8)	48.6	1.3	
Subtotal non-EU/EEA	1938	(1.2)	6.3	1.2	4882	(2.9)	8.4	1.1	15 704	(9.4)	31.0	1.3	75 579	(45.2)	60.5	2.1	
Total European Region	2 736	(1.3)	4.8	1.2	6 012	(2.8)	5.3	1.0	21 222	(9.9)	19.9	1.4	91 595	(42.7)	35.2	2.0	
Subtotal 18 HPCs	2 077	(1.2)	6.9	1.2	5 153	(2.9)	9.1	1.1		(9.2)	33.3	1.3	78 895	(44.4)	63.7	2.1	

Note: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. HPC: high-priority countries.
F: female.
M: male
N/F: no female in the subgroup.
N/M: no male in the subgroup.
** Cases with unknown previous TB history are included among new TB cases.
** Previous TB history is defined by previous diagnosis.
** All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

<u> </u>	45	-64			>	64		ا	Unknowi	1	Total		
N	(%)	Rate per 100 000	M/F ratio	N	(%)	Rate per	M/F ratio	N	(%)	Rate per	N	M/F ratio	Country/area
													EU/EEA
132	(28.4)	5.1	2.1	104	(22.4)	6.2	2.0	0	(0.0)	-	464	1.7	Austria
221	(24.7)	7.2	2.0	132	(14.7)	6.1	2.6	_ 0	(0.0)	-	895		Belgium ^b
483	(37.5)	24.8	2.7	273	(21.2)	18.3	1.6	0	(0.0)	-	1 288	1.9	
108	(36.4)	9.4	3.2	104	(35.0)	12.4	0.9	0	(0.0)	-	297	1.6	
13	(19.7)	6.2	1.6	4	(6.1)	2.8	1.0	0	(0.0)	-	66	1.2	Cyprus
169	(36.9)	6.1	4.8	117	(25.5)	5.6	1.7	0	(0.0)	-	458		Czechia
85	(32.7)	5.6	1.9	22	(8.5)	1.9	4.5	0	(0.0)	-	260	1.7	
66	(44.9)	19.0	3.7	38	(25.9)	14.5	0.9	0	(0.0)	-	147	2.1	
35	(15.6)	2.5	4.0	89	(39.7)	7.4	1.8	0	(0.0)	-	224	1.7	
991	(20.4)	5.7	1.9	846	(17.4)	6.3	1.9	0	(0.0)	-	4 869		France
986	(21.3)	4.0	2.2	863	(18.6)	4.8	1.4	1	(0.0)	N/F	4 628	1.8	
87	(20.0)	2.9	3.0	102	(23.5)	4.3	2.0	0	(0.0)	-	434		Greece
232	(43.9)	8.8	2.6	123	(23.3)	6.5	1.5	0	(0.0)	_	528		
3	(23.1)	3.5	0.5	1	(7.7)	2.0	N/F	0	(0.0)	-	13		Iceland
56	(22.7)	4.7	1.8	60	(24.3)	8.7	1.9	0	(0.0)	_	247		
793	(24.9)	4.4	0.8	609	(19.1)	4.4	0.5	1	(0.0)	N/M	3 185		Italy
-	(24.7)		-	-	(12.1)		-	_	(0.0)	-	7 107	-	Latvia
-	_	_	-	_	_	_	-	_	_	_	_	_	
456	(45.3)	56.2	3.7	179	(17.8)	32.4	1.6	0	(0.0)	_	1 006	2.5	
430	(22.9)	6.6	4.5	1/9	(2.1)	1.1	N/M	0	(0.0)	-	48		Luxembourg
	(3.1)		N/F		(4.1)			0		_	98	6.0	
179		2.5		110		4.3 3.3	1.0	0	(0.0)	-			
	(24.0)	3.7	1.7		(14.7)		1.4		(0.0)	_	746	1.4	
27	(17.6)	2.0	2.0	19	(12.4)	2.1	1.1	0	(0.0)		153	1.4	
2 207	(44.3)	22.2	4.2	1294	(26.0)	19.3	1.5	0	(0.0)	-	4 983	2.6	
602	(35.0)	20.6	3.1	400	(23.3)	17.8	1.8	0	(0.0)	-	1720		-
4 397	(39.7)	82.6	4.5	1 862	(16.8)	51.8	1.5	0	(0.0)	-	11 083	2.4	
69	(32.2)	4.7	2.6	51	(23.8)	5.8	0.6	0	(0.0)	-	214	1.6	
33	(33.7)	5.5	4.5	41	(41.8)	9.9	0.6	0	(0.0)	-	98	1.7	
1162	(28.5)	8.6	2.3	846	(20.8)	9.3	1.6	6	(0.1)	1.0	4 071	1.7	
91	(19.0)	3.6	1.1	53	(11.1)	2.6	1.5	0	(0.0)	-	478	1.2	
1 285	(26.8)	7.5	1.6	705	(14.7)	5.7	1.5	0	(0.0)	-	4 803		United Kingdom ^b
14 982	(31.5)	10.5	2.7	9 052	(19.1)	8.8	1.5	8	(0.0)	1.0	47 504	1.8	Subtotal EU/EEA
100	(2.5.7)				(2 (2)				(2.2)				Non-EU/EEA
109	(26.5)	14.6	2.3	102	(24.8)	24.9	2.1	0	(0.0)	-	412		Albania
			N/E					0	(0.0)	-	5		Andorra
1	(20.0)	4.4	N/F	2	(40.0)	12.3	N/F						
238	(38.3)	32.8	6.4	61	(9.8)	18.0	2.4	0	(0.0)	-	621	3.4	Armenia
238 951	(38.3) (26.3)	32.8 40.2	6.4 2.5	61 268	(9.8) (7.4)	18.0 41.4	2.4 1.6	0	(0.0)	-	3 613	3.4 2.0	Azerbaijan
238 951 946	(38.3) (26.3) (42.9)	32.8 40.2 35.5	6.4 2.5 4.7	61 268 346	(9.8) (7.4) (15.7)	18.0 41.4 24.1	2.4 1.6 1.0	0 0 0	(0.0)	- - -	3 613 2 207	3.4 2.0 2.7	Azerbaijan Belarus
238 951	(38.3) (26.3)	32.8 40.2	6.4 2.5	61 268	(9.8) (7.4)	18.0 41.4	2.4 1.6	0	(0.0)	-	3 613	3.4 2.0	Azerbaijan Belarus
238 951 946	(38.3) (26.3) (42.9)	32.8 40.2 35.5	6.4 2.5 4.7	61 268 346	(9.8) (7.4) (15.7)	18.0 41.4 24.1	2.4 1.6 1.0	0 0 0	(0.0)	-	3 613 2 207	3.4 2.0 2.7	Azerbaijan Belarus Bosnia and Herzegovina
238 951 946 275	(38.3) (26.3) (42.9) (47.4)	32.8 40.2 35.5 28.2	6.4 2.5 4.7 1.5	61 268 346 59	(9.8) (7.4) (15.7) (10.2)	18.0 41.4 24.1 10.4	2.4 1.6 1.0 1.2	0 0 0	(0.0) (0.0) (0.0)	- - -	3 613 2 207 580	3.4 2.0 2.7 1.5 2.2	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel
238 951 946 275 707	(38.3) (26.3) (42.9) (47.4) (32.6)	32.8 40.2 35.5 28.2 68.6	6.4 2.5 4.7 1.5 4.6	61 268 346 59 280	(9.8) (7.4) (15.7) (10.2) (12.9)	18.0 41.4 24.1 10.4 46.5	2.4 1.6 1.0 1.2 1.3	0 0 0 0	(0.0) (0.0) (0.0) (0.0)	- - -	3 613 2 207 580 2 169	3.4 2.0 2.7 1.5 2.2	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel
238 951 946 275 707 51	(38.3) (26.3) (42.9) (47.4) (32.6) (23.5)	32.8 40.2 35.5 28.2 68.6 3.2	6.4 2.5 4.7 1.5 4.6 1.2	61 268 346 59 280 51	(9.8) (7.4) (15.7) (10.2) (12.9) (23.5)	18.0 41.4 24.1 10.4 46.5 4.9	2.4 1.6 1.0 1.2 1.3 1.4	0 0 0 0 0	(0.0) (0.0) (0.0) (0.0) (0.0)	- - - -	3 613 2 207 580 2 169 217	3.4 2.0 2.7 1.5 2.2 1.6 1.5	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel
238 951 946 275 707 51 3 866	(38.3) (26.3) (42.9) (47.4) (32.6) (23.5) (30.9)	32.8 40.2 35.5 28.2 68.6 3.2 99.0	6.4 2.5 4.7 1.5 4.6 1.2 2.5	61 268 346 59 280 51 1 421	(9.8) (7.4) (15.7) (10.2) (12.9) (23.5) (11.4)	18.0 41.4 24.1 10.4 46.5 4.9 100.1	2.4 1.6 1.0 1.2 1.3 1.4	0 0 0 0 0 0	(0.0) (0.0) (0.0) (0.0) (0.0) (0.0)	- - - -	3 613 2 207 580 2 169 217 12 501	3.4 2.0 2.7 1.5 2.2 1.6 1.5	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan
238 951 946 275 707 51 3 866 1 690	(38.3) (26.3) (42.9) (47.4) (32.6) (23.5) (30.9) (27.5)	32.8 40.2 35.5 28.2 68.6 3.2 99.0 153.0	6.4 2.5 4.7 1.5 4.6 1.2 2.5	61 268 346 59 280 51 1421 805	(9.8) (7.4) (15.7) (10.2) (12.9) (23.5) (11.4) (13.1)	18.0 41.4 24.1 10.4 46.5 4.9 100.1 272.7	2.4 1.6 1.0 1.2 1.3 1.4 0.9	0 0 0 0 0 0	(0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0)	- - - -	3 613 2 207 580 2 169 217 12 501	3.4 2.0 2.7 1.5 2.2 1.6 1.5 1.4	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan
238 951 946 275 707 51 3 866 1 690	(38.3) (26.3) (42.9) (47.4) (32.6) (23.5) (30.9) (27.5)	32.8 40.2 35.5 28.2 68.6 3.2 99.0 153.0	6.4 2.5 4.7 1.5 4.6 1.2 2.5 1.9	61 268 346 59 280 51 1 421 805	(9.8) (7.4) (15.7) (10.2) (12.9) (23.5) (11.4) (13.1)	18.0 41.4 24.1 10.4 46.5 4.9 100.1 272.7	2.4 1.6 1.0 1.2 1.3 1.4 0.9	0 0 0 0 0 0 0 0	(0.0) (0.0) (0.0) (0.0) (0.0) (0.0)	- - - -	3 613 2 207 580 2 169 217 12 501 6 138	3.4 2.0 2.7 1.5 2.2 1.6 1.5 1.4 -	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco
238 951 946 275 707 51 3 866 1 690	(38.3) (26.3) (42.9) (47.4) (32.6) (23.5) (30.9) (27.5) - (43.0)	32.8 40.2 35.5 28.2 68.6 3.2 99.0 153.0	6.4 2.5 4.7 1.5 4.6 1.2 2.5 1.9	61 268 346 59 280 51 1421 805 -	(9.8) (7.4) (15.7) (10.2) (12.9) (23.5) (11.4) (13.1)	18.0 41.4 24.1 10.4 46.5 4.9 100.1 272.7 - 9.3	2.4 1.6 1.0 1.2 1.3 1.4 0.9 0.9 - 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)	-	3 613 2 207 580 2 169 217 12 501 6 138 -	3.4 2.0 2.7 1.5 2.2 1.6 1.5 1.4 -	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia
238 951 946 275 707 51 3 866 1 690 - 34 83	(38.3) (26.3) (42.9) (47.4) (32.6) (23.5) (30.9) (27.5) - (43.0) (41.7)	32.8 40.2 35.5 28.2 68.6 3.2 99.0 153.0 - 21.0 14.9	6.4 2.5 4.7 1.5 4.6 1.2 2.5 1.9 - 2.8 2.3	61 268 346 59 280 51 1421 805 - 9	(9.8) (7.4) (15.7) (10.2) (12.9) (23.5) (11.4) (13.1) (11.4) (17.6)	18.0 41.4 24.1 10.4 46.5 4.9 100.1 272.7 - 9.3 11.9	2.4 1.6 1.0 1.2 1.3 1.4 0.9 0.9 - 1.3 1.9	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)	-	3 613 2 207 580 2 169 217 12 501 6 138 - 79	3.4 2.0 2.7 1.5 2.2 1.6 1.5 1.4 - 2.2	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova
238 951 946 275 707 51 3 866 1 690 - 34 83 1 013	(38.3) (26.3) (42.9) (47.4) (32.6) (23.5) (30.9) (27.5) - (43.0) (41.7) (36.1)	32.8 40.2 35.5 28.2 68.6 3.2 99.0 153.0 - 21.0 14.9 96.7	6.4 2.5 4.7 1.5 4.6 1.2 2.5 1.9 - 2.8 2.3 4.1	61 268 346 59 280 51 1421 805 - 9 35 252	(9.8) (7.4) (15.7) (10.2) (12.9) (23.5) (11.4) (13.1) - (11.4) (17.6) (9.0)	18.0 41.4 24.1 10.4 46.5 4.9 100.1 272.7 - 9.3 11.9 51.9	2.4 1.6 1.0 1.2 1.3 1.4 0.9 0.9 - 1.3 1.9	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)	-	3 613 2 207 580 2 169 217 12 501 6 138 - 79 199 2 809	3.4 2.0 2.7 1.5 2.2 1.6 1.5 1.4 - 2.2 1.8 2.7	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova
238 951 946 275 707 51 3 866 1 690 - 34 83 1 013 22 036 0	(38.3) (26.3) (42.9) (47.4) (32.6) (23.5) (30.9) (27.5) (43.0) (41.7) (36.1) (30.1)	32.8 40.2 35.5 28.2 68.6 3.2 99.0 153.0 - 21.0 14.9 96.7 56.5 0.0	6.4 2.5 4.7 1.5 4.6 1.2 2.5 1.9 - 2.8 2.3 4.1 3.2	61 268 346 59 280 51 1421 805 - 9 35 252 5540	(9.8) (7.4) (15.7) (10.2) (12.9) (23.5) (11.4) (13.1) - (11.4) (17.6) (9.0) (7.6)	18.0 41.4 24.1 10.4 46.5 4.9 100.1 272.7 9.3 11.9 51.9 25.2 0.0	2.4 1.6 1.0 1.2 1.3 1.4 0.9 0.9 - 1.3 1.9 1.9	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) (0.8)	- - - - - - - - - - - - - - - -	3 613 2 207 580 2 169 217 12 501 6 138 - 79 199 2 809 73 328 0	3.4 2.0 2.7 1.5 2.2 1.6 1.5 1.4 - 2.2 1.8 2.7	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino
238 951 946 275 707 51 3 866 1 690 - 34 83 1 013 22 036 0	(38.3) (26.3) (42.9) (47.4) (32.6) (23.5) (30.9) (27.5) - (43.0) (41.7) (36.1) (30.1)	32.8 40.2 35.5 28.2 68.6 3.2 99.0 153.0 - 21.0 14.9 96.7 56.5 0.0 15.4	6.4 2.5 4.7 1.5 4.6 1.2 2.5 1.9 - 2.8 2.3 4.1 3.2	61 268 346 59 280 51 1 421 805 - 9 35 252 5 540 0	(9.8) (7.4) (15.7) (10.2) (12.9) (23.5) (11.4) (17.6) (9.0) (7.6) (28.5)	18.0 41.4 24.1 10.4 46.5 4.9 100.1 272.7 - 9.3 11.9 51.9 25.2 0.0	2.4 1.6 1.0 1.2 1.3 1.4 0.9 0.9 - 1.3 1.9 1.9 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) (0.8) (2.4)	- - - - - - - - - - - - - - - - - - -	3 613 2 207 580 2 169 217 12 501 6 138 - 79 199 2 809 73 328 0 1 106	3.4 2.0 2.7 1.5 2.2 1.6 1.5 1.4 - 2.2 1.8 2.7 2.3 - 1.4	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia
238 951 946 275 707 51 3 866 1 690 - 34 83 1 013 22 036 0 353 165	(38.3) (26.3) (42.9) (47.4) (32.6) (23.5) (30.9) (27.5) - (43.0) (41.7) (36.1) (30.1) - (31.9) (32.9)	32.8 40.2 35.5 28.2 68.6 3.2 99.0 153.0 - 21.0 14.9 96.7 56.5 0.0 15.4 8.6	6.4 2.5 4.7 1.5 4.6 1.2 2.5 1.9 - 2.8 2.3 4.1 3.2 - 1.8 2.4	61 268 346 59 280 51 1 421 805 - 9 35 252 5 540 0 315	(9.8) (7.4) (15.7) (10.2) (12.9) (23.5) (11.4) (17.6) (9.0) (7.6) (28.5) (34.3)	18.0 41.4 24.1 10.4 46.5 4.9 9.3 11.9 51.9 25.2 0.0 19.2 11.6	2.4 1.6 1.0 1.2 1.3 1.4 0.9 0.9 - 1.3 1.9 1.9 1.2 - 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) (0.8) (2.4) (5.4)	- - - - - - - - - - - - - - - -	3 613 2 207 580 2 169 217 12 501 6 138 - 79 199 2 809 73 328 0 1106 501	3.4 2.0 2.7 1.5 2.2 1.6 1.5 1.4 - 2.2 1.8 2.7 2.3 - 1.4	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosov
238 951 946 275 707 51 3 866 1 690 - 34 83 1 013 22 036 0 353 165 188	(38.3) (26.3) (42.9) (47.4) (32.6) (23.5) (30.9) (27.5) - (43.0) (41.7) (36.1) (30.1) - (31.9) (32.9) (31.1)	32.8 40.2 35.5 28.2 68.6 3.2 99.0 153.0 - 21.0 14.9 96.7 56.5 0.0 0 15.4	6.4 2.5 4.7 1.5 4.6 1.2 2.5 1.9 - 2.8 2.3 4.1 3.2 - 1.8 2.4	61 268 346 59 280 51 1 421 805 - 9 35 252 5 540 0 315 172	(9.8) (7.4) (15.7) (10.2) (12.9) (23.5) (11.4) (13.1) - (11.4) (17.6) (9.0) (7.6) - (28.5) (34.3) (23.6)	18.0 41.4 24.1 10.4 46.5 4.9 100.1 272.7 - 9.3 11.9 51.9 25.2 0.0 19.2 11.6 91.5	2.4 1.6 1.0 1.2 1.3 1.4 0.9 0.9 - 1.3 1.9 1.9 1.2 - 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) (0.8) - (2.4) (5.4) (0.0)	- - - - - - - 1.2 - 1.1 1.1	3 613 2 207 580 2 169 217 12 501 6 138 79 199 2 809 73 328 0 1 106 501 605	3.4 2.0 2.7 1.5 2.2 1.6 1.5 1.4 - 2.2 1.8 2.7 2.3 - 1.4	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosov Kosovo:
238 951 946 275 707 51 3866 1 690 - 34 83 1 013 22 036 0 0 353 165 188 104	(38.3) (26.3) (42.9) (47.4) (32.6) (23.5) (30.9) (27.5) - (43.0) (41.7) (36.1) (30.1) - (31.9) (32.9) (31.1) (25.9)	32.8 40.2 35.5 28.2 68.6 3.2 99.0 153.0 - 21.0 14.9 96.7 56.5 0.0 15.4 8.6 51.5 4.3	6.4 2.5 4.7 1.5 4.6 1.2 2.5 1.9 - 2.8 2.3 4.1 3.2 - 1.8 2.4 1.5	61 268 346 59 280 51 1 421 805 - 9 35 252 5 540 0 315 172 143 70	(9.8) (7.4) (15.7) (10.2) (12.9) (23.5) (11.4) (17.6) (9.0) (7.6) - (28.5) (34.3) (23.6) (17.4)	18.0 41.4 24.1 10.4 46.5 4.9 100.1 272.7 - 9.3 11.9 51.9 25.2 0.0 19.2 11.6 91.5 4.3	2.4 1.6 1.0 1.2 1.3 1.4 0.9 0.9 - 1.3 1.9 1.9 1.2 - 1.1 1.4	0 0 0 0 0 0 0 0 0 0 0 0 0 573 0 27 27 0	(0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.8) - (2.4) (5.4) (0.0) (0.0)	- - - - - - - 1.2 - 1.1 1.1	3 613 2 207 580 2 169 217 12 501 6 138 - 79 199 2 809 73 328 0 1106 501 605 402	3.4 2.0 2.7 1.5 2.2 1.6 1.5 1.4 - 2.2 1.8 2.7 2.3 - 1.4 1.6 1.2	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosov Kosovo¹ Switzerland
238 951 946 275 707 51 3 866 1 690 - 34 83 1 013 22 036 0 353 165 188 104 1 205	(38.3) (26.3) (42.9) (47.4) (32.6) (23.5) (30.9) (27.5) - (43.0) (41.7) (36.1) (30.1) - (31.9) (32.9) (31.1) (25.9) (20.9)	32.8 40.2 35.5 28.2 68.6 3.2 99.0 153.0 - 21.0 14.9 96.7 56.5 0.0 15.4 8.6 51.5 4.3 91.3	6.4 2.5 4.7 1.5 4.6 1.2 2.5 1.9 - 2.8 2.3 4.1 3.2 - 1.8 2.4 1.5	61 268 346 59 280 51 1 421 805 - 9 35 252 5 540 0 315 172 143 70 523	(9.8) (7.4) (15.7) (10.2) (12.9) (23.5) (11.4) (17.6) (9.0) (7.6) - (28.5) (34.3) (23.6) (17.4) (9.1)	18.0 41.4 24.1 10.4 46.5 4.9 100.1 272.7 - 9.3 11.9 51.9 25.2 0.0 19.2 11.6 91.5 4.3	2.4 1.6 1.0 1.2 1.3 1.4 0.9 0.9 - 1.3 1.9 1.9 1.2 - 1.2 1.1 1.4 1.9 0.9	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 2 7 2 7	(0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (2.4) (5.4) (0.0) (0.0)	- - - - - - 1.2 - 1.1 1.1	3 613 2 207 580 2 169 217 12 501 6 138 - 79 199 2 809 73 328 0 1106 501 605 402 5 755	3.4 2.0 2.7 1.5 2.2 1.6 1.5 1.4 - 2.2 1.8 2.7 2.3 - 1.4 1.6 1.2	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kzazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosov Kosovo: Switzerland Tajikistan
238 951 946 275 707 51 3 866 1 690 0 34 83 1 013 22 036 0 353 165 188 104 1 205 3 496	(38.3) (26.3) (42.9) (47.4) (32.6) (23.5) (30.9) (27.5) - (43.0) (41.7) (36.1) (30.1) - (31.9) (32.9) (31.1) (25.9) (20.9) (31.1)	32.8 40.2 35.5 28.2 68.6 3.2 99.0 153.0 - 21.0 14.9 96.7 56.5 0.0 15.4 8.6 51.5 4.3 91.3 20.2	6.4 2.5 4.7 1.5 4.6 1.2 2.5 1.9 - 2.8 2.3 4.1 3.2 - 1.8 2.4 1.5 1.9	61 268 346 59 280 51 1421 805 - 9 35 252 5 540 0 315 172 143 70 523 2 320	(9.8) (7.4) (15.7) (10.2) (12.9) (23.5) (11.4) (17.6) (9.0) (7.6) - (28.5) (34.3) (23.6) (17.4) (9.1)	18.0 41.4 24.1 10.4 46.5 4.9 100.1 272.7 - 9.3 11.9 25.2 0.0 19.2 19.6 91.5 4.3 181.8	2.4 1.6 1.0 1.2 1.3 1.4 0.9 - 1.3 1.9 1.9 1.2 - 1.2 - 1.1 1.4 1.9 0.9 1.3	0 0 0 0 0 0 0 0 0 0 0 0 573 0 27 27 0 0	(0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.8) - (2.4) (5.4) (0.0) (0.0) (0.0)	- - - - - - 1.2 - 1.1 1.1	3 613 2 207 580 2 169 217 12 501 6 138 - 79 199 2 809 73 328 0 1106 501 605 402 5 755 11 247	3.4 4 2.0 2.7 1.5 2.2 1.6 1.5 1.4 2.2 1.8 2.7 1.4 1.6 1.2 1.2 1.3 1.4	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosov Kosovo' Switzerland Tajikistan Turkey
238 951 946 275 707 51 3 866 1 690 0 34 83 1 013 22 036 0 353 165 188 104 1 205 3 496 666	(38.3) (26.3) (42.9) (47.4) (32.6) (23.5) (30.9) (27.5) (43.0) (41.7) (36.1) (30.1) (31.9) (32.9) (31.1) (25.9) (20.9) (31.1) (32.1)	32.8 40.2 35.5 28.2 68.6 3.2 99.0 153.0 14.9 96.7 56.5 0.0 15.4 8.6 51.5 4.3 91.3 20.2 64.5	6.4 2.5 4.7 1.5 4.6 1.2 2.5 1.9 - 2.8 2.3 4.1 3.2 - 1.8 2.4 1.5 1.9	61 268 346 59 280 51 1421 805 - 9 35 252 5 540 0 315 172 143 70 523 2 320 165	(9.8) (7.4) (15.7) (10.2) (12.9) (23.5) (11.4) (17.6) (9.0) (7.6) - (28.5) (34.3) (23.6) (17.4) (9.1) (20.6) (8.0)	18.0 41.4 24.1 10.4 46.5 4.9 100.1 272.7 - 9.3 11.9 25.2 0.0 19.2 11.6 91.5 4.3 181.8 31.9 60.5	2.4 1.6 1.0 1.2 1.3 1.4 0.9 - 1.3 1.9 1.9 1.2 - 1.2 1.1 1.4 1.9 0.9	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 2 7 2 7	(0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.8) - (2.4) (5.4) (0.0) (0.0) (0.0) (0.0)		3 613 2 207 580 2 169 217 12 501 6 138 - 79 199 2 809 73 328 0 1 106 501 605 402 5 755 11 247 2 073	3.4 2.0 2.7 1.5 2.2 1.6 1.5 1.4 1.6 1.2 1.3 1.4 1.5 1.5 1.4 1.5 1.5 1.4 1.5 1.5 1.4 1.5 1.5 1.4 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosov Kosovo¹ Switzerland Tajikistan Turkey Turkmenistan
238 951 946 275 707 51 3 866 1 690 - 34 83 1 013 22 036 0 353 165 188 104 1 205 3 496 666 8 871	(38.3) (26.3) (42.9) (47.4) (32.6) (23.5) (30.9) (27.5) (43.0) (41.7) (36.1) (30.1) (31.9) (32.9) (31.1) (25.9) (20.9) (31.1) (32.1) (35.0)	32.8 40.2 35.5 28.2 68.6 3.2 99.0 153.0 14.9 96.7 56.5 0.0 15.4 8.6 51.5 4.3 91.3 20.2 64.5 74.2	6.4 2.5 4.7 1.5 4.6 1.2 2.5 1.9 - 2.8 2.3 4.1 3.2 - 1.8 2.4 1.5 1.9 - 3.1 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1	61 268 346 59 280 51 1 421 805 - 9 35 252 5 540 0 315 172 143 70 523 2 320 165 2 058	(9.8) (7.4) (15.7) (10.2) (12.9) (23.5) (11.4) (17.6) (9.0) (7.6) (28.5) (34.3) (23.6) (17.4) (9.1) (20.6) (8.0) (8.1)	18.0 41.4 24.1 10.4 46.5 4.9 100.1 272.7 - 9.3 11.9 25.2 0.0 19.2 11.6 91.5 4.3 181.8 31.9 60.5 28.0	2.4 1.6 1.0 1.2 1.3 1.4 0.9 0.9 1.3 1.9 1.9 1.2 - 1.2 1.1 1.4 1.9 0.9 1.3	0 0 0 0 0 0 0 0 0 0 0 0 573 0 27 27 0 0 0	(0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.8) - (2.4) (5.4) (0.0) (0.0) (0.0) (0.0) (0.0)	- - - - - - 1.2 - 1.1 1.1 - -	3 613 2 207 580 2 169 217 12 501 6 138 - 79 199 2 809 73 328 0 1 106 501 605 402 5 755 11 247 2 073 25 379	3.4 2.0 2.7 1.5 2.2 1.6 1.5 1.4 1.6 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosov Kosovo¹ Switzerland Tajikistan Turkey Turkmenistan Ukraine
238 951 946 275 707 51 3 866 1 690 - 34 83 1 013 22 036 0 353 165 188 1205 188 1205 666 8 871 4 651	(38.3) (26.3) (42.9) (47.4) (32.6) (23.5) (30.9) (27.5) (43.0) (41.7) (36.1) (30.1) (31.9) (32.9) (31.1) (25.9) (20.9) (31.1) (32.1) (32.1) (32.1) (32.6)	32.8 40.2 35.5 28.2 68.6 3.2 99.0 153.0 	6.4 2.5 4.7 1.5 4.6 1.2 2.5 1.9 2.8 2.3 4.1 3.2 - 1.8 2.4 1.5 1.9 9 3.3 1.0 1.7 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9	61 268 346 59 280 51 1421 805 - 9 35 252 5540 0 315 172 143 70 523 2 320 165 2 058 2 381	(9.8) (7.4) (15.7) (10.2) (12.9) (23.5) (11.4) (17.6) (9.0) (7.6) (28.5) (34.3) (23.6) (17.4) (9.1) (20.6) (8.0) (8.1) (14.6)	18.0 41.4 24.1 10.4 46.5 4.9 100.1 272.7 - 9.3 11.9 25.2 0.0 19.2 11.6 91.5 4.3 181.8 31.9 60.5 28.0 157.1	2.4 1.6 1.0 1.2 1.3 1.4 0.9 0.9 - 1.3 1.9 1.9 1.2 - 1.2 1.1 1.4 1.9 0.9 1.3 1.9 1.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 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) (0.8) - (2.4) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0)	- - - - - - 1.2 - 1.1 1.1 - -	3 613 2 207 580 2 169 217 12 501 6 138 - 79 199 2 809 73 328 0 1 106 501 605 402 5 755 11 247 2 073 25 379 16 272	3.4 4 2.0 2.7 1.5 2.2 1.6 1.5 1.4 1.6 1.2 1.2 1.2 1.4 1.5 2.4 1.5 2.4 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosov Kosovo¹ Switzerland Tajikistan Turkey Turkmenistan Ukraine Uzbekistan
238 951 946 275 707 51 3 866 1 690 - 34 83 1 013 22 036 0 353 165 188 104 1 205 3 496 666 8 871	(38.3) (26.3) (42.9) (47.4) (32.6) (23.5) (30.9) (27.5) (43.0) (41.7) (36.1) (30.1) (31.9) (32.9) (31.1) (25.9) (20.9) (31.1) (32.1) (35.0)	32.8 40.2 35.5 28.2 68.6 3.2 99.0 153.0 14.9 96.7 56.5 0.0 15.4 8.6 51.5 4.3 91.3 20.2 64.5 74.2	6.4 2.5 4.7 1.5 4.6 1.2 2.5 1.9 - 2.8 2.3 4.1 3.2 - 1.8 2.4 1.5 1.9 - 3.1 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1	61 268 346 59 280 51 1 421 805 - 9 35 252 5 540 0 315 172 143 70 523 2 320 165 2 058	(9.8) (7.4) (15.7) (10.2) (12.9) (23.5) (11.4) (17.6) (9.0) (7.6) (28.5) (34.3) (23.6) (17.4) (9.1) (20.6) (8.0) (8.1)	18.0 41.4 24.1 10.4 46.5 4.9 100.1 272.7 - 9.3 11.9 25.2 0.0 19.2 11.6 91.5 4.3 181.8 31.9 60.5 28.0	2.4 1.6 1.0 1.2 1.3 1.4 0.9 0.9 1.3 1.9 1.9 1.2 - 1.2 1.1 1.4 1.9 0.9 1.3	0 0 0 0 0 0 0 0 0 0 0 0 573 0 27 27 0 0 0	(0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.8) - (2.4) (5.4) (0.0) (0.0) (0.0) (0.0) (0.0)	- - - - - - 1.2 - 1.1 1.1 - -	3 613 2 207 580 2 169 217 12 501 6 138 - 79 199 2 809 73 328 0 1 106 501 605 402 5 755 11 247 2 073 25 379	3.4 4 2.0 2.7 1.5 2.2 1.6 1.5 1.4 - 2.2 1.8 2.7 2.3 3 1.4 1.6 1.2 1.2 1.3 1.4 1.5 1.2 1.4 1.5 1.5 1.4 1.5 1.5 1.4 1.5 1.5 1.4 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosov Kosovo¹ Switzerland Tajikistan Turkey Turkmenistan Ukraine

¹ All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

Table 10. TB cases by origin, European Region, 2019

Country/area	Origin	Nati		Forei		Unknown		All TB cases
•	criterion	N	(%)	N	(%)	N	(%)	N
EU/EEA								
Austria	Citizenship	211	(44.5)	263	(55.5)	0	(0.0)	474
Belgium	Citizenship	427	(44.1)	541	(55.9)	0	(0.0)	968
Bulgaria	Birthplace	1344	(100.0)	0	(0.0)	0	(0.0)	1344
Croatia	Birthplace	299	(98.7)	4	(1.3)	0	(0.0)	303
Cyprus	Birthplace	7	(10.1)	62	(89.9)	0	(0.0)	69
Czechia	Birthplace	323	(69.6)	140	(30.2)	1	(0.2)	464
Denmark	Birthplace	77	(27.4)	204	(72.6)	0	(0.0)	281
Estonia	Birthplace	114	(76.0)	36	(24.0)	0	(0.0)	150
Finland	Birthplace	125	(55.6)	96	(42.7)	4	(1.8)	225
France	Birthplace	1 455	(28.4)	3 102	(60.6)	559	(10.9)	5 116
Germany	Birthplace	1308	(27.3)	3 362	(70.2)	121	(2.5)	4 791
Greece	Citizenship	202	(44.0)	257	(56.0)	0	(0.0)	459
Hungary	Citizenship	509	(92.2)	43	(7.8)	0	(0.0)	552
Iceland	Birthplace	2	(15.4)	11	(84.6)	0	(0.0)	13
Ireland	Birthplace	106	(39.8)	119	(44.7)	41	(15.4)	266
Italy	Birthplace	1393	(41.6)	1882	(56.2)	71	(2.1)	3 346
Latvia	-	-	-	-	-	-	-	-
Liechtenstein	-	-	-	-	-	-	-	-
Lithuania	Birthplace	1 042	(98.5)	16	(1.5)	0	(0.0)	1 058
Luxembourg	Birthplace	5	(10.0)	45	(90.0)	0	(0.0)	50
Malta	Birthplace	4	(4.1)	94	(95.9)	0	(0.0)	98
Netherlands	Birthplace	182	(24.0)	567	(74.7)	10	(1.3)	759
Norway	Birthplace	18	(10.9)	146	(88.5)	1	(0.6)	165
Poland	Citizenship	5 200	(97.7)	121	(2.3)	0	(0.0)	5 321
Portugal	Birthplace	1350	(76.2)	419	(23.7)	2	(0.0)	1771
Romania	Birthplace	11 591	(99.6)	42	(0.4)	0	(0.0)	11 633
Slovakia	Birthplace	207	(96.7)	7	(3.3)	0	(0.0)	214
Slovenia	Birthplace				(35.6)	0	(0.0)	101
		65	(64.4)	36			(8.8)	
Spain	Birthplace	2 247	(54.1)	1539	(37.1)	364		4 150
Sweden	Birthplace	64	(13.4)	415	(86.6)	0	(0.0)	479
United Kingdom	Birthplace	1362	(26.5)	3 612	(70.4)	158	(3.1)	5 132
Subtotal EU/EEA		31 239	(62.8)	17 181	(34.5)	1332	(2.7)	49 752
Non-EU/EEA	6111	(40	(400.0)		(0.0)			/40
Albania	Citizenship	412	(100.0)	0	(0.0)	-	-	412
Andorra	Citizenship	4	(80.0)	1	(20.0)	-	-	5
Armenia	Citizenship	700	(98.3)	12	(1.7)	-	-	712
Azerbaijan	-	-	-	-	-	-	-	-
Belarus	Citizenship	2 619	(100.0)	0	(0.0)	-	-	2 619
Bosnia and Herzegovina	Birthplace	580	(100.0)	0	(0.0)	-	-	580
Georgia	_	-	-	-	-	-	-	-
Israel	Birthplace	29	(13.4)	188	(86.6)	-	-	217
Kazakhstan	Citizenship	12 942	(98.8)	161	(1.2)	-	-	13 103
Kyrgyzstan	Birthplace	7 057	(100.0)	0	(0.0)	-	-	7 057
Monaco	_	-	-	-	-	-	-	-
Montenegro	Citizenship	78	(95.1)	4	(4.9)	_	_	82
North Macedonia	Birthplace	197	(99.0)	2	(1.0)	-	-	199
Republic of Moldova	Citizenship	3 293	(99.4)	19	(0.6)	-	-	3 312
Russian Federation	Citizenship	101 909	(98.0)	2 070	(2.0)	_	_	103 979
San Marino	Birthplace	0	(,,0,0)	0	(2.0)	_	-	0
Serbia	- Dirtiiptace	1184	(99.6)	5	(0.4)	_	_	1189
Serbia excluding Kosovo ¹	Citizenship		(99.6)	5	(0.4)	_	-	574
Kosovo ¹		569				_	_	
	Birthplace	615	(100.0)	0	(0.0)	-		615
Switzerland	Birthplace	148	(31.8)	318	(68.2)		-	466
Tajikistan	-		(0-0)	-	-	-	-	_
Turkey	Birthplace	9 986	(87.3)	1 454	(12.7)	-	-	11 440
Turkmenistan	Citizenship	3 472	(100.0)	0	(0.0)	-	-	3472
Ukraine	Citizenship	28 985	(99.9)	36	(0.1)	-	-	29 021
Uzbekistan	Birthplace	19 146	(100.0)	0	(0.0)	-		19 146
Subtotal non-EU/EEA		192 741	(97.8)	4 270	(2.2)	0	(0.0)	197 011
Total European Region		223 980	(90.8)	21 451	(8.7)	1332	(0.5)	246 763
Subtotal 18 HPCs		204 200	(98.2)	3 846	(1.8)	0	(0.0)	208 046

Note: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. HPC: high-priority countries.

'All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

Table 11. Drug-resistance surveillance of bacteriologically confirmed pulmonary TB cases, European Region, 2019

Country/area	Source of data	Coverage	Bacteriologically co	onfirmed	Cases with DST r least for RIF a		Cases with DST results for at least RIF		
	Source of data	Coverage	N Cases	(%)	N Iteast for Kira	(%)	N Iteast Kir	(%)	
U/EEA									
Nustria	TESSy	National	306	(89.5)	260	(85.0)	260	(85.0)	
Belgium	TESSy	National	608	(87.9)	540	(88.8)	540	(88.8)	
Bulgaria	TESSy	National	618	(58.0)	446	(72.2)	453	(73.3)	
Croatia	TESSy	National	215	(90.0)	183	(85.1)	183	(85.1)	
Cyprus	TESSy	National	50	(80.6)	49	(98.0)	49	(98.0)	
Czechia	TESSy	National	368	(86.4)	317	(86.1)	319	(86.7)	
Denmark	TESSy	National	193	(86.2)	189	(97.9)	189	(97.9)	
Estonia	TESSy	National	127	(91.4)	122	(96.1)	127	(100.0)	
Finland	TESSy	National	139	(88.0)	125	(89.9)	126	(90.6)	
France	TESSy	National	1 351	(38.9)	60	(4.4)	60	(4.4)	
Germany	TESSy	National	2 984	(86.9)	2 558	(85.7)	2 576	(86.3)	
Greece	TESSy	National	273	(68.9)	198	(72.5)	198	(72.5)	
	TESSy	National							
Hungary			285	(53.3)	257	(90.2)	267	(93.7)	
celand	TESSy	National	4	(57.1)	4	(100.0)	4	(100.0)	
reland	TESSy	National	149	(87.1)	128	(85.9)	130	(87.2)	
taly	NRL-TME ^d	Partial	2 134	(84.1)	1737	(81.4)	1 737	(81.4)	
Latvia	-	-	-	-	-	-	-	-	
Liechtenstein	-	-	-	-	-	-	-	-	
Lithuania	TESSy	National	905	(92.2)	905	(100.0)	905	(100.0)	
Luxembourg	TESSy	National	33	(82.5)	26	(78.8)	26	(78.8)	
Malta	TESSy	National	37	(48.7)	36	(97.3)	36	(97.3)	
Netherlands	TESSy	National	363	(84.0)	299	(82.4)	300	(82.6)	
Vorway	TESSy	National	100	(91.7)	87	(87.0)	89	(89.0)	
Poland	TESSy	National	4 006	(78.9)	3 574	(89.2)	3 574	(89.2)	
Portugal	TESSy	National	951	(72.5)	504	(53.0)	504	(53.0)	
Romania	·	National							
	TESSy		8 315	(82.6)	7 442	(89.5)	7592	(91.3)	
Slovakia	TESSy	National	125	(69.8)	107	(85.6)	107	(85.6)	
Slovenia	TESSy	National	83	(93.3)	82	(98.8)	82	(98.8)	
Spain	TESSy	National	2 352	(78.2)	617	(26.2)	630	(26.8)	
Sweden	TESSy	National	281	(93.4)	263	(93.6)	263	(93.6)	
United Kingdom	TESSy	National	2 200	(75.5)	2 157	(98.0)	2 160	(98.2)	
Subtotal EU/EEA			29 555	(76.8)	23 272	(78.7)	23 486	(79.5)	
lon-EU/EEA									
Albania	NRL-TME	National	225	(70.3)	29.00	(12.9)	29	(12.9)	
Andorra	NRL-TME	National	4	(100.0)	2	(50.0)	2	(50.0)	
Armenia	NRL-TME	National	305	(57.4)	296	(97.0)	299	(98.0)	
Azerbaijan	NRL-TME	National	4 130	(73.8)	3 757	(91.0)	4 094	(99.1)	
Belarus	NRL-TME	National	2 013	(95.2)	2 013	(100.0)	2 013	(100.0)	
Bosnia and Herzegovina	NRL-TME	National	355	(70.7)	242	(68.2)	342	(96.3)	
Georgia	NRL-TME	National	1 841	(91.4)	1 412	(76.7)	1793	(97.4)	
-		National		(69.8)	105	(94.6)	105	(94.6)	
	NRI-TMF					(/7.0)			
	NRL-TME		9 309			(70 1)	g 027	(QK N)	
Kazakhstan	NRL-TME	National	9 309	(79.4)	6 527	(70.1)	8 937	(96.0)	
Kazakhstan Kyrgyzstan	NRL-TME NRL-TME		9 309 3 609		6 527 3 310	(91.7)	3 378	(93.6)	
srael Kazakhstan Kyrgyzstan Monaco	NRL-TME NRL-TME –	National National –	9 309 3 609 -	(79.4) (67.1)	6 527 3 310 -	(91.7) -	3 378 -	(93.6)	
Kazakhstan Kyrgyzstan Monaco Montenegro	NRL-TME NRL-TME – NRL-TME	National National – National	9 309 3 609 - 71	(79.4) (67.1) - (94.7)	6 527 3 310 - 61	(91.7) - (85.9)	3 378 - 70	(93.6) - (98.6)	
Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia	NRL-TME NRL-TME - NRL-TME NRL-TME	National National – National National	9 309 3 609 - 71 140	(79.4) (67.1) - (94.7) (86.4)	6 527 3 310 - 61 120	(91.7) - (85.9) (85.7)	3 378 - 70 140	(93.6) - (98.6) (100.0)	
(azakhstan (yrgyzstan Monaco Montenegro Horth Macedonia Republic of Moldova	NRL-TME NRL-TME - NRL-TME NRL-TME NRL-TME	National National – National National –	9 309 3 609 - 71 140 2 180	(79.4) (67.1) - (94.7) (86.4) (73.5)	6 527 3 310 - 61 120 1 539	(91.7) - (85.9) (85.7) (70.6)	3 378 - 70 140 1 687	(93.6) - (98.6) (100.0) (77.4)	
Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation	NRL-TME NRL-TME - NRL-TME NRL-TME NRL-TME NRL-TME NRL-TME NRL-TME	National National - National National - National	9 309 3 609 - 71 140	(79.4) (67.1) - (94.7) (86.4)	6 527 3 310 - 61 120	(91.7) - (85.9) (85.7)	3 378 - 70 140	(93.6) - (98.6) (100.0)	
Kazakhstan Kyrgyzstan Monaco Montenegro Horth Macedonia Republic of Moldova Russian Federation	NRL-TME NRL-TME - NRL-TME NRL-TME NRL-TME	National National – National National –	9 309 3 609 - 71 140 2 180	(79.4) (67.1) - (94.7) (86.4) (73.5)	6 527 3 310 - 61 120 1 539	(91.7) - (85.9) (85.7) (70.6)	3 378 - 70 140 1 687	(93.6) - (98.6) (100.0) (77.4)	
Kazakhstan Kyrgyzstan Monaco Montenegro Horth Macedonia Republic of Moldova Russian Federation	NRL-TME NRL-TME - NRL-TME NRL-TME NRL-TME NRL-TME NRL-TME NRL-TME	National National - National National - National	9 309 3 609 - 71 140 2 180 54 751	(79.4) (67.1) - (94.7) (86.4) (73.5)	6 527 3 310 - 61 120 1 539	(91.7) - (85.9) (85.7) (70.6) (92.2)	3 378 - 70 140 1 687	(93.6) - (98.6) (100.0) (77.4) (92.2)	
Kazakhstan Kyrgyzstan Monaco Montenegro Horth Macedonia Republic of Moldova Russian Federation	NRL-TME NRL-TME NRL-TME NRL-TME NRL-TME NRL-TME NRL-TME	National National - National National - National National National	9 309 3 609 - 71 140 2 180 54 751	(79.4) (67.1) - (94.7) (86.4) (73.5) (63.5)	6 527 3 310 - 61 120 1 539 50 476	(91.7) - (85.9) (85.7) (70.6) (92.2)	3 378 - 70 140 1 687 50 476	(93.6) - (98.6) (100.0) (77.4) (92.2)	
(azakhstan (yrgyzstan Aonaco Aontenegro Iorth Macedonia Pepublic of Moldova Bussian Federation Ban Marino	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	9 309 3 609 - 71 140 2 180 54 751 0	(79.4) (67.1) - (94.7) (86.4) (73.5) (63.5) - (61.4) (67.3)	6 527 3 310 - 61 120 1 539 50 476 - 242	(91.7) - (85.9) (85.7) (70.6) (92.2) - (41.9)	3 378 - 70 140 1 687 50 476 - 485	(93.6) - (98.6) (100.0) (77.4) (92.2) - (84.1)	
Cazakhstan Cyrgyzstan Monaco Montenegro Jorth Macedonia Republic of Moldova Quessian Federation Jorn Marino Jorn M	NRL-TME	National	9 309 3 609 - 71 140 2 180 54 751 0 577 334 243	(79.4) (67.1) - (94.7) (86.4) (73.5) (63.5) - (61.4) (67.3) (54.9)	6 527 3 310 - 61 120 1 539 50 476 - 242 242	(91.7) - (85.9) (85.7) (70.6) (92.2) - (41.9) (72.5) (0.0)	3 378 - 70 140 1 687 50 476 - 485 242 243	(93.6) - (98.6) (100.0) (77.4) (92.2) - (84.1) (72.5) (100.0)	
Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo¹ Kosovo¹	NRL-TME	National	9 309 3 609 - 71 140 2 180 54 751 0 577 334 243	(79.4) (67.1) - (94.7) (86.4) (73.5) (63.5) - (61.4) (67.3) (54.9) (86.5)	6 527 3 310 - 61 120 1 539 50 476 - 242 242 0	(91.7) - (85.9) (85.7) (70.6) (92.2) - (41.9) (72.5) (0.0) (73.5)	3 378 - 70 140 1 687 50 476 - 485 242 243 217	(93.6) - (98.6) (100.0) (77.4) (92.2) - (84.1) (72.5) (100.0) (73.8)	
Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo¹ Kosovo¹ Switzerland	NRL-TME	National	9 309 3 609 - 71 140 2 180 54 751 0 577 334 243 294 2 828	(79.4) (67.1) - (94.7) (86.4) (73.5) (63.5) - (61.4) (67.3) (54.9) (86.5)	6 527 3 310 - 61 120 1 539 50 476 - 242 242 0 216 2 002	(91.7) - (85.9) (85.7) (70.6) (92.2) - (41.9) (72.5) (0.0) (73.5) (70.8)	3 378 - 70 140 1 687 50 476 - 485 242 243 217 2 828	(93.6) - (98.6) (100.0) (77.4) (92.2) - (84.1) (72.5) (100.0) (73.8) (100.0)	
Kazakhstan Kyrgyzstan Monaco Montenegro Horth Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo¹ Kosovo¹ Kosovo¹ Switzerland Tajikistan Turkey	NRL-TME	National	9 309 3 609 - 71 140 2 180 54 751 0 577 334 243	(79.4) (67.1) - (94.7) (86.4) (73.5) (63.5) - (61.4) (67.3) (54.9) (86.5)	6 527 3 310 - 61 120 1 539 50 476 - 242 242 0	(91.7) - (85.9) (85.7) (70.6) (92.2) - (41.9) (72.5) (0.0) (73.5)	3 378 - 70 140 1 687 50 476 - 485 242 243 217	(93.6) - (98.6) (100.0) (77.4) (92.2) - (84.1) (72.5) (100.0) (73.8)	
Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo¹ Kosovo¹ Switzerland Fajikistan Furkey Furkmenistan	NRL-TME	National	9 309 3 609 - 71 140 2 180 54 751 0 577 334 243 294 2 828 5 915 -	(79.4) (67.1) - (94.7) (86.4) (73.5) (63.5) - (61.4) (67.3) (54.9) (86.5) (67.2) (79.6)	6 527 3 310 - 61 120 1 539 50 476 - 242 242 0 216 2 002 5 087	(91.7) - (85.9) (85.7) (70.6) (92.2) - (41.9) (72.5) (0.0) (73.5) (70.8) (86.0)	3 378 - 70 140 1 687 50 476 - 485 242 243 217 2 828 5 178 -	(93.6) - (98.6) (100.0) (77.4) (92.2) - (84.1) (72.5) (100.0) (73.8) (100.0) (87.5)	
Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo¹ Kosovo¹ Switzerland Tajikistan Turkey Turkmenistan Ukraine	NRL-TME	National	9 309 3 609 - 71 140 2 180 54 751 0 577 334 243 294 2 828 5 915 - 19 129	(79.4) (67.1) - (94.7) (86.4) (73.5) (63.5) - (61.4) (67.3) (54.9) (86.5) (67.2) (79.6) -	6 527 3 310 - 61 120 1 539 50 476 - 242 242 0 216 2 002 5 087 - 18 459	(91.7) - (85.9) (85.7) (70.6) (92.2) - (41.9) (72.5) (0.0) (73.5) (70.8) (86.0) - (96.5)	3 378 - 70 140 1 687 50 476 - 485 242 243 217 2 828 5 178 - 18 459	(93.6) - (98.6) (100.0) (77.4) (92.2) - (84.1) (72.5) (100.0) (73.8) (100.0) (87.5) - (96.5)	
Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo¹ Kosovo¹ Switzerland Tajikistan Turkey Turkmenistan Ukraine	NRL-TME	National	9 309 3 609 - 71 140 2 180 54 751 0 577 334 243 294 2 828 5 915 - 19 129 7 394	(79.4) (67.1) - (94.7) (86.4) (73.5) - (61.4) (67.3) (54.9) (86.5) (67.2) (79.6) -	6 527 3 310 - 61 120 1 539 50 476 - 242 242 0 216 2 002 5 087 - 18 459 7 394	(91.7) - (85.9) (85.7) (70.6) (92.2) - (41.9) (72.5) (0.0) (73.5) (70.8) (86.0) - (96.5) (100.0)	3 378 - 70 140 1 687 50 476 - 485 242 243 217 2 828 5 178 - 18 459 7 394	(93.6) - (98.6) (100.0) (77.4) (92.2) - (84.1) (72.5) (100.0) (73.8) (100.0) (87.5) - (96.5) (100.0)	
Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation Serbia Serbia Serbia excluding Kosovo¹ Kosovo¹ Switzerland Tajikistan Turkey Turkmenistan Jkraine	NRL-TME	National	9 309 3 609 - 71 140 2 180 54 751 0 577 334 243 294 2 828 5 915 - 19 129	(79.4) (67.1) - (94.7) (86.4) (73.5) (63.5) - (61.4) (67.3) (54.9) (86.5) (67.2) (79.6) -	6 527 3 310 - 61 120 1 539 50 476 - 242 242 0 216 2 002 5 087 - 18 459	(91.7) - (85.9) (85.7) (70.6) (92.2) - (41.9) (72.5) (0.0) (73.5) (70.8) (86.0) - (96.5)	3 378 - 70 140 1 687 50 476 - 485 242 243 217 2 828 5 178 - 18 459	(93.6) - (98.6) (100.0) (77.4) (92.2) - (84.1) (72.5) (100.0) (73.8) (100.0) (87.5) - (96.5)	

Note: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are 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: isoniazid.

MDR-TB: multidrug-resistant tuberculosis.

MDK-18: multidrug-resistant tuberculosis.
NRL: national reference laboratory.
RIF: rifampicin.
TESSy: The European Surveillance System.
TME: WHO Tuberculosis Monitoring and Evaluation platform.

Y: yes.

All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

Cases resistant to RIF		Cases resistant anti-TB dru	to any	MDR-TB cas	ses	All pulmonary TB cases	Reporting
N	(%)	N	(%)	N	(%)	N	completeness
4	(1.5)	23	(8.8)	3	(1.2)	342	Υ
13	(2.4)	31	(5.7)	12	(2.2)	692	Ϋ́
14	(3.1)	34	(7.6)	11	(2.5)	1.066	Υ
2	(1.1)	7	(3.8)	2	(1.1)	239	Υ
1	(2.0)	4	(8.2)	1	(2.0)	62	Υ
8	(2.5)	35	(11.0)	8	(2.5)	426	Υ
3	(1.6)	6	(3.2)	3	(1.6)	224	Υ
29	(22.8)	50	(41.0)	27	(22.1)	139	Υ
3	(2.4)	13	(10.4)	2	(1.6)	158	Υ
60	(100.0)	60	(100.0)	60	(100.0)	3 476	Υ
78	(3.0)	283	(11.1)	67	(2.6)	3 435	Υ
7	(3.5)	36	(18.2)	6	(3.0)	396	Υ
13	(4.9)	37	(14.4)	12	(4.7)	535	Υ
0	(0.0)	0	(0.0)	0	(0.0)	7	Υ
3	(2.3)	14	(10.9)	2	(1.6)	171	Υ
45	(2.6)	-	-	38	(2.2)	2 537	N
-	-	-	-	-	-	-	-
-	(40.0)	-	(22.2)	157	(17.2)	- 003	- У
170	(18.8)	291	(32.2)	157	(17.3)	982	
1	(3.8)	7	(26.9) (5.6)	0	(3.8)	40 76	Y Y
0	(0.0)	2	(5.6)	6	(2.0)	432	Υ Υ
7 2	(2.3)	17 10	(11.5)	2	(2.3)	109	Υ
	(1.2)	249	(7.0)	40	(1.1)	5 075	Y
9	(1.8)	60	(11.9)	5	(1.0)	1311	Y
374	(4.9)	636	(8.5)	302	(4.1)	10 067	Y
5	(4.7)	8	(7.5)	5	(4.7)	179	Y
0	(0.0)	2	(2.4)	0	(0.0)	89	Ϋ́
10	(1.6)	66	(10.7)	8	(1.3)	3 009	Υ
6	(2.3)	30	(11.4)	4	(1.5)	301	Υ
34	(1.6)	238	(11.0)	27	(1.3)	2 914	Υ
945	(4.0)	2 249	(10.4)	811	(3.5)	38 489	
4	(13.8)	2	(6.9)	2	(6.9)	320	N
0	(0.0)	0	(0.0)	0	(0.0)	4	N
65	(21.7)	85	(28.7)	56	(18.9)	531	Υ
752	(18.4)	533	(14.2)	414	(11.0)	5 600	Υ
874	(43.4)	561	(27.9)	808	(40.1)	2 115	Υ
1	(0.3)	3	(1.2)	0	(0.0)	502	Υ
304	(17.0)	230	(16.3)	229	(16.2)	2 015	Y
2.000	(8.6)	14	(13.3)	9	(8.6)	159	Y
2 980	(33.3)	2 013	(30.8)	1569	(24.0)	11 723	Y Y
1 303	(38.6)	1 000	(30.2)	1 097	(33.1)	5 378	Y N
0	(0.0)	0	(0.0)	0	(0.0)		Υ
U	(0.0)	1	(=)	1	(a)	75	Υ
1		402	(26.1)	441	(0.8)	162 2 967	N N
559	(33.1)		(20.1)	44-			Y
559	(33.1) (52.4)		(36.2)	24 443	(48.4)	86 181	
559 26 445	(52.4)	18 286	(36.2)	24 443	(48.4)	86 181	-
559	(52.4)		-	24 443	-	-	
559 26 445 -	(52.4)	18 286 -	(0.8)	-		939	- Y
559 26 445 - 2	(52.4) - (0.4)	18 286 - 2	-	2	(0.8)	939 496	-
559 26 445 - 2 2	(52.4) - (0.4) (0.8) (0.0)	18 286 - 2 4	(0.8) (1.7) (0.0)	- 2 2 0	(0.8) (0.8) (0.0)	939	- Ү у
559 26 445 - 2 2	(52.4) - (0.4) (0.8)	18 286 - 2 4 0	(0.8) (1.7) (0.0) (6.0) (23.6)	- 2 2	(o.8) (o.8)	- 939 496 443	- У У Ү
559 26 445 - 2 2 0	(52.4) - (0.4) (0.8) (0.0) (4.1)	18 286 - 2 4 0	(0.8) (1.7) (0.0) (6.0)	- 2 2 0 7	(0.8) (0.8) (0.0) (3.2)	- 939 496 443 340	- У У У
559 26 445 - 2 2 0 9 878 150	(52.4) - (0.4) (0.8) (0.0) (4.1) (31.0)	18 286 - 2 4 0 13 473	(0.8) (1.7) (0.0) (6.0) (23.6) (9.6)	- 2 2 0 7 308	(o.8) (o.8) (o.0) (3.2) (15.4)	939 496 443 340 4 209	- Y Y Y N Y
559 26 445 - 2 2 0 9 878 150	(52.4) - (0.4) (0.8) (0.0) (4.1) (31.0) (2.9) - (32.2)	18 286 - 2 4 0 13 473 487	(0.8) (1.7) (0.0) (6.0) (23.6) (9.6)	- 2 2 0 7 308 121	(0.8) (0.8) (0.0) (3.2) (15.4) (2.4)	939 496 443 340 4 209 7 433	- Y Y Y N Y Y
559 26 445 - 2 2 0 9 878 150 - 5 936 1 082	(52.4) - (0.4) (0.8) (0.0) (4.1) (31.0) (2.9) - (32.2) (14.6)	18 286 - 2 4 0 13 473 487 - 3 886 1 665	(0.8) (1.7) (0.0) (6.0) (23.6) (9.6) (21.1) (22.5)	- 2 2 0 7 308 121	(0.8) (0.8) (0.0) (3.2) (15.4) (2.4) (24.3) (13.2)	- 939 496 443 340 4 209 7 433 - 26 032 12 008	- Y Y Y N Y Y Y
559 26 445 - 2 2 0 9 878 150 - 5 936	(52.4) - (0.4) (0.8) (0.0) (4.1) (31.0) (2.9) - (32.2)	18 286 - 2 4 0 13 473 487 - 3 886	(0.8) (1.7) (0.0) (6.0) (23.6) (9.6)	- 2 2 0 7 308 121 - 4 490	(0.8) (0.8) (0.0) (3.2) (15.4) (2.4)	939 496 443 340 4 209 7 433 - 26 032	- Y Y Y N Y Y

^{*}Bacteriologically confirmed cases – cases with positive identification for *Mycobacterium tuberculosis* complex confirmed by culture and/or line probe assay for non-EU/EEA countries and areas. For EU/EEA countries: cases with positive identification for *Mycobacterium tuberculosis* complex confirmed by culture and/or line probe assay.

*Bor non-EU/EEA countries and areas, 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.

*Casta 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 external quality-assessment results have been accurate in 95% of samples of reported year.

*Laboratory-related data from Italy are reported by NRL and may differ from data shown elsewhere in this report.

Table 12. Drug-resistance surveillance of bacteriologically confirmed pulmonary TB cases by previous TB treatment history, European Region, 2019

	New								Previously treated							
Country/area	cases with DST results to RIF		RR/MDR-TB cases		bacteriologically confirmed pulmonary TB cases		pulmonary TB cases		cases with DST results to RIF		RR/MDR-TB cases		bacteriologically confirmed pulmonary TB cases		pulmonary TB cases	
	N	(%)°	N	(%) ^d	N	(%)°	N	(%) ^f	N	(%)°	N	(%) ^d	N	(%)°	N	(%) ^f
EU/EEA																
Austria	192	(98.5)	2	(1.0)	195	(79.9)	244	(88.7)	12	(92.3)	1	(8.3)	13	(41.9)	31	(11.3)
Belgium ^k	437	(96.7)	9	(2.1)	452	(81.4)	555	(90.4)	40	(88.9)	3	(7.5)	45	(76.3)	59	(9.6)
Bulgaria	403	(73.4)	6	(1.5)	549	(58.8)	933	(87.5)	50	(74.6)	5	(10.0)	67	(50.4)	133	(12.5)
Croatia	1	(50.0)	0	(0.0)	2	(100.0)	2	(13.3)	10	(76.9)	1	(10.0)	13	(100.0)	13	(86.7)
Cyprus	47	(100.0)	0	(0.0)	47	(82.5)	57	(95.0)	1	(100.0)	0	(0.0)	1	(33.3)	3	(5.0)
Czechia	308	(91.4)	8	(2.6)	337	(82.8)	407	(95.5)	11	(78.6)	0	(0.0)	14	(73.7)	19	(4.5)
Denmark ^k	168	(98.8)	3	(1.8)	170	(83.3)	204	(91.5)	17	(100.0)	0	(0.0)	17	(89.5)	19	(8.5)
Estonia	101	(100.0)	16	(15.8)	101	(87.8)	115	(82.7)	20	(100.0)	10	(50.0)	20	(83.3)	24	(17.3)
Finland	121	(96.0)	2	(1.7)	126	(85.7)	147	(95.5)	3	(100.0)	0	(0.0)	3	(42.9)	7	(4.5)
France	20	(2.8)	20	(100.0)	726	(40.6)	1789	(89.9)	18	(20.7)	18	(100.0)	87	(43.5)	200	(10.1)
Germany	1752	(92.4)	29	(1.7)	1896	(82.9)	2 286	(91.4)	113	(80.7)	18	(15.9)	140	(65.1)	215	(8.6)
Greece	175	(79.2)	6	(3.4)	221	(63.3)	349	(91.8)	17	(89.5)	0	(0.0)	19	(61.3)	31	(8.2)
Hungary	243	(95.3)	7	(2.9)	255	(53.1)	480	(89.7)	24	(80.0)	5	(20.8)	30	(54.5)	55	(10.3)
Iceland	4	(100.0)	0	(0.0)	4	(57.1)	7	(100.0)	0	(400 5)	0	(4)	0	(04.0)	0	(0.0)
Ireland ^k	93	(94.9)	1	(1.1)	98	(85.2)	115	(91.3)	9	(100.0)	1	(11.1)	9	(81.8)	11	(8.7)
Italy	1706	(97.0)	34	(2.0)	1758	(87.3)	2 014	(93.5)	31	(29.0)	4	(12.9)	107	(75.9)	141	(6.5)
Latvia	-	-	-	_	-	-	-	-	-	_	-	-	-	-	-	-
Liechtenstein Lithuania	725	(100.0)	90	(12.4)	725	(90.4)	802	(81.7)	180	(100.0)	67	(37.2)	180	(100.0)	180	(10.2)
	725									(100.0)		(3/.2)		(100.0)		(18.3)
Luxembourg	16	(76.2)	0	(0.0)	21	(87.5)	24	(96.0)	0	-	0		0	(0.0)	1	(4.0)
Malta Netherlands	36 286	(97.3) (89.7)	0	(0.0)	37 319	(48.7) (77.6)	76 411	(100.0) (95.4)	13	(100.0)	0	(0.0)	13	(65.0)	20	(0.0)
Norway ^k	81	(92.0)	1	(1.2)	88	(88.0)	100	(91.7)	6	(100.0)	1	(16.7)	6	(66.7)	9	(8.3)
Poland	3 173	(91.5)	29	(0.9)	3 466	(77.3)	4 481	(88.3)	401	(87.2)	11	(2.7)	460	(77.4)	594	(11.7)
Portugal	465	(58.6)	3	(0.6)	794	(65.6)	1 210	(92.3)	39	(56.5)	2	(5.1)	69	(68.3)	101	(7.7)
Romania	5 887	(93.3)	113	(1.9)	6309	(80.2)	7 866	(78.1)	1702	(91.9)	189	(11.1)	1 852	(84.1)	2 201	(21.9)
Slovakia	79	(100.0)	1	(1.3)	79	(57.2)	138	(81.2)	21	(100.0)	4	(19.0)	21	(65.6)	32	(18.8)
Slovenia	78	(100.0)	0	(0.0)	78	(91.8)	85	(95.5)	4	(100.0)	0	(0.0)	4	(100.0)	4	(4.5)
Spain	596	(44.7)	8	(1.3)	1332	(75.9)	1754	(96.4)	23	(44.2)	0	(0.0)	52	(78.8)	66	(3.6)
Sweden	234	(99.2)	4	(1.7)	236	(90.4)	261	(98.5)	0	_	0	-	0	(0.0)	4	(1.5)
United Kingdom ^k	1906	(99.1)	22	(1.2)	1924	(75.9)	2 536	(92.7)	122	(96.8)	3	(2.5)	126	(62.7)	201	(7.3)
Subtotal EU/EEA	19 333	(86.5)	420	(2.2)	22 345	(75.9)	29 448	(87.1)	2 887	(85.7)	343	(11.9)	3 368	(77.0)	4 374	(12.9)
Non-EU/EEA																
Albania	26	(12.3)	2	(7.7)	211	(70.6)	299	(93.4)	3	(21.4)	2	(66.7)	14	(66.7)	21	(6.6)
Andorra	2	(50.0)	0	(0.0)	4	(100.0)	4	(100.0)	0	-	0	_	0	-		-
Armenia	233	(97.5)	38	(16.3)	239	(62.7)	381	(71.8)	66	(100.0)	27	(40.9)	66	(44.0)	150	(28.2)
Azerbaijan	1 911	(100.0)	219	(11.5)	1 911	(68.7)	2 783	(49.7)	2 183	(98.4)	533	(24.4)	2 219	(78.8)	2 817	(50.3)
Belarus	1 490	(100.0)	561	(37.7)	1 490	(94.1)	1 584	(74.9)	523	(100.0)	313	(59.8)	523	(98.5)	531	(25.1)
Bosnia and Herzegovina	306	(95.9)	1	(0.3)	319	(69.5)	459	(91.4)	36	(100.0)	0	(0.0)	36	(83.7)	43	(8.6)
Georgia	1360	(99.1)	165	(12.1)	1 372	(91.3)	1 502	(74.5)	433	(92.9)	139	(32.1)	466	(90.8)	513	(25.5)
Israel	105	(94.6)	9	(8.6)	111	(72.5)	153	(96.2)	0	-	0	-	0	-	6	(3.8)
Kazakhstan	5 687	(98.2)	1 534	(27.0)	5 789	(76.6)	7 562	(64.5)	3 250	(92.3)	1 446	(44.5)	3 520	(84.6)	4 161	(35.5)
Kyrgyzstan	2 375	(93.2)	700	(29.5)	2 549	(66.4)	3 836	(71.3)	1 003	(94.6)	603	(60.1)	1060	(68.7)	1 542	(28.7)
Monaco	-	-	-	_	-	-	-	-	-	_	-	-	-	-	-	-
Montenegro	62	(100.0)	0	(0.0)	62	(95.4)	65	(86.7)	8	(88.9)	0	(0.0)	9	(90.0)	10	(13.3)
North Macedonia	126	(100.0)	1	(0.8)	126	(86.9)	145	(89.5)	14	(100.0)	0	(0.0)	14	(82.4)	17	(10.5)
Republic of Moldova	1342	(96.3)	441	(32.9)	1 393	(70.2)	1 983	(66.8)	345	(43.8)	118	(34.2)	787	(80.0)	984	(33.2)
Russian Federation	26 189	(89.1)	9 246	(35.3)	29 389	(52.9)	55 532	(64.4)	24 287	(95.8)	17 199	(70.8)	25 362	(82.7)	30 649	(35.6)
San Marino	-	-	-	- (2.5)	-	-	-	-	-	-	-	-	-	-	-	-
Serbia	440	(84.3)	2	(0.5)	522	(66.2)	789	(89.7)	45	(84.9)	0	(0.0)	53	(58.2)	91	(10.3)
Serbia excluding Kosovo¹	226	(73.4)	2	(0.9)	308	(77.8)	396	(90.6)	16	(66.7)	0	(0.0)	24	(58.5)	41	(9.4)
Kosovo¹	214	(100.0)	0	(0.0)	214	(54.5)	393	(88.7)	29	(100.0)	0	(0.0)	29	(58.0)	50	(11.3)
Switzerland	193	(95.5)	5	(2.6)	202	(73.2)	276	(81.2)	24	(72.7)	4	(16.7)	33	(51.6)	64	(18.8)
Tajikistan	2 318	(100.0)	672	(29.0)	2 318	(65.5)	3 541	(84.1)	510	(100.0)	206	(40.4)	510	(76.3)	668	(15.9)
	4 797	(88.0)	113	(2.4)	5 451	(79.5)	6 857	(92.3)	381	(82.1)	37	(9.7)	464	(80.6)	576	(7.7)
Turkey	-	-	-	-	- 40.000	(70.6)	40 (75	(71.0)	- - -	(05.7)	2 400	(42.9)	6 090	(00 ()	7.557	(20.0)
Turkmenistan												1/17 01				(29.0)
Turkmenistan Ukraine	12 632	(96.9)	3 438	(27.2)	13 039	(70.6)	18 475	(71.0)	5 827	(95.7)	2 498			(80.6)	7 557	
Turkmenistan Ukraine Uzbekistan	5 249	(100.0)	615	(11.7)	5 249	(57.7)	9 099	(75.8)	2 145	(100.0)	467	(21.8)	2 145	(73.7)	2 909	(24.2)
Turkmenistan Ukraine																

Note: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are 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.
RIF: rifampicin.
RR/MDR: rifampicin-resitant and 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 and areas. For EU/EEA countries: culture-positive OR microscopy-positive and nucleic acid amplification test-positive cases.
**Pulmonary TB cases with unknown previous TB treatment history are excluded.
**Proportion of bacteriologically confirmed pulmonary TB cases with DST results with the respective previous TB treatment history.
**All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

			Total	b				
cases wi results		RR/MDF	R-TB cases	Al bacteriol confii pulmon cas	ogically rmed ary TB	All pulmo case	es	Country/area
N	(%) ⁸	N	(%) ^h	N	(%) ⁱ	N	(%) ^j	
								EU/EEA
204	(98.1)	3	(1.5)	208	(75.6)	275	(58.0)	Austria
477	(96.0)	12	(2.5)	497	(80.9)	614	(63.4)	-
453	(73.5)	11	(2.4)	616	(57.8)	1 066		Bulgaria
11	(73.3)	1	(9.1)	15	(100.0)	15		Croatia
48	(100.0)	0	(0.0)	48	(80.0)	60		Cyprus
319	(90.9)	8	(2.5)	351	(82.4)	426		Czechia
185	(98.9)	3	(1.6)	187	(83.9)	223	(92.7)	Denmark ^k Estonia
121 124	(100.0) (96.1)	26	(21.5)	121 129	(87.1) (83.8)	139 154		Finland
38	(4.7)	38	(100.0)	813	(40.9)	1989		France
1865	(91.6)	47	(2.5)	2 036	(81.4)	2 501		Germany
192	(80.0)	6	(3.1)	240	(63.2)	380	(82.8)	Greece
267	(93.7)	12	(4.5)	285	(53.3)	535		Hungary
4	(100.0)	0	(0.0)	4	(57.1)	7		Iceland
102	(95.3)	2	(2.0)	107	(84.9)	126		Ireland ^k
-	-	38	(2.2)	269	(70.4)	382	(17.7)	Italy
-	-	-	-	-	-	-	-	Latvia
-	-	-	-	-	-	-	-	Liechtenstein
905	(100.0)	157	(17.3)	905	(92.2)	982	(92.8)	Lithuania
16	(76.2)	0	(0.0)	21	(84.0)	25	(50.0)	Luxembourg
36	(97.3)	0	(0.0)	37	(48.7)	76	(77.6)	Malta
299	(90.1)	6	(2.0)	332	(77.0)	431	(56.8)	Netherlands
87	(92.6)	2	(2.3)	94	(86.2)	109	(66.1)	,
3 574	(91.0)	40	(1.1)	3 926	(77.4)	5 075	(95.4)	Poland
504	(58.4)	5	(1.0)	863	(65.8)	1 311		Portugal
7 589	(93.0)	302	(4.0)	8 161	(81.1)	10 067		Romania
100	(100.0)	5	(5.0)	100	(58.8)	170	(79.4)	
82	(100.0)	0	(0.0)	1204	(92.1)	89	(88.1)	Slovenia
619 234	(44.7) (99.2)	8	(1.3) (1.7)	1384	(76.0) (89.1)	1820		Spain Sweden
2 028	(98.9)	25	(1.7)	2 050	(74.9)	265 2 737		United Kingdom ^k
22 220	(86.4)	763	(3.4)	25 713	(76.0)	33 822		Subtotal EU/EEA
	(0011)	100	(5.1)		(, 0.0)	55 522	(00.0)	Non-EU/EEA
29	(12.9)	4	(13.8)	225	(70.3)	320	(77.7)	Albania
2	(50.0)	0	(0.0)	4	(100.0)	4		Andorra
299	(98.0)	65	(21.7)	305	(57.4)	531	(79.3)	Armenia
4 094	(99.1)	752	(18.4)	4 130	(73.8)	5 600	(85.7)	Azerbaijan
2 013	(100.0)	874	(43.4)	2 013	(95.2)	2 115	(80.9)	Belarus
342	(96.3)	1	(0.3)	355	(70.7)	502	(86.6)	Bosnia and Herzegovina
1793	(97.6)	304	(17.0)	1 838	(91.2)	2 015		Georgia
105	(94.6)	9	(8.6)	111	(69.8)	159		Israel
8 937	(96.0)	2 980	(33.3)	9 309	(79.4)	11 723		Kazakhstan
3 378	(93.6)	1 303	(38.6)	3 609	(67.1)	5 378		Kyrgyzstan
70	(00.4)	-	(0.0)	-	(017)	7.	(01 5)	Monaco
70	(98.6)	0	(0.0)	71	(94.7)	75		Montenegro
140	(100.0)	1	(0.7)	140	(86.4)	162		North Macedonia
1 687 50 476	(77.4) (92.2)	559 26 445	(33.1) (52.4)	2 180 54 751	(73.5) (63.5)	2 967 86 181		Republic of Moldova Russian Federation
50 476	(92.2)	20 445	(32.4)	54 /51 -	(03.3)	0	(02.9)	San Marino
485	(84.3)	2	(0.4)	575	(65.3)	880	(74.6)	
242	(72.9)	2	(0.8)	332	(76.0)	437	(77.1)	Serbia excluding Kosovo ¹
243	(100.0)	0	(0.0)	243	(54.9)	443	(72.4)	Kosovo¹
217	(92.3)	9	(4.1)	235	(69.1)	340		Switzerland
2 828	(100.0)	878	(31.0)	2 828	(67.2)	4 209		Tajikistan
5 178	(87.5)	150	(2.9)	5 915	(79.6)	7 433		Turkey
-	-	-	-	-	-	-	-	Turkmenistan
18 459	(96.5)	5 936	(32.2)	19 129	(73.5)	26 032	(91.2)	Ukraine
7 394	(100.0)	1 082	(14.6)	7394	(61.6)	12 008	(64.0)	Uzbekistan
107 926	(93.8)	41 354	(38.3)	115 117	(68.3)	168 634		Subtotal non-EU/EEA
130 146	(92.4)	42 117	(32.4)	140 830	(69.6)	202 456		Total European Region
115 604	(93.8)	41 824	(36.2)	123 204	(69.0)	178 446	(81.7)	Subtotal 18 HPCs

Proportion of bacteriologically confirmed pulmonary RR/MDR-TB cases with DST results and the respective previous TB treatment history.
Proportion of all pulmonary TB cases with the respective previous TB treatment history.
Proportion of all pulmonary TB cases. For EU/EEA, excluding the cases with unknown previous TB treatment history.
Proportion of all bacteriologically confirmed pulmonary TB cases with DST results. For EU/EEA, excluding the cases with unknown previous TB treatment history.
Proportion of all bacteriologically confirmed pulmonary RR/MDR-TB cases with DST results. For EU/EEA, excluding the cases with unknown previous TB treatment history.
Proportion of all pulmonary TB cases. For EU/EEA, excluding the cases with unknown previous TB treatment history.
Proportion of all TB cases.
Previous TB history is defined by previous diagnosis.
All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

Table 13. Drug resistance in all laboratory-confirmed TB cases, EU/EEA, 2019

Country	Source of data	Coverage	Laboratory-co TB case		Cases with DS (at least and RI	INH	Cases resis any anti-TE		MDR-TB	cases	Reporting completeness
			N	(%)	N	(%)	N	(%)	N	(%)	
EU/EEA											
Austria	TESSy	National	342	(72.2)	331	(96.8)	29	(8.8)	4	(1.2)	Υ
Belgium	TESSy	National	737	(76.1)	707	(95.9)	46	(6.5)	15	(2.1)	Υ
Bulgaria	TESSy	National	626	(46.6)	454	(72.5)	35	(7.7)	11	(2.4)	Υ
Croatia	TESSy	National	253	(83.5)	219	(86.6)	9	(4.1)	2	(0.9)	Υ
Cyprus	TESSy	National	53	(76.8)	53	(100.0)	4	(7.5)	1	(1.9)	Υ
Czechia	TESSy	National	375	(80.8)	338	(90.1)	35	(10.4)	8	(2.4)	Υ
Denmark	TESSy	National	228	(81.1)	225	(98.7)	7	(3.1)	4	(1.8)	Υ
Estonia	TESSy	National	128	(85.3)	127	(99.2)	49	(38.6)	27	(21.3)	Υ
Finland	TESSy	National	177	(78.7)	169	(95.5)	19	(11.2)	2	(1.2)	Υ
France	TESSy	National	1807	(35.3)	75	(4.2)	75	(100.0)	75	(100.0)	Υ
Germany	TESSy	National	3 701	(77.2)	3 336	(90.1)	387	(11.6)	87	(2.6)	Υ
Greece	TESSy	National	283	(61.7)	225	(79.5)	40	(17.8)	6	(2.7)	Υ
Hungary	TESSy	National	287	(52.0)	259	(90.2)	37	(14.3)	12	(4.6)	Υ
Iceland	TESSy	National	8	(61.5)	8	(100.0)		(0.0)	0	(0.0)	Υ
Ireland	TESSy	National	197	(74.1)	175	(88.8)	26	(14.9)	3	(1.7)	Υ
Italy		-	_	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Liechtenstein	-	-	_	-	-	-	-	-	-	-	-
Lithuania	TESSy	National	935	(88.4)	935	(100.0)	299	(32.0)	159	(17.0)	Υ
Luxembourg	TESSy	National	40	(80.0)	32	(80.0)	10	(31.3)	1	(3.1)	Υ
Malta	TESSy	National	48	(49.0)	46	(95.8)	2	(4.3)	0	(0.0)	Υ
Netherlands	TESSy	National	507	(66.8)	451	(89.0)	35	(7.8)	7	(1.6)	Υ
Norway	TESSy	National	137	(83.0)	130	(94.9)	20	(15.4)	2	(1.5)	Υ
Poland	TESSy	National	4 054	(76.2)	3 690	(91.0)	255	(6.9)	41	(1.1)	Υ
Portugal	TESSy	National	998	(56.4)	572	(57.3)	67	(11.7)	5	(0.9)	Υ
Romania	TESSy	National	8 499	(73.1)	7 694	(90.5)	646	(8.4)	304	(4.0)	Υ
Slovakia	TESSy	National	113	(52.8)	113	(100.0)	9	(8.0)	5	(4.4)	Υ
Slovenia	TESSy	National	93	(92.1)	93	(100.0)	2	(2.2)	0	(0.0)	Υ
Spain	TESSy	National	2 797	(67.4)	811	(29.0)	89	(11.0)	9	(1.1)	Υ
Sweden	TESSy	National	399	(83.3)	396	(99.2)	51	(12.9)	7	(1.8)	Y
United Kingdom	TESSy	National	3 185	(62.1)	3 148	(98.8)	355	(11.3)	37	(1.2)	Υ
Total EU/EEA	-	_	31 007	(62.3)	24 812	(80.0)	2 638	(10.6)	834	(3.4)	_

Note: 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.

DST: drug-susceptibility testing.

INH: isoniazid.

MDR-TB: multidrug-resistant tuberculosis.

NRL: national reference laboratory.

RIF: rifampicin.

TESSy: The European Surveillance System.

TME: WHO Tuberculosis Monitoring and Evaluation platform.

Y: yes.

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

Cases with DST results for at least rifampicin and isoniazid that have any resistance to isoniazid, rifampicin, ethambutol, streptomycin, ciprofloxacin, levofloxacin, moxifloxacin, ofloxacin, amikacin, capreomycin, kanamycin or pyrazinamide expressed as a percentage of cases with DST results available for at least isoniazid and rifampicin.

C 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 results confirmed by a supranational reference laboratory.

Table 14. XDR-TB cases among bacteriologically confirmed pulmonary MDR-TB cases, European Region, 2019

Country/area	Source of data	Coverage	Bacteriolog confirmed pu MDR-TB c	lmonary	Cases with D for a fluoroqui and any sec injectable	ny nolone cond-line	XDR-TB o	ases	Reporting completeness ^b
			N	(%)	N	(%)	N	(%)	
EU/EEA									
Austria	TESSy	National	3	(1.2)	3	(100.0)	0	(0.0)	Υ
Belgium	TESSy	National	12	(2.2)	11	(91.7)	0	(0.0)	Υ
Bulgaria	TESSy	National	11	(2.5)	11	(100.0)	0	(0.0)	Υ
Croatia	TESSy	National	2	(1.1)	1	(50.0)	1	(100.0)	Υ
Cyprus	TESSy	National	1	(2.0)	1	(100.0)	0	(0.0)	Υ
Czechia	TESSy	National	8	(2.5)	3	(37.5)	0	(0.0)	Υ
Denmark	TESSy	National	3	(1.6)	3	(100.0)	0	(0.0)	Υ
Estonia	TESSy	National	26	(21.3)	24	(92.3)	4	(16.7)	Υ
Finland	TESSy	National	2	(1.6)	1	(50.0)	0	(0.0)	Υ
France	TESSy	National	60	(100.0)	59	(98.3)	8	(13.6)	Υ
Germany	TESSy	National	66	(2.6)	49	(74.2)	7	(14.3)	Υ
Greece	TESSy	National	6	(3.0)	3	(50.0)	0	(0.0)	Υ
Hungary	TESSy	National	12	(4.7)	5	(41.7)	3	(60.0)	Υ
Iceland	TESSy	National	0	-	0	-	0	-	Υ
Ireland	TESSy	National	2	(1.6)	2	(100.0)	0	(0.0)	Υ
Italy	NRL-TME	Partial	38	(2.2)	31	(81.6)	2	(6.5)	N
Latvia	-	-	-	-	-	-	-	-	-
Liechtenstein	-	-	-	-	-	-	-	-	-
Lithuania	TESSy	National	157	(17.3)	157	(100.0)	57	(36.3)	Υ
Luxembourg	TESSy	National	1	(3.8)	0	(0.0)	0	-	Υ
Malta	TESSy	National	0	-	0	-	0	-	Υ
Netherlands	TESSy	National	6	(2.0)	6	(100.0)	1	(16.7)	Υ
Norway	TESSy	National	2	(2.3)	1	(50.0)	0	(0.0)	Υ
Poland	TESSy	National	40	(1.1)	31	(77.5)	4	(12.9)	Υ
Portugal	TESSy	National	5	(1.0)	2	(40.0)	0	(0.0)	Υ
Romania	TESSy	National	302	(4.1)	123	(40.7)	38	(30.9)	Υ
Slovakia	TESSy	National	5	(4.7)	5	(100.0)	0	(0.0)	Υ
Slovenia	TESSy	National	0	-	0	-	0	-	Υ
Spain	TESSy	National	8	(1.3)	2	(25.0)	0	(0.0)	Υ
Sweden	TESSy	National	4	(1.5)	4	(100.0)	0	(0.0)	Υ
United Kingdom	TESSy	National	27	(1.3)	25	(92.6)	1	(4.0)	Υ
Subtotal EU/EEA	-	-	809	(3.5)	563	(69.6)	126	(22.4)	-
Non-EU/EEA									
Albania	NRL-TME	National	2	(6.9)	0	(0.0)	0	-	Υ
Andorra	NRL-TME	National	0	(0.0)	0	-	0	-	Υ
Armenia	NRL-TME	National	56	(18.9)	22	(39.3)	12	(54.5)	Υ
Azerbaijan	NRL-TME	National	414	(11.0)	367	(88.6)	89	(24.3)	Υ
Belarus	NRL-TME	National	808	(40.1)	807	(99.9)	185	(22.9)	Υ
Bosnia and Herzegovina	-	-	-	(0.0)	-	-	-	-	N
Georgia	NRL-TME	National	229	(16.2)	203	(88.6)	31	(15.3)	Υ
Israel	NRL-TME	National	9	(8.6)	9	(100.0)	0	(0.0)	Υ
Kazakhstan	-	-	-	-	-	-	-	-	N
Kyrgyzstan	NRL-TME	National	1 097	(33.1)	887	(80.9)	93	(10.5)	Υ
Monaco	-	-	-	-	-	-	-	-	N
Montenegro	NRL-TME	National	0	(0.0)	0	-	0	-	Υ
North Macedonia	NRL-TME	National	1	(0.8)	0	(0.0)	0	-	Υ
Republic of Moldova	NRL-TME	National	441	(28.7)	441	(100.0)	49	(11.1)	Υ
Russian Federation	NRL-TME	National	24 443	(48.4)	23 646	(96.7)	5 559	(23.5)	Υ
San Marino	-	National	0	-	0	-	0	-	Υ
Serbia	-	-	-	-	-	-	-	-	-
Serbia excluding Kosovo¹	-	-	-	-	-	-	-	-	N
Kosovo¹	-	-	-	-	-	-	-	-	N
Switzerland	NRL-TME	National	7	(3.2)	7	(100.0)	0	(0.0)	Υ
Tajikistan	NRL-TME	National	308	(15.4)	287	(93.2)	75	(26.1)	Υ
Turkey	NRL-TME	National	121	(2.4)	76	(62.8)	8	(10.5)	Υ
Turkmenistan	-	-	-	-	-	-	-	-	N
Ukraine	NRL-TME	National	4 490	(24.3)	4 490	(100.0)	853	(19.0)	Υ
Uzbekistan	NRL-TME	National	978	(13.2)	515	(52.7)	179	(34.8)	Υ
Subtotal non-EU/EEA	-	-	33 404	(34.5)	31 757	(95.1)	7 133	(22.5)	-
Total European Region	-	-	34 213	(28.5)	32 320	(94.5)	7 259	(22.5)	-
Subtotal 18 HPCs	-	_	33 881	(32.4)	32 056	(94.6)	7 232	(22.6)	-

Note: WHO European Region 18 TB HPCs 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.
N: no.
NRL: national reference laboratory.
TESSy: The European Surveillance System.
TME: WHO Tuberculosis Monitoring and Evaluation platform.

XDR-TB: extensively drug-resistant tuberculosis.

ADK-16: extensively drug-resistant quoritations.

Y: yes.

For EU/EEA countries, laboratory-confirmed cases are culture-positive OR microscopy-positive and nucleic acid amplification test-positive cases. For non-EU/EEA countries and areas, cases with positive identification for Mycobacterium 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 results confirmed by a supranational reference laboratory.

All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

Table 15. XDR-TB cases among all laboratory-confirmed MDR-TB cases, European Region, 2019

Country/area	TB cases with first-line DST ^b	MDR-TB among all TB of first-line DST	ases with	MDR-TB with secon	nd-line DST ^c	XDR-TB case	5
	N	N	(%)	N	(%)	N	(%)
EU/EEA							
Austria	331	4	(1.2)	4	(100.0)	0	(0.0)
Belgium	707	15	(2.1)	14	(93.3)	0	(0.0)
Bulgaria	454	11	(2.4)	11	(100.0)	0	(0.0)
Croatia	219	2	(0.9)	1	(50.0)	1	(100.0)
Cyprus	53	1	(1.9)	1	(100.0)	0	(0.0)
Czechia	338	8	(2.4)	3	(37.5)	0	(0.0)
Denmark Estonia	225	4	(1.8)	4	(100.0)	0	(0.0)
Finland	127 169	26	(20.5) (1.2)	24	(92.3) (50.0)	0	(16.7) (0.0)
France	75	75	(100.0)	74	(98.7)	9	(12.2)
Germany	3 336	86	(2.6)	63	(73.3)	8	(12.2)
Greece	225	6	(2.7)	3	(50.0)	0	(0.0)
Hungary	259	12	(4.6)	5	(41.7)	3	(60.0)
Iceland	8	0	(0.0)	0	(+1.7)	0	(00.0)
Ireland	175	3	(1.7)	3	(100.0)	0	(0.0)
Italy		_	(11,7)	_	(100.0)	_	(0.0)
Latvia	_	-	_	-	_	-	_
Liechtenstein	-	-	_	-	-	-	-
Lithuania	935	159	(17.0)	159	(100.0)	58	(36.5)
Luxembourg	32	1	(3.1)	0	(0.0)	0	(50.5)
Malta	46	0	(0.0)	0	-	0	-
Netherlands	451	7	(1.6)	7	(100.0)	1	(14.3)
Norway	130	2	(1.5)	1	(50.0)	0	(0.0)
Poland	3 690	41	(1.1)	32	(78.0)	5	(15.6)
Portugal	572	5	(0.9)	2	(40.0)	0	(0.0)
Romania	7 694	304	(4.0)	123	(40.5)	38	(30.9)
Slovakia	113	5	(4.4)	5	(100.0)	0	(0.0)
Slovenia	93	0	(0.0)	0	-	0	-
Spain	811	9	(1.1)	2	(22.2)	0	(0.0)
Sweden	396	7	(1.8)	7	(100.0)	0	(0.0)
United Kingdom	3 148	37	(1.2)	35	(94.6)	1	(2.9)
Subtotal EU/EEA	24 812	832	(3.4)	584	(70.2)	128	(21.9)
Non-EU/EEA							
Albania	29	2	(6.9)	0	-	0	-
Andorra	2	0	(0.0)	0	-	0	-
Armenia	296	56	(18.9)	22	(39.3)	12	(54.5)
Azerbaijan	3 757	414	(11.0)	367	(88.6)	89	(24.3)
Belarus	2 013	808	(40.1)	807	(99.9)	185	(22.9)
Bosnia and Herzegovina	242	0	(0.0)	-	(22.6)	-	(45.0)
Georgia	1 412	229	(16.2)	203	(88.6)	31	(15.3)
Israel	105	9	(8.6)	9	(100.0)	0	(0.0)
Kazakhstan	2 210	1 097	(22.4)	- 007	(00.0)	- 02	(10.5)
Kyrgyzstan Monaco	3 310	1 097	(33.1)	887	(80.9)	93	(10.5)
Montenegro	61	0	(0.0)	0		0	_
North Macedonia	120	1	(0.0)	0	(0.0)	0	_
Republic of Moldova	1539	441	(28.7)	441	(100.0)	49	(11.1)
Russian Federation	50 476	24 443	(48.4)	23 646	(96.7)	5 559	(23.5)
San Marino	0	27 773	(40.4)	25 040	(20.7)	-	(23.3)
Serbia	242	2	(0.8)	0	(0.0)	-	_
Serbia excluding Kosovo ¹	242	2	(0.8)	0	(0.0)	-	_
Kosovo¹	-	-	-	-	-	-	_
Switzerland	216	7	(3.2)	7	(100.0)	0	(0.0)
Tajikistan	2 002	308	(15.4)	287	(93.2)	75	(26.1)
Turkey	5 087	121	(2.4)	76	(62.8)	8	(10.5)
Turkmenistan	-	-	-	-	-	-	_
Ukraine	18 459	4 490	(24.3)	4 490	(100.0)	853	(19.0)
Uzbekistan	7 394	978	(13.2)	515	(52.7)	179	(34.8)
Subtotal non-EU/EEA	96 762	33 406	(34.5)	31 757	(95.1)	7 133	(22.5)
Total European Region	121 574	34 238	(28.2)	32 341	(94.5)	7 261	(22.5)
Subtotal 18 HPCs	104 955	33 885	(32.3)	32 058	(94.6)	7 233	(22.6)

Note: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are 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 and areas, cases with positive identification for Mycobacterium tuberculosis complex confirmed by culture and/or line probe assay; for EU/EEA countries, culture-positive OR microscopy-positive and nucleic acid amplification test-positive cases.

**First-line DST - drug-susceptibility testing for at least two main first-line anti-TB drugs; isoniazid and rifampicin.

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

**All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

Table 16. RR/MDR-TB and XDR-TB cases enrolled to treatment, European Region, 2019

Country/area	Total number of RR/MDR-TB cases detected	RR/MDR-TB cases er treatment ^{ab}	rolled to	Total number of XDR-TB cases detected	XDR-TB cases enrolled to treatment ^{ab}		
	N	N	(%)	N	N	(%	
EU/EEA							
Austria	4	4	(100.0)	0	0	-	
Belgium	15	14	(93.3)	0	0	-	
Bulgaria	11	10	(90.9)	0	0	-	
Croatia	2	2	(100.0)	1	1	(100.0)	
Cyprus	1	1	(100.0)	0	0	-	
Czechia	8	6	(75.0)	0	0	-	
Denmark	4	4	(100.0)	0	0	-	
Estonia	26	24	(92.3)	4	4	(100.0)	
Finland	2	2	(100.0)	0	0	-	
France	75	75	(100.0)	9	9	(100.0)	
Germany	86	85	(98.8)	8	8	(100.0)	
Greece	6	5	(83.3)	0	0	-	
Hungary	12	12	(100.0)	3	3	(100.0)	
Iceland	0	0	_	0	0	-	
Ireland	3	3	(100.0)	0	0	-	
Italy	62	-	-	-	-	-	
Latvia	-	-	_	_	-	_	
Liechtenstein	_	-	-	-	-	-	
Lithuania	159	159	(100.0)	58	58	(100.0)	
Luxembourg	1	1	(100.0)	0	0	(.00.0)	
Malta	0	0	-	0	0	_	
Netherlands	7	6	(85.7)	1	1	(100.0)	
Norway	2	2	(100.0)	0	0	(100.0)	
Poland	41	41	(100.0)	5	5	(100.0)	
Portugal	5	5	(100.0)	0	0	(100.0)	
Romania	304	297	(97.7)	38	37	(97.4)	
Slovakia	5	5	(100.0)	0	0	(27.4)	
Slovenia	0	0	(100.0)	0	0	_	
Spain	9	9	(100.0)	0	0	_	
Sweden	7	7	(100.0)	0	0	_	
United Kingdom	37	36	(97.3)	1	1	(100.0)	
Subtotal EU/EEA	894	815	(98.0)	128	127	(99.2)	
Non-EU/EEA	074	015	(70.0)	120	12)	(77.2)	
Albania	6	2	(33.3)	0	0	_	
Andorra	0	0	(22.2)	0	0	_	
Armenia	65	65	(100.0)	12	12	(100.0)	
Azerbaijan	1 031	815	(79.0)	197	186	(94.4)	
Belarus	1 182	1 059	(89.6)	344	287	(83.4)	
	1 102		(0.0)		0	(03.4)	
Bosnia and Herzegovina		0	(84.6)	0		(77.4)	
Georgia	319 10	270 10	(100.0)	31	24		
Israel Kazakhstan		5 404			403	(100.0)	
	5 073		(106.5)	375		(107.5)	
Kyrgyzstan	1359	1 173	(86.3)	109	97	(89.0)	
Monaco	-		-	-	_	_	
Montenegro	0	0	(400.0)	0	0	_	
North Macedonia	2	2	(100.0)	0	0		
Republic of Moldova	655	559	(85.3)	49	37	(75.5)	
Russian Federation	27 207	24 566	(90.3)	5 699	6 010	(105.5)	
San Marino	0	0	(()	0	0	_	
Serbia	2	3	(150.0)	0	0	-	
Serbia excluding Kosovo¹	2	3	(150.0)	0	0	-	
Kosovo¹	0	0	(40.0.0)	0	0	-	
Switzerland	12	12	(100.0)	0	0	-	
Tajikistan	878	588	(67.0)	75	68	(90.7)	
Turkey	158	155	(98.1)	8	8	(100.0)	
Turkmenistan	649	649	(100.0)	55	55	(100.0)	
Ukraine	6 051	7 265	(120.1)	895	1 540	(172.1)	
Uzbekistan	2 060	2 060	(100.0)	602	602	(100.0)	
Subtotal non-EU/EEA	46 720	44 657	(95.6)	8 452	9 330	(110.4)	
Total European Region	47 614	45 472	(95.5)	8 580	9 457	(110.2)	
Subtotal 18 HPCs	47 187	45 118	(95.6)	8 551	9 428	(110.3)	

Note: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are 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. HPC: high-priority countries.

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

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.

All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

Table 17. New and relapse TB cases with HIV infection, European Region, 2019

Country/area	New and relapse TB cases ^b	TB cases with HIV	status	HIV-positive TB cas	HIV-positive cases started ART		
Country/area	N N	N	(%)	N N	(%)	N	(%
EU/EEA							
Austria	-	-	-	-	-	-	-
Belgium ^d	895	463	(51.7)	36	(7.8)	-	-
Bulgaria	1 288	1 065	(82.7)	1	(0.1)	1	(100.0)
Croatia	297	4	(1.3)	0	(0.0)	-	-
Cyprus	66	41	(62.1)	1	(2.4)	-	-
Czechia	458	267	(58.3)	8	(3.0)	-	-
Denmark ^d	260	208	(80.0)	5	(2.4)	-	-
Estonia	147	138	(93.9)	16	(11.6)	14	(87.5)
Finland	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-
Greece	434	388	(89.4)	19	(4.9)	-	-
Hungary	528	31	(5.9)	3	(9.7)	-	-
Iceland	13	11	(84.6)	0	(0.0)	-	-
Ireland ^d	247	93	(37.7)	9	(9.7)	6	(66.7)
Italy	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-
Liechtenstein	-	-	-	-	-	-	-
Lithuania	1 006	968	(96.2)	25	(2.6)	-	-
Luxembourg	48	35	(72.9)	0	(0.0)	-	-
Malta	-	-	-	-	-	-	-
Netherlands	746	566	(75.9)	20	(3.5)	11	(55.0)
Norway ^d	153	119	(77.8)	4	(3.4)	-	-
Poland	-	-	-	-	-	-	-
Portugal	1720	1166	(67.8)	123	(10.5)	-	-
Romania	11 083	9 574	(86.4)	179	(1.9)	161	(89.9)
Slovakia	214	148	(69.2)	4	(2.7)	3	(75.0)
Slovenia	98	70	(71.4)	1	(1.4)	1	(100.0)
Spain	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-
United Kingdom ^d	-	-	-	-	-	-	-
Subtotal EU/EEA	19 701	15 355	(77.9)	454	(3.0)	197	(85.7)
Non-EU/EEA							
Albania	412	368	(89.3)	8	(2.2)	8	(100.0)
Andorra	5	0	(0.0)	-	-	-	-
Armenia	621	591	(95.2)	62	(10.5)	62	(100.0)
Azerbaijan	4 823	4 534	(94.0)	71	(1.6)	71	(100.0)
Belarus	2 207	2 207	(100.0)	157	(7.1)	149	(94.9)
Bosnia and Herzegovina	580	18	(3.1)	-	-	-	-
Georgia	2 169	1 841	(84.9)	33	(1.8)	33	(100.0)
Israel	217	217	(100.0)	8	(3.7)	8	(100.0)
Kazakhstan	12 501	12 375	(99.0)	666	(5.4)	637	(95.6)
Kyrgyzstan	6 138	5 810	(94.7)	131	(2.3)	94	(71.8)
Monaco	-	-	-	-	-	-	-
Montenegro	80	76	(95.0)	0	(0.0)	0	-
North Macedonia	199	152	(76.4)	1	(0.7)	1	(100.0)
Republic of Moldova	2 809	2 792	(99.4)	295	(10.6)	260	(88.1)
Russian Federation	73 328	70 610	(96.3)	16 453	(23.3)	11 761	(71.5)
San Marino	0	-	-	-	-	-	-
Serbia	501	39	(7.8)	3	(7.7)	3	(100.0)
Serbia excluding Kosovo¹	501	39	(7.8)	3	(7.7)	3	(100.0)
Kosovo¹	_	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	-
Tajikistan	5 755	5 660	(98.3)	167	(3.0)		(76.0)
Turkey	11 247	8 814	(78.4)	104	(1.2)	84	(80.8)
Turkmenistan	_	-	-	-	-	-	-
Ukraine	25 379	25 210	(99.3)	5 800	(23.0)	4 860	(83.8)
Uzbekistan	16 272	16 272	(100.0)	647	(4.0)	481	(74.3)
Subtotal non-EU/EEA	165 243	157 586	(95.4)	24 606	(15.6)	18 639	(75.7)
Total European Region	184 944	172 941	(93.5)	25 060	(14.5)	18 836	(75.8)
Subtotal 18 HPCs	176 773	168 461	(95.3)	24 807	(14.7)	18 795	(75.9)

Note: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region TB HPCs are presented in italics.

ART: antiretroviral therapy.
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.

*Casta from the WHO Tuberculosis Monitoring and Evaluation platform.

*Previous TB history is defined by previous diagnosis.

*All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

Table 18. All TB cases with HIV infection, EU/EEA, 2019

Country	All TB cases ^a	TB cases	with known HIV status	HIV-pos	itive TB cases
Country	N	N	(%)	N	(%)
EU/EEA					
Austria	-	-	-	-	-
Belgium	968	505	(52.2)	44	(8.7)
Bulgaria	1344	1 104	(82.1)	1	(0.1)
Croatia	303	5	(1.7)	0	(0.0)
Cyprus	69	43	(62.3)	2	(4.7)
Czechia	464	271	(58.4)	8	(3.0)
Denmark	281	227	(80.8)	7	(3.1)
Estonia	150	141	(94.0)	16	(11.3)
Finland	-	_	-	-	-
France	-	-	-	-	-
Germany	-	_	-	_	-
Greece	459	408	(88.9)	19	(4.7)
Hungary	552	32	(5.8)	3	(9.4)
Iceland	13	11	(84.6)	0	(0.0)
Ireland	266	106	(39.8)	10	(9.4)
Italy	_	_	_	_	_
Latvia	_	_	-	-	_
Liechtenstein	_	-	-	-	-
Lithuania	1 058	1 020	(96.4)	27	(2.6)
Luxembourg	50	37	(74.0)	0	(0.0)
Malta	_	_	-	_	-
Netherlands	759	576	(75.9)	21	(3.6)
Norway	165	130	(78.8)	6	(4.6)
Poland	-	_	-	_	-
Portugal	1771	1204	(68.0)	133	(11.0)
Romania	11 633	10 047	(86.4)	200	(2.0)
Slovakia	214	148	(69.2)	4	(2.7)
Slovenia	101	73	(72.3)	1	(1.4)
Spain	-	-	-	-	-
Sweden	_	_	_	_	-
United Kingdom	_	_	_	-	-
Total EU/EEA	20 620	16 088	(78.0)	502	(3.1)

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

a Countries are only included in this analysis if the total number of cases tested for HIV is more than zero.

Table 19. TB in prisons, European Region, 2019

Country/area	Prison population ^b	New and	relapse TB cases (all forms) notified in prisons	Proportion of new and relapse TB cases in prisons out of the country total	TB relative risk in prisons ^b
	N	N	Rate per 100 000 prisoners	%	prisons
EU/EEA					
Austria	-	-	-	-	-
Belgium	10 471	19	181	(2.1)	23.2
Bulgaria	6 637	7	105	(0.5)	5.7
Croatia	-	-	-	-	-
Cyprus	-	-	-	-	-
Czechia	21 048	8	38	(1.7)	8.8
Denmark	-	2	-	(0.8)	-
Estonia	2 500	2	80	(1.4)	7.2
Finland	-	-	-	-	-
France	-	-	-	-	-
Germany	-	-	-	-	-
Greece	-	-	-	-	_
Hungary	-	11	-	(2.1)	-
Iceland	-	-	-	-	_
Ireland	7 170	0	0	(0.0)	0.0
Italy	-	-	-	-	_
Latvia	-	-	-	-	-
Liechtenstein	-	-	-	-	-
Lithuania	8 776	18	205	(1.8)	5.7
Luxembourg	750	1	133	(2.1)	17.1
Malta	-	-	-	-	
Netherlands	31 456	16	51	(2.1)	11.8
Norway	-	0	-	(0.0)	-
Poland	74 564	160	215	(3.2)	16.4
Portugal	12 793	40	313	(2.3)	18.7
Romania	20 114	109	542	(1.0)	9.5
Slovakia	7 876	6	76	(2.8)	19.4
Slovenia	4 060	0	0	(0.0)	0.0
Spain		_	-	(0.0)	-
Sweden	_	_	_	_	_
United Kingdom	-	_	-	_	_
Subtotal EU/EEA ^c	208 215	386	185	(1.7)	15.8
Non EU/EEA	200 215	500	105	(1-17)	15.0
Albania	6 200	6	97	(1.5)	6.8
Andorra	-	0	-	(1.5)	-
Armenia	2 626	2	76	(0.3)	3.6
Azerbaijan	18 354	204	1 111	(4.2)	23.2
Belarus	32 500	60	185	(2.7)	7.9
	J2 J00	-	-	(2.7)	7.9
Bosnia and Herzegovina Georgia	10 000	28	280	(1.3)	5.2
Israel	10 000	20	200	(1.5)	J.2 -
	20.402				
Kazakhstan	29 403	243	826	(1.9)	12.3
Kyrgyzstan	7260	164	2 259	(2.7)	23.6
Monaco	1.070		- 02	(4.2)	
Montenegro	1070	1	93	(1.3)	7.3
North Macedonia	2 600	2	77	(1.0)	8.1
Republic of Moldova	6722	84	1 250	(3.0)	18.0
Russian Federation	539 618	6 555	1 215	(8.9)	24.2
San Marino	24.022	-	-	- (0.2)	-
Serbia	31 832	3	9	(0.3)	0.7
Serbia excluding Kosovo¹	30 000	2	7	(0.4)	0.9
Kosovo¹	1832	1	55	(0.2)	1.6
Switzerland	-	-	-		-
Tajikistan	13 000	106	815	(1.8)	13.2
Turkey	291 546	188	64	(1.7)	4.8
Turkmenistan	-	-	-	-	-
Ukraine	52 440	722	1 377	(2.8)	23.9
Uzbekistan	-	-	-	-	-
Subtotal non-EU/EEA	1 045 171	8 368	800.6	(5.1)	18.7
Total European Region	1 253 386	8 754	698.4	(4.7)	19.2
Subtotal 18 HPCs	1 041 496	8 492	815.4	(4.8)	18.5

Note: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. HPC: high-priority countries.

a Data from the WHO Tuberculosis Monitoring and Evaluation platform.

b Belarus, Kazakhstan and Montenegro, and Kosovo' prison population data are from prisonstudies.org.

In the calculation of summary results, only countries/areas reporting data on prison population and TB notification in prisons are included.

All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

Table 20. Treatment outcome of all TB cases notified in 2018, European Region, 2019

Country/area	TB cases notified in	Succe	ess	Diec		Faile	d	Lost to fol	low-up ^a	Still on tre	atment	Not evalu	ıated⁵
	2018	N	(%)	N	(%)	N	(%)	N	(%)	N	(%)	N	(%)
EU/EEA													
Austria	482	342	(71.0)	45	(9.3)	0	(0.0)	3	(0.6)	55	(11.4)	37	(7.7)
Belgium	977	790	(80.9)	53	(5.4)	3	(0.3)	88	(9.0)	16	(1.6)	27	(2.8)
Bulgaria	1 358	1 148	(84.5)	107	(7.9)	10	(0.7)	82	(6.0)	4	(0.3)	7	(0.5)
Croatia	372	108	(29.0)	41	(11.0)	0	(0.0)	4	(1.1)	8	(2.2)	211	(56.7)
Cyprus	52	31	(59.6)	4	(7.7)	0	(0.0)	0	(0.0)	3	(5.8)	14	(26.9)
Czechia	443	288	(65.0)	60	(13.5)	0	(0.0)	55	(12.4)	14	(3.2)	26	(5.9)
Denmark	291	45	(15.5)	0	(0.0)	1	(0.3)	0	(0.0)	1	(0.3)	244	(83.8)
Estonia	147	97	(66.0)	21	(14.3)	0	(0.0)	2	(1.4)	23	(15.6)	4	(2.7)
Finland	225	45	(20.0)	0	(0.0)	0	(0.0)	1	(0.4)	1	(0.4)	178	(79.1)
France	5 092	533	(10.5)	67	(1.3)	0	(0.0)	47	(0.9)	9	(0.2)	4 436	(87.1)
Germany	5 492	3 864	(70.4)	369	(6.7)	11	(0.2)	133	(2.4)	136	(2.5)	979	(17.8)
Greece	-	- (00	((2.0)	-	(45.2)	-	(2.5)	-	(0.2)	-	(5.5)	-	(, 7)
Hungary	640	409	(63.9)	97	(15.2)	16	(2.5)	53	(8.3)	35	(5.5)	30	(4.7)
Iceland	8	8	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Ireland	310	115	(37.1)	19	(6.1)	0	(0.0)	3	(1.0)	9	(2.9)	164	(52.9)
Italy	-	-	-	-	-	-	-	-	-	-	-	-	
Latvia Liechtenstein	_	-	_	_	-	-	-	-	-	-	-	_	_
Lithuania	1 142	826	(72.3)	107	(9.4)	14	(1.2)	44	(3.9)	148	(13.0)	3	(0.3)
Luxembourg	1142	826	(/2.3)	107	(9.4)	14	(1.2)	44	(3.9)	148	(13.0)	3	(0.3)
Malta	_	-	_	-	_	-	_	_	_	_	-	-	_
Netherlands	797	678	(85.1)	27	(3.4)	0	(0.0)	23	(2.9)	16	(2.0)	53	(6.6)
Norway	208	172	(82.7)	10	(4.8)	3	(1.4)	1	(0.5)	2	(1.0)	20	(9.6)
Poland	_	-	(02.7)	-	(4.0)	_	(1.4)	_	(0.5)	_	(1.0)	-	(3.0)
Portugal	1905	1 2 6 5	(66.4)	121	(6.4)	4	(0.2)	64	(3.4)	404	(21.2)	47	(2.5)
Romania	12 199	9 733	(79.8)	1 132	(9.3)	289	(2.4)	739	(6.1)	296	(2.4)	10	(0.1)
Slovakia	281	255	(90.7)	21	(7.5)	0	(0.0)	0	(0.0)	1	(0.4)	4	(1.4)
Slovenia	99	76	(76.8)	15	(15.2)	0	(0.0)	4	(4.0)	3	(3.0)	1	(1.0)
Spain	4 766	2 134	(44.8)	254	(5.3)	3	(0.1)	18	(0.4)	149	(3.1)	2 208	(46.3)
Sweden	489	372	(76.1)	15	(3.1)	4	(0.8)	4	(0.8)	16	(3.3)	78	(16.0)
United Kingdom	5 036	3 943	(78.3)	268	(5.3)	0	(0.0)	255	(5.1)	356	(7.1)	214	(4.2)
Subtotal EU/EEA	42 811	27 277	(63.7)	2 853	(6.7)	358	(0.8)	1623	(3.8)	1705	(4.0)	8 995	(21.0)
Non-EU/EEA			(and)		(1.17)		1		12.27		1,5		, , ,
Albania	434	386	(88.9)	16	(3.7)	1	(0.2)	17	(3.9)	-	-	14	(3.2)
Andorra	2	2	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	-	-	0	(0.0)
Armenia	644	514	(79.8)	47	(7.3)	15	(2.3)	68	(10.6)	-	-	0	(0.0)
Azerbaijan	4 184	3 277	(78.3)	150	(3.6)	295	(7.1)	386	(9.2)	-	-	76	(1.8)
Belarus	1 516	1 318	(86.9)	106	(7.0)	40	(2.6)	38	(2.5)	-	-	14	(0.9)
Bosnia and Herzegovina	666	189	(28.4)	35	(5.3)	11	(1.7)	3	(0.5)	-	-	428	(64.3)
Georgia	2 260	1 852	(81.9)	97	(4.3)	62	(2.7)	188	(8.3)	-	-	61	(2.7)
Israel	292	227	(77.7)	27	(9.2)	8	(2.7)	10	(3.4)	-	-	20	(6.8)
Kazakhstan	8 024	7 217	(89.9)	488	(6.1)	225	(2.8)	94	(1.2)	-	-	0	(0.0)
Kyrgyzstan	6 125	4 725	(77.1)	405	(6.6)	138	(2.3)	804	(13.1)	-	-	53	(0.9)
Monaco	-	-	-	-	-	-	-	-	-	-	-	-	-
Montenegro	81	77	(95.1)	3	(3.7)	0	(0.0)	1	(1.2)	-	-	0	(0.0)
North Macedonia	214	187	(87.4)	14	(6.5)	1	(0.5)	12	(5.6)	-	-	0	(0.0)
Republic of Moldova	2 443	2 015	(82.5)	204	(8.4)	70	(2.9)	93	(3.8)	-	-	61	(2.5)
Russian Federation	68 726	45 394	(66.1)	7 278	(10.6)	5 327	(7.8)	4 472	(6.5)	-	-	6 255	(9.1)
San Marino	0	-	-	-	-	-	-	-	_	-	-	-	_
Serbia	1346	1078	(80.1)	79	(5.9)	8	(0.6)	94	(7.0)	-	-	87	(6.5)
Serbia excluding Kosovo¹	647	499	(77.1)	53	(8.2)	5	(0.8)	35	(5.4)	-	-	55	(8.5)
Kosovo¹	699	579	(82.8)	26	(3.7)	3	(0.4)	59	(8.4)	-	-	32	(4.6)
	420	338	(80.5)	8	(1.9)	0	(0.0)	5	(1.2)	-	-	69	(16.4)
Switzerland	5 150	4 579	(88.9)	213	(4.1)	66	(1.3)	227	(4.4)	-	-	65	(1.3)
Tajikistan					(7.7)	43	(0.4)	250	(2.2)	-	-	604	(5.2)
Tajikistan Turkey	11 595	9 803	(84.5)	895					, .				
Tajikistan Turkey Turkmenistan	11 595 2 636	2 151	(81.6)	101	(3.8)	202	(7.7)	120	(4.6)	-	-	62	
Tajikistan Turkey Turkmenistan Ukraine	11 595 2 636 23 193	2 151 17 443	(81.6) (75.2)	101 2 379	(3.8) (10.3)	202 1 804	(7.8)	1 502	(6.5)	-	-	65	(0.3)
Tajikistan Turkey Turkmenistan Ukraine Uzbekistan	11 595 2 636 23 193 15 648	2 151 17 443 14 168	(81.6) (75.2) (90.5)	101 2 379 558	(3.8) (10.3) (3.6)	202 1 804 198	(7.8) (1.3)	1 502 371	(6.5) (2.4)	-	-	65 353	(0.3) (2.3)
Tajikistan Turkey Turkmenistan Ukraine	11 595 2 636 23 193	2 151 17 443	(81.6) (75.2)	101 2 379	(3.8) (10.3)	202 1 804	(7.8)	1 502	(6.5)	-	-	65	(2.4) (0.3) (2.3) (5.3) (8.7)

Note: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. EU/EEA: country data are shown as missing (–) when data on treatment outcomes are not reported. HPC: high-priority countries.

**In previous reports defined as "defaulted".

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

**All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

Table 21. Treatment outcome of new and relapse TB cases notified in 2018, European Region, 2019

Country/area	New and relapse TB	Succ	ess	Die	d	Faile	d	Lost to foll	ow-up ^c	Still on tre	atment	Not eval	uated
	cases notified in 2018 ^b	N	(%)	N	(%)	N	(%)	N	(%)	N	(%)	N	(%)
EU/EEA													
Austria	455	334	(73.4)	43	(9.5)	0	(0.0)	3	(0.7)	39	(8.6)	36	(7.9)
Belgium ^e	902	737	(81.7)	48	(5.3)	3	(0.3)	79	(8.8)	10	(1.1)	25	(2.8)
Bulgaria	1 2 6 8	1 085	(85.6)	99	(7.8)	7	(0.6)	71	(5.6)	0	(0.0)	6	(0.5)
Croatia	363	107	(29.5)	40	(11.0)	0	(0.0)	4	(1.1)	8	(2.2)	204	(56.2)
Cyprus	51	30	(58.8)	4	(7.8)	0	(0.0)	0	(0.0)	3	(5.9)	14	(27.5)
Czechia	422	282	(66.8)	57	(13.5)	0	(0.0)	52	(12.3)	10	(2.4)	21	(5.0)
Denmarke	266	42	(15.8)	0	(0.0)	1	(0.4)	0	(0.0)	0	(0.0)	223	(83.8)
Estonia	115	96	(83.5)	16	(13.9)	0	(0.0)	1	(0.9)	0	(0.0)	2	(1.7)
Finland	220	45	(20.5)	0	(0.0)	0	(0.0)	1	(0.5)	0	(0.0)	174	(79.1)
France	-	-	-	-	-	-	-	-	-	-	-	-	-
Germany	5 216	3 724	(71.4)	362	(6.9)	10	(0.2)	123	(2.4)	101	(1.9)	896	(17.2)
Greece	-	-	-	-	-	-	-	-	-	-	-	-	-
Hungary	591	388	(65.7)	92	(15.6)	15	(2.5)	45	(7.6)	26	(4.4)	25	(4.2)
Iceland	8	8	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Ireland ^e	284	110	(38.7)	14	(4.9)	0	(0.0)	2	(0.7)	7	(2.5)	151	(53.2)
Italy	-	-	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-	-	-
Liechtenstein	-	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	926	807	(87.1)	76	(8.2)	13	(1.4)	28	(3.0)	0	(0.0)	2	(0.2)
Luxembourg	41	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	41	(100.0)
Malta	-	-	-	-	-	-	-	-	-	-	-	-	-
Netherlands	775	664	(85.7)	25	(3.2)	0	(0.0)	23	(3.0)	15	(1.9)	48	(6.2)
Norway ^e	182	153	(84.1)	7	(3.8)	3	(1.6)	1	(0.5)	0	(0.0)	18	(9.9)
Poland	-	-	-	-	-	-	-	-	-	-	-	-	-
Portugal	1848	1240	(67.1)	118	(6.4)	4	(0.2)	60	(3.2)	384	(20.8)	42	(2.3)
Romania	11 271	9 482	(84.1)	993	(8.8)	157	(1.4)	561	(5.0)	68	(0.6)	10	(0.1)
Slovakia	271	249	(91.9)	19	(7.0)	0	(0.0)	0	(0.0)	0	(0.0)	3	(1.1)
Slovenia	98	76	(77.6)	14	(14.3)	0	(0.0)	4	(4.1)	3	(3.1)	1	(1.0)
Spain	4 596	2 065	(44.9)	240	(5.2)	3	(0.1)	17	(0.4)	136	(3.0)	2 135	(46.5)
Sweden	463	361	(78.0)	15	(3.2)	4	(0.9)	4	(0.9)	4	(0.9)	75	(16.2)
United Kingdome	4 684	3 724	(79.5)	247	(5.3)	0	(0.0)	229	(4.9)	294	(6.3)	190	(4.1)
Subtotal EU/EEA	35 316	25 809	(73.1)	2 529	(7.2)	220	(0.6)	1308	(3.7)	1 108	(3.1)	4 342	(12.3)
Non-EU/EEA													
Albania	434	386	(88.9)	16	(3.7)	1	(0.2)	17	(3.9)	-	-	14	(3.2)
Andorra	2	2	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	-	-	0	(0.0)
Armenia	615	497	(80.8)	43	(7.0)	15	(2.4)	60	(9.8)	-	-	0	(0.0)
Azerbaijan	1 751	1 471	(84.0)	39	(2.2)	95	(5.4)	121	(6.9)	-	-	25	(1.4)
Belarus	1 418	1 250	(88.2)	94	(6.6)	33	(2.3)	32	(2.3)	-	-	9	(0.6)
Bosnia and Herzegovina	666	189	(28.4)	35	(5.3)	11	(1.7)	3	(0.5)	-	-	428	(64.3)
Georgia	2 071	1735	(83.8)	86	(4.2)	51	(2.5)	145	(7.0)	-	-	54	(2.6)
Israel	292	227	(77.7)	27	(9.2)	8	(2.7)	10	(3.4)	-	-	20	(6.8)
Kazakhstan	7 859	7 093	(90.3)	470	(6.0)	213	(2.7)	83	(1.1)	-	-	0	(0.0)
Kyrgyzstan	5 333	4 321	(81.0)	333	(6.2)	121	(2.3)	515	(9.7)	-	-	43	(0.8)
Monaco	-	-	-	-	-	-	-	-	-	-	-	-	_
Montenegro	81	77	(95.1)	3	(3.7)	0	(0.0)	1	(1.2)	-	-	0	(0.0)
North Macedonia	214	187	(87.4)	14	(6.5)	1	(0.5)	12	(5.6)	-	-	0	(0.0)
Republic of Moldova	2 312	1 954	(84.5)	183	(7.9)	56	(2.4)	62	(2.7)	-	-	57	(2.5)
Russian Federation	59 850	41 154	(68.8)	6 351	(10.6)	4 052	(6.8)	3 408	(5.7)	-	-	4 885	(8.2)
San Marino	0	-	-	-	-	-	-	-	-	_	-	-	-
Serbia	1 265	1 032	(81.6)	65	(5.1)	5	(0.4)	84	(6.6)	-	-	79	(6.2)
Serbia excluding Kosovo¹	579	459	(79.3)	42	(7.3)	2	(0.3)	29	(5.0)	-	-	47	(8.1)
Kosovo¹	686	573	(83.5)	23	(3.4)	3	(0.4)	55	(8.0)	_	-	32	(4.7)
Switzerland	376	309	(82.2)	6	(1.6)	0	(0.0)	2	(0.5)	-	-	59	(15.7)
Tajikistan	4 995	4 452	(89.1)	204	(4.1)	60	(1.2)	215	(4.3)	_	-	64	(1.3)
Turkey						34	(0.3)		(2.0)	-	-		
,	11 407	9 691	(85.0)	885	(7.8)			225		-		572	(5.0)
Turkmenistan	2 157	1780	(82.5)	1003	(3.5)	172	(8.0)	1 114	(3.9)		-	45	(2.1)
Ukraine	20 221	15 607	(77.2)	1993	(9.9)	1446	(7.2)	1 114	(5.5)	-	-	61	(0.3)
Uzbekistan	14 423	13 217	(91.6)	478	(3.3)	166	(1.2)	307	(2.1)	-	(0.0)	255	(1.8)
Subtotal non-EU/EEA Total European Region	137 742	106 631	(77.4)	11 401	(8.3)	6 540	(4.7)	6 500	(4.7)	1 100	(0.0)	6 670	(4.8)
TOTAL COLODESION KERION	173 058	132 440	(76.5)	13 930	(8.0)	6 760	(3.9)	7 808	(4.5)	1 108	(0.6)	11 012	(6.4)

Note: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. EU/EEA: country data are shown as missing (-) when data on treatment outcomes 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 and areas: 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.

*All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

Table 22. Treatment outcome of new and relapse TB cases in children (0-14 years) notified in 2018, European Region, 2019

Country/area	New and relapse TB cases	Succ	ess	Die	d	Faile	d	Lost to foll	ow-up ^c	Still on tre	atment	Not eval	uated
Country/area	reported in	N	(%)	N	(%)	N	(%)	N	(%)	N	(%)	N	(%)
EU/EEA													
Austria	24	20	(83.3)	0	(0.0)	0	(0.0)	0	(0.0)	4	(16.7)	0	(0.0)
Belgiume	60	54	(90.0)	0	(0.0)	0	(0.0)	5	(8.3)	0	(0.0)	1	(1.7)
Bulgaria	67	66	(98.5)	0	(0.0)	0	(0.0)	1	(1.5)	0	(0.0)	0	(0.0)
Croatia	8	2	(25.0)	0	(0.0)	0	(0.0)	0	(0.0)	1	(12.5)	5	(62.5)
Cyprus	1	1	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Czechia	5	4	(80.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	1	(20.0)
Denmark ^e	10	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	10	(100.0)
Estonia	2	2	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Finland	2	2	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
France	_	-	(100.0)	_	(0.0)	_	(0.0)	_	(0.0)	_	(0.0)	_	(0.0)
Germany	212	164	(77.4)	1	(0.5)	0	(0.0)	5	(2.4)	4	(1.9)	38	(17.9)
Greece	-	-	(//.4)	-	(0.5)	-	(0.0)	_	(2.4)	-	(1.7)	-	(17.2)
Hungary	3	1	(33.3)	1	(33.3)	0	(0.0)	0	(0.0)	0	(0.0)	1	(33.3)
Iceland	0	0	(33.3)	0	(55.5)	0	(0.0)	0	(0.0)	0	(0.0)	0	(33.3)
Ireland ^e	7	3	(42.9)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	4	(57.1)
Italy		3	(42.9)	-	(0.0)	-	(0.0)	-	(0.0)			4	(3/.1)
	-		-	-	-	-	-	-		-	-		_
Latvia Liechtenstein		-							-	-	-	-	_
	-	-	(400.0)	-	- (0.0)	-	(0.0)	-	(0.0)	-	(0.0)	-	(0.0)
Lithuania	19	19	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Luxembourg	0	0	-	0	-	0	-	0	-	0	-	0	_
Malta	-	-	()	-	- (2.2)	-	- (2.2)	-	(= -)	-	-	-	- (2.2)
Netherlands	20	19	(95.0)	0	(0.0)	0	(0.0)	1	(5.0)	0	(0.0)	0	(0.0)
Norwaye	7	5	(71.4)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	2	(28.6)
Poland	-	-	-	-	-	-	-	-	-	-	-	-	-
Portugal	49	41	(83.7)	1	(2.0)	0	(0.0)	0	(0.0)	7	(14.3)	0	(0.0)
Romania	540	516	(95.6)	8	(1.5)	0	(0.0)	9	(1.7)	5	(0.9)	2	(0.4)
Slovakia	40	40	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Slovenia	1	1	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Spain	301	170	(56.5)	1	(0.3)	0	(0.0)	0	(0.0)	7	(2.3)	123	(40.9)
Sweden	30	27	(90.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	3	(10.0)
United Kingdom ^e	155	134	(86.5)	1	(0.6)	0	(0.0)	5	(3.2)	12	(7.7)	3	(1.9)
Subtotal EU/EEA	1563	1 291	(82.6)	13	(0.8)	0	(0.0)	26	(1.7)	40	(2.6)	193	(12.3)
Non-EU/EEA													
Albania	4	4	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	-	-	0	(0.0)
Andorra	0	-	-	-	-	-	-	-	-	-	-	-	-
Armenia	37	32	(86.5)	0	(0.0)	2	(5.4)	3	(8.1)	-	-	0	(0.0)
Azerbaijan	-	-	-	-	-	-	-	-	-	-	-	-	-
Belarus	12	10	(83.3)	0	(0.0)	0	(0.0)	0	(0.0)	-	-	2	(16.7)
Bosnia and Herzegovina	5	1	(20.0)	0	(0.0)	0	(0.0)	0	(0.0)	-	-	4	(80.0)
Georgia	61	60	(98.4)	0	(0.0)	0	(0.0)	1	(1.6)	-	-	0	(0.0)
Israel	16	15	(93.8)	0	(0.0)	1	(6.3)	0	(0.0)	-	-	0	(0.0)
Kazakhstan	274	267	(97.4)	0	(0.0)	6	(2.2)	1	(0.4)	-	-	0	(0.0)
Kyrgyzstan	260	239	(91.9)	5	(1.9)	3	(1.2)	12	(4.6)	-	-	1	(0.4)
Monaco	-	-	-	-	-	-	_	-	_	-	-	-	_
Montenegro	2	2	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	-	-	0	(0.0)
North Macedonia	12	10	(83.3)	0	(0.0)	0	(0.0)	2	(16.7)	-	-	0	(0.0)
Republic of Moldova	96	87	(90.6)	0	(0.0)	0	(0.0)	1	(1.0)	-	-	8	(8.3)
Russian Federation	1 905	1 811	(95.1)	13	(0.7)	28	(1.5)	5	(0.3)	-	-	48	(2.5)
San Marino	0	-	-	-	-	-	-	-	-	-	-	-	(=-5)
Serbia	29	29	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	-	-	0	(0.0)
Serbia excluding													
Kosovo ¹	5	5	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	-	-	0	(0.0)
	24	24	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	-	-	0	(0.0)
Kosovo¹	24			0	(0.0)	0	(0.0)	0	(0.0)	-	-	4	(21.1)
	19	15	(78.9)	U						_	-	5	(1.7)
Kosovo¹ Switzerland	19			2	(0.7)	4	(1.3)	13	(4.3)		_		
Kosovo¹ Switzerland <i>Tajikistan</i>	19 302	278	(92.1)	2	(0.7)	4 2	(1.3)	13	(4.3)	-	_		(11.4)
Kosovo¹ Switzerland Tajikistan Turkey	19				(0.7) (2.2)	2	(0.3)	4	(0.7)			68	(11.4)
Kosovo¹ Switzerland Tajikistan Turkey Turkmenistan	19 302 598	278 511 -	(92.1) (85.5)	2 13 -	(2.2)	2	(0.3)	4	(0.7)	-	-	68	-
Kosovo¹ Switzerland Tajikistan Turkey Turkmenistan Ukraine	19 302 598	278 511	(92.1)	2 13		2		4		-	-	68	(11.4) - (0.0)
Kosovo¹ Switzerland Tajikistan Turkey Turkmenistan Ukraine Uzbekistan	19 302 598 - 458	278 511 - 437	(92.1) (85.5) - (95.4)	2 13 - 8 -	(2.2) - (1.7)	2 - 9 -	(0.3) - (2.0)	4 - 4 -	(0.7) - (0.9)	- - -	- - -	68 - 0 -	(0.0)
Kosovo¹ Switzerland Tajikistan Turkey Turkmenistan Ukraine	19 302 598	278 511 -	(92.1) (85.5)	2 13 - 8	(2.2)	2 - 9	(0.3)	4 - 4	(0.7)	- - -	-	68	-

Note: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. EU/EEA: country data are shown as missing (–) when data on treatment outcomes 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 and areas: 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.

**All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

Table 23. Treatment outcome of new and relapse TB cases of foreign origin notified in 2018, European Region, 2019

	New and	Succ	ess	Die	ed	Fai	led	Lost to fo	ollow-up ^c	Still on t	reatment	Not eva	luated ^d
Country/area	relapse TB cases of foreign origin notified in 2018 ^b	N	(%)	N	(%)	N	(%)	N	(%)	N	(%)	N	(%)
EU/EEA	2010												
Austriae	278	207	(74.5)	8	(2.9)	0	(0.0)	3	(1.1)	24	(8.6)	36	(12.9)
Belgium ^{ef}	470	387	(82.3)	8	(1.7)	1	(0.2)	60	(12.8)	6	(1.3)	8	(1.7)
Bulgaria	7	6	(85.7)	0	(0.0)	0	(0.0)	1	(14.3)	0	(0.0)	0	(0.0)
Croatia	4	1	(25.0)	1	(25.0)	0	(0.0)	0	(0.0)	0	(0.0)	2	(50.0)
Cyprus	48	28	(58.3)	3	(6.3)	0	(0.0)	0	(0.0)	3	(6.3)	14	(29.2)
Czechia	130	73	(56.2)	8	(6.2)	0	(0.0)	35	(26.9)	4	(3.1)	10	(7.7)
Denmark ^f	181	29	(16.0)	0	(0.0)	1	(0.6)	0	(0.0)	0	(0.0)	151	(83.4)
Estonia	28	23	(82.1)	3	(10.7)	0	(0.0)	0	(0.0)	0	(0.0)	2	(7.1)
Finland	89	25	(28.1)	0	(0.0)	0	(0.0)	1	(1.1)	0	(0.0)	63	(70.8)
France	-	-	_	_	_	_	_	_	_	_	-	-	_
Germany	3 738	2736	(73.2)	132	(3.5)	6	(0.2)	83	(2.2)	67	(1.8)	714	(19.1)
Greece	-		(, , , , ,	-	(3.3)	_	(012)	_	(2.2)	_	- (-	(.,,,,
Hungarye	19	8	(42.1)	0	(0.0)	1	(5.3)	2	(10.5)	0	(0.0)	8	(42.1)
Iceland	8	8	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Ireland ^f								1	(0.0)				
	130	55	(42.3)	5	(3.8)	0	(0.0)			4	(3.1)	65	(50.0)
Italy	-	-	-	-	-	-	-	-	-	-	-	-	
Latvia	-		-		-	-	-	-			-		_
Liechtenstein	-	-	- ()	-	- (0.0.0)	-	-	-	- (2.2)	-	- (2.2)	-	- (2.2)
Lithuania	5	4	(80.0)	1	(20.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Luxembourg	33	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	33	(100.0)
Malta	-	-	-	-	-	-	-	-	-	-	-	-	-
Netherlands	596	509	(85.4)	18	(3.0)	0	(0.0)	17	(2.9)	9	(1.5)	43	(7.2)
Norway ^f	156	133	(85.3)	2	(1.3)	3	(1.9)	1	(0.6)	0	(0.0)	17	(10.9)
Polande	-	-	-	-	-	-	-	-	-	-	-	-	-
Portugal	393	227	(57.8)	9	(2.3)	2	(0.5)	19	(4.8)	119	(30.3)	17	(4.3)
Romania	32	29	(90.6)	1	(3.1)	1	(3.1)	1	(3.1)	0	(0.0)	0	(0.0)
Slovakia	9	8	(88.9)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	1	(11.1)
Slovenia	44	38	(86.4)	2	(4.5)	0	(0.0)	1	(2.3)	2	(4.5)	1	(2.3)
Spain	1641	677	(41.3)	36	(2.2)	1	(0.1)	4	(0.2)	70	(4.3)	853	(52.0)
Sweden	397	308	(77.6)	7	(1.8)	4	(1.0)	4	(1.0)	4	(1.0)	70	(17.6)
United Kingdom ^f	3 260	2 6 6 4	(81.7)	114	(3.5)	0	(0.0)	181	(5.6)	190	(5.8)	111	(3.4)
Subtotal EU/EEA	11 696	8 183	(70.0)	358	(3.1)	20	(0.2)	414	(3.5)	502	(4.3)	2 219	(19.0)
Non-EU/EEA													
Albania	0	-	-	-	-	-	-	-	-	-	-	-	-
Andorra	0	_	-	_	_	_	_	-	-	-	-	-	-
Armenia	4	4	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	-	-	0	(0.0)
Azerbaijan	-	_	-	_	-	_	-	_	-	_	-	_	(0.0)
Belarus	_	_	_	_	-	_	_	_	_	_	-	_	_
Bosnia and Herzegovina	_	_	_	_	_	_	_	_	_	_	-	_	_
Georgia	_	-	_	_	_	_	_	_	_	_	-	_	_
Israel	245	189	(77.1)	23	(9.4)	5	(2.0)	9	(3.7)	_	_	19	(7.8)
	108	94						2		_	_	0	
Kazakhstan	108	94	(87.0)	8	(7.4)	4	(3.7)		(1.9)	_	_	-	(0.0)
Kyrgyzstan			-										_
Monaco	-	-	(75.0)	-	(25.0)	-	(0.0)	_	(0.0)	-	-	-	(0.0)
Montenegro	4	3	(75.0)	1	(25.0)	0	(0.0)	0	(0.0)			0	(0.0)
North Macedonia	3	3	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	-	-	0	(0.0)
Republic of Moldova	18	11	(61.1)	0	(0.0)	0	(0.0)	1	(5.6)	-	-	6	(33.3)
Russian Federation	1705	388	(22.8)	31	(1.8)	41	(2.4)	22	(1.3)	-	-	1 223	(71.7)
San Marino	0	-	-	-	-	-	-	-	-	-	-	-	-
Serbia	5	3	(60.0)	0	(0.0)	0	(0.0)	2	(40.0)	-	-	0	(0.0)
Serbia excluding Kosovo ¹	5	3	(60.0)	0	(0.0)	0	(0.0)	2	(40.0)	-	-	0	(0.0)
Kosovo¹	0	-	-	-	-	-	-	-	_	-	-	-	-
Switzerland	285	235	(82.5)	3	(1.1)	0	(0.0)	1	(0.4)	-	-	46	(16.1)
OTTICECITATIO		-	-	-	-	-	-	-	-	-	-	-	_
Tajikistan	0				(4.0)	6	(0.5)	67	(5.6)	-	-	126	(10.5)
	1203	956	(79.5)	48	(4.0)								
Tajikistan		956 -	(79.5) -	48	(4.0)	_	-	-	-	-	-	-	_
Tajikistan Turkey			(79.5) - (61.8)		(0.0)	- 2	(5.9)	2	(5.9)	-	-	9	(26.5)
Tajikistan Turkey Turkmenistan	1203	-	-	-	-	-	(5.9) -	2	(5.9)		-		(26.5)
Tajikistan Turkey Turkmenistan Ukraine Uzbekistan	1 203 - 34 0	- 21 -	(61.8) -	- 0 -	(0.0)	- 2 -	-	-	-	-	-	9	_
Tajikistan Turkey Turkmenistan Ukraine	1 203 - 34	- 21	-	- 0	-	-	(5.9) - (1.6) (0.5)	2 - 106 520	(5.9) - (2.9) (3.4)	-	(0.0)		(26.5) - (39.5) (23.8)

Note: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. EU/EEA: country data are shown as missing (-) when data on treatment outcomes 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 and areas: 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".

* Origin is based on nationality.

* Previous TB history is defined by previous diagnosis.

* All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

Table 24. Treatment outcome of HIV-positive new and relapse TB cases notified in 2018, European Region, 2019

Country/area	HIV-positive TB cases	Succ	ess	Die	d	Faile	ed	Lost to foll	low-up ^c	Still on tr	eatment	Not eval	uated
	notified in 2018 ^b	N	(%)	N	(%)	N	(%)	N	(%)	N	(%)	N	(%)
EU/EEA													
Austria	-	-	-	-	-	-	-	-	-	-	-	-	-
Belgiume	30	27	(90.0)	0	(0.0)	0	(0.0)	1	(3.3)	1	(3.3)	1	(3.3)
Bulgaria	0	0	-	0	-	0	-	0	-	0	-	0	-
Croatia	0	0	-	0	-	0	-	0	-	0	-	0	-
Cyprus	1	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	1	(100.0)	0	(0.0)
Czechia	3	1	(33.3)	2	(66.7)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Denmarke	3	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	3	(100.0)
Estonia	8	7	(87.5)	1	(12.5)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Finland	-	-	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-	-	-
Greece	-	-	-	-	-	-	-	-	-	-	-	-	-
Hungary	2	2	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Iceland	1	1	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Ireland ^e	12	8	(66.7)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	4	(33.3)
Italy	-	-	_	-	-	-	-	-	_	-	-	_	_
Latvia	-	-	-	-	-	-	-	-	-	-	-	-	_
Liechtenstein	-	-	-	-	-	-	_	-	-	-	-	-	_
Lithuania	21	16	(76.2)	4	(19.0)	1	(4.8)	0	(0.0)	0	(0.0)	0	(0.0)
Luxembourg	0	0	-	0	-	0	-	0	(0.0)	0	-	0	(0.0)
Malta	-	-	_	-	_	-	_	-	_	-	_	-	_
Netherlands	20	16	(80.0)	1	(5.0)	0	(0.0)	2	(10.0)	0	(0.0)	1	(5.0)
Norwaye	7	6	(85.7)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	1	(14.3)
Poland	-	-	(03.7)	_	(0.0)	_	(0.0)	_	(0.0)	_	(0.0)		(17.5)
Portugal	146	62	(42.5)	10	(6.8)	0	(0.0)	13	(8.9)	56	(38.4)	5	(3.4)
Romania	216	125	(57.9)	44	(20.4)	3	(1.4)	35	(16.2)	8	(3.7)	1	(0.5)
Slovakia	210		(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Slovenia	0	2	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
	29	2	(6.9)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	27	(93.1)
Spain Sweden	29	_	(0.9)		(0.0)	_	(0.0)	_	(0.0)	-	(0.0)	21	(93.1)
	_	_	_	-	-	_	_	_	_	_	_	-	
United Kingdom ^e				-									(0.4)
Subtotal EU/EEA	501	275	(54.9)	62	(12.4)	4	(0.8)	51	(10.2)	66	(13.2)	43	(8.6)
Non-EU/EEA Albania		2	(22.2)	2	(22.2)	0	(0, 0)	1	(1(7)			1	(1(7)
	6 -	2	(33.3)	2	(33.3)	0	(0.0)	1	(16.7)	-	-	1	(16.7)
Andorra			((2.0)	-	(2(2)	-	(2.2)	-	((()		-		(0.0)
Armenia	61	39	(63.9)	16	(26.2)	2	(3.3)	4	(6.6)	-	-	0	(0.0)
Azerbaijan	-	-	(05.4)	-	- (4.5)	-	(5.6)	-	- (4.5)	-	-	-	(0.0)
Belarus	89	76	(85.4)	4	(4.5)	5	(5.6)	4	(4.5)	-	-	0	(0.0)
Bosnia and Herzegovina	-	-	-	-	-	-	-	-	-	-	-	-	-
Georgia	31	21	(67.7)	3	(9.7)	2	(6.5)	2	(6.5)	-	-	3	(9.7)
Israel	12	5	(41.7)	4	(33.3)	0	(0.0)	0	(0.0)	-	-	3	(25.0)
Kazakhstan	303	203	(67.0)	77	(25.4)	16	(5.3)	7	(2.3)	-	-	0	(0.0)
Kyrgyzstan	145	89	(61.4)	37	(25.5)	2	(1.4)	16	(11.0)	-	-	1	(0.7)
Monaco	-	-	-	-	-	-	-	-	-	-	-	-	_
Montenegro	-	-	-	-	-	-	-	-	_	-	-	-	-
North Macedonia	3	2	(66.7)	1	(33.3)	0	(0.0)	0	(0.0)	-	-	0	(0.0)
Republic of Moldova	154	107	(69.5)	32	(20.8)	6	(3.9)	5	(3.2)	-	-	4	(2.6)
Russian Federation	12 013	5 292	(44.1)	2 659	(22.1)	1 173	(9.8)	1 155	(9.6)	-	-	1734	(14.4)
San Marino	0	-	-	-	-	-	-	-	_	-	-	-	_
Serbia	8	7	(87.5)	0	(0.0)	1	(12.5)	0	(0.0)	-	-	0	(0.0)
Serbia excluding Kosovo¹	8	7	(87.5)	0	(0.0)	1	(12.5)	0	(0.0)	-	-	0	(0.0)
Kosovo¹	0	-	-	-	-	-	-	-	-	-	-	-	_
Switzerland	-	-	-	-	-	-	-	-	-	-	-	-	-
Tajikistan	156	116	(74.4)	28	(17.9)	0	(0.0)	9	(5.8)	-	-	3	(1.9)
Turkey	65	39	(60.0)	7	(10.8)	1	(1.5)	3	(4.6)	-	-	15	(23.1)
Turkmenistan	-	-	-	-	-	-	-	-	_	-	-	-	_
Ukraine	4 381	2 974	(67.9)	844	(19.3)	222	(5.1)	335	(7.6)	_	-	6	(0.1)
Uzbekistan	-	-	-	-	-	-	-	-	-	-	-	-	(0.1)
Subtotal non-EU/EEA	17 427	8 972	(51.5)	3 714	(21.3)	1 430	(8.2)	1 541	(8.8)	0	(0.0)	1770	(10.2)
Total European Region	17 928	9 247	(51.6)	3 776	(21.1)	1 434	(8.0)	1592	(8.9)	66	(0.4)	1 813	(10.1)
			\- ··-/	- ,, -			,/		,/		/		4.001)

Note: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. EU/EEA: country data are shown as missing (–) when data on treatment outcomes 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.

**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.

**All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

Table 25. Treatment outcome among new and relapse TB cases in prisons notified in 2018, European Region, 2019

Country/area	New and relapse TB cases in prisons notified	Succ	ess	Die	d	Faile	ed	Lost to fol	low-up ^c	Not eval	uated
	in 2018 ^b	N	(%)	N	(%)	N	(%)	N	(%)	N	(%)
EU/EEA											
Austria	-	-	-	-	-	-	-	-	-	-	-
Belgium	15	11	(73.3)	1	(6.7)	0	(0.0)	3	(20.0)	0	(0.0)
Bulgaria	16	11	(68.8)	0	(0.0)	0	(0.0)	0	(0.0)	5	(31.3)
Croatia	_	-	-	-	-	-	-	-	-	-	-
Cyprus	-	-	-	-	-	-	-	-	-	-	-
Czechia	19	13	(68.4)	1	(5.3)	0	(0.0)	5	(26.3)	0	(0.0)
Denmark	298	0	(0.0)	6	(2.0)	0	(0.0)	0	(0.0)	292	(98.0)
Estonia	5	5	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Finland	-	-	-	-	-	-	-	-	-	-	-
France	_	-	-	-	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Greece	_	-	-	-	-	-	-	-	-	-	-
Hungary	15	11	(73.3)	0	(0.0)	0	(0.0)	1	(6.7)	3	(20.0)
Iceland	_	-	-	-	-	-	-	-	-	-	-
Ireland	0	0	-	0	-	0	-	0	-	0	-
Italy	-	-	-	-	-	-	-	-	-	-	_
Latvia	-	-	-	-	-	-	-	-	-	-	-
Liechtenstein	-	-	-	-	-	-	-	-	-	-	-
Lithuania	46	37	(80.4)	1	(2.2)	0	(0.0)	4	(8.7)	4	(8.7)
Luxembourg	0	0	-	0	-	0	-	0	-	-	_
Malta	0	0	-	0	-	0	-	0	-	0	-
Netherlands	5	3	(60.0)	0	(0.0)	0	(0.0)	0	(0.0)	2	(40.0)
Norway	0	0	-	0	-	0	-	0	-	0	_
Poland	_	-	-	-	-	-	-	_	-	-	-
Portugal	46	20	(43.5)	0	(0.0)	-	_	2	(4.3)	24	(52.2)
Romania	114	96	(84.2)	4	(3.5)	3	(2.6)	9	(7.9)	2	(1.8)
Slovakia	14	14	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Slovenia	0	0	-	0	-	0	-	0	-	0	_
Spain	-	-	-	-	-	-	_	-	-	-	-
Sweden	_	_	-	-	_	_	_	_	_	-	_
United Kingdom	22	15	(68.2)	-	_	-	_	2	(9.1)	5	(22.7)
Subtotal EU/EEA	615	236	(38.4)	13	(2.1)	3	(0.5)	26	(4.2)	337	(54.8)
Non-EU/EEA	0.9		(5011)	.,	(=11)		(0.0)		(11-)		(5 1.0)
Albania	3	3	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Andorra	0	-	-	-	-	-	-	_	-	-	-
Armenia	7	7	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Azerbaijan	158	150	(94.9)	3	(1.9)	0	(0.0)	5	(3.2)	0	(0.0)
Belarus	40	37	(92.5)	0	(0.0)	2	(5.0)	0	(0.0)	1	(2.5)
Bosnia and Herzegovina	, -	-	-	-	-	-	(3.0)	-	-	-	(213)
Georgia	34	28	(82.4)	0	(0.0)	2	(5.9)	3	(8.8)	1	(2.9)
Israel	-	-	(02.4)	-	(0.0)	-	(3.2)	-	(0.0)	-	(2.7)
Kazakhstan	145	106	(73.1)	3	(2.1)	9	(6.2)	27	(18.6)	0	(0.0)
Kyrgyzstan	159	127	(79.9)	5	(3.1)	2	(1.3)	25	(15.7)	0	(0.0)
Monaco	-	-	(/).)	_	(3.1)	_	(1.5)	_	(13.7)	_	(0.0)
Montenegro		_	_	_	_	_	_	_	_	_	
North Macedonia	3	3	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Republic of Moldova	68	62	(91.2)	0	(0.0)	4	(5.9)	2	(2.9)	0	(0.0)
Russian Federation	6 382	3 342	(52.4)	207	(3.2)	657	(10.3)	289	(4.5)	1 887	(29.6)
San Marino	0 302	3 342	(32.4)	207	(3.2)	-	(10.3)	207	(4.5)	1 00/	(47.0)
Serbia		3	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Serbia excluding Kosovo ¹	3	3	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
•	3 _	-	(100.0)	-	(0.0)	U	(0.0)	-	(0.0)	U	(0.0)
Kosovo¹ Switzerland		-	-	-	-	-	-	-	-	-	
	- 05										(0.0)
Tajikistan	95	90	(94.7)	4	(4.2)	1	(1.1)	0	(0.0)	0	(0.0)
Turkey	151	121	(80.1)	7	(4.6)	0	(0.0)	11	(7.3)	12	(7.9)
Turkmenistan	- /75	-	(7(0)	-	- ((2)	-	(0.7)	-	(0.7)	-	(0.1)
Ukraine	475	361	(76.0)	20	(4.2)	46	(9.7)	46	(9.7)	2	(0.4)
Uzbekistan	-	-	·		-	-	- ()	-	()	- 1000	(6: 1)
Subtotal non-EU/EEA	7723	4 440	(57.5)	249	(3.2)	723	(9.4)	408	(5.3)	1903	(24.6)
Total European Region Subtotal 18 HPCs	8 338 7 895	4 676	(56.1)	262	(3.1)	726	(8.7)	434	(5.2)	2 240	(26.9)
		4 580	(58.0)	254	(3.2)	726	(9.2)	421	(5.3)	1 914	(24.2)

Note: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. EU/EEA: country data are shown as missing (-) when data on treatment outcomes 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.

**Excludes cases moved to second-line treatment.

**In previous reports defined as "defaulted".

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

**All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

Table 26. Treatment outcome after 24 months among RR/MDR-TB cases started on second-line treatment in 2017, European Region, 2019

Country/area	RR/MDR-TB cases started on second-	Succe	ess	Die	ed	Faile	ed	Lost to fol	llow up ^b	Still on tre	atment	Not eval	uated
Country/area	line treatment in 2017	N	(%)	N	(%)	N	(%)	N	(%)	N	(%)	N	(%)
EU/EEA													
Austria	18	9	(50.0)	2	(11.1)	0	(0.0)	0	(0.0)	0	(0.0)	7	(38.9)
Belgium	5	4	(80.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	1	(20.0)
Bulgaria	24	16	(66.7)	2	(8.3)	0	(0.0)	5	(20.8)	1	(4.2)	0	(0.0)
Croatia	0	0	-	0	-	0	-	0	-	0	-	0	-
Cyprus	-	-	-	-	-	-	-	-	-	-	-	-	-
Czechia	8	3	(37.5)	0	(0.0)	1	(12.5)	1	(12.5)	1	(12.5)	2	(25.0)
Denmark	2	1	(50.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	1	(50.0)
Estonia	34	27	(79.4)	3	(8.8)	0	(0.0)	2	(5.9)	2	(5.9)	0	(0.0)
Finland	4	1	(25.0)	1	(25.0)	0	(0.0)	0	(0.0)	1	(25.0)	1	(25.0)
France	-	-	-	-	-	-	-	-	-	-	-	-	-
Germany	117	64	(54.7)	3	(2.6)	0	(0.0)	4	(3.4)	6	(5.1)	40	(34.2)
Greece	-	-	-	-	-	-	-	-	-	-	-	-	-
Hungary	11	5	(45.5)	4	(36.4)	0	(0.0)	1	(9.1)	0	(0.0)	1	(9.1)
Iceland	0	0	-	0	-	0	-	0	-	0	-	0	-
Ireland	5	2	(40.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	3	(60.0)
Italy	-	-	-	-	-	-	-	-	-	-	-	-	_
Latvia	-	-	-	-	-	-	-	-	-	-	-	-	-
Liechtenstein	0	0	-	0	-	0	-	0	-	0	-	0	-
Lithuania	249	103	(41.4)	46	(18.5)	18	(7.2)	46	(18.5)	35	(14.1)	1	(0.4)
Luxembourg	-	-	-	-	-	-	-	-	-	-	-	-	-
Malta	-	-	-	-	-	-	-	-	-	-	-	-	-
Netherlands	8	6	(75.0)	0	(0.0)	0	(0.0)	1	(12.5)	1	(12.5)	0	(0.0)
Norway	9	8	(88.9)	0	(0.0)	0	(0.0)	1	(11.1)	0	(0.0)	0	(0.0)
Poland	-	-	-	-	-	-	-	-	_	-	-	-	-
Portugal	10	7	(70.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	3	(30.0)
Romania	366	133	(36.3)	73	(19.9)	84	(23.0)	48	(13.1)	28	(7.7)	0	(0.0)
Slovakia	6	1	(16.7)	4	(66.7)	0	(0.0)	0	(0.0)	1	(16.7)	0	(0.0)
Slovenia	1	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	1	(100.0)
Spain	-	-	-	-	-	-	-	-	-	-	-	-	-
Sweden	11	9	(81.8)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	2	(18.2)
United Kingdom	49	29	(59.2)	4	(8.2)	0	(0.0)	4	(8.2)	5	(10.2)	7	(14.3)
Subtotal EU/EEA	937	428	(45.7)	142	(15.2)	103	(11.0)	113	(12.1)	81	(8.6)	70	(7.5)
Non-EU/EEA													
Albania	0	-	-	-	-	-	-	-	-	-	-	-	-
Andorra	0	-	-	-	-	-	-	-	-	-	-	-	-
Armenia	104	52	(50.0)	11	(10.6)	10	(9.6)	31	(29.8)	-	-	0	(0.0)
Azerbaijan	858	509	(59.3)	103	(12.0)	136	(15.9)	110	(12.8)	-	-	0	(0.0)
Belarus	1 0 6 7	752	(70.5)	94	(8.8)	100	(9.4)	112	(10.5)	-	-	9	(0.8)
Bosnia and Herzegovina	-	-	-	-	-	-	-	-	-	-	-	-	-
Georgia	316	203	(64.2)	9	(2.8)	20	(6.3)	64	(20.3)	-	-	20	(6.3)
Israel	7	5	(71.4)	1	(14.3)	0	(0.0)	0	(0.0)	-	-	1	(14.3)
Kazakhstan	5 338	4 3 4 0	(81.3)	475	(8.9)	224	(4.2)	263	(4.9)	-	-	36	(0.7)
Kyrgyzstan	1166	643	(55.1)	131	(11.2)	121	(10.4)	269	(23.1)	-	-	2	(0.2)
Monaco	-	-	-	-	-	-	-	-	_	-	-	-	_
Montenegro	0	-	-	-	-	-	-	-	_	-	-	-	-
North Macedonia	1	0	(0.0)	1	(100.0)	0	(0.0)	0	(0.0)	-	-	0	(0.0)
Republic of Moldova	962	537	(55.8)	117	(12.2)	124	(12.9)	183	(19.0)	-	-	1	(0.1)
Russian Federation	22 901	12 629	(55.1)	3 488	(15.2)	2 692	(11.8)	2 165	(9.5)	-	-	1 927	(8.4)
San Marino	0	-	-	-	-	-	-	-	-	-	-	-	-
Serbia	10	7	(70.0)	2	(20.0)	1	(10.0)	0	(0.0)	-	-	0	(0.0)
Serbia excluding Kosovo ¹	6	4	(66.7)	1	(16.7)	1	(16.7)	0	(0.0)	-	-	0	(0.0)
Kosovo¹	4	3	(75.0)	1	(25.0)	0	(0.0)	0	(0.0)	-	-	0	(0.0)
Switzerland	12	10	(83.3)	0	(0.0)	0	(0.0)	0	(0.0)	-	-	2	(16.7)
Tajikistan	546	352	(64.5)	81	(14.8)	39	(7.1)	67	(12.3)	-	-	7	(1.3)
Turkey	202	139	(68.8)	21	(10.4)	8	(4.0)	20	(9.9)	-	-	14	(6.9)
Turkmenistan	343	226	(65.9)	31	(9.0)	43	(12.5)	38	(11.1)	-	-	5	(1.5)
Ukraine	6 685	3 407	(51.0)	1 014	(15.2)	1 196	(17.9)	1 037	(15.5)	-	-	31	(0.5)
Uzbekistan	2 265	1 372	(60.6)	308	(13.6)	115	(5.1)	187	(8.3)	_	-	283	(12.5)
Subtotal non-EU/EEA	42 783	25 183	(58.9)	5 887	(13.8)	4 829	(11.3)	4 546	(10.6)	0	(0.0)	2 338	(5.5)
Total European Region	43 720	25 611	(58.6)	6 029	(13.8)	4 932	(11.3)	4 659	(10.7)	81	(0.2)	2 408	(5.5)
Subtotal 18 HPCs	43 426	25 440	(58.6)	6 007	(13.8)	4 930	(11.4)	4 647	(10.7)	66	(0.2)	2 336	(5.4)

Note: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. EU/EEA: country data are shown as missing (-) when data on treatment outcomes are not reported. For inclusion in the cohort, drug-susceptibility data are also required.
HPC: high-priority countries.
RR/MDR-TB: rifampicin-resistant and multidrug-resistant tuberculosis.
*For EU/EEA countries, cases diagnosed post mortem are excluded, and cases with no treatment enrolment data reported are assumed to be enrolled in treatment. In previous reports defined as "defaulted".
In previous reports defined as "transferred out and unknown".
*All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

Table 27. Treatment outcome after 24 months among laboratory-confirmed MDR-TB cases notified in 2017, EU/EEA,

Country	All MDR-TB cases notified	Succe	SS	Die	d	Faile	d	Lost to fol	low up ^b	Still on tre	atment	Not eval	uated ^c
	in 2017	N	(%)	N	(%)	N	(%)	N	(%)	N	(%)	N	(%)
EU/EEA													
Austria	18	9	(50.0)	2	(11.1)	0	(0.0)	0	(0.0)	0	(0.0)	7	(38.9)
Belgium	5	4	(80.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	1	(20.0)
Bulgaria	24	16	(66.7)	2	(8.3)	0	(0.0)	5	(20.8)	1	(4.2)	0	(0.0)
Croatia	0	0	-	0	-	0	-	0	-	0	-	0	_
Cyprus	-	-	-	-	-	-	-	-	-	-	-	-	-
Czechia	8	3	(37.5)	0	(0.0)	1	(12.5)	1	(12.5)	1	(12.5)	2	(25.0)
Denmark	2	1	(50.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	1	(50.0)
Estonia	36	27	(75.0)	5	(13.9)	0	(0.0)	2	(5.6)	2	(5.6)	0	(0.0)
Finland	5	1	(20.0)	1	(20.0)	0	(0.0)	0	(0.0)	1	(20.0)	2	(40.0)
France	-	-	-	-	_	-	-	-	_	-	_	-	_
Germany	121	81	(66.9)	4	(3.3)	0	(0.0)	4	(3.3)	9	(7.4)	23	(19.0)
Greece	-	-	-	-	-	-	-	-	_	-	-	-	_
Hungary	11	5	(45.5)	4	(36.4)	0	(0.0)	1	(9.1)	0	(0.0)	1	(9.1)
Iceland	0	0	-	0	_	0	-	0	_	0	-	0	_
Ireland	5	2	(40.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	3	(60.0)
Italy	_	-	-	-	-	-	-	-	_	-	-	-	_
Latvia	-	-	-	-	_	-	-	-	_	-	-	-	-
Liechtenstein	-	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	249	103	(41.4)	46	(18.5)	18	(7.2)	46	(18.5)	35	(14.1)	1	(0.4)
Luxembourg	-	-	-	-	_	-	_	-	_	-	-	-	_
Malta	-	-	-	-	_	-	-	-	_	-	-	-	-
Netherlands	9	6	(66.7)	0	(0.0)	0	(0.0)	1	(11.1)	1	(11.1)	1	(11.1)
Norway	9	8	(88.9)	0	(0.0)	0	(0.0)	1	(11.1)	0	(0.0)	0	(0.0)
Poland	-	-	_	-	-	-	_	-	_	-	-	-	_
Portugal	10	7	(70.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	3	(30.0)
Romania	372	134	(36.0)	76	(20.4)	85	(22.8)	48	(12.9)	29	(7.8)	0	(0.0)
Slovakia	6	1	(16.7)	4	(66.7)	0	(0.0)	0	(0.0)	1	(16.7)	0	(0.0)
Slovenia	1	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	1	(100.0)
Spain	-	-	-	-	-	-	-	_	-	-	-	-	-
Sweden	11	9	(81.8)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	2	(18.2)
United Kingdom	50	29	(58.0)	5	(10.0)	0	(0.0)	4	(8.0)	5	(10.0)	7	(14.0)
Total EU/EEA	952	446	(46.8)	149	(15.7)	104	(10.9)	113	(11.9)	85	(8.9)	55	(5.8)

Note: WHO European Region TB high-priority countries presented in italics. Country data are shown as missing (–) when data on treatment outcomes are not reported. For inclusion in the cohort, drug-susceptibility data are also required.

MDR-TB: multidrug-resistant tuberculosis.

* 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 among XDR-TB cases started on second-line treatment in 2017, European Region, 2019

Country/area	XDR-TB cases started on	Succ	ess	Die	ed .	Fail	ed	Lost to fo	llow up ^b	Still on tre	atment	Not eval	uated ^c
Country/area	second-line treatment in 2017 ^a	N	(%)	N	(%)	N	(%)	N	(%)	N	(%)	N	(%)
EU/EEA													
Austria	3	1	(33.3)	1	(33.3)	0	(0.0)	0	(0.0)	0	(0.0)	1	(33.3)
Belgium	0	0	-	0	-	0	-	0	-	0	-	0	-
Bulgaria	1	0	(0.0)	1	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Croatia	0	0	-	0	-	0	-	0	-	0	-	0	-
Cyprus	0	0	-	0	-	0	-	0	-	0	-	0	-
Czechia	2	1	(50.0)	0	(0.0)	0	(0.0)	1	(50.0)	0	(0.0)	0	(0.0)
Denmark	0	0	-	0	-	0	-	0	-	0	-	0	-
Estonia	10	6	(60.0)	1	(10.0)	0	(0.0)	1	(10.0)	2	(20.0)	0	(0.0)
Finland	0	0	-	0	-	0	-	0	-	0	-	0	-
France	-	-	-	-	-	-	-	-	-	-	-	-	-
Germany	5	2	(40.0)	0	(0.0)	0	(0.0)	1	(20.0)	0	(0.0)	2	(40.0)
Greece	-	-	-	-	-	-	-	-	-	-	-	-	-
Hungary	4	2	(50.0)	2	(50.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Iceland	0	0	-	0	-	0	-	0	-	0	-	0	-
Ireland	1	1	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Italy	-	-	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-	-	-
Liechtenstein	-	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	87	0	(0.0)	18	(20.7)	13	(14.9)	21	(24.1)	34	(39.1)	1	(1.1)
Luxembourg	-	-	_	-	-	-	_	-	_	-	-	-	_
Malta	-	-	-	-	-	-	-	-	-	-	-	-	-
Netherlands	0	0	-	0	-	0	-	0	-	0	-	0	-
Norway	0	0	-	0	-	0	-	0	-	0	-	0	-
Poland	-	-	-	-	-	-	-	-	-	-	-	-	-
Portugal	0	0	-	0	-	0	-	0	-	0	-	0	-
Romania	57	0	(0.0)	12	(21.1)	18	(31.6)	4	(7.0)	23	(40.4)	0	(0.0)
Slovakia	2	0	(0.0)	1	(50.0)	0	(0.0)	0	(0.0)	1	(50.0)	0	(0.0)
Slovenia	0	0	-	0	-	0	-	0	-	0	-	0	-
Spain	-	-	-	-	-	-	-	-	-	-	-	-	-
Sweden	0	0	-	0	-	0	-	0	-	0	-	0	-
United Kingdom	3	1	(33.3)	1	(33.3)	0	(0.0)	0	(0.0)	1	(33.3)	0	(0.0)
Subtotal EU/EEA	180	14	(7.8)	37	(20.6)	31	(17.2)	28	(15.6)	61	(33.9)	9	(5.0)
Non-EU/EEA													
Albania	0	-	-	-	-	-	-	-	-	-	-	-	-
Andorra	0	-	-	-	-	-	-	-	-	-	-	-	-
Armenia	16	7	(43.8)	2	(12.5)	2	(12.5)	5	(31.3)	-	-	0	(0.0)
Azerbaijan	182	115	(63.2)	20	(11.0)	15	(8.2)	30	(16.5)	-	-	2	(1.1)
Belarus	419	256	(61.1)	38	(9.1)	86	(20.5)	37	(8.8)	-	-	2	(0.5)
Bosnia and Herzegovina	-	-	-	-	-	-	-	-	-	-	-	-	-
Georgia	47	28	(59.6)	4	(8.5)	7	(14.9)	7	(14.9)	-	-	1	(2.1)
Israel	1	0	(0.0)	1	(100.0)	0	(0.0)	0	(0.0)	-	-	0	(0.0)
Kazakhstan	300	145	(48.3)	48	(16.0)	82	(27.3)	21	(7.0)	-	-	4	(1.3)
Kyrgyzstan	157	91	(58.0)	20	(12.7)	25	(15.9)	21	(13.4)	-	-	0	(0.0)
Monaco	-	-	-	-	-	-	-	-	-	-	-	-	_
Montenegro	1	1	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	-	-	0	(0.0)
North Macedonia	-	-	-	-	-	-	-	-	-	-	-	-	-
Republic of Moldova	62	20	(32.3)	10	(16.1)	17	(27.4)	14	(22.6)	-	-	1	(1.6)
Russian Federation	4 140	1 710	(41.3)	715	(17.3)	926	(22.4)	411	(9.9)	-	-	378	(9.1)
San Marino	0	-	-	-	-	-	-	-	-	-	-	-	-
Serbia	0	-	-	-	-	-	-	-	-	-	-	-	-
Serbia excluding Kosovo¹	0	-	-	-	-	-	-	-	-	-	-	-	-
Kosovo¹	0	-	-	-	-	-	-	-	-	-	-	-	-
Switzerland	0	-	-	-	-	-	-	-	-	-	-	-	-
Tajikistan	250	155	(62.0)	43	(17.2)	11	(4.4)	20	(8.0)	-	-	21	(8.4)
Turkey	2	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	-	-	2	(100.0)
Turkmenistan	5	2	(40.0)	1	(20.0)	2	(40.0)	0	(0.0)	-	-	0	(0.0)
Ukraine	1 376	473	(34.4)	241	(17.5)	519	(37.7)	140	(10.2)	-	-	3	(0.2)
Uzbekistan	258	162	(62.8)	57	(22.1)	19	(7.4)	15	(5.8)	-	-	5	(1.9)
Subtotal non-EU/EEA	7 216	3 165	(43.9)	1 200	(16.6)	1711	(23.7)	721	(10.0)	0	(0.0)	419	(5.8)
Total European Region	7 396	3 179	(43.0)	1 237	(16.7)	1742	(23.6)	749	(10.1)	61	(0.8)	428	(5.8)
Subtotal 18 HPCs	7 3 6 9	3 170	(43.0)	1 231	(16.7)	1742	(23.6)	747	(10.1)	59	(0.8)	420	(5.7)

Note: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. EU/EEA: country data are shown as missing (–) when data on treatment outcomes are not reported. For inclusion in the cohort, drug-susceptibility data are also required. HPC: high-priority countries.

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. In previous reports defined as "defaulted".

In previous reports defined as "transferred out and unknown".

All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

Table 29. Treatment outcome after 36 months among XDR-TB cases notified in 2016, EU/EEA, 2019

Country	XDR-TB cases reported in	Succe	ess	Die	ed	Fail	ed	Lost to fo	llow up ^a	Not ev	aluated ^b
	2016	N	(%)	N	(%)	N	(%)	N	(%)	N	(%)
EU/EEA											
Austria	2	2	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Belgium	0	0	-	0	-	0	-	0	-	0	-
Bulgaria	0	0	-	0	-	0	-	0	-	0	-
Croatia	0	0	-	0	-	0	-	0	-	0	-
Cyprus	0	0	-	0	-	0	-	0	-	0	-
Czechia	0	0	-	0	-	0	-	0	-	0	-
Denmark	0	0	-	0	-	0	-	0	-	0	-
Estonia	7	3	(42.9)	3	(42.9)	1	(14.3)	0	(0.0)	0	(0.0)
Finland	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	7	3	(42.9)	1	(14.3)	0	(0.0)	0	(0.0)	3	(42.9)
Greece	0	0	-	0	-	0	-	0	-	0	-
Hungary	7	3	(42.9)	1	(14.3)	0	(0.0)	0	(0.0)	3	(42.9)
Iceland	0	0	-	0	-	0	-	0	-	0	-
Ireland	0	0	-	0	-	0	-	0	-	0	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Liechtenstein	0	0	-	0	-	0	-	0	-	0	-
Lithuania	58	18	(31.0)	17	(29.3)	7	(12.1)	14	(24.1)	2	(3.4)
Luxembourg	0	0	-	0	-	0	-	0	-	0	-
Malta	0	0	-	0	-	0	-	0	-	0	-
Netherlands	0	0	-	0	-	0	-	0	-	0	-
Norway	0	0	-	0	-	0	-	0	-	0	-
Poland	8	1	(12.5)	2	(25.0)	0	(0.0)	0	(0.0)	5	(62.5)
Portugal	4	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	4	(100.0)
Romania	68	24	(35.3)	20	(29.4)	21	(30.9)	3	(4.4)	0	(0.0)
Slovakia	0	0	-	0	-	0	-	0	-	0	-
Slovenia	0	0	-	0	-	0	-	0	-	0	-
Spain	0	0	-	0	-	0	-	0	-	0	-
Sweden	4	2	(50.0)	1	(25.0)	0	(0.0)	0	(0.0)	1	(25.0)
United Kingdom	7	4	(57.1)	0	(0.0)	2	(28.6)	1	(14.3)	0	(0.0)
Total EU/EEA	172	60	(34.9)	45	(26.2)	31	(18.0)	18	(10.5)	18	(10.5)

Note: WHO European Region TB high-priority countries presented in italics. Country data are shown as missing (–) when data on treatment outcomes are not reported. For inclusion in the cohort, drug-susceptibility data are also required.

XDR-TB: extensively drug-resistant tuberculosis.

In previous reports defined as "defaulted".

In previous reports defined as "transferred out and unknown".

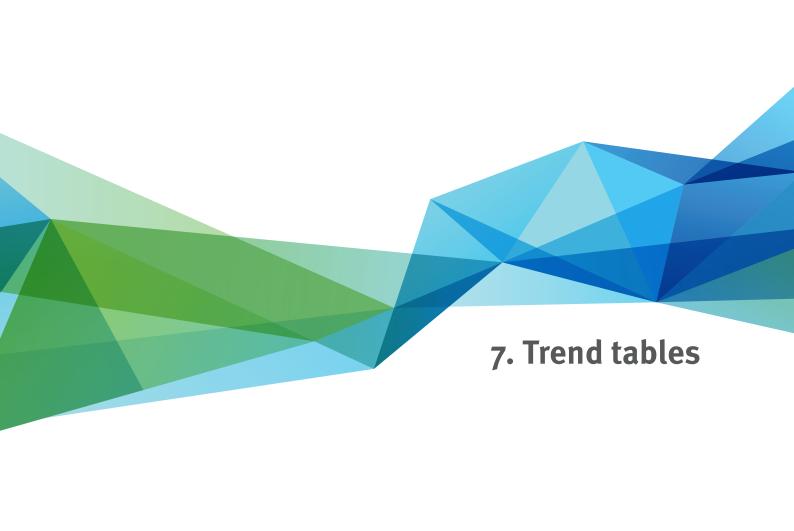


Table I. Estimated tuberculosis (TB) mortality^a per 100 000 population, European Region, 2010–2019

	20	10	20	11	20	12	20	13	20	14	20	15
Country	N	Rate per 100 000	N	Rate per 100000	N	Rate per	N	Rate per	N	Rate per	N	Rate per
EU/EEA												
Austria	39	(0.5)	55	(0.7)	42	(0.5)	68	(0.8)	71	(0.8)	64	(0.7)
Belgium	60	(0.6)	53	(0.5)	59	(0.5)	56	(0.5)	41	(0.4)	61	(0.5)
Bulgaria	200	(2.7)	170	(2.4)	170	(2.4)	160	(2.1)	130	(1.8)	110	(1.6)
Croatia	83	(1.9)	66	(1.5)	60	(1.4)	54	(1.3)	40	(1.0)	46	(1.1)
Cyprus	2	(0.1)	5	(0.4)	6	(0.5)	2	(0.1)	6	(0.5)	3	(0.2)
Czechia	40	(0.4)	56	(0.5)	30	(0.3)	67	(0.6)	39	(0.4)	57	(0.5)
Denmark	36	(0.6)	16	(0.3)	23	(0.4)	16	(0.3)	13	(0.2)	17	(0.3)
Estonia	42	(3.1)	46	(3.5)	36	(2.7)	26	(1.9)	29	(2.2)	22	(1.6)
Finland	48	(0.9)	61	(1.1)	49	(0.9)	31	(0.6)	41	(0.7)	33	(0.6)
France	650	(1.0)	640	(1.0)	550	(0.9)	560	(0.9)	480	(0.8)	450	(0.7)
Germany	360	(0.5)	350	(0.4)	370	(0.5)	380	(0.5)	320	(0.4)	320	(0.4)
Greece	78	(0.7)	75	(0.7)	110	(1.0)	78	(0.7)	55	(0.5)	45	(0.4)
Hungary	150	(1.6)	130	(1.3)	130	(1.3)	98	(1.0)	87	(0.9)	110	(1.1)
Iceland	3	(1.1)	3	(0.8)	3	(0.9)	2	(0.5)	2	(0.6)	2	(0.6)
Ireland	35	(0.8)	29	(0.6)	27	(0.6)	23	(0.5)	24	(0.5)	18	(0.4)
Italy	380	(0.6)	390	(0.7)	340	(0.6)	270	(0.5)	290	(0.5)	340	(0.6)
Latvia	91	(4.3)	80	(3.8)	62	(3.0)	100	(5.0)	67	(3.3)	96	(4.8)
Liechtenstein	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	220	(7.2)	220	(7.2)	260	(8.6)	220	(7.2)	230	(7.8)	190	(6.6)
Luxembourg	1	(0.2)	2	(0.4)	1	(0.2)	1	(0.2)	1	(0.2)	1	(0.2)
Malta	3	(0.8)	3	(0.7)	1	(0.2)	3	(0.7)	1	(0.2)	2	(0.5)
Netherlands	56	(0.3)	37	(0.2)	35	(0.2)	40	(0.2)	35	(0.2)	37	(0.2)
Norway	29	(0.6)	30	(0.6)	22	(0.4)	21	(0.4)	13	(0.3)	12	(0.2)
Poland	630	(1.6)	690	(1.8)	680	(1.8)	580	(1.5)	580	(1.5)	580	(1.5)
Portugal	230	(2.1)	230	(2.2)	230	(2.2)	230	(2.2)	220	(2.1)	220	(2.1)
Romania	1 500	(7.3)	1300	(6.4)	1300	(6.2)	1 100	(5.7)	1 100	(5.7)	1 100	(5.4)
Slovakia	35	(0.7)	26	(0.5)	17	(0.3)	20	(0.4)	35	(0.6)	35	(0.6)
Slovenia	20	(1.0)	14	(0.7)	11	(0.5)	9	(0.4)	21	(1.0)	11	(0.5)
Spain	400	(0.9)	300	(0.6)	330	(0.7)	300	(0.6)	290	(0.6)	250	(0.5)
Sweden	36	(0.4)	47	(0.5)	39	(0.4)	44	(0.5)	30	(0.3)	25	(0.3)
United Kingdom	370	(0.6)	330	(0.5)	330	(0.5)	350	(0.5)	360	(0.6)	350	(0.5)
Subtotal EU/EEA	5 800	(1.1)	5 500	(1.1)	5 300	(1.0)	4 900	(1.0)	4 700	(0.9)	4 600	(0.9)
Non-EU/EEA		(0.0)	•	(0.0)		(0.0)	0	(0.0)	0	(0.0)		(0.0)
Albania	9	(0.3)	9	(0.3)	9	(0.3)	8	(0.3)	8	(0.3)	8	(0.3)
Andorra	1	(0.8)	0	(0.3)	1	(1.0)	0	(0.6)	1	(0.7)	0	(0.5)
Armenia	160	(5.7)	120	(4.2)	140	(4.8)	110	(3.6)	81	(2.8)	68	(2.3)
Azerbaijan	800	(8.9)	660	(7.2)	420	(4.6)	440	(4.7)	430	(4.5)	570	(5.9)
Belarus	910	(9.7)	870	(9.3)	760	(8.1)	650	(6.9)	510	(5.4)	450	(4.8)
Bosnia and Herzegovina	190	(5.1)	180	(5.0)	170	(4.6)	150	(4.2)	130	(3.8)	120	(3.6)
Georgia Israel	230 28	(5.5)	230 22	(5.6) (0.3)	<i>230</i> 22	(5.7)	210 15	(5.1)	190 15	(4.6)	160 15	(4.0)
Kazakhstan	2 100	(13.0)	1 900	(12.0)	1800	(11.0)	1 200	(6.9)	1 000	(6.0)	820	(4.7)
		(12.0)	680	(12.0)	650	(12.0)	650	(11.0)	540	(9.3)	480	(8.1)
Kyrgyzstan	650	(0.3)	080	(0.2)	050	(0.1)	650	(0.1)	540	(0.0)	480	(0.0)
Monaco Montenegro	1	(0.3)	1	(0.2)	1	(0.1)	1	(0.1)	1	(0.0)	0	(0.0)
North Macedonia	34	(1.7)	27	(1.3)	23	(1.1)	20	(1.0)	20	(1.0)	20	(1.0)
Republic of Moldova	630	(16.0)	550	(13.0)	530	(13.0)	390	(9.5)	390	(9.5)	330	(8.2)
Russian Federation	23 000	(16.0)	21 000	(15.0)	19 000	(13.0)	18 000	(12.0)	16 000	(11.0)	14 000	(9.9)
San Marino	0	(0.0)	0	(0.0)	0 000	(0.0)	0	(0.0)	0 000	(0.0)	0	(0.0)
Serbia	170	(1.9)	150	(1.6)	150	(1.7)	140	(1.5)	110	(1.3)	83	(0.0)
Switzerland	28	(0.4)	25	(0.3)	23	(0.3)	20	(0.2)	13	(0.2)	17	(0.3)
Tajikistan	810	(11.0)	800	(10.0)	790	(10.0)	780	(9.7)	780	(9.5)	760	(9.0)
Turkey	1000	(1.5)	1000	(1.4)	880	(10.0)	720	(1.0)	670	(0.9)	610	(0.8)
Turkmenistan	660	(13.0)	680	(13.0)	660	(12.0)	660	(12.0)	670	(12.0)	670	(12.0)
Ukraine	4 700	(10.0)	4 300	(9.5)	4 200	(9.3)	4 100	(8.9)	3 800	(8.3)	3 800	(8.6)
Uzbekistan	2 600	(9.1)	2 400	(8.3)	2 100	(7.2)	2 100	(7.0)	2 100	(6.8)	2 000	(6.5)
Subtotal non-EU/EEA	39 000	(10.1)	36 000	(9.2)	33 000	(8.4)	30 000	(7.6)	27 000	(6.8)	25 000	(6.2)
Total European Region	45 000	(5.0)	41 000	(4.6)	38 000	(4.2)	35 000	(3.8)	32 000	(3.5)	30 000	(3.3)
Subtotal 18 HPCs	40 000	(10.3)	37 000	(9.5)	34 000	(8.7)	32 000	(8.1)	29 000	(7.3)	26 000	(6.5)

Note: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. HPC: high-priority countries.

a Excludes HIV coinfected cases.

201	16	20	17	20	18	20	19	Mean annual	Mean annual	
N	Rate per 100000	N	Rate per 100 000	N	Rate per 100 000	N	Rate per 100 000	% change in rate, 2015–2019	% change in rate, 2010–2019	Country
										EU/EEA
38	(0.4)	34	(0.4)	34	(0.4)	35	(0.4)	-14.8%	-1.8%	Austria
33	(0.3)	33	(0.3)	33	(0.3)	33	(0.3)	-14.4%	-6.9%	Belgium
110	(1.6)	110	(1.6)	110	(1.6)	110	(1.6)	0.0%	-5.6%	Bulgaria
58	(1.4)	59	(1.4)	45	(1.1)	40	(1.0)	-3.3%		Croatia
3	(0.3)	3	(0.3)	3	(0.3)	3	(0.3)	2.0%		Cyprus
43	(0.4)	36	(0.3)	36	(0.3)	36	(0.3)	-10.9%		Czechia
17	(0.3)	18	(0.3)	18	(0.3)	18	(0.3)	0.0%	-7.7%	
28	(2.1)	23	(1.8)	13	(1.0)	13	(1.0)	-11.5%		Estonia
26	(0.5)	35	(0.6)		(0.5)	23	(0.4)	-8.9%		Finland
				26						
420	(0.7)	370	(0.6)	330	(0.5)	290	(0.5)	-10.1%		France
300	(0.4)	290	(0.4)	300	(0.4)	300	(0.4)	-2.0%		Germany
49	(0.5)	49	(0.5)	49	(0.5)	48	(0.5)	2.3%		Greece
66	(0.7)	62	(0.6)	43	(0.4)	27	(0.3)	-29.0%		Hungary
2	(0.6)	2	(0.6)	2	(0.6)	1	(0.4)	-10.0%		Iceland
18	(0.4)	18	(0.4)	19	(0.4)	19	(0.4)	0.0%		Ireland
320	(0.5)	320	(0.5)	320	(0.5)	320	(0.5)	-1.4%	-2.1%	Italy
72	(3.7)	62	(3.2)	51	(2.7)	42	(2.2)	-17.7%	-7.2%	Latvia
-	-	-	-	-	-	-	-	-	-	Liechtenstein
180	(6.1)	160	(5.6)	120	(4.2)	110	(4.0)	-11.8%	-6.3%	Lithuania
1	(0.2)	1	(0.2)	1	(0.2)	1	(0.2)	0.0%		Luxembourg
3	(0.7)	3	(0.7)	3	(0.7)	3	(0.7)	12.5%	-0.7%	
30	(0.2)	24	(0.1)	24	(0.1)	24	(0.1)	-10.7%	-9.4%	
18	(0.3)	18	(0.3)	18	(0.3)	19	(0.3)	11.5%		Norway
600	(1.6)	540	(1.4)	500	(1.3)	460	(1.2)	-5.4%	-3.1%	,
200	(1.9)	200	(1.9)	190	(1.8)	180	(1.8)	-3.8%	-1.7%	
980	(5.0)	920	(4.7)	860	(4.4)	790	(4.1)	-6.7%	-6.2%	-
35	(0.6)	35	(0.6)	35	(0.6)	35	(0.6)	0.0%		Slovakia
7	(0.4)	7	(0.3)	7	(0.3)	7	(0.3)	-10.9%		Slovenia
260	(0.6)	240	(0.5)	240	(0.5)	240	(0.5)	-0.9%	-5.4%	
26	(0.3)	22	(0.2)	23	(0.2)	23	(0.2)	-2.1%	-5.4%	
300	(0.5)	300	(0.5)	300	(0.5)	310	(0.5)	-3.5%		United Kingdom
4 200	(0.8)	4 000	(0.8)	3 800	(0.7)	3 600	(0.7)	-6.1%	-5.4%	Subtotal EU/EEA
	(5.5)	-	(1.5)		(5.5)		()			Non-EU/EEA
8	(0.3)	8	(0.3)	8	(0.3)	8	(0.3)	0.0%		Albania
0	(0.5)	0	(0.1)	0	(0.3)	0	(0.6)	6.2%		Andorra
56	(1.9)	36	(1.2)	18	(0.6)	1	(0.0)	-66.2%		Armenia
580	(5.9)	580	(5.9)	590	(5.9)	590	(5.9)	0.0%	-4.5%	Azerbaijan
390	(4.1)	330	(3.5)	270	(2.8)	270	(2.8)	-12.6%	-12.9%	
120	(3.5)	110	(3.2)	100	(3.0)	93	(2.8)	-6.1%	-6.4%	Bosnia and Herzegovina
180	(4.4)	170	(4.2)	160	(4.0)	150	(3.8)	-1.3%	-4.0%	
15	(0.2)	13	(0.2)	13	(0.2)	13	(0.2)	-5.7%	-10.1%	
720	(4.0)	670	(3.7)	440	(2.4)	290	(1.6)	-23.6%	-20.8%	
470	(7.8)	430	(7.0)	390	(6.2)	350	(5.5)	-9.2%		Kyrgyzstan
0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)		- 0.570	
1	(0.0)	1	(0.0)	1	(0.2)	1	(0.0)	0.0%		Montenegro
20	(1.0)	20	(1.0)	20	(1.0)	20	(1.0)	0.0%		North Macedonia
300	(7.3)	250	(6.2)	240	(5.9)	200	(4.9)	-12.1%		Republic of Moldova
	(8.3)		(7.2)			8 400				Russian Federation
12 000		11 000		9 400	(6.5)		(5.8)	-12.5%		
0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	- 44.001		San Marino
95	(1.1)	86	(1.0)	59	(0.7)	44	(0.5)	-14.2%		Serbia
26	(0.3)	26	(0.3)	27	(0.3)	27	(0.3)	11.6%		Switzerland
760	(8.8)	750	(8.5)	740	(8.2)	730	(7.9)	-3.2%		Tajikistan
610	(0.8)	500	(0.6)	400	(0.5)	300	(0.4)	-17.6%		Turkey
640	(11.0)	630	(11.0)	610	(11.0)	600	(10.0)	-4.5%		Turkmenistan
3 600	(8.1)	3 500	(7.9)	3 300	(7.6)	3 200	(7.3)	-4.0%	-3.4%	Ukraine
1900	(6.0)	1 800	(5.6)	1700	(5.1)	1 500	(4.7)	-7.8%	-7.1%	Uzbekistan
1 300								0.007	0.101	0 14 4 1
22 000	(5.4)	21 000	(5.2)	18 000	(4.4)	17 000	(4.1)	-9.8%	-9.4%	Subtotal non-EU/EEA
	(5.4) (2.9)	21 000 24 000	(5.2) (2.6)	18 000 22 000	(4.4) (2.4)	17 000 20 000	(4.1) (2.2)	-9.8% -10.0%		Total European Region

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

	20	10	20	11	20	12	20	13	20	14	20	15	
Country	N	Rate per	N	Rate per	N	Rate per	N	Rate per	N	Rate per	N	Rate per 100000	
EU/EEA													
Austria	760	(9.1)	770	(9.2)	710	(8.4)	720	(8.4)	650	(7.5)	650	(7.5)	
Belgium	1200	(11.0)	1100	(10.0)	1000	(9.4)	1000	(9.3)	1000	(9.1)	1100	(9.5)	
Bulgaria	3 000	(41.0)	2700	(37.0)	2 600	(35.0)	2 400	(33.0)	2 300	(31.0)	2 000	(28.0)	
Croatia	790	(18.0)	710	(17.0)	620	(14.0)	590	(14.0)	570	(13.0)	560	(13.0)	
Cyprus	70	(6.3)	59	(5.2)	72	(6.4)	47	(4.1)	45	(3.9)	72	(6.2)	
Czechia	710	(6.8)	650	(6.2)	650	(6.1)	540	(5.1)	550	(5.1)	580	(5.5)	
Denmark	380	(6.9)	410	(7.4)	390	(7.0)	380	(6.7)	340	(5.9)	370	(6.5)	
Estonia	330	(25.0)	340	(25.0)	300	(23.0)	300	(23.0)	270	(21.0)	240	(18.0)	
Finland	350	(6.6)	360	(6.7)	300	(5.5)	310	(5.6)	290	(5.3)	310	(5.6)	
France	5 800	(9.2)	5 700	(9.0)	5 700	(9.0)	5 700	(8.9)	5 500	(8.5)	5 400	(8.4)	
Germany	4 300	(5.3)	4 300	(5.3)	4 200	(5.2)	4 400	(5.4)	4 600	(5.6)	6 000	(7.3)	
Greece	510	(4.7)	520	(4.8)	600	(5.5)	570	(5.3)	560	(5.2)	500	(4.7)	
Hungary	1800	(18.0)	1500	(15.0)	1300	(14.0)	1200	(12.0)	920	(9.4)	990	(10.0)	
Iceland	25	(7.9)	9	(2.8)	12	(3.5)	13	(3.9)	9	(2.8)	8	(2.4)	
Ireland	450	(9.8)	450	(9.7)	390	(8.5)	410	(8.9)	340	(7.4)	340	(7.3)	
Italy	5 200	(8.8)	3 900	(6.6)	3 600	(5.9)	3 500	(5.8)	4 000	(6.6)	4 000	(6.6)	
Latvia	1000	(50.0)	990	(47.0)	1 100	(53.0)	1 000	(49.0)	850	(42.0)	800	(40.0)	
Liechtenstein	-	-	-	-	-	-	-	-	-	-	-	-	
Lithuania	2 000	(64.0)	2 000	(65.0)	1 900	(62.0)	1800	(60.0)	1700	(57.0)	1 600	(55.0)	
Luxembourg	33	(6.6)	29	(5.5)	52	(9.7)	44	(8.1)	28	(5.0)	34	(6.1)	
Malta	33	(8.1)	34	(8.3)	48	(11.0)	58	(13.0)	52	(12.0)	37	(8.5)	
Netherlands	1200	(7.1)	1100	(6.7)	1100	(6.3)	960	(5.7)	940	(5.5)	980	(5.8)	
Norway	340	(6.9)	370	(7.4)	390	(7.9)	420	(8.2)	350	(6.8)	330	(6.3)	
Poland	8 100	(21.0)	9 100	(24.0)	8 100	(21.0)	8 100	(21.0)	7 500	(20.0)	7 200	(19.0)	
Portugal	3 000	(28.0)	2 900	(27.0)	2 900	(27.0)	2 700	(26.0)	2 500	(24.0)	2 400	(23.0)	
Romania	21 000	(104.0)	20 000	(96.0)	19 000	(92.0)	18 000	(89.0)	17 000	(85.0)	16 000	(82.0)	
Slovakia	470	(8.7)	430	(8.0)	370	(6.8)	460	(8.4)	370	(6.8)	350	(6.5)	
Slovenia	190	(9.5)	210	(10.0)	150	(7.5)	160	(7.7)	160	(7.9)	150	(7.2)	
Spain	7 900	(17.0)	7 400	(16.0)	6 500	(14.0)	6 000	(13.0)	5 500	(12.0)	4 600	(9.9)	
Sweden	710	(7.5)	620	(6.5)	680	(7.1)	700	(7.3)	730	(7.5)	900	(9.2)	
United Kingdom	8 800	(14.0)	9 500	(15.0)	9 300	(14.0)	8 300	(13.0)	7 400	(11.0)	6 600	(10.0)	
Subtotal EU/EEA	80 500	(15.8)	78 200	(15.3)	74 000	(14.5)	70 800	(13.8)	67 000	(13.1)	65 100	(12.7)	
Non-EU/EEA		()		()		(1.1.1)		(15.5)		(1.1.1)		()	
Albania	500	(17.0)	490	(17.0)	470	(16.0)	550	(19.0)	470	(16.0)	480	(17.0)	
Andorra	8	(9.5)	3	(4.1)	10	(13.0)	6	(7.1)	7	(8.7)	5	(5.9)	
Armenia	1 800	(61.0)	1 600	(55.0)	1 500	(53.0)	1700	(60.0)	1700	(57.0)	1 500	(50.0)	
Azerbaijan	9 400	(104.0)	11 000	(125.0)	8 000	(86.0)	7300	(78.0)	7 2 0 0	(76.0)	6 800	(71.0)	
Belarus	6 400	(68.0)	5 900	(62.0)	6 000	(63.0)	5 600	(59.0)	4 800	(51.0)	4 700	(50.0)	
Bosnia and Herzegovina	1700	(45.0)	1700	(46.0)	1800	(49.0)	1600	(44.0)	1500	(43.0)	1 400	(40.0)	
Georgia	5 200	(127.0)	5 000	(122.0)	4 800	(119.0)	4 700	(116.0)	4 300	(106.0)	4 000	(99.0)	
Israel	390	(5.3)	470	(6.3)	580	(7.6)	350	(4.6)	420	(5.3)	320	(4.0)	
Kazakhstan	23 000	(144.0)	22 000	(135.0)	20 000	(122.0)	18 000	(106.0)	16 000	(91.0)	14 000	(81.0)	
Kyrgyzstan	6 500	(120.0)	6 900	(125.0)	7 100	(127.0)	8 100	(142.0)	7 300	(126.0)	8 100	(136.0)	
Monaco	120	(3.2)	120	(2.5)	110	(1.5)	160	(0.6)	120	(0.0)	0	(0.0)	
Montenegro	130	(20.0)	130	(20.0)	110	(18.0)	140	(22.0)	130	(21.0)	92	(15.0)	
North Macedonia	480	(23.0)	420	(20.0)	430	(21.0)	400	(19.0)	350	(17.0)	350	(17.0)	
Republic of Moldova	4 800	(116.0)	4 900	(119.0)	5 100	(124.0)	5 200	(127.0)	4 700	(115.0)	4 100	(102.0)	
Russian Federation	122 000	(85.0)	116 000	(81.0)	110 000	(77.0)	106 000	(73.0)	101 000	(70.0)	97 000	(67.0)	
San Marino	2.700	(0.0)	2 500	(0.0)	2 200	(0.0)	2 400	(0.0)	2 100	(0.0)	1000	(0.0)	
Serbia Switzerland	2700	(30.0)	2 5 0 0	(28.0)	2 200	(24.0)	2 400	(27.0)	2 100	(23.0)	1900	(21.0)	
Switzerland Tailkistan	580	(7.5)	600	(7.6)	480	(6.0)	540	(6.6)	490	(5.9)	7 3 0 0	(7.4)	
Tajikistan	9 600	(128.0)	9 000	(117.0)	8 500	(108.0)	8 000	(100.0)	7 500	(91.0)	7300	(86.0)	
Turkey	18 000	(25.0)	17 000	(24.0)	16 000	(22.0)	15 000	(20.0)	15 000	(20.0)	14 000	(18.0)	
Turkmenistan	4 000	(79.0)	3 400	(66.0)	3 700	(70.0)	3 800	(71.0)	3 200	(58.0)	2 700	(49.0)	
Ukraine Uzbekistan	50 000	(110.0)	48 000	(105.0)	46 000	(101.0)	44 000	(96.0)	43 000	(94.0)	41 000	(91.0)	
Subtotal non-EU/EEA	28 000	(97.0)	27 000	(93.0)	26 000	(89.0)	26 000	(86.0)	25 000 246 000	(82.0)	25 000	(79.0)	
JUNIULAL HUH-EU/EEA	295 000	(76.1)	284 000	(72.8)	269 000 343 000	(68.5)	259 000 330 000	(65.5) (36.4)	246 000 313 000	(61.7)	235 000	(58.6)	
Total European Region	376 000	(42.0)	362 000	(40.2)							300 000		

Note: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. HPC: high-priority countries.

20:	16	20	17	20:	18	20	19	Mean annual	Mean annual	
N	Rate per 100 000	N	Rate per 100 000	N	Rate per 100 000	N	Rate per 100 000	% change in rate, 2015–2019	% change in rate, 2010–2019	Country
										EU/EEA
710	(8.1)	650	(7.3)	540	(6.1)	560	(6.2)	-4.6%	-4.2%	Austria
1100	(10.0)	1100	(9.2)	1000	(9.1)	1000	(8.9)	-1.6%	-2.3%	Belgium
1900	(27.0)	1 800	(25.0)	1 600	(23.0)	1 400	(21.0)	-6.9%	-7.2%	Bulgaria
520	(12.0)	420	(10.0)	420	(10.0)	330	(8.0)	-11.4%	-8.6%	Croatia
66	(5.6)	60	(5.1)	59	(4.9)	64	(5.3)	-3.8%	-1.9%	Cyprus
590	(5.5)	570	(5.4)	500	(4.7)	530	(4.9)	-2.8%	-3.6%	Czechia
340	(5.9)	290	(5.1)	310	(5.4)	290	(5.0)	-6.3%	-3.5%	Denmark
220	(16.0)	200	(15.0)	170	(13.0)	170	(13.0)	-7.8%	-7.0%	Estonia
260	(4.7)	270	(4.9)	260	(4.8)	260	(4.7)	-4.3%	-3.7%	Finland
5 700	(8.7)	5 900	(9.0)	5 800	(8.9)	5 700	(8.7)	0.9%	-0.6%	France
6 000	(7.3)	5 600	(6.8)	5 500	(6.7)	4 9 0 0	(5.8)	-5.6%	1.0%	Germany
470	(4.4)	500	(4.7)	470	(4.4)	450	(4.3)	-2.2%	-1.0%	Greece
850	(8.7)	750	(7.7)	690	(7.1)	610	(6.3)	-10.9%	-11.0%	Hungary
7	(2.1)	15	(4.5)	9	(2.7)	15	(4.4)	16.4%		Iceland
340	(7.2)	350	(7.3)	340	(7.0)	280	(5.8)	-5.6%		Ireland
4 300	(7.2)	4 400	(7.3)	4 300	(7.2)	4 300	(7.1)	1.8%	-2.4%	
740	(37.0)	620	(32.0)	560	(29.0)	490	(26.0)	-10.2%		Latvia
-	-	-	-	-	-	-	-	-		Liechtenstein
1 500	(54.0)	1 500	(51.0)	1200	(44.0)	1200	(42.0)	-6.5%		Lithuania
33	(5.8)	37	(6.2)	48	(8.0)	55	(9.0)	10.2%		Luxembourg
58	(13.0)	48	(11.0)	63	(14.0)	60	(14.0)	13.3%		Malta
1000	(5.9)	890	(5.2)	910	(5.3)	860	(5.0)	-3.6%		Netherlands
320	(6.1)	270	(5.1)	220	(4.1)	180	(3.3)	-14.9%		Norway
7 100	(19.0)	6 400	(17.0)	6 000	(16.0)	5 700	(15.0)	-5.7%		Poland
2 100	(20.0)	2 000	(20.0)	2 100	(21.0)	2 000	(19.0)	-4.7%		Portugal
15 000	(74.0)	14 000	(72.0)	13 000	(68.0)	13 000	(66.0)	-5.3%		Romania
320	(5.9)	260	(4.8)	310	(5.8)	250	(4.5)	-8.8%		Slovakia
140	(6.5)	130	(6.2)	110	(5.4)	110	(5.4)	-6.9%		Slovenia
5 400	(12.0)	5 000	(11.0)	5 200	(11.0)	4 300	(9.3)	-1.6%	-6.5%	
810	(8.2)	560	(5.7)	550	(5.5)	550	(5.5)	-12.1%		Sweden
6 5 0 0	(9.8)	5 900	(8.8)	5 400	(8.0)	5 400	(8.0)	-5.4%		United Kingdom
64 400	(12.5)	60 500	(11.7)	57 600	(11.1)	55 000	(10.6)	-4.3%		Subtotal EU/EEA
	,,		,,		1		, , , ,			Non-EU/EEA
480	(17.0)	580	(20.0)	510	(18.0)	470	(16.0)	-1.5%	-0.7%	Albania
5	(6.0)	1	(1.5)	2	(3.0)	6	(7.5)	6.2%		Andorra
1 300	(44.0)	1100	(36.0)	920	(31.0)	780	(26.0)	-15.1%		Armenia
6 400	(66.0)	6 500	(66.0)	6300	(63.0)	6 000	(60.0)	-4.1%		Azerbaijan
4 000	(42.0)	3 500	(37.0)	2 900	(31.0)	2 800	(29.0)	-12.7%		Belarus
1100	(33.0)	960	(29.0)	830	(25.0)	900	(27.0)	-9.4%		Bosnia and Herzegovina
3 700	(92.0)	3 400	(86.0)	3 200	(80.0)	3 000	(74.0)	-7.0%		Georgia
290	(3.5)	270	(3.3)	340	(4.0)	250	(2.9)	-7.7%	-6.5%	
13 000	(73.0)	12 000	(69.0)	12 000	(67.0)	13 000	(68.0)	-4.3%		Kazakhstan
8 100	(133.0)	7700	(124.0)	7300	(116.0)	7 100	(110.0)	-5.2%		Kyrgyzstan
0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	J.2 70		Monaco
100	(16.0)	86	(14.0)	97	(15.0)	92	(15.0)	0.0%		Montenegro
330	(16.0)	270	(13.0)	270	(13.0)	250	(12.0)	-8.3%		North Macedonia
4100	(101.0)	3 900	(95.0)	3 500	(86.0)	3 200	(80.0)	-5.9%		Republic of Moldova
91 000	(63.0)	86 000	(59.0)	79 000	(54.0)	73 000	(50.0)	-7.1%		Russian Federation
0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	-		San Marino
1700	(19.0)	1700	(19.0)	1500	(17.0)	1300	(14.0)	-9.6%		Serbia
660	(7.9)	610	(7.2)	540	(6.4)	460	(5.4)	-7.6%		Switzerland
7 400	(85.0)	7 500	(85.0)	7 600	(84.0)	7 700	(83.0)	-0.9%		Tajikistan
14 000	(18.0)	14 000	(17.0)	13 000	(16.0)	13 000	(16.0)	-2.9%		Turkey
2 600	(46.0)	2 500	(43.0)	2 700	(46.0)	2 600	(45.0)	-2.9%		Turkmenistan
39 000	(87.0)	37 000	(84.0)	36 000	(80.0)	34 000	(77.0)	-4.1%		Ukraine
24 000	(76.0)	23 000		23 000		22 000				Uzbekistan
24 000 223 000	(76.0) (55.2)	23 000 213 000	(73.0) (52.3)	23 000	(70.0) (49.3)	192 000	(67.0) (46.6)	-4.0% -5.5%		Subtotal non-EU/EEA
287 000	(31.2)	274 000	(29.7)	260 000	(28.1)	247 000	(26.6)	-5.1%		Total European Region
238 000	(59.1)	226 000	(55.8)		(52.5)	204 000	(49.8)	-5.6%		Subtotal 18 HPCs
230 000	(1,40)	220 000	(22.0)	214 000	(32.3)	204 000	(47.8)	-5.0%	-3.3%	Subtotut 10 nFt5

Table III. TB cases in children under 15 years, a European Region, 2015–2019

		2015			2016			2017			2018			2019	
Country/area	N	Percentage among all TB cases	Rate per 100 000	N	Percentage among all TB cases	Rate per 100 000	N	Percentage among all TB cases	Rate per 100 000	N	Percentage among all TB cases	Rate per 100 000	N	Percentage among all TB cases	Rate per 100 000
EU/EEA															
Austria	20	(3.4)	1.6	30	(4.7)	2.4	21	(3.7)	1.7	28	(5.8)	2.2	22	(4.6)	1.7
Belgium	69	(7.1)	3.6	59	(5.7)	3.1	68	(7.0)	3.5	60	(6.1)	3.1	50	(5.2)	2.6
Bulgaria	118	(7.1)	11.8	126	(7.9)	12.6	108	(7.4)	10.8	72	(5.3)	7.2	59	(4.4)	5.9
Croatia	8	(1.6)	1.3	5	(1.1)	0.8	3	(0.8)	0.5	8	(2.2)	1.3	1	(0.3)	0.2
Cyprus	0	(0.0)	0.0	0	(0.0)	0.0	3	(5.7)	2.2	1	(1.9)	0.7	2	(2.9)	1.4
Czechia	5	(1.0)	0.3	10	(1.9)	0.6	6	(1.2)	0.4	5	(1.1)	0.3	4	(0.9)	0.2
Denmark	15	(4.2)	1.6	18	(5.5)	1.9	12	(4.4)	1.2	11	(3.8)	1.1	16	(5.7)	1.7
Estonia	2	(0.9)	1.0	4	(2.1)	1.9	0	(0.0)	0.0	2	(1.4)	0.9	1	(0.7)	0.5
Finland	11	(4.0)	1.2	6	(2.6)	0.7	6	(2.4)	0.7	2	(0.9)	0.2	9	(4.0)	1.0
France	0	(0.0)	0.0	1 153	(20.1)	9.4	343	(6.8)	2.8	244	(4.8)	2.0	226	(4.4)	1.9
Germany	192	(3.3)	1.8	226	(3.8)	2.1	241	(4.4)	2.2	216	(3.9)	1.9	196	(4.1)	1.7
Greece	11	(2.3)	0.7	21	(4.8)	1.3	11	(2.4)	0.7	6	(1.4)	0.4	17	(3.7)	1.1
Hungary	9	(1.0)	0.6	6	(0.8)	0.4	6	(0.9)	0.4	3	(0.5)	0.2	10	(1.8)	0.7
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	14	(4.9)	1.4	17	(5.4)	1.7	6	(2.0)	0.6	7	(2.3)	0.7	10	(3.8)	1.0
Italy	177	(4.7)	2.1	158	(3.9)	1.9	168	(4.3)	2.1	164	(4.2)	2.0	180	(5.4)	2.3
Latvia	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	-	-	_
Lithuania	36	(2.4)	8.5	47	(3.3)	11.1	44	(3.2)	10.4	19	(1.7)	4.5	27	(2.6)	6.4
Luxembourg	2	(6.7)	2.1	1	(3.4)	1.1	1	(3.1)	1.0	0	(0.0)	0.0	0	(0.0)	0.0
Malta	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	1	(1.8)	1.5	2	(2.0)	3.0
Netherlands	42	(4.9)	1.5	49	(5.5)	1.8	34	(4.3)	1.2	20	(2.5)	0.7	47	(6.2)	1.7
Norway	20	(6.4)	2.1	13	(4.4)	1.4	17	(6.5)	1.8	7	(3.4)	0.7	4	(2.4)	0.4
Poland	81	(1.3)	1.4	103	(1.6)	1.8	68	(1.2)	1.2	52	(0.9)	0.9	81	(1.5)	1.4
Portugal	43	(2.0)	2.9	36	(1.9)	2.5	45	(2.4)	3.1	49	(2.6)	3.4	63	(3.6)	4.5
Romania	655	(4.3)	21.3	596	(4.4)	19.4	533	(4.1)	17.4	542	(4.4)	17.8	392	(3.4)	12.9
Slovakia	67	(21.1)	8.1	61	(20.6)	7.3	46	(18.5)	5.5	40	(14.2)	4.7	35	(16.4)	4.1
Slovenia	1	(0.8)	0.3	3	(2.5)	1.0	2	(1.8)	0.6	1	(1.0)	0.3	2	(2.0)	0.6
Spain	365	(7.3)	5.2	321	(6.3)	4.6	347	(6.1)	5.0	302	(6.3)	4.3	293	(7.1)	4.2
Sweden	47	(5.8)	2.8	58	(8.1)	3.4	26	(5.0)	1.5	32	(6.5)	1.8	19	(4.0)	1.0
United Kingdom	227	(3.6)	2.0	226	(3.7)	1.9	194	(3.5)	1.7	157	(3.1)	1.3	187	(3.6)	1.6
Subtotal EU/EEA	2 262	(3.7)	2.8	3 376	(5.6)	4.2	2 369	(4.2)	2.9	2 051	(3.9)	2.5	1 955	(3.9)	2.4
Non-EU/EEA								, ,							
Albania	11	(2.7)	2.0	13	(3.1)	2.4	14	(2.8)	2.7	4	(0.9)	0.8	11	(2.7)	2.2
Andorra	1	(25.0)	9.2	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0
Armenia	24	(2.0)	4.1	21	(2.0)	3.5	20	(2.2)	3.3	37	(4.6)	6.1	38	(5.7)	6.2
Azerbaijan	179	(3.3)	8.1	175	(3.4)	7.8	166	(2.3)	7.2	200	(2.9)	8.6	179	(2.7)	7.6
Belarus	18	(0.5)	1.2	13	(0.4)	0.8	13	(0.4)	0.8	12	(0.5)	0.8	8	(0.3)	0.5
Bosnia and Herzegovina	14	(1.3)	2.7	10	(1.1)	2.0	11	(1.4)	2.2	5	(0.7)	1.0	3	(0.5)	0.6
Georgia	139	(4.4)	18.2	123	(4.1)	15.9	94	(3.2)	12.0	77	(3.0)	9.7	72	(2.9)	9.0
Israel	6	(2.1)	0.3	13	(5.2)	0.6	16	(6.8)	0.7	16	(5.5)	0.7	7	(3.2)	0.3
Kazakhstan	392	(2.8)	8.4	326	(2.6)	6.7	404	(3.1)	8.0	362	(2.7)	6.9	351	(2.7)	6.6
Kyrgyzstan	537	(7.6)	28.6	407	(5.8)	21.0	436	(5.7)	21.9	310	(4.1)	15.2	305	(4.3)	14.6
Monaco	0	(0.0)	0.0	0	-	-	-	_	-	-	-	-	-	_	-
Montenegro	1	(1.3)	0.9	0	(0.0)	0.0	0	(0.0)	0.0	2	(2.4)	1.8	0	(0.0)	0.0
North Macedonia	14	(5.0)	4.0	25	(9.5)	7.1	10	(4.6)	2.9	12	(5.5)	3.5	12	(6.0)	3.5
Republic of Moldova	114	(3.2)	17.8	103	(2.9)	16.0	123	(3.2)	19.2	95	(2.7)	14.8	101	(3.1)	15.7
Russian Federation	3 061	(3.1)	12.5	2 876	(3.1)	11.4	2 494	(2.2)	9.7	2 169	(2.0)	8.3	2 028	(2.0)	7.7
San Marino	-	-	-	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0
Serbia	29	(1.8)	2.0	17	(1.2)	1.2	22	(1.5)	1.6	29	(2.1)	2.1	15	(1.3)	1.1
Serbia excluding Kosovo ¹	8	(0.9)	0.8	0	(0.0)	0.0	7	(0.9)	0.7	6	(0.9)	0.6	4	(0.7)	0.4
Kosovo¹	21	(2.7)	4.6	17	(2.4)	3.7	15	(2.1)	3.3	23	(3.3)	5.2	11	(1.8)	2.5
Switzerland	32	(6.0)	2.6	30	(5.2)	2.4	23	(4.1)	1.8	26	(5.0)	2.0	15	(3.4)	1.2
Tajikistan	328	(5.6)	10.8	389	(6.5)	12.4	353	(5.6)	10.9	346	(5.8)	10.3	404	(6.8)	11.7
Turkey	633	(5.0)	3.1	628	(5.2)	3.1	551	(4.6)	2.7	599	(5.1)	3.0	496	(4.4)	2.4
Turkmenistan	0	(0.0)	0.0	5	(0.2)	0.3	39	(1.7)	2.2	37	(1.4)	2.1	44	(1.5)	2.4
Ukraine	568	(1.9)	8.3	571	(2.0)	8.3	611	(1.9)	8.8	580	(1.9)	8.3	585	(2.0)	8.3
Uzbekistan	1795	(11.0)	20.5	2 010	(12.5)	22.5	1 989	(10.3)	21.8	2 029	(11.0)	21.8	2 190	(11.7)	23.1
Subtotal non-EU/EEA	7 896	(3.8)	9.4	7 755	(3.9)	9.1	7 389	(3.2)	8.6	6 947	(3.2)	7.9	6 8 6 4	(3.3)	7.8
Total European Region	10 158	(3.8)	6.2	11 131	(4.3)	6.7	9 758	(3.4)		8 998	(3.3)	5.4	8 819	(3.4)	5.2
														4- 17	

Note: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. HPC: high-priority country.
For non-EU/EEA countries and areas, new and relapse cases are included; for EU/EEA countries, all TB cases under 15 years of age are included.
All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

Table IV. TB cases by origin, European Region, 2015–2019

				2015							2016							2017				
	Fore	ign	Nati	ve	Unkn			Forei	gn	Nativ	re		nown gin		Forei	gn	Natio	ve	Unkn oriş			
Country/area	N	Percentage among all TB	N	Percentage among all TB	N	Percentage among all TB	All TB cases (N)	N	Percentage among all TB	N	Percentage among all TB	N	Percentage among all TB	All TB cases (N)	N	Percentage among all TB	N	Percentage among all TB	N	Percentage among all TB	All TB cases (N)	
EU/EEA																						
Austria	-	(62.4)	219	(37.6)	0	(0.0)	583	424	(66.9)	210	(33.1)	0	(0.0)	634	372	(65.4)	197	(34.6)	0	(0.0)	569	
Belgiuma	512	(52.4)	465	(47.6)	0	(0.0)	977	545	(52.3)	497	(47.7)	0	(0.0)	1042	502	(51.9)	465	(48.1)	0	(0.0)	967	
Bulgaria	10	(0.6)	1 650	(99.4)	0	(0.0)	1 660	4	(0.2)	1 599	(99.8)	0	(0.0)	1 603	6	(0.4)	1 457	(99.6)	0	(0.0)	1 4 6 3	
Croatia	75	(11.0)	328	(48.3)	276	(40.6)	679	1	(0.2)	463	(99.8)	0	(0.0)	464	4	(1.1)	163	(43.1)	211	(55.8)	378	
Cyprus	52	(82.5)	11	(17.5)	0	(0.0)	63	56	(93.3)	4	(6.7)	0	(0.0)	60	38	(71.7)	15	(28.3)	0	(0.0)	53	
Czechia	110	(21.3)	407	(78.7)	0	(0.0)	517	151	(29.3)	365	(70.7)	0	(0.0)	516	158	(31.5)	343	(68.5)	0	(0.0)	501	
Denmark	242	(67.8)	115	(32.2)	0	(0.0)	357	221	(67.0)	109	(33.0)	0	(0.0)	330	184	(66.9)	90	(32.7)	1	(0.4)	275	
Estonia	38	(17.5)	179	(82.5)	0	(0.0)	217	42	(21.9)	150	(78.1)	0	(0.0)	192	23	(13.1)	152	(86.9)	0	(0.0)	175	
Finland	114	(41.9)	151	(55.5)	7	(2.6)	272	112	(47.9)	117	(50.0)	5	(2.1)	234	95	(38.8)	140	(57.1)	10	(4.1)	245	
France	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	0	(0.0)	0	(0.0)		(100.0)	5 015	
Germany	4 085	(70.0)	1585	(27.2)	167	(2.9)	5 837	4 329	(73.1)	1508	(25.5)	88	(1.5)	5 925	3 917	(71.2)	1483	(27.0)	98	(1.8)	5 498	
Greece ^a	189	(39.2)	289	(60.0)	4	(0.8)	482	188	(42.7)	252	(57.3)	0	(0.0)		197	(42.2)	270	(57.8)	0	(0.0)	467	
Hungarya	27	(3.0)	879	(97.0)	0	(0.0)	906	30	(3.8)	756	(96.2)	0	(0.0)	786	25	(3.6)	660	(96.4)	0	(0.0)	685	
Iceland	6	(85.7)	1	(14.3)	0	(0.0)	7	4	(66.7)	2	(33.3)	0	(0.0)		8	(57.1)	6	(42.9)	0	(0.0)	14	
Ireland	129	(45.6)	144	(50.9)	10	(3.5)	283	161	(51.1)	142	(45.1)	12	(3.8)	315	143	(47.7)	144	(48.0)	13	(4.3)	300	
Italy	1764	(46.8)	1 2 2 7	(32.6)	778	(20.6)	3 769	2 509	(62.2)	1180	(29.3)	343	(8.5)	4 032	2 611	(66.2)	1 333		0	(0.0)	3 944	
Latvia	45	(6.2)	676	(93.8)	0	(0.0)	721	43	(6.5)	617	(93.5)	0	(0.0)	660	41	(7.4)	511		0	(0.0)	552	
Liechtenstein	0	(0.0)	0	(0.0)		(100.0)	2		(100.0)	0	(0.0)	0	(0.0)		0	(0.0)		(100.0)	0	(0.0)	1 207	
Lithuania	15	(1.0)	1 492	(99.0)	0	(0.0)	1 507	13	(0.9)	1 429	(99.1)	0	(0.0)	1 442	15	(1.1)	1 372	(98.9)	0	(0.0)	1 387	
Luxembourg	20	(66.7)	10	(33.3)	0	(0.0)	30	22	(75.9)	7	(24.1)	0	(0.0)	29	25	(78.1)	7		0	(0.0)	32	
Malta	24	(75.0)	326	(25.0)	0	(0.0)	32	48	(96.0)	2	(4.0)	0	(0.0)	50	39	(92.9)	3	(7.1)	0	(0.0)	42	
Netherlands	625	(72.5)	236	(27.4)	1	(0.1)	862 313	670	(75.5) (88.8)	215	(24.2)	2	(0.2)	887 295	586	(74.8)	197	(25.2) (11.5)	0	(0.0)	783	
Norway Poland ^a	277 52	(88.5)	36 6 378	(11.5) (99.2)	0	(0.0)	6 430	262 92	(1.4)	6 352	(11.2) (98.6)	0	(0.0)	6 444	231 108	(88.5)	30 5 679	(98.1)	0	(0.0)	261 5 787	
Portugal	367	(16.7)	1825	(83.1)	3	(0.0)	2 195	363	(18.8)	1572	(81.2)	1	(0.0)	1936	375	(19.6)	1538	(80.4)	1	(0.0)	1914	
Romania	36	(0.2)	15 145	(99.7)	2	(0.0)	15 183	24	(0.2)	13 577	(99.8)	0	(0.0)	13 601	27	(0.2)	12 970	(99.8)	0	(0.0)	12 997	
Slovakia	11	(3.5)	306	(96.5)	0	(0.0)	317	11	(3.7)	285	(96.3)	0	(0.0)	296	5	(2.0)	244	(98.0)	0	(0.0)	249	
Slovenia	50	(38.5)	80	(61.5)	0	(0.0)	130	43	(36.4)	75	(63.6)	0	(0.0)	118	45	(40.2)	67	(59.8)	0	(0.0)	112	
Spain	1562	(31.1)	3 291	(65.6)	167	(3.3)	5 020	1454	(28.7)	2 922	(57.6)	694	(13.7)	5 070	2 044	(36.1)	3 285	(58.0)	331	(5.8)	5 660	
Sweden	729	(89.4)	86	(10.6)	0	(0.0)	815	642	(89.9)	72	(10.1)	0	(0.0)	714	467	(90.0)	52	(10.0)	0	(0.0)	519	
United Kingdom	4 358	(70.0)	1750	(28.1)	120	(1.9)	6 228	4 376	(71.6)	1 659	(27.1)	81	(1.3)	6 116	3 827	(69.2)	1630	(29.5)	74	(1.3)	5 531	
Subtotal EU/EEA	18 543	(30.3)	40 795	(66.7)	1800	(2.9)	61 138	19 844	(33.1)	38 539	(64.3)	1 591	(2.7)	59 974	16 118	(28.6)	34 504	(61.2)	5 754	(10.2)	56 376	
Non-EU/EEA																						
Albania	4	(1.0)	411	(99.0)	-	-	415	0	(0.0)	415	(100.0)	-	-	415	0	(0.0)	503	(100.0)	-	-	503	
Andorra	0	(0.0)	4	(100.0)	-	-	4	0	(0.0)	4	(100.0)	-	-	4	0	(0.0)	1	(100.0)	-	-	1	
Armenia	1	(0.1)	1 184	(99.9)	-	-	1 185	0	(0.0)	1 080	(100.0)	-	-	1 080	7	(0.8)	919	(99.2)	-	-	926	
Azerbaijan	15	(0.2)	7 486		-	-	7 501	12	(0.2)	6 695	(99.8)	-	-	6 707	-	-	-	-	-	-	-	
Belarus	0	(0.0)		(100.0)	-	-	4 177	0	(0.0)		(100.0)	-	-	3 598	0	(0.0)		(100.0)	-	-	3 052	
Bosnia and Herzegovina	0	(0.0)	1095	(100.0)	-	-	1 0 9 5	0	(0.0)	907	(100.0)	-	-	907	0	(0.0)		(100.0)	-	-	768	
Georgia	-	-	-	-	-	-	-	-	- ()	-	-	-	-	-	-	- ()	-	-	-	-	-	
Israel	233	(83.2)	47	(16.8)	-	-	280	202	(80.8)	48	(19.2)	-	-	250	190	(81.2)	44	(18.8)	-	-	234	
Kazakhstan	78	(0.5)	14 553	(99.5)	-	-	14 631	153	(1.2)	12 505	(98.8)	-	-	12 658	0	(0.0)	12 942	(100.0)	-	-	12 942	
Kyrgyzstan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Monaco	-	- (2.0)	-	(0(0)	-	-	-	-	- (0.0)	-	- (0==)	-	-	-	-	(0.0)	-	(0(4)	-	-	-	
Montenegro	3	(3.8)	77		-	-	80	2	(2.3)	85	(97.7)	-	-	87	3	(3.9)	74	(96.1)	-	-	77	
North Macedonia	10	(3.5)	274	(96.5)	-	-	284	8	(3.0)	259	(97.0)	-	-	267	3	(1.4)	216		-	-	219	
Republic of Moldova	37	(0.9)	4 174	(99.1)	-		4 211	39	(0.9)	4 095	(99.1)		-	4 134	24	(0.6)	3 834		-	-	3 858	
Russian Federation	-	-	-	-	-	-	-	2 797	(2.3)	118 249	(97.7)	-	-	121 046	2498	(2.2)	111 689	(97.8)	-	-	114 187	
San Marino Serbia	7	(0.4)	1 651		-	-	1658	- 5	(0.3)	1 483	(99.7)	-	-	1 488	- 0	(0.0)	1.66	(100.0)	_	-	1,666	
Serbia excluding Kosovo¹	-	(0.4)	-	(99.6)	-	-	-	-	(0.3)	1 483	(99.7)	-	-	1488	-	(0.0)	1 400	-	-	-	1466	
Kosovo¹	-	-	_	-	-	-	-	-	-	-	-	-	_	-	-	-	_	_	-	-	-	
Switzerland	428	(75.9)	136	(24.1)	-	-	564	486	(79.8)	123	(20.2)	-	-	609	366	(65.9)	189	(34.1)	-	_	555	
Tajikistan	0	(0.0)		(100.0)	-	-	6 232	0	(0.0)		(100.0)	-	-	6 241	0	(0.0)		(100.0)	-	-	6 279	
Turkey	872	(6.8)		(93.2)	-	-	12 772	904	(7.3)	11 513	(92.7)	-	-	12 417	1 107	(9.2)		(90.8)	-	_	12 046	
Turkmenistan	-	(0.0)	-	-	-	-		-	-			-	-		-	(/12)	-	-	-	-	-	
Ukraine	10	(0.0)	35 294	(100.0)	_	_	35 304	20	(0.1)	34 068	(99.9)	_	_	34 088	26	(0.1)	31 558	(99.9)	_	_	31 584	
Uzbekistan	47	(0.2)	19 008		-	-	19 055	0	(0.0)		(100.0)	-	-	18 441	0	(0.0)		(100.0)	-	-	19 329	
Subtotal non-EU/EEA	1745	(1.6)			0	-	109 448	4 628	(2.1)	219 809		0	-	224 437	4 224	(2.0)			0	-	208 026	
Total European Region	20 288		148 498		1800	(1.1)		24 472	(8.6)	258 348		_	(0.6)		20 342	(7.7)			5 754	(2.2)	264 402	
				(99.0)			124 356	4 051	(1.7)	233 857		0		237 908	3 774		217 003				220 777	_

Note: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. HPC: high-priority country.

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

All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

			2018							2019				
Forei	gn	Nati	ive	Unkr ori			Forei	gn	Nati	ive		nown gin		
N	Percentage among all TB	N	Percentage among all TB	N	Percentage among all TB	All TB cases (N)	N	Percentage among all TB	N	Percentage among all TB	N	Percentage among all TB	All TB cases (N)	Country/area
														EU/EEA
299	(62.0)	183	(38.0)	0	(0.0)	482	263	(55.5)	211	(44.5)	0	(0.0)	474	Austria
510	(52.2)	467	(47.8)	0	(0.0)	977	541	(55.9)	427	(44.1)	0	(0.0)	968	Belgium ^a
8	(0.6)	1 350	(99.4)	0	(0.0)	1 358	0	(0.0)	1344	(100.0)	0	(0.0)	1344	
4	(1.1)	177	(47.6)	191	(51.3)	372	4	(1.3)	299	(98.7)	0	(0.0)	303	Croatia
49	(94.2)	3	(5.8)	0	(0.0)	52	62	(89.9)	7	(10.1)	0	(0.0)	69	Cyprus
147	(33.2)	296	(66.8)	0	(0.0)	443	140	(30.2)	323	(69.6)	1	(0.2)	464	
198	(68.0)	93	(32.0)	0	(0.0)	291	204	(72.6)	77	(27.4)	0	(0.0)	281	
32	(21.8)	115	(78.2)	0	(0.0)	147	36	(24.0)	114	(76.0)	0	(0.0)	150	
92	(40.9)	125	(55.6)	8	(3.6)	225	96	(42.7)	125	(55.6)	4	(1.8)	225	
3 142	(61.7)	1645	(32.3)	305	(6.0)	5 092	3 102	(60.6)	1 455	(28.4)	559	(10.9)	5 116	
3 986	(72.6)	1397	(25.4)	109	(2.0)	5 492	3 362	(70.2)	1308	(27.3)	121	(2.5)	4 791	
216	(50.0)	215	(49.8)		(0.2)	432	257	(56.0)	202	(44.0)	0	(0.0)	459	Greece ^a
23	(3.6)	617	(96.4)	0	(0.0)	640	43	(7.8) (84.6)	509	(92.2) (15.4)	0	(0.0)	552 13	Hungary ^a Iceland
142	(45.8)	143	(46.1)	25	(8.1)	310	119	(44.7)	106	(39.8)	41	(15.4)	266	
2 313	(59.1)	1509	(38.6)	90	(2.3)	3 912	1882	(56.2)	1393	(41.6)	71	(2.1)	3 346	
	(37.1)	-	(50.0)	-	-	-	-	(30.2)	-	(+110)	-	(2+1)	-	Latvia
1	(100.0)	0	(0.0)	0	(0.0)	1	0	-	-	-	_	-	_	Liechtenstein
12	(1.1)	1 130	(98.9)	0	(0.0)	1 142	16	(1.5)	1 042	(98.5)	0	(0.0)	1 058	
34	(81.0)	8	(19.0)	0	(0.0)	42	45	(90.0)	5	(10.0)	0	(0.0)	50	Luxembourg
53	(96.4)	2	(3.6)	0	(0.0)	55	94	(95.9)	4	(4.1)	0	(0.0)	98	
617	(77.4)	179	(22.5)	1	(0.1)	797	567	(74.7)	182	(24.0)	10	(1.3)	759	Netherlands
179	(86.1)	29	(13.9)	0	(0.0)	208	146	(88.5)	18	(10.9)	1	(0.6)	165	Norway
97	(1.8)	5 390	(98.2)	0	(0.0)	5 487	121	(2.3)	5 200	(97.7)	0	(0.0)	5 321	
409	(21.5)	1 493	(78.4)	3	(0.2)	1905	419	(23.7)	1350	(76.2)	2	(0.1)	1771	Portugal
33	(0.3)	12 166	(99.7)	0	(0.0)	12 199	42	(0.4)	11 591	(99.6)	0	(0.0)	11 633	Romania
10	(3.6)	271	(96.4)	0	(0.0)	281	7	(3.3)	207	(96.7)	0	(0.0)	214	Slovakia
44	(44.4)	55	(55.6)	0	(0.0)	99	36	(35.6)	65	(64.4)	0	(0.0)	101	Slovenia
1730	(36.3)	2 714	(56.9)	322	(6.8)	4 766	1539	(37.1)	2 247	(54.1)	364	(8.8)	4 150	
422	(86.3)	67	(13.7)	0	(0.0)	489	415	(86.6)	64	(13.4)	0	(0.0)	479	
3 519	(69.9)	1456	(28.9)	61	(1.2)	5 036	3 612	(70.4)	1362	(26.5)	158	(3.1)		United Kingdom
18 329	(34.8)	33 295	(63.1)	1 116	(2.1)	52 740	17 181	(34.5)	31 239	(62.8)	1332	(2.7)	49 /52	Subtotal EU/EEA
0	(0.0)	440	(100.0)	-	_	440	0	(0.0)	/12	(100.0)	-	-	/12	Non-EU/EEA Albania
0	(0.0)	440	(100.0)	-	_	440	1	(20.0)	412	(80.0)	_	-		Andorra
10	(1.3)	786	(98.7)	_	-	796	12	(1.8)	658	(98.2)	_	-	670	
-	(0.0)	6 8 9 6	(100.0)	-	-	6.896	-	(1.0)	-	(70.2)	_	_	-	Azerbaijan
0	(0.0)	2 542	(100.0)	-	-	2 542	0	(0.0)	2 615	(100.0)	_	-	2 615	Belarus
0	(0.0)	669	(100.0)	-	_	669	0	(0.0)	580	(100.0)	_	_		Bosnia and Herzegovi
_	(0.0)	-	(100.0)	-	_	-	-	(0.0)	-	-	_	-		Georgia
245	(83.9)	47	(16.1)	-	-	292	188	(86.6)	29	(13.4)	-	-		Israel
200	(1.5)	13 161	(98.5)	-	-	13 361	161	(1.2)	12 829	(98.8)	-	-		Kazakhstan
-	(0.0)	7 585	(100.0)	-	-	7.585	0	(0.0)	7 039	(100.0)	-	-		Kyrgyzstan
-	-	-	-	-	-	-	-	-	-	-	-	-	-	Monaco
4	(4.8)	80	(95.2)	-	-	84	4	(4.9)	78	(95.1)	-	-		Montenegro
1	(0.5)	216	(99.5)	-	-	217	2	(1.0)	197	(99.0)	-	-		North Macedonia
17	(0.5)	3 448	(99.5)	-	-	3 465	19	(0.6)	3 236	(99.4)	-	-		Republic of Moldova
2 066	(1.9)	104 847	(98.1)	-	-	106 913	2070	(2.0)	101 909	(98.0)	-	-		Russian Federation
-	-	-	-	-	-	-	-	-	-	-	-	-		San Marino
5	(0.4)	1 353	(99.6)	-	-	1358	5	(0.4)	1 174	(99.6)	-	-	1 179	Serbia
-	-	-	-	-	-	-	-	-	-	-	-	-	-	Serbia excluding Kosovo ¹
352	(60.2)	16 /	(31.8)	_	-	F16	210	(72.1)	117	(26.0)	_	-	/25	K0S0V01
352	(68.2)	164 5 975	(100.0)		_	516 5 975	318	(73.1)	117	(26.9)	_	_	435	Switzerland Tajikistan
1 278	(10.8)	5 975 10 508	(89.2)	_	-	5 975 11 786	1454	(12.8)	9 947	(87.2)	_	-	11 401	
12/8	(10.8)	10 508	(89.2)	_	_	11/80	0	(0.0)	2 863	(100.0)	_	_		Turkmenistan
47	(0.2)	30 331	(99.8)	_	_	30 378	36	(0.0)	28 503	(99.9)	_	_	28 539	
0	(0.2)	18 496	(100.0)	_	_	18 496	0	(0.0)	18 774	(100.0)	_	_		Uzbekistan
4 225	(2.0)	207 546	(98.0)	0	_	211 771	4 270	(2.2)	190 964	(97.8)	0	_		Subtotal non-EU/EEA
22 554	(8.5)	240 841	(91.1)	1 116	(0.4)	264 511	21 451	(8.8)	222 203	(90.7)	1332	(0.5)		Total European Regio
779	(0.3)		(7111)		(0.7)	-97711	21771	(0.0)		(70.1)		(0.2)	=-17 700	. Jean maropean neglo

¹ All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

Table V. MDR-TB notification among new bacteriologically confirmed pulmonary TB cases with available DST results, European Region, 2015-2019

		2015			2016			2017			2018			2019		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, 2015– 2019
EU/EEA	_	(, -)			()			()			()			()		
Austria	5	(1.9)	0.1	8	(3.0)	0.1	11	(4.2)	0.1	10	(4.8)	0.1	2	(1.0)	0.0	-21.1%
Belgium ^b	6	(1.4)	0.1	6	(1.4)	0.1	1	(0.2)	0.0	5	(1.2)	0.0	9	(2.1)	0.1	10.1%
Bulgaria	4	(0.7)	0.1	5	(0.9)	0.1	13	(2.5)	0.2	10	(2.2)	0.1	6	(1.5)	0.1	11.5%
Croatia	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	1	(0.4)	0.0	0	(0.0)	0.0	-
Cyprus	0	(0.0)	0.0	0	(0.0)	0.0	1	(3.0)	0.1	0	(0.0)	0.0	0	(0.0)	0.0	2.40/
Czechia	7	(2.2)	0.1	4	(1.3)	0.0	3	(1.0)	0.0	10	(3.6)	0.1	8	(2.6)	0.1	3.1%
Denmark ^b Estonia	4	(1.9)	0.1	3 17	(1.7) (12.9)	0.1 1.3	1	(0.6)	0.0	4 22	(2.5)	0.1	3	(1.8)	0.1	-7.5% 2.1%
Finland	18 7	(13.5) (4.5)	1.4 0.1	2	(12.9)	0.0	26 4	(22.0)	2.0	4	(3.1)	1.7 0.1	16	(15.8) (1.7)	1.2	-3.1% -27.0%
France	_	(4.5)	-	33	(1.4)	0.0	-	(2.7)	-	21	(100.0)	0.0	20	(100.0)	0.0	-27.0 /0
Germany	40	(1.8)	0.0	50	(2.3)	0.0	51	(2.4)	0.1	55	(2.5)	0.0	29	(1.7)	0.0	-8.2%
Greece	3	(1.9)	0.0	2	(2.0)	0.0	5	(3.5)	0.0	4	(3.5)	0.0	6	(3.4)	0.0	19.3%
Hungary	6	(1.8)	0.1	12	(4.1)	0.0	7	(2.5)	0.0	8	(2.7)	0.0	7	(3.0)	0.1	4.1%
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	4.170
Ireland ^b	1	(1.0)	0.0	4	(3.1)	0.0	2	(1.9)	0.0	3	(3.2)	0.0	1	(1.1)	0.0	-1.2%
Italy	18	(2.3)	0.0	24	(3.1)	0.0	45	(2.4)	0.0	32	(1.8)	0.1	34	(2.0)	0.0	17.4%
Latvia	36	(7.9)	1.8	32	(7.6)	1.6	28	(7.7)	1.4	_	(1.0)	-	_	(2.0)	-	-,,-,70
Liechtenstein	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	_	_	_	_
Lithuania	104	(11.6)	3.6	117	(13.3)	4.1	110	(12.9)	3.9	88	(11.7)	3.1	90	(12.4)	3.2	-2.5%
Luxembourg	-	-	-	-	(.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	5	(1.4)	0.0	6	(1.8)	0.0	4	(1.2)	0.0	3	(0.9)	0.0	6	(2.1)	0.0	4.1%
Norway ^b	4	(2.6)	0.1	8	(5.4)	0.2	6	(4.5)	0.1	4	(4.0)	0.1	1	(1.2)	0.0	-29.8%
Poland	19	(0.5)	0.0	27	(0.7)	0.1	30	(0.9)	0.1	31	(1.0)	0.1	29	(0.9)	0.1	11.2%
Portugal	12	(1.2)	0.1	11	(1.2)	0.1	8	(0.9)	0.1	4	(0.5)	0.0	3	(0.6)	0.0	-29.1%
Romania	129	(2.0)	0.6	129	(2.1)	0.7	102	(1.7)	0.5	117	(2.0)	0.6	113	(2.0)	0.6	-2.7%
Slovakia	1	(0.7)	0.0	2	(2.2)	0.0	4	(4.1)	0.1	0	(0.0)	0.0	1	(1.3)	0.0	-0.1%
Slovenia	0	(0.0)	0.0	0	(0.0)	0.0	1	(1.2)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	-
Spain	16	(2.0)	0.0	7	(2.2)	0.0	14	(1.6)	0.0	12	(1.5)	0.0	8	(1.4)	0.0	-16.1%
Sweden	14	(3.3)	0.1	11	(3.0)	0.1	8	(3.2)	0.1	5	(1.8)	0.0	4	(1.7)	0.0	-27.8%
United Kingdom ^b	28	(1.2)	0.0	35	(1.5)	0.1	28	(1.3)	0.0	17	(0.9)	0.0	22	(1.2)	0.0	-6.5%
Subtotal EU/EEA	487	(2.2)	0.1	555	(2.1)	0.1	513	(2.3)	0.1	470	(2.2)	0.1	420	(2.2)	0.1	-7.1%
Non-EU/EEA																
Albania	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	1	(1.7)	0.0	0	(0.0)	0.0	-
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	42	(14.6)	1.4	55	(15.4)	1.9	40	(12.5)	1.4	43	(17.2)	1.5	33	(14.3)	1.1	-6.1%
Azerbaijan	195	(15.9)	2.0	161	(15.4)	1.7	170	(12.8)	1.7	160	(8.4)	1.6	111	(6.1)	1.1	-14.1%
Belarus	678	(35.8)	7.2	654	(37.1)	6.9	629	(37.2)	6.7	559	(36.6)	5.9	503	(33.8)	5.3	-7.2%
Bosnia and Herzegovina	2	(0.3)	0.1	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	-100.0%
Georgia	168	(11.6)	4.2	142	(10.2)	3.5	129	(10.5)	3.2	93	(11.5)	2.3	121	(10.8)	3.0	-7.7%
Israel	10	(6.8)	0.1	9	(7.4)	0.1	7	(5.4)	0.1	13	(8.4)	0.2	9	(8.6)	0.1	-4.2%
Kazakhstan	1 310	(24.0)	7.5	832	(25.5)	4.7	710	(32.9)	3.9	435	(16.0)	2.4	756	(20.4)	4.1	-14.0%
Kyrgyzstan	426	(25.0)	7.1	398	(21.9)	6.6	392	(22.4)	6.3	523	(30.4)	8.3	589	(25.2)	9.2	6.5%
Monaco	-	_	-	-	_	-	-	_	_	-	_	-	-	-	_	-
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	3	(1.8)	0.1	2	(1.5)	0.1	0	(0.0)	0.0	2	(1.6)	0.1	0	(0.0)	0.0	-100.0%
Republic of Moldova	402	(31.1)	9.9	304	(25.6)	7.5	308	(26.6)	7.6	309	(24.4)	7.6	299	(25.0)	7.4	-7.0%
Russian Federation	8 603	(26.7)	5.9	8 463	(27.3)	5.8	8 206	(28.2)	5.6	8 880	(31.8)	6.1	8 585	(32.8)	5.9	-0.2%
San Marino	-	-	-	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	
Serbia	4	(1.0)	0.0	3	(0.8)	0.0	1	(0.3)	0.0	2	(0.7)	0.0	2	(0.8)	0.0	-15.7%
Serbia excluding Kosovo¹	2	(0.9)	0.0	3	(0.8)	0.0	1	(0.3)	0.0	2	(0.7)	0.0	2	(0.8)	0.0	400.00
Kosovo¹	2	(1.0)	0.1	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	-100.0%
Switzerland	7	(3.2)	0.1	12	(4.3)	0.1	6	(2.2)	0.1	3	(1.1)	0.0	5	(2.6)	0.1	-8.9%
Tajikistan	484	(24.2)	5.7	495	(20.8)	5.7	413	(83.3)	4.7	296	(72.7)	3.3	262	(14.6)	2.8	-16.3%
Turkey	122	(2.6)	0.2	110	(2.2)	0.1	121	(2.5)	0.1	123	(2.6)	0.1	88	(1.9)	0.1	-9.2%
Turkmenistan	-	-	-	-	(00.0)	-	-	- (21.1)	-	-	- (00.0)	-	-	-	-	-
Ukraine	2 856	(21.3)	6.4	2 881	(22.0)	6.4	2 594	(21.4)	5.8	2 755	(22.3)	6.2	2 588	(20.5)	5.9	-1.9%
	211	(44.6)	0.7	292	(38.6)	0.9	351	(9.9)	1.1	392	(8.1)	1.2	560	(10.7)	1.7	25.6%
Uzbekistan	48.505	100 -1														
Subtotal non-EU/EEA Total European Region	15 523 16 010	(22.9)	3.9 1.9	14 813 15 368	(22.9)	3.7 1.7	14 077 14 590	(23.1)	3.5 1.7	14 589 15 059	(23.8) (17.9)	3.6 1.6	14 511 14 931	(22.9) (18.1)	3.6 1.6	-2.3% -3.9%

Note: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are 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-TB: mutidrug-resitant 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 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.

*All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

Table VI. MDR-TB notification among previously treated bacteriologically confirmed pulmonary TB cases with available DST results, European Region, 2015-2019

		2015			2016			2017			2018			2019		Mean
Country/area	N	%	Rate per 100 000	N	%	Rate per 100 000	N	%	Rate per 100000	N	%	Rate per 100 000	N	%	Rate per 100 000	annual % change in rate, 2015– 2019
EU/EEA																
Austria	2	(16.7)	0.0	3	(17.6)	0.0	2	(13.3)	0.0	3	(21.4)	0.0	1	(8.3)	0.0	-16.6%
Belgium ^b	2	(5.9)	0.0	2	(5.7)	0.0	2	(5.1)	0.0	1	(2.9)	0.0	3	(7.5)	0.0	10.1%
Bulgaria	19	(20.7)	0.3	14	(17.3)	0.2	11	(13.3)	0.2	14	(19.4)	0.2	5	(10.0)	0.1	-27.9%
Croatia	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	1	(6.3)	0.0	1	(10.0)	0.0	-
Cyprus	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	-
Czechia	2	(8.0)	0.0	2	(16.7)	0.0	3	(18.8)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	-100.0%
Denmark ^b	1	(4.5)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	-100.0%
Estonia	18	(51.4)	1.4	6	(46.2)	0.5	10	(47.6)	0.8	8	(44.4)	0.6	10	(50.0)	0.8	-13.8%
Finland	0	(0.0)	0.0	0	(0.0)	0.0	1	(33.3)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	-
France	-	-	-	18	(6.8)	0.0	-	-	-	16	(100.0)	0.0	18	(100.0)	0.0	-
Germany	29	(18.1)	0.0	18	(12.8)	0.0	22	(18.5)	0.0	23	(17.4)	0.0	18	(16.1)	0.0	-11.7%
Greece	5	(18.5)	0.0	2	(20.0)	0.0	1	(5.9)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	-100.0%
Hungary	2	(5.0)	0.0	6	(16.2)	0.1	4	(14.8)	0.0	4	(11.8)	0.0	5	(22.7)	0.1	26.0%
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	0	(0.0)	0.0	2	(16.7)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	1	(11.1)	0.0	-
Italy	14	(12.5)	0.0	9	(9.3)	0.0	11	(14.7)	0.0	10	(14.9)	0.0	4	(12.9)	0.0	-26.8%
Latvia	26	(29.9)	1.3	21	(23.3)	1.1	17	(28.8)	0.9	-	-	-	-	_	_	-
Liechtenstein	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	-	-	-	-
Lithuania	134	(46.5)	4.6	125	(43.0)	4.3	138	(51.5)	4.8	82	(37.6)	2.9	67	(37.2)	2.4	-15.0%
Luxembourg	-	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	2	(8.7)	0.0	4	(30.8)	0.0	1	(7.1)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	-100.0%
Norway ^b	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	1	(16.7)	0.0	_
Poland	13	(3.0)	0.0	18	(4.0)	0.0	14	(3.6)	0.0	15	(3.4)	0.0	11	(2.7)	0.0	-4.1%
Portugal	7	(8.3)	0.1	2	(2.9)	0.0	2	(2.9)	0.0	1	(2.0)	0.0	2	(5.1)	0.0	-26.7%
Romania	401	(17.3)	2.0	336	(15.6)	1.7	265	(13.6)	1.3	232	(12.7)	1.2	189	(11.3)	1.0	-16.7%
Slovakia	1	(6.3)	0.0	1	(5.6)	0.0	1	(3.8)	0.0	2	(13.3)	0.0	4	(19.0)	0.1	41.2%
Slovenia	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	71.2 /0
Spain	1	(2.0)	0.0	4	(0.8)	0.0	11	(2.0)	0.0	2	(4.7)	0.0	0	(0.0)	0.0	-100.0%
Sweden	2	(11.8)	0.0	3	(15.8)	0.0	1	(4.8)	0.0	2	(18.2)	0.0	0	(0.0)	0.0	-100.0%
United Kingdom ^b	5	(3.2)	0.0	8	(5.0)	0.0	4	(3.0)	0.0	7	(4.5)	0.0	3	(2.5)	0.0	-12.6%
Subtotal EU/EEA	686	(16.7)	0.0	604	(13.3)	0.0	521	(13.2)	0.0	423	(13.1)	0.0	343	(12.0)	0.1	-16.2%
Non-EU/EEA	000	(10.7)	0.1	004	(13.3)	0.1	321	(13.2)	0.1	423	(13.1)	0.1	242	(12.0)	0.1	-10.270
Albania	4	(66.7)	0.1	1	(50.0)	0.0	0	(0.0)	0.0	1	(25.0)	0.0	2	(66.7)	0.1	-15.8%
Andorra	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	0		0.0	-13.070
Armenia	47	(87.0)		60	(57.7)	2.0	41	(38.0)		33	(40.2)	1.1	23	(35.4)	0.8	-16.6%
		(29.7)	1.6	616					1.4		(19.0)			(15.5)	3.0	
Azerbaijan	711 597		7.4	568	(39.3)	6.3	495	(29.0)	5.0	478		4.8	303		3.2	-20.1%
Belarus		(68.4)	6.3		(71.6)	6.0	459	(65.6)	4.9	425	(69.4)	4.5	305	(58.3)		-15.5%
Bosnia and Herzegovina	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	42.60/
Georgia	186	(38.8)	4.6	154	(38.0)	3.8	133	(35.5)	3.3	74	(33.3)	1.8	108	(36.7)	2.7	-12.6%
Israel	1 411	(16.7)	0.0	200	(0.0)	0.0	1	(50.0)	0.0	1.027	(0.0)	0.0	0	(0.0)	0.0	-100.0%
Kazakhstan	1 411	(40.0)	8.0	399	(20.5)	2.2	953	(46.7)	5.3	1 027	(38.2)	5.6	813	(28.9)	4.4	-14.0%
Kyrgyzstan	450	(56.3)	7.6	466	(56.3)	7.7	435	(50.2)	7.0	718	(70.0)	11.4	508	(52.0)	7.9	1.2%
Monaco	-	(0.0)	-	-	(0.0)	-	-	- (41.2)	-	-	(22.2)	-	-	(2.2)	-	_
Montenegro	0	(0.0)	0.0	0	(0.0)	0.0	1	(14.3)	0.2	1	(33.3)	0.2	0	(0.0)	0.0	-
North Macedonia	1	(6.7)	0.0	0	(0.0)	0.0	1	(5.3)	0.0	0	(0.0)	0.0	1	(7.1)	0.0	0.0%
Republic of Moldova	501	(71.9)	12.3	221	(57.4)	5.4	178	(54.4)	4.4	316	(60.9)	7.8	142	(41.2)	3.5	-26.9%
Russian Federation	8 529	(59.1)	5.9	17 508	(65.2)	12.1	14 611	(58.9)	10.0	15 155	(62.9)	10.4	15 858	(65.3)	10.9	16.6%
San Marino	-	-	-	0	-	0.0	0	-	0.0	0	-	0.0	0	-	0.0	_
Serbia	1	(2.8)	0.0	5	(12.5)	0.1	4	(13.3)	0.0	1	(3.7)	0.0	0	(0.0)	0.0	-100.0%
Serbia excluding Kosovo¹	1	(2.8)	0.0	3	(7.5)	0.0	4	(13.3)	0.0	1	(3.7)	0.0	0	(0.0)	0.0	-100.0%
Kosovo¹	-	-	-	2	(6.3)	0.1	0	(0.0)	0.0	0	(0.0)	0.0	-	-	-	-
Switzerland	4	(21.1)	0.0	1	(7.1)	0.0	2	(22.2)	0.0	1	(6.7)	0.0	2	(8.7)	0.0	-16.6%
Tajikistan	97	(48.7)	1.1	151	(46.3)	1.7	133	(86.4)	1.5	120	(83.3)	1.3	46	(22.3)	0.5	-19.0%
Turkey	102	(17.9)	0.1	80	(13.7)	0.1	61	(11.2)	0.1	44	(10.0)	0.1	33	(8.9)	0.0	-25.7%
Turkmenistan	-	-	-	-	-	_	-	-	_	_	_	-	-	_	-	_
Ukraine	3 169	(41.5)	7.1	2 875	(40.8)	6.4	2 414	(37.1)	5.4	2 299	(37.0)	5.2	1 902	(32.6)	4.3	-11.5%
Uzbekistan	185	(56.2)	0.6	311	(25.3)	1.0	189	(12.5)	0.6	424	(21.1)	1.3	418	(19.5)	1.3	20.6%
Subtotal non-EU/EEA	15 996	(49.8)	4.0	23 416	(55.5)	5.9	20 111	(50.6)	5.0	21 117	(52.0)	5.2	20 464	(51.3)	5.0	5.7%
Total European Region	16 682	(46.1)	2.0	24 020	(51.4)	2.6	20 632	(47.0)	2.4	21 540	(48.8)	2.3	20 807	(48.7)	2.3	3.3%
Subtotal 18 HPCs	16 583	(47.7)	4.2		(53.5)			(48.9)	5.1		(50.2)		20 730	(49.7)	5.2	5.3%

Note: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are 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-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 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.

*All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

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

		2015			2016			2017			2018			2019		Mean
Country	N	%	Rate per 100000	N	%	Rate per 100000	N	%	Rate per 100 000	N	%	Rate per 100 000	N	%	Rate per 100000	annual % change in rate, 2015- 2019
EU/EEA																
Austria	12	(2.8)	0.1	17	(3.6)	0.2	18	(4.2)	0.2	18	(5.2)	0.2	4	(1.2)	0.0	-24.6%
Belgium	15	(2.0)	0.1	10	(1.3)	0.1	5	(0.7)	0.0	7	(1.0)	0.1	15	(2.1)	0.1	-0.5%
Bulgaria	24	(3.6)	0.3	19	(2.8)	0.3	24	(4.0)	0.3	24	(4.4)	0.3	11	(2.4)	0.2	-17.1%
Croatia	1	(0.3)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	2	(0.7)	0.0	2	(0.9)	0.0	20.0%
Cyprus	0	(0.0)	0.0	1	(2.4)	0.1	1	(2.6)	0.1	0	(0.0)	0.0	1	(1.9)	0.1	-
Czechia	9	(2.4)	0.1	6	(1.6)	0.1	8	(2.3)	0.1	12	(3.7)	0.1	8	(2.4)	0.1	-3.2%
Denmark	6	(2.2)	0.1	4	(1.6)	0.1	2	(0.9)	0.0	4	(1.8)	0.1	4	(1.8)	0.1	-10.2%
Estonia	38	(21.2)	2.9	24	(15.8)	1.8	36	(25.4)	2.7	30	(24.6)	2.3	26	(20.5)	2.0	-9.2%
Finland	8	(3.8)	0.1	6	(3.3)	0.1	5	(2.6)	0.1	4	(2.2)	0.1	2	(1.2)	0.0	-29.4%
France	96	(2.3)	0.1	71	(1.7)	0.1	79	(1.9)	0.1	82	(100.0)	0.1	75	(100.0)	0.1	-6.2%
Germany	112	(2.8)	0.1	104	(2.6)	0.1	117	(3.0)	0.1	118	(3.0)	0.1	86	(2.6)	0.1	-6.9%
Greece	9	(4.3)	0.1	4	(3.4)	0.0	7	(3.7)	0.1	5	(3.2)	0.0	6	(2.7)	0.1	-9.4%
Hungary	8	(2.1)	0.1	18	(5.3)	0.2	11	(3.5)	0.1	12	(3.6)	0.1	12	(4.6)	0.1	10.9%
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	1	(0.5)	0.0	6	(2.6)	0.1	5	(2.5)	0.1	5	(2.4)	0.1	3	(1.7)	0.1	30.1%
Italy	70	(2.7)	0.1	70	(2.6)	0.1	66	(2.5)	0.1	53	(2.1)	0.1	46	_	0.1	-9.8%
Latvia	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	-	-	-	-
Lithuania	241	(19.7)	8.2	244	(20.3)	8.4	249	(21.7)	8.7	170	(17.1)	6.1	159	(17.0)	5.7	-8.9%
Luxembourg	0	(0.0)	0.0	1	(4.0)	0.2	1	(4.3)	0.2	1	(2.9)	0.2	1	(3.1)	0.2	-
Malta	1	(4.5)	0.2	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	-100.0%
Netherlands	8	(1.4)	0.0	14	(2.5)	0.1	9	(1.7)	0.1	6	(1.1)	0.0	7	(1.6)	0.0	-3.8%
Norway	5	(2.0)	0.1	11	(4.8)	0.2	9	(4.2)	0.2	4	(2.4)	0.1	2	(1.5)	0.0	-21.1%
Poland	35	(0.8)	0.1	46	(1.1)	0.1	44	(1.2)	0.1	48	(1.3)	0.1	41	(1.1)	0.1	4.1%
Portugal	23	(1.8)	0.2	15	(1.3)	0.1	10	(0.9)	0.1	8	(0.8)	0.1	5	(0.9)	0.0	-31.6%
Romania	538	(6.0)	2.7	470	(5.5)	2.4	372	(4.5)	1.9	356	(4.4)	1.8	304	(4.0)	1.6	-12.8%
Slovakia	2	(1.3)	0.0	3	(2.7)	0.1	6	(4.5)	0.1	2	(1.4)	0.0	5	(4.4)	0.1	25.6%
Slovenia	0	(0.0)	0.0	0	(0.0)	0.0	1	(0.9)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	-
Spain	18	(1.7)	0.0	15	(1.4)	0.0	29	(1.7)	0.1	19	(1.8)	0.0	9	(1.1)	0.0	-16.1%
Sweden	22	(3.2)	0.2	22	(3.7)	0.2	11	(2.6)	0.1	13	(3.2)	0.1	7	(1.8)	0.1	-25.8%
United Kingdom	48	(1.3)	0.1	58	(1.5)	0.1	50	(1.4)	0.1	40	(1.3)	0.1	37	(1.2)	0.1	-6.9%
Total EU/EEA	1 413	(3.7)	0.3	1 315	(3.6)	0.3	1 2 2 1	(3.4)	0.2	1 043	(3.1)	0.2	878	(3.1)	0.2	-11.4%

Note: WHO European Region TB high-priority countries are 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-TB: multidrug-resistant tuberculosis.

* Culture-positive OR microscopy-positive and nucleic acid amplification test-positive cases.

Table VIII. XDR-TB notification among pulmonary MDR-TB cases with second-line DST results, a European Region, 2015-2019

		2015			2016			2017			2018			2019	
Country/area	MDR-TB tested for SLD (N)	XDR-TB cases (N)	Percentage among cases tested for SLD	MDR-TB tested for SLD (N)	XDR-TB cases (N)	Percentage among cases tested for SLD	MDR-TB tested for SLD (N)	XDR-TB cases (N)	Percentage among cases tested for SLD	MDR-TB tested for SLD (N)	XDR-TB cases (N)	Percentage among cases tested for SLD	MDR-TB tested for SLD (N)	XDR-TB cases (N)	Percentage among cases tested for SLD
EU/EEA															
Austria	9	1	(11.1)	15	2	(13.3)	16	3	(18.8)	15	0	(0.0)	3	0	(0.0)
Belgium	11	2	(18.2)	9	0	(0.0)	3	0	(0.0)	7	3	(42.9)	11	0	(0.0)
Bulgaria	21	4	(19.0)	19	0	(0.0)	23	1	(4.3)	24	0	(0.0)	11	0	(0.0)
Croatia	1	0	(0.0)	0	-	-	0	_	-	1	0	(0.0)	1	1	(100.0)
Cyprus	0	-	-	0	-	_	1	0	(0.0)	0	-	-	1	0	(0.0)
Czechia	6	1	(16.7)	5	0	(0.0)	6	2	(33.3)	10	0	(0.0)	3	0	(0.0)
Denmark	5	1	(20.0)	3	0	(0.0)	1	0	(0.0)	4	0	(0.0)	3	0	(0.0)
Estonia	35	8	(22.9)	23	7	(30.4)	34	10	(29.4)	30	9	(30.0)	24	4	(16.7)
Finland	8	1	(12.5)	3	1	(33.3)	5	1	(20.0)	4	1	(25.0)	1	0	(0.0)
France	76	8	(10.5)	69	6	(8.7)	79	10	(12.7)	61	8	(13.1)	59	8	(13.6)
Germany	71	9	(12.7)	65	7	(10.8)	73	5	(6.8)	78	8	(10.3)	49	7	(14.3)
Greece	0	_	(12.7)	0	_	(10.0)	6	1	(16.7)	5	1	(20.0)	3	0	(0.0)
Hungary	7	1	(14.3)	15	7	(46.7)	10	4	(40.0)	11	3	(27.3)	5	3	(60.0)
Iceland	0	_	(14.3)	0	_	(40.7)	0	-	(40.0)	0	_	(27.3)	0	-	(00.0)
Ireland	0	-	_	5	0	(0.0)	5	1	(20.0)	4	0	(0.0)	2	0	(0.0)
	31	6	(19.4)	43	5	(11.6)	45	5	(20.0)	37	4	(10.8)	31	2	(6.5)
Italy											4	(10.8)	31	2	(6.5)
Latvia	62	16	(25.8)	53	20	(37.7)	45	17	(37.8)	-	-	-	-	-	-
Liechtenstein	0	-	- (2)	0	-	(2 , 2)	0	-	(0 = 1)	0	-	- (2 , 1)	-	-	(2 (2)
Lithuania	238	58	(24.4)	242	58	(24.0)	248	87	(35.1)	170	58	(34.1)	157	57	(36.3)
Luxembourg	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-
Malta	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-
Netherlands	0	-	-	8	0	(0.0)	5	0	(0.0)	3	1	(33.3)	6	1	(16.7)
Norway	4	0	(0.0)	8	0	(0.0)	6	0	(0.0)	4	0	(0.0)	1	0	(0.0)
Poland	23	4	(17.4)	38	8	(21.1)	35	5	(14.3)	41	12	(29.3)	31	4	(12.9)
Portugal	16	5	(31.3)	12	3	(25.0)	7	0	(0.0)	1	0	(0.0)	2	0	(0.0)
Romania	317	68	(21.5)	215	67	(31.2)	199	58	(29.1)	225	46	(20.4)	123	38	(30.9)
Slovakia	2	0	(0.0)	3	0	(0.0)	5	2	(40.0)	2	0	(0.0)	5	0	(0.0)
Slovenia	0	-	-	0	-	-	1	0	(0.0)	0	-	-	0	-	-
Spain	6	0	(0.0)	5	0	(0.0)	8	0	(0.0)	8	1	(12.5)	2	0	(0.0)
Sweden	16	1	(6.3)	14	4	(28.6)	9	0	(0.0)	7	0	(0.0)	4	0	(0.0)
United Kingdom	34	10	(29.4)	43	6	(14.0)	32	3	(9.4)	25	5	(20.0)	25	1	(4.0)
Subtotal EU/EEA	999	204	(20.4)	915	201	(22.0)	907	215	(23.7)	777	160	(20.6)	563	126	(22.4)
Non-EU/EEA															
Albania	0	-	-	-	-	-	0	-	-	-	-	-	0	-	-
Andorra	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-
Armenia	89	8	(9.0)	53	6	(11.3)	81	13	(16.0)	76	14	(18.4)	22	12	(54.5)
Azerbaijan	670	125	(18.7)	-	-	-	-	-	-	-	-	-	367	89	(24.3)
Belarus	1 275	453	(35.5)	1246	572	(45.9)	1.088	343	(31.5)	984	185	(18.8)	807	185	(22.9)
Bosnia and Herzegovina	_	-	-	0	-	-	-	-	_	-	-	-	-	-	_
Georgia	347	62	(17.9)	296	52	(17.6)	246	44	(17.9)	159	34	(21.4)	203	31	(15.3)
Israel	11	1	(9.1)	9	2	(22.2)	8	1	(12.5)	13	7	(53.8)	9	0	(0.0)
Kazakhstan	-	-	_	-	-	_	-	-	-	-	_	_	-	-	_
Kyrgyzstan	235	44	(18.7)	407	72	(17.7)	353	127	(36.0)	926	119	(12.9)	887	93	(10.5)
Monaco		_	-	-	-	-	-	-	-	-	-	-	-	_	-
Montenegro	0	-	_	0	-	-	1	1	(100.0)	1	0	(0.0)	0	_	_
North Macedonia	0	_	_	0	_	_	0	_	(100.0)	0	_	(0.0)	0	-	_
Republic of Moldova		-	-	514	42	(8.2)	475	30	(6.3)	616	74	(12.0)	441	49	(11.1)
	-	_	_		3 402		20 477			23 997	4 970				
Russian Federation	-			25 258	3 402	(13.5)		3 562	(17.4)		4 9/0	(20.7)	23 646	5 559	(23.5)
San Marino	-	-	-	0	_	(7.4)	0	-	_	0	-	-	0	-	-
Serbia	-	-	-	14	1	(7.1)	-	-	-	0	-	-	-	-	-
Serbia excluding Kosovo¹	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kosovo¹	-	-	- (10.0)	-	-	- (2.2)	-	-	-	-	-	- (22.2)	-	-	-
Switzerland	11	2	(18.2)	13	0	(0.0)	-	-	-	4	1	(25.0)	7	0	(0.0)
Tajikistan	561	54	(9.6)	697	59	(8.5)	508	279	(54.9)	312	52	(16.7)	287	75	(26.1)
Turkey	133	3	(2.3)	130	9	(6.9)	100	2	(2.0)	120	8	(6.7)	76	8	(10.5)
Turkmenistan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ukraine	-	-	-	7 519	247	(3.3)	5 008	1 001	(20.0)	5 054	972	(19.2)	4 490	853	(19.0)
Uzbekistan	-	-	-	1 986	184	(9.3)	-	_	_	-	-	-	515	179	(34.8)
Subtotal non-EU/EEA	3 332	752	(22.6)	38 142	4 648	(12.2)	28 345	5 403	(19.1)	32 262	6 436	(19.9)	31757	7 133	(22.5)
Total European Region	4 331	956	(22.1)	39 057	4 849	(12.4)	29 252	5 618	(19.2)	33 039	6 596	(20.0)	32 320	7 259	(22.5)

Note: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. DST: drug-susceptibility testing.
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-TB drug-susceptibility testing for at least one fluoroquinolone (ciprofloxacin, gatifloxacin, moxifloxacin and ofloxacin) and one injectable drug (amikacin, capreomycin and kanamycin).
*All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

Table IX. TB cases with HIV infection, European Region, 2015–2019

		C	2015				C	2016				C	2017		
	cases (N)	Cases with HIV sta		HIV po	sitive	es (N)	Cases wit		HIV po	sitive	cases (N)	Cases wit HIV st		HIV po	sitive
Country/area	All TB cas	N	%	N	% ^b	All TB cases (N)	N	%	N	%⁵	All TB cas	N	%	N	% ^b
EU/EEA															
Austria	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Belgium	977	432	(44.2)	31	(7.2)	1042	477	(45.8)	33	(6.9)	967	514	(53.2)	43	(8.4)
Bulgaria	1 660	1 311	(79.0)	1	(0.1)	1 603	1260	(78.6)	0	(0.0)	1 4 6 3	1204	(82.3)	3	(0.2)
Croatia	-	_	_	-	_	464	4	(0.9)	0	(0.0)	378	3	(0.8)	0	(0.0)
Cyprus	63	48	(76.2)	2	(4.2)	60	48	(80.0)	0	(0.0)	53	49	(92.5)	0	(0.0)
Czechia	517	182	(35.2)	2	(1.1)	516	205	(39.7)	5	(2.4)	501	195	(38.9)	8	(4.1)
Denmark	357	9	(2.5)	8	(88.9)	330	150	(45.5)	9	(6.0)	275	211	(76.7)	3	(1.4)
Estonia	217	210	(96.8)	26	(12.4)	192	185	(96.4)	22	(11.9)	175	163	(93.1)	14	(8.6)
Finland	-	_	-	-	-	_	-	-	-	-	_	_	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Germany	-	_	_	-	_	_	_	-	-	_	_	_	_	-	-
Greece	482	343	(71.2)	22	(6.4)	440	296	(67.3)	8	(2.7)	467	389	(83.3)	13	(3.3)
Hungary	906	20	(2.2)	1	(5.0)	786	19	(2.4)	1	(5.3)	685	18	(2.6)	1	(5.6)
celand	7	7	(100.0)	0	(0.0)	6	6	(100.0)	0	(0.0)	14	13	(92.9)	0	(0.0)
reland	283	136	(48.1)	8	(5.9)	315	139	(44.1)	4	(2.9)	300	156	(52.0)	14	(9.0)
taly	-	-	(40.1)	-	(3.7)	-	-	(441)	-	(2.7)	-	-	(32.0)	-	(7.0)
Latvia	721	449	(62.3)	78	(17.4)	660	507	(76.8)	57	(11.2)	552	471	(85.3)	52	(11.0)
Liechtenstein	-	-	(02.5)	-	(17.4)	-	-	(/0.0)	-	(11.2)	-	-	(0).)	-	(11.0)
Lithuania	1 507	1 082	(71.8)	39	(3.6)	1 442	1 138	(78.9)	41	(3.6)	1 387	1 125	(81.1)	42	(3.7)
uxembourg	-	-	-	-	(5.0)	29	5	(17.2)	2	(40.0)	32	3	(9.4)	1	(33.3)
Malta	32	26	(81.3)	4	(15.4)	50	46	(92.0)	8	(17.4)	42	37	(88.1)	0	(0.0)
Netherlands	862	637	(73.9)	36	(5.7)	887	646	(72.8)	20	(3.1)	783	602	(76.9)	23	(3.8)
Vernertands	313	260	(83.1)	8	(3.1)	295	255	(86.4)	10	(3.9)	261	228	(87.4)	7	(3.1)
Poland	-	_	(03.1)	_	(5.1)		-	(00.4)	-	(3.7)	-	-	(07.4)	_	(3.1)
Portugal	2 195	1984	(90.4)	232	(11.7)	1936	1697	(87.7)	183	(10.8)	1 914	1744	(91.1)	149	(8.5)
Romania	15 183	11 533	(76.0)	308	(2.7)	13 601	10 844	(79.7)	305	(2.8)	12 997	10 890	(83.8)	232	(2.1)
Slovakia	317	201	(63.4)	0	(0.0)	296	132	(44.6)	0	(0.0)	249	227	(91.2)	0	(0.0)
Slovenia	130	108	(83.1)	0	(0.0)	118	95	(80.5)	1	(1.1)	112	80	(71.4)	0	(0.0)
Spain	5 020	3 156	(62.9)	223	(7.1)	5 070	3 021	(59.6)	243	(8.0)	5 660	2 8 4 5	(50.3)	266	(9.3)
Sweden	7 020	J 150 -	(02.7)	-	(7.1)	-	7 021	(37.0)	-	(0.0)	7000	2 043	(50.5)	-	(7.5)
Jnited Kingdom	6 229	5 211	(83.7)	219	(4.2)	6 117	5 244	(85.7)	178	(3.4)	5 537	4 817	(87.0)	150	(3.1)
Subtotal EU/EEA	37 978	27 345	(72.0)	1248	(4.6)	36 255	26 419	(72.9)	1 130	(4.3)	34 804	25 984	(74.7)	1 021	(3.9)
Non-EU/EEA	31 710	21 343	(12.0)	1240	(4.0)	30 233	20 417	(12.7)	1 150	(4.5)	77 007	23 704	(17.1)	1021	(3.7)
Albania	415	183	(44.1)	6	(3.3)	415	223	(53.7)	6	(2.7)	503	235	(46.7)	4	(1.7)
Andorra	4	0	(0.0)	-	(5.5)	4	0	(0.0)	-	(2.7)	1	0	(0.0)	-	-
Armenia	1 171	1 090	(93.1)	99	(9.1)	1 027	1 027	(100.0)	57	(5.6)	841	838	(99.6)	66	(7.9)
Azerbaijan	5 456	6 964	(127.6)	112	(1.6)	5 159	4 722	(91.5)	99	(2.1)	5 231	5 889	(112.6)	95	(1.6)
Belarus	3 765	3 740	(99.3)	206	(5.5)	3 211	3 148	(98.0)	275	(8.7)	2 781	2 781	(100.0)	202	(7.3)
Bosnia and Herzegovina	1092	209	(19.1)	0	(0.0)	907	1	(0.1)	1	(100.0)	766	18	(2.3)	0	(0.0)
Georgia	3 152	2 809	(89.1)	79	(2.8)	2 983	2 866	(96.1)	61	(2.1)	2 597	2 442	(94.0)	43	(1.8)
srael	280	280	(100.0)	14	(5.0)	250	250	(100.0)	18	(7.2)	234	234	(100.0)	12	(5.1)
Kazakhstan	14 006	13 838	(98.8)	376	(2.7)	12 322	10 616	(86.2)	576	(5.4)	12 449	11 056	(88.8)	443	(4.0)
Kyrgyzstan	7 027	6 745	(96.0)	206	(3.1)	7 026	6 254	(89.0)	210	(3.4)	6 687	5 966	(89.2)	216	(3.6)
Monaco	0	0 /43	(90.0)	200	(3.1)	7 020	0 2 3 4	(09.0)	210	(5.4)	0 00/	J 900 -	(07.2)	210	(3.0)
Montenegro	80	73	(91.3)	1	(1.4)	87	60	(69.0)	0	(0.0)	75	63	(84.0)	0	(0.0)
North Macedonia	282	185	(65.6)	0	(0.0)	263	207	(78.7)	0	(0.0)	216	178	(82.4)	0	(0.0)
Republic of Moldova	3 608	3 439	(95.3)	300	(8.7)	3 571	3 3 6 6	(94.3)	293	(8.7)	3 358	3 352	(99.8)	277	(8.3)
Russian Federation	99 590	65 585	(65.9)	6 407	(9.8)	92 407	79 935	(86.5)	16 570	(20.7)	3 338 84 510	81 443	(96.4)	15 695	(19.3)
San Marino	77 270	00 000	(05.9)	0 40/	(9.8)	92 407	17700	(86.5)	16 5/0	(20.7)	84 510	81443	(70.4)		(19.3)
Serbia	879	91	(10.4)	4	(4.4)	755	84	(11.1)	5	(6.0)	1 450	71	(4.9)	- 8	(11.3)
	879	91					84		5			91			
Serbia excluding Kosovo ¹ Kosovo ¹	8/9	91	(10.4)	4	(4.4)	755	84	(11.1)	5	(6.0)	738		(12.3)	8	(8.8)
	-	-	-	-	-	-	-	-		-	712	0	(0.0)	-	_
Switzerland Tajikistan			(05.5)	452		0	F 050		201				(100.7)		
,	5 894	5 627	(95.5)	152	(2.7)	5 965	5 850	(98.1)	201	(3.4)	5 895	5 937	(100.7)	219	(3.7)
Turkey	12 550	8 759	(69.8)	59	(0.7)	12 186	8 549	(70.2)	56	(0.7)	11 821	8 423	(71.3)	65	(0.8)
Turkmenistan	20.454	20.7/0	(00.7)	- ((27	(22.2)	20.052	20.407	(07.0)		(20.7)	27.220	- 26 622	(07.0)		(22 ()
Jkraine University	30 151	29 749	(98.7)	6 637	(22.3)	29 052	28 194	(97.0)	5 832	(20.7)	27 229	26 623	(97.8)	5 955	(22.4)
Uzbekistan	16 315	13 058	(80.0)	841	(6.4)	16 050	18 441	(114.9)	758	(4.1)	16 842	16 842	(100.0)	935	(5.6)
Subtotal non-EU/EEA	205 717 243 695	162 424 189 769	(79.0)	15 499	(9.5)	193 640 229 895	173 793 200 212	(89.8)	25 018 26 148	(14.4)	183 486 218 290	172 391 198 375	(94.0)	24 235 25 256	(14.1)
Total European Region			(77.9)	16 747	18 81	/ /u yus			7 to 7/132	112.11	718 7UN	THE 275	(90.9)	15 756	(12.7)

Note: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. For non-EU/EEA countries and areas, data are for new and relapse cases only for 2015 and after.

HPC: high-priority country.

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

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

* All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

		2018					2019			
	Cases with stat		HIV po	sitive	All TB cases (N)	Cases wit		HIV po	sitive	
All TB	Stat	.us			ses	IIIV S	ldluS			Country/area
cases (N)	N	%	N	% ^b	<u>8</u>	N	%	N	%⁵	
		~			₩					
										EU/EEA
-	-	-	-	-	-	-	_	-	-	Austria
977	502	(51.4)	35	(7.0)	968	505	(52.2)	44	(8.7)	
1 358	1 118	(82.3)	0	(0.0)	1344	1 104	(82.1)	1		Bulgaria
372	2	(0.5)	0	(0.0)	303	5	(1.7)	0	(0.0)	Croatia
52	41	(78.8)	1	(2.4)	69	43	(62.3)	2	(4.7)	Cyprus
443	190	(42.9)	4	(2.1)	464	271	(58.4)	8	(3.0)	Czechia
291	234	(80.4)	3	(1.3)	281	227	(80.8)	7		Denmark
147	137	(93.2)	13	(9.5)	150	141	(94.0)	16		Estonia
-	-	-	-	-	-	-	-	-	-	Finland
-	_	-	-	-	-	-	-	-	-	France
- (22			-		-			-	- (, 7)	Germany
432	362	(83.8)	11	(3.0)	459	408	(88.9)	19		Greece
640	23	(3.6)	3	(13.0)	552	32	(5.8)	3		Hungary Iceland
310	160	(51.6)	13	(12.5)	13 266	11 106	(84.6)	10		Ireland
510	100	(51.0)	-	(0.1)	200	-	(39.6)	-	(9.4)	Italy
_	-	_	-	-	_	-	_	_	_	Latvia
_	-	_	-	-	-	-	-	-	_	Liechtenstein
1 142	954	(83.5)	32	(3.4)	1 058	1 020	(96.4)	27	(2.6)	Lithuania
42	7	(16.7)	0	(0.0)	50	37	(74.0)	0		Luxembourg
-	-	-	-	-	-	-	-	-	-	Malta
797	623	(78.2)	21	(3.4)	759	576	(75.9)	21	(3.6)	Netherlands
208	184	(88.5)	7	(3.8)	165	130	(78.8)	6	(4.6)	
-	-	-	-	-	-	-	-	-	-	Poland
1905	1609	(84.5)	157	(9.8)	1771	1204	(68.0)	133	(11.0)	Portugal
12 199	10 355	(84.9)	255	(2.5)	11 633	10 047	(86.4)	200		Romania
281	238	(84.7)	2	(0.8)	214	148	(69.2)	4		Slovakia
99	80	(80.8)	0	(0.0)	101	73	(72.3)	1		Slovenia
4 648	2 448	(52.7)	275	(11.2)	-	-	-	-	-	Spain
	4 222	(05.3)	122	(2.0)	-	-	-	-	-	Sweden
5 075 31 426	4 323 23 598	(85.2) (75.1)	123 956	(2.8) (4.1)	20 620	16 088	(78.0)	502	(2.1)	United Kingdom Subtotal EU/EEA
31420	23 370	(13.1)	730	(4.1)	20 020	10 000	(76.0)	302	(3.1)	Non-EU/EEA
440	215	(48.9)	6	(2.8)	412	368	(89.3)	8	(2.2)	Albania
2	0	(0.0)	-	-	5	0	(0.0)	-	-	
734	699	(95.2)	72	(10.3)	621	591	(95.2)	62	(10.5)	Armenia
5 038	6 483	(128.7)	87	(1.3)	4 823	4 534	(94.0)	71	(1.6)	Azerbaijan
2 359	2 359	(100.0)	182	(7.7)	2 207	2 207	(100.0)	157	(7.1)	Belarus
666	0	(0.0)	-	-	580	18	(3.1)	-	(0.0)	Bosnia and Herzegovina
2 316	2 174	(93.9)	45	(2.1)	2 169	1 841	(84.9)	33	(1.8)	Georgia
292	292	(100.0)	12	(4.1)	217	217	(100.0)	8		Israel
12 832	12 236	(95.4)	717	(5.9)	12 501	12 375	(99.0)	666		Kazakhstan
6 338	5 771	(91.1)	187	(3.2)	6 138	5 810	(94.7)	131		Kyrgyzstan
-		(54.0)	-	(0.0)	-	-	(07.0)	-	(0.0)	Monaco
84	43	(51.2)	0	(0.0)	80	76	(95.0)	0		Montenegro
217	126	(58.1)	3	(2.4)	199	152	(76.4)	1		North Macedonia
3 022 78 258	2 893 74 075	(95.7) (94.7)	248	(8.6)	2 809	2 792 70 610	(99.4) (96.3)	295 16 453		Republic of Moldova Russian Federation
/8 258 0	/4 0/5	(94.7)	14 797	(20.0)	73 328 0	70 010	(96.3)	10 453	(23.3)	
641	56	(8.7)	8	(14.3)	501	39	(7.8)	3		Serbia
641	56	(8.7)	8	(14.3)	501	39	(7.8)	3	(7.7)	Serbia excluding Kosovo ¹
-	-	(0.7)	-	(17.5)	-	-	(7.0)	-	-	Kosovo ¹
-	-	-	-	-	-	-	-	-	-	Switzerland
5 726	5 545	(96.8)	227	(4.1)	5 755	5 660	(98.3)	167		Tajikistan
11 576	8 234	(71.1)	67	(0.8)	11 247	8 814	(78.4)	104		Turkey
-	-	-	-	-	-	-	-	-	_	Turkmenistan
26 512	26 312	(99.2)	6 053	(23.0)	25 379	25 210	(99.3)	5 800	(23.0)	Ukraine
16 413	16 413	(100.0)	736	(4.5)	16 272	16 272	(100.0)	647		Uzbekistan
				4 6		4	(OF 4)	24.606	(4E 4)	California PH/FFA
173 466	163 926	(94.5)	23 447	(14.3)	165 243	157 586	(95.4)	24 606		Subtotal non-EU/EEA
173 466 204 892 185 970	163 926 187 524 175 758	(94.5) (91.5) (94.5)	23 447 24 403 23 718	(14.3) (13.0) (13.5)	165 243 185 863 177 434	157 586 173 674 169 028	(93.4) (93.3)	25 108 24 830	(14.5)	Total European Region Subtotal 18 HPCs

¹ All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

Table X. Treatment success after 12 months for new^a and relapse TB cases,^b European Region, 2014–2018

		2014			2015			2016			2017			2018	
Country/area	Cases	Succ		Cases	Succ		Cases	Succ		Cases	Succ		Cases	Succ	
	reported	N	(%)	reported	N	(%)	reported	N	(%)	reported	N	(%)	reported	N	(%)
EU/EEA			()			()			()			()			()
Austria	553	410	(74.1)	553	404	(73.1)	604	452	(74.8)	543	375	(69.1)	455	334	(73.4)
Belgium ^c	867	700	(80.7)	905	719	(79.4)	973	793	(81.5)	905	718	(79.3)	902	737	(81.7)
Bulgaria	1789	1 530	(85.5)	1 598	1 350	(84.5)	1 510	1 291	(85.5)	1 386	1167	(84.2)	1 268	1 085	(85.6)
Croatia	496	354	(71.4)	484	275	(56.8)	452	264	(58.4)	372	245	(65.9)	363	107	(29.5)
Cyprus	39	23	(59.0)	63	35	(55.6)	56	37	(66.1)	51	34	(66.7)	51	30	(58.8)
Czechia	467	355	(76.0)	499	343	(68.7)	505	346	(68.5)	489	337	(68.9)	422	282	(66.8)
Denmark ^c	291	156	(53.6)	314	157	(50.0)	288	113	(39.2)	251	99	(39.4)	266	42	(15.8)
Estonia	194	162	(83.5)	172	143	(83.1)	165	132	(80.0)	138	111	(80.4)	115	96	(83.5)
Finland	249	115	(46.2)	259	100	(38.6)	217	69	(31.8)	236	85	(36.0)	220	45	(20.5)
France	-	-	-	-	-	- ()	-	-	-	-	-	()	-	-	()
Germany	4 264	2 707	(63.5)	5 525	3 590	(65.0)	5 635	3 926	(69.7)	5 238	3 711	(70.8)	5 216	3 724	(71.4)
Greece	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hungary	795	577	(72.6)	851	600	(70.5)	722	511	(70.8)	639	429	(67.1)	591	388	(65.7)
Iceland	9	8	(88.9)	7	7	(100.0)	6	5	(83.3)	13	12	(92.3)	8	8	(100.0)
Ireland ^c	288	162	(56.3)	265	191	(72.1)	285	168	(58.9)	277	163	(58.8)	284	110	(38.7)
Italy	-	-	-	-	-	_	-	-	_	-	-	-	-	-	-
Latvia	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	1 282	1 033	(80.6)	1 219	975	(80.0)	1 152	958	(83.2)	1 086	905	(83.3)	926	807	(87.1)
Luxembourg	-	-	-	-	-	-	-	-	-	31	0	(0.0)	41	0	(0.0)
Malta	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Netherlands	797	708	(88.8)	838	732	(87.4)	864	758	(87.7)	762	665	(87.3)	775	664	(85.7)
Norway ^c	292	251	(86.0)	277	244	(88.1)	262	226	(86.3)	228	214	(93.9)	182	153	(84.1)
Poland	6 500	3 783	(58.2)	6 196	3 293	(53.1)	6 099	3 300	(54.1)	-	-	-	-	-	_
Portugal	2 197	1592	(72.5)	2 130	1556	(73.1)	1872	1 316	(70.3)	1859	1 350	(72.6)	1848	1240	(67.1)
Romania	14 525	12 304	(84.7)	13 908	11 834	(85.1)	12 458	10 729	(86.1)	12 007	10 348	(86.2)	11 271	9 482	(84.1)
Slovakia	318	280	(88.1)	305	263	(86.2)	279	241	(86.4)	222	204	(91.9)	271	249	(91.9)
Slovenia	142	110	(77.5)	129	105	(81.4)	118	84	(71.2)	111	85	(76.6)	98	76	(77.6)
Spain	-	-	-	4 798	3 454	(72.0)	3 964	2 669	(67.3)	4 499	2 721	(60.5)	4 596	2 0 6 5	(44.9)
Sweden	610	535	(87.7)	754	659	(87.4)	669	607	(90.7)	477	413	(86.6)	463	361	(78.0)
United Kingdom ^c	6 514	5 344	(82.0)	5 796	4 669	(80.6)	5 674	4 637	(81.7)	5 169	4 254	(82.3)	4 684	3 724	(79.5)
Subtotal EU/EEA	44 153	33 760	(76.5)	48 488	36 238	(74.7)	45 423	34 139	(75.2)	36 990	28 646	(77.4)	35 316	25 809	(73.1)
Non-EU/EEA															, ,
Albania	406	358	(88.2)	409	354	(86.6)	409	357	(87.3)	499	435	(87.2)	434	386	(88.9)
Andorra	6	5	(83.3)	4	4	(100.0)	4	3	(75.0)	1	1	(100.0)	2	2	(100.0)
Armenia	1 228	959	(78.1)	910	721	(79.2)	869	703	(80.9)	710	563	(79.3)	615	497	(80.8)
Azerbaijan	1 623	1 349	(83.1)	1 475	1 221	(82.8)	1 4 6 4	1 225	(83.7)	1777	1 492	(84.0)	1 751	1 471	(84.0)
Belarus	2 706	2 381	(88.0)	2 525	2 243	(88.8)	2 123	1 894	(89.2)	1792	1 587	(88.6)	1 418	1 250	(88.2)
Bosnia and Herzegovina	1196	923	(77.2)	1092	707	(64.7)	907	505	(55.7)	766	343	(44.8)	666	189	(28.4)
Georgia	2 862	2 377	(83.1)	2 841	2 386	(84.0)	2 715	2 263	(83.4)	2 351	1 977	(84.1)	2 071	1 735	(83.8)
Israel	322	285	(88.5)	263	218	(82.9)	250	198	(79.2)	225	196	(87.1)	292	227	(77.7)
Kazakhstan	12 473	11 186	(89.7)	14 006	12 691	(90.6)	6 775	5 962	(88.0)	8 589	7 826	(91.1)	7 859	7 093	(90.3)
Kyrgyzstan	E 721			6 120						5 752	4 728	(82.2)	5 333	4 321	(81.0)
	5 731	4 837	(84.4)	6 139	5 0 6 3	(82.5)	6 072	4 968	(81.8)					7 721	
Monaco	0	-	-	-	-	-	0	-	-	-	-	_	-	-	-
Monaco Montenegro	0 113	- 101	(89.4)	- 80	- 74	(92.5)	0 87	- 70	(80.5)	- 75	- 65	(86.7)	- 81	- 77	(95.1)
Monaco Montenegro North Macedonia	0 113 281	- 101 244	(89.4) (86.8)	- 80 282	- 74 243	(92.5) (86.2)	0 87 263	- 70 232	(80.5) (88.2)	- 75 219	- 65 193	(88.1)	- 81 214	- 77 187	(87.4)
Monaco Montenegro North Macedonia Republic of Moldova	0 113 281 3 459	101 244 2724	(89.4) (86.8) (78.8)	80 282 2 992	- 74 243 2379	(92.5) (86.2) (79.5)	0 87 263 3 048	70 232 2 515	(80.5) (88.2) (82.5)	75 219 2 715	- 65 193 2 187	(88.1) (80.6)	- 81 214 2 312	- 77 187 1 954	(87.4) (84.5)
Monaco Montenegro North Macedonia Republic of Moldova Russian Federation	0 113 281 3 459 77 136	- 101 244	(89.4) (86.8) (78.8) (69.1)	- 80 282 2 992 80 424	- 74 243	(92.5) (86.2)	0 87 263 3 048 73 137	- 70 232	(80.5) (88.2)	- 75 219 2715 67 593	- 65 193	(88.1)	- 81 214 2 312 59 850	- 77 187	(87.4)
Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino	0 113 281 3 459 77 136	101 244 2724 53 266	(89.4) (86.8) (78.8) (69.1)	80 282 2992 80 424	74 243 2379 57 060	(92.5) (86.2) (79.5) (70.9)	0 87 263 3 048 73 137 0	70 232 2515 52335	(80.5) (88.2) (82.5) (71.6)	75 219 2715 67 593 0	65 193 2187 46 938	(88.1) (80.6) (69.4)	81 214 2312 59 850 0	- 77 187 1 954 41 154 -	(87.4) (84.5) (68.8)
Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia	0 113 281 3 459 77 136 - 1 281	- 101 244 2724 53 266 - 1 042	(89.4) (86.8) (78.8) (69.1) - (81.3)	80 282 2 992 80 424 0 1647	- 74 243 2379 57 060 - 1 471	(92.5) (86.2) (79.5) (70.9) - (89.3)	0 87 263 3 048 73 137 0 1 443	70 232 2515 52335 - 1191	(80.5) (88.2) (82.5) (71.6) - (82.5)	75 219 2715 67 593 0 1440	- 65 193 2 187 46 938 - 1 239	(88.1) (80.6) (69.4) - (86.0)	81 214 2312 59 850 0 1265	- 77 187 1 954 41 154 - 1 032	(87.4) (84.5) (68.8) – (81.6)
Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo¹	0 113 281 3 459 77 136 - 1 281 1 045	- 101 244 2724 53 266 - 1 042 828	(89.4) (86.8) (78.8) (69.1) - (81.3) (79.2)	80 282 2 992 80 424 0 1647 882	- 74 243 2379 57 060 - 1 471 733	(92.5) (86.2) (79.5) (70.9) - (89.3) (83.1)	0 87 263 3 048 73 137 0 1 443 733	70 232 2 515 52 335 - 1 191 590	(80.5) (88.2) (82.5) (71.6) - (82.5) (80.5)	75 219 2715 67 593 0 1440 738	- 65 193 2187 46938 - 1239 616	(88.1) (80.6) (69.4) - (86.0) (83.5)	81 214 2312 59850 0 1265 579	- 77 187 1 954 41 154 - 1 032 459	(87.4) (84.5) (68.8) - (81.6) (79.3)
Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo¹ Kosovo¹	0 113 281 3 459 77 136 - 1 281 1 045 236	- 101 244 2724 53 266 - 1 042 828 214	(89.4) (86.8) (78.8) (69.1) - (81.3)	80 282 2 992 80 424 0 1647	- 74 243 2379 57 060 - 1 471	(92.5) (86.2) (79.5) (70.9) - (89.3) (83.1) (96.5)	0 87 263 3 048 73 137 0 1 443 733 710	- 70 232 2515 52335 - 1191 590 601	- (80.5) (88.2) (82.5) (71.6) - (82.5) (80.5) (84.6)	75 219 2715 67 593 0 1440 738 702	- 65 193 2187 46938 - 1239 616 623	(88.1) (80.6) (69.4) - (86.0) (83.5) (88.7)	- 81 214 2312 59850 0 1265 579 686	- 77 187 1 954 41 154 - 1 032 459 573	(87.4) (84.5) (68.8) (81.6) (79.3) (83.5)
Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo¹ Kosovo¹ Switzerland	0 113 281 3 459 77 136 - 1 281 1 045 236	- 101 244 2724 53 266 - 1 042 828 214	(89.4) (86.8) (78.8) (69.1) (81.3) (79.2) (90.7)	- 80 282 2 992 80 424 0 1647 882 765	- 74 243 2379 57 060 - 1471 733 738	(92.5) (86.2) (79.5) (70.9) (89.3) (83.1) (96.5)	0 87 263 3 048 73 137 0 1 443 733 710 565	- 70 232 2515 52335 - 1191 590 601 384	- (80.5) (88.2) (82.5) (71.6) - (82.5) (80.5) (84.6) (68.0)	75 219 2715 67 593 0 1 440 738 702 518	- 65 193 2187 46938 - 1239 616 623 406	(88.1) (80.6) (69.4) - (86.0) (83.5) (88.7) (78.4)	- 81 214 2312 59 850 0 1265 579 686 376	- 77 187 1 954 41 154 - 1 032 459 573 309	(87.4) (84.5) (68.8) - (81.6) (79.3) (83.5) (82.2)
Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo¹ Kosovo¹ Switzerland Tajikistan	0 113 281 3 459 77 136 - 1 281 1 045 236 - 5 149	- 101 244 2724 53 266 - 1 042 828 214 - 4 606	(89.4) (86.8) (78.8) (69.1) - (81.3) (79.2) (90.7) - (89.5)	- 80 282 2 992 80 424 0 1647 882 765 - 5 298	- 74 243 2379 57 060 - 1 471 733	(92.5) (86.2) (79.5) (70.9) - (89.3) (83.1) (96.5) - (89.4)	0 87 263 3 048 73 137 0 1 443 733 710 565 5 324	70 232 2 515 52 335 - 1 191 590 601 384 4 751	(80.5) (88.2) (82.5) (71.6) - (82.5) (80.5) (84.6) (68.0) (89.2)	75 219 2715 67 593 0 1440 738 702 518 5 259	- 65 193 2187 46 938 - 1239 616 623 406 4789	(88.1) (80.6) (69.4) - (86.0) (83.5) (88.7) (78.4) (91.1)	- 81 214 2 312 59 850 0 1 265 579 686 376 4 995	- 77 187 1 954 41 154 - 1 032 459 573 309 4 452	(87.4) (84.5) (68.8) - (81.6) (79.3) (83.5) (82.2) (89.1)
Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo¹ Kosovo¹ Switzerland Tajikistan Turkey	0 113 281 3 459 77 136 - 1 281 1 045 236 - 5 149 12 933	- 101 244 2724 53 266 - 1 042 828 214 - 4 606 11 245	(89.4) (86.8) (78.8) (69.1) (81.3) (79.2) (90.7) (89.5) (86.9)	80 282 2 992 80 424 0 1 647 882 765 - 5 298 12 362	- 74 243 2379 57 060 - 1471 733 738 - 4734 10 735	(92.5) (86.2) (79.5) (70.9) (89.3) (83.1) (96.5) (89.4) (86.8)	0 87 263 3 048 73 137 0 1 443 733 710 565 5 324 12 017	- 70 232 2515 52335 - 1191 590 601 384	- (80.5) (88.2) (82.5) (71.6) - (82.5) (80.5) (84.6) (68.0)	75 219 2715 67 593 0 1440 738 702 518 5 259 11 638	- 65 193 2187 46 938 - 1 239 616 623 406 4 789 10 014	(88.1) (80.6) (69.4) - (86.0) (83.5) (88.7) (78.4) (91.1) (86.0)	- 81 214 2312 59 850 0 1265 579 686 376 4 995 11 407	- 77 187 1 954 41 154 - 1 032 459 573 309 4 452 9 691	(87.4) (84.5) (68.8) - (81.6) (79.3) (83.5) (82.2) (89.1) (85.0)
Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo¹ Kosovo¹ Switzerland Tajikistan Turkey Turkmenistan	0 113 281 3 459 77 136 - 1 281 1 045 236 - 5 149 12 933 2 122	- 101 244 2724 53 266 - 1 042 828 214 - 4 606	(89.4) (86.8) (78.8) (69.1) - (81.3) (79.2) (90.7) - (89.5)	- 80 282 2 992 80 424 0 1647 882 765 - 5 298	- 74 243 2 379 57 060 - 1 471 733 738 - 4734	(92.5) (86.2) (79.5) (70.9) - (89.3) (83.1) (96.5) - (89.4)	0 87 263 3 048 73 137 0 1 443 733 710 565 5 324	70 232 2 515 52 335 - 1 191 590 601 384 4 751	(80.5) (88.2) (82.5) (71.6) - (82.5) (80.5) (84.6) (68.0) (89.2)	75 219 2715 67 593 0 1440 738 702 518 5 259	- 65 193 2187 46 938 - 1239 616 623 406 4789	(88.1) (80.6) (69.4) - (86.0) (83.5) (88.7) (78.4) (91.1)	- 81 214 2 312 59 850 0 1 265 579 686 376 4 995	- 77 187 1 954 41 154 - 1 032 459 573 309 4 452	(87.4) (84.5) (68.8) - (81.6) (79.3) (83.5) (82.2) (89.1) (85.0) (82.5)
Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo¹ Kosovo¹ Switzerland Tajikistan Turkey	0 113 281 3 459 77 136 - 1 281 1 045 236 - 5 149 12 933	- 101 244 2724 53 266 - 1 042 828 214 - 4 606 11 245	(89.4) (86.8) (78.8) (69.1) (81.3) (79.2) (90.7) (89.5) (86.9)	80 282 2 992 80 424 0 1 647 882 765 - 5 298 12 362	- 74 243 2379 57 060 - 1471 733 738 - 4734 10 735	(92.5) (86.2) (79.5) (70.9) (89.3) (83.1) (96.5) (89.4) (86.8)	0 87 263 3 048 73 137 0 1 443 733 710 565 5 324 12 017	- 70 232 2515 52335 - 1191 590 601 384 4751 10462	(80.5) (88.2) (82.5) (71.6) (82.5) (80.5) (84.6) (68.0) (89.2) (87.1)	75 219 2715 67 593 0 1440 738 702 518 5 259 11 638	- 65 193 2187 46 938 - 1 239 616 623 406 4 789 10 014	(88.1) (80.6) (69.4) - (86.0) (83.5) (88.7) (78.4) (91.1) (86.0)	- 81 214 2312 59 850 0 1265 579 686 376 4 995 11 407	- 77 187 1 954 41 154 - 1 032 459 573 309 4 452 9 691	(87.4) (84.5) (68.8) - (81.6) (79.3) (83.5)
Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo¹ Kosovo³ Switzerland Tajikistan Turkey Turkmenistan Ukraine Uzbekistan	0 113 281 3 459 77 136 - 1 281 1 045 236 - 5 149 12 933 2 122	101 244 2724 53 266 - 1 042 828 214 - 4 606 11 245 1 797	(89.4) (86.8) (78.8) (69.1) (81.3) (79.2) (90.7) (89.5) (86.9) (84.7)	- 80 282 2 992 80 424 0 1647 882 765 - 5 298 12 362 1 669	- 74 243 2 379 57 060 - 1 471 733 738 - 4 734 10 735 1 451	(92.5) (86.2) (79.5) (70.9) (89.3) (83.1) (96.5) (89.4) (86.8) (86.9)	0 87 263 3 048 73 137 0 1 443 733 710 565 5 324 12 017 2 068	- 70 232 2515 52335 - 1191 590 601 384 4751 10462 1738	(80.5) (88.2) (82.5) (71.6) (82.5) (80.5) (84.6) (68.0) (89.2) (87.1) (84.0)	75 219 2715 67 593 0 1440 738 702 518 5 259 11 638 1 968	- 65 193 2187 46938 - 1239 616 623 406 4789 10014 1676	(88.1) (80.6) (69.4) - (86.0) (83.5) (88.7) (78.4) (91.1) (86.0) (85.2)	81 214 2312 59 850 0 1265 579 686 376 4 995 11 407 2 157	- 77 187 1 954 41 154 - 1 032 459 573 309 4 452 9 691 1 780	(87.4) (84.5) (68.8) - (81.6) (79.3) (83.5) (82.2) (89.1) (85.0) (82.5) (77.2)
Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo¹ Kosovo¹ Switzerland Tajikistan Turkey Turkmenistan Ukraine	0 113 281 3 459 77 136 - 1 281 1 045 236 - 5 149 12 933 2 122 22 294	101 244 2724 53 266 - 1 042 828 214 - 4 606 11 245 1797 16 109	(89.4) (86.8) (78.8) (69.1) - (81.3) (79.2) (90.7) - (89.5) (86.9) (84.7) (72.3)	80 282 2 992 80 424 0 1647 882 765 - 5 298 12 362 1 669 23 892	- 74 243 2 379 57 060 - 1 471 733 738 - 4 734 10 735 1 451 17 939	- (92.5) (86.2) (79.5) (70.9) - (89.3) (83.1) (96.5) - (89.4) (86.8) (86.9) (75.1)	0 87 263 3 048 73 137 0 1 443 733 710 565 5 324 12 017 2 068 22 615	- 70 232 2 515 52 335 - 1191 590 601 384 4 751 10 462 1 738 17 234		75 219 2715 67 593 0 1 440 738 702 518 5 259 11 638 1 968 21 165		(88.1) (80.6) (69.4) (86.0) (83.5) (88.7) (78.4) (91.1) (86.0) (85.2) (76.5)	81 214 2312 59 850 0 1265 579 686 376 4 995 11 407 2 157 20 221	- 77 187 1 954 41 154 - 1 032 459 573 309 4 452 9 691 1 780 15 607	(87.4) (84.5) (68.8) - (81.6) (79.3) (83.5) (82.2) (89.1) (85.0) (82.5)

Note: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. EU/EEA: country data are shown as missing (–) when data on treatment outcomes 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.

Previous TB history is defined as previous diagnosis.

All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

Table XI. Treatment success after 12 months among all TB cases, European Region, 2014–2018

		2014			2015			2016			2017			2018	
Country/area	Cases	Succe	ess	Cases	Succ	ess	Cases	Succ	ess	Cases	Succ	ess	Cases	Succ	
	reported	N	(%)	reported	N	(%)	reported	N	(%)	reported	N	(%)	reported	N	(%)
EU/EEA															
Austria	586	423	(72.2)	583	418	(71.7)	634	461	(72.7)	569	380	(66.8)	482	342	(71.0)
Belgium	949	752	(79.2)	977	762	(78.0)	1.042	844	(81.0)	967	763	(78.9)	977	790	(80.9)
Bulgaria	1 872	1 565	(83.6)	1 660	1. 385	(83.4)	1 603	1 345	(83.9)	1 463	1 215	(83.0)	1 358	1 148	(84.5)
Croatia	499	354	(70.9)	488	278	(57.0)	464	269	(58.0)	378	246	(65.1)	372	108	(29.0)
Cyprus	41	24	(58.5)	63	35	(55.6)	60	39	(65.0)	53	35	(66.0)	52	31	(59.6)
Czechia	511	379	(74.2)	517	350	(67.7)	516	348	(67.4)	501	341	(68.1)	443	288	(65.0)
Denmark	320	174	(54.4)	357	171	(47.9)	330	134	(40.6)	275	110	(40.0)	291	45	(15.5)
Estonia	248	167	(67.3)	217	150	(69.1)	192	134	(69.8)	175	112	(64.0)	147	97	(66.0)
Finland	263	118	(44.9)	272	102	(37.5)	234	72	(30.8)	245	88	(35.9)	225	45	(20.0)
France	4 888	2 592	(53.0)	4 744	2 535	(53.4)	5 735	2 625	(45.8)	5 015	2 446	(48.8)	5 092	533	(10.5)
Germany	4 524	2 819	(62.3)	5 837	3 717	(63.7)	5 925	4 046	(68.3)	5 498	3 819	(69.5)	5 492	3 864	(70.4)
Greece	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_
Hungary	851	607	(71.3)	906	631	(69.6)	786	544	(69.2)	685	450	(65.7)	640	409	(63.9)
Iceland	9	8	(88.9)	7	7	(100.0)	6	5	(83.3)	14	13	(92.9)	8	8	(100.0)
Ireland	311	173	(55.6)	283	198	(70.0)	315	179	(56.8)	300	174	(58.0)	310	115	(37.1)
Italy	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_
Latvia	761	593	(77.9)	721	551	(76.4)	660	512	(77.6)	-	-	-	-	-	-
Liechtenstein	-	-	-	2	1	(50.0)	2	2	(100.0)	1	1	(100.0)	-	-	_
Lithuania	1 607	1 054	(65.6)	1 507	994	(66.0)	1 442	982	(68.1)	1387	930	(67.1)	1 142	826	(72.3)
Luxembourg	-	-	-	-	-	_	_	-	-	32	0	(0.0)	-	-	_
Malta	_	-	-	_	_	_	_	_	-	_	_	_	_	-	_
Netherlands	814	717	(88.1)	862	742	(86.1)	887	765	(86.2)	783	675	(86.2)	797	678	(85.1)
Norway	323	268	(83.0)	313	268	(85.6)	295	245	(83.1)	261	233	(89.3)	208	172	(82.7)
Poland	6 698	3 865	(57.7)	6 430	3 387	(52.7)	6 444	3 432	(53.3)	-	-	-	_	-	-
Portugal	2 278	1625	(71.3)	2 195	1579	(71.9)	1936	1347	(69.6)	1 914	1372	(71.7)	1905	1 265	(66.4)
Romania	15 879	12 679	(79.8)	15 183	12 184	(80.2)	13 601	11 062	(81.3)	12 997	10 626	(81.8)	12 199	9 733	(79.8)
Slovakia	336	291	(86.6)	317	271	(85.5)	296	252	(85.1)	249	219	(88.0)	281	255	(90.7)
Slovenia	144	111	(77.1)	130	106	(81.5)	118	84	(71.2)	112	85	(75.9)	99	76	(76.8)
Spain	4 913	2 827	(57.5)	5 020	3 582	(71.4)	5 070	3 568	(70.4)	5 660	3 554	(62.8)	4766	2 134	(44.8)
Sweden	659	570	(86.5)	815	688	(84.4)	714	630	(88.2)	519	439	(84.6)	489	372	(76.1)
United Kingdom	7 029	5 675	(80.7)	6 228	4 944	(79.4)	6 116	4 931	(80.6)	5 531	4 485	(81.1)	5 036	3 943	(78.3)
Subtotal EU/EEA	57 313	40 430	(70.5)	56 634	40 036	(70.7)	55 423	38 857	(70.1)	45 584	32 811	(72.0)	42 811	27 277	(63.7)
Non-EU/EEA	21 212	40 430	(70.5)	20 034	40 030	(/0./)	33 423	30 031	(70.1)	42 204	32 011	(/2.0)	42 011	21 211	(03.7)
Albania	406	358	(88.2)	409	354	(86.6)	409	357	(87.3)	499	435	(87.2)	434	386	(88.9)
Andorra		5				(100.0)		337		1		(100.0)	2	2	(100.0)
	1 2/2		(83.3)	4	4	(79.2)	4		(75.0)		1				
Armenia	1 242	966	(77.8)	923	731		893	720	(80.6)	752	591	(78.6)	644	514	(79.8)
Azerbaijan	3 997	3 109	(77.8)	4 213	3 230	(76.7)	3 684	2 866	(77.8)	4 273	3 337	(78.1)	4 184	3 277	(78.3)
Belarus	2 955	2 562	(86.7)	2 788	2 444	(87.7)	2 325	2 050	(88.2)	1 924	1 677	(87.2)	1 516	1 318	(86.9)
Bosnia and Herzegovina	1 196	923	(77.2)	1095	707	(64.6)	907	505	(55.7)	768	343	(44.7)	666	189	(28.4)
Georgia	3 371	2 727	(80.9)	3 144	2 582	(82.1)	2 941	2 395	(81.4)	2 576	2 121	(82.3)	2 260	1 852	(81.9)
Israel	322	285	(88.5)	263	218	(82.9)	258	203	(78.7)	225	196	(87.1)	292	227	(77.7)
Kazakhstan	12 803	11 441	(89.4)	14 631	13 172	(90.0)	7 021	6 159	(87.7)	8 839	8 030	(90.8)	8 024	7 217	(89.9)
Kyrgyzstan	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)	6 125	4 725	(77.1)
Monaco	0	-	- (-	-	- ()	-	-	- (a	-	-	- (2::1)	_	-	-
Montenegro	113	101	(89.4)	80	74	(92.5)	87	70	(80.5)	77	65	(84.4)	81	77	(95.1)
North Macedonia	282	245	(86.9)	284	245	(86.3)	267	235	(88.0)	222	196	(88.3)	214	187	(87.4)
Republic of Moldova	3 751	2 861	(76.3)	3 209	2 480	(77.3)	3 390	2 667	(78.7)	2 891	2 275	(78.7)	2 443	2 015	(82.5)
Russian Federation	82 926	55 673	(67.1)	88 718	61 238	(69.0)	82 382	56 881	(69.0)	76 932	51 653	(67.1)	68 726	45 394	(66.1)
San Marino	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-
Serbia	1 295	1049	(81.0)	1669	1484	(88.9)	1464	1 203	(82.2)	1 458	1249	(85.7)	1346	1078	(80.1)
Serbia excluding Kosovo ¹	-	-	-	897	739	(82.4)	751	600	(79.9)	745	620	(83.2)	647	579	(89.5)
Kosovo¹	-	-	-	772	745	(96.5)	713	603	(84.6)	713	629	(88.2)	699	338	(48.4)
Switzerland	-	-	-	-	-	-	601	404	(67.2)	542	420	(77.5)	420	338	(80.5)
Tajikistan	5 504	4 896	(89.0)	5 584	4 964	(88.9)	5 536	4 923	(88.9)	5 485	4 976	(90.7)	5 150	4 579	(88.9)
Turkey	13 125	11 341	(86.4)	12 520	10 807	(86.3)	12 196	10 554	(86.5)	11 818	10 118	(85.6)	11 595	9 803	(84.5)
Turkmenistan	2 265	1 890	(83.4)	1 880	1 621	(86.2)	2 340	1964	(83.9)	2 232	1 878	(84.1)	2 636	2 151	(81.6)
Ukraine	27 563	19 586	(71.1)	27 548	20 034	(72.7)	26 351	19 484	(73.9)	24 474	18 147	(74.1)	23 193	17 443	(75.2)
Uzbekistan	20 275	17 402	(85.8)	17 837	15 694	(88.0)	16 408	14 244	(86.8)	16 891	14 836	(87.8)	15 648	14 168	(90.5)
Subtotal non-EU/EEA	190 043	142 983	(75.2)	193 485	147 506	(76.2)	176 179	133 284	(75.7)	169 221	127 640	(75.4)	155 599	116 940	(75.2)
Total European Region	247 356	183 413	(74.1)	250 119	187 542	(75.0)	231 602	172 141	(74.3)	214 805	160 451	(74.7)	198 410	144 217	(72.7)
1 0 0 0	206 790	156 075	(75.5)			(76.4)		144 339	(76.1)	181 451	137 618	(75.8)	166 990		(75.6)

Note: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. EU/EEA: country data are shown as missing (–) when data on treatment outcomes are not reported. HPC: high-priority country.

¹ All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

Table XII. Treatment success after 24 months among RR/MDR-TB cases started on treatment, European Region,

		2013			2014			2015			2016			2017	
Country/area	Cases	Succ		Cases	Succ		Cases	Succ		Cases	Succ		Cases	Succe	
FII/FFA	reported	N	(%)	reported	N	(%)	reported	N	(%)	reported	N	(%)	reported	N	(%)
EU/EEA Austria	16	12	(75.0)	21	12	(61.9)	13	12	(92.3)	17	11	(64.7)	19	10	(52.6)
		12 11	(78.6)		13 7	(53.8)	16	12 16	(100.0)	17	11	(83.3)	8	10	(52.6) (75.0)
Belgium	14			13						12 22					
Bulgaria Croatia	37	17	(45.9)	44	22	(50.0)	28	<i>17</i>	(60.7)	0	12	(54.5)	29	18	(62.1)
	U		_	1 0		(0.0)	0	'	(100.0)	U	_		0	_	
Cyprus	-	-	_		-	(42.0)	9	3	(22.2)	-	-	(40.0)	- 0	2	(27.5)
Czechia	0	- 1		7	3	(42.9)	7		(33.3)	5	2	(40.0)	8	3	(37.5
Denmark	2		(50.0)	2		(50.0)	,	0	(0.0)	5	3	(60.0)	2		(50.0)
Estonia	54	34	(63.0)	51	32	(62.7)	40	25	(62.5)	25	18	(72.0)	35	28	(80.0)
Finland	-	-	-	7	2	(28.6)	9	4	(44.4)	6	4	(66.7)	5	2	(40.0)
France	-	-	(2(2)	-	-	(22.2)	-	-	((4.0)	-	-	(27.0)	-	-	(== (
Germany	114	41	(36.0)	105	35	(33.3)	131	54	(41.2)	121	45	(37.2)	135	75	(55.6)
Greece	-	-	(24.1)	-	-	-	-	-	(00.0)	-	-	-	-	-	(,,,,)
Hungary	11	4	(36.4)	4	4	(100.0)	9	2	(22.2)	20	8	(40.0)	13	6	(46.2)
Iceland	0	-	()	0	-	()	0	-	- ()	0	-	(-: -)	0	-	(
Ireland	4	3	(75.0)	2	1	(50.0)	1	0	(0.0)	7	5	(71.4)	6	2	(33.3)
Italy	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Latvia	79	54	(68.4)	71	52	(73.2)	63	39	(61.9)	-	-	-	-	-	-
Liechtenstein	0	-	-	0	-	-	0	-	-	0	-	-	-	-	_
Lithuania	274	90	(32.8)	279	91	(32.6)	248	99	(39.9)	255	110	(43.1)	264	111	(42.0)
Luxembourg	0	-	-	-	-	-	0	-	-	-	-	-	-	-	-
Malta	2	1	(50.0)	0	-	-	-	-	-	0	-	-	0	-	-
Netherlands	17	17	(100.0)	7	6	(85.7)	10	6	(60.0)	15	11	(73.3)	10	8	(80.0)
Norway	7	5	(71.4)	11	9	(81.8)	6	6	(100.0)	11	10	(90.9)	9	8	(88.9)
Poland	47	10	(21.3)	49	9	(18.4)	45	16	(35.6)	-	-	-	52	0	(0.0)
Portugal	18	10	(55.6)	28	15	(53.6)	26	9	(34.6)	19	5	(26.3)	13	10	(76.9)
Romania	657	258	(39.3)	597	246	(41.2)	589	259	(44.0)	547	271	(49.5)	455	183	(40.2)
Slovakia	2	0	(0.0)	4	2	(50.0)	3	1	(33.3)	3	0	(0.0)	7	2	(28.6)
Slovenia	0	-	-	0	-	-	0	-	-	0	-	-	1	0	(0.0)
Spain	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sweden	10	7	(70.0)	17	15	(88.2)	26	24	(92.3)	25	23	(92.0)	12	10	(83.3)
United Kingdom	79	53	(67.1)	59	36	(61.0)	54	36	(66.7)	65	41	(63.1)	59	36	(61.0)
Subtotal EU/EEA	1 444	628	(43.5)	1379	601	(43.6)	1 3 3 4	629	(47.2)	1180	589	(49.9)	1 142	519	(45.4)
Non-EU/EEA															
Albania	-	-	-	-	-	-	3	3	(100.0)	1	1	(100.0)	0	-	-
Andorra	0	-	-	0	-	-	0	-	-	0	-	-	-	-	-
Armenia	104	45	(43.3)	118	68	(57.6)	95	40	(42.1)	118	58	(49.2)	104	52	(50.0)
Azerbaijan	647	382	(59.0)	745	441	(59.2)	800	672	(59.1)	798	480	(60.2)			(59.3)
Belarus	2 136	1 152			441		000	473				(00.2)	858	509	()/•//
Bosnia and Herzegovina		1 152	(53.9)	1 472	872	(59.2)	1 400	899	(64.2)	1 180	796	(67.5)	858 1 067	509 752	(70.5)
	1	1 152	(53.9) (100.0)						(64.2) (100.0)						
Georgia	1 411			1 472	872	(59.2)	1 400	899		1 180	796		1 067	752	
Georgia Israel		1 176	(100.0) (42.8)	1 472 3	872 2	(59.2) (66.7) (48.9)	1 400 1	<i>899</i> 1	(100.0) (56.1)	1 180 - 339	796 -	(67.5) - (65.5)	1 067	752 - 203	(70.5) - (64.2)
	411	1	(100.0)	1 472 3 411	872 2 201	(59.2) (66.7)	1 400 1 412	899 1 231	(100.0)	1 180 -	796 - 222	(67.5) -	1 067 - 316	752 -	(70.5) -
Israel Kazakhstan	411 7	1 176 4	(100.0) (42.8) (57.1) (72.5)	1 472 3 411 16	872 2 201 12	(59.2) (66.7) (48.9) (75.0)	1 400 1 412 10	899 1 231 8	(100.0) (56.1) (80.0)	1 180 - 339 9	796 - 222 6	(67.5) - (65.5) (66.7)	1 067 - 316 7	752 - 203 5	(70.5) - (64.2) (71.4) (81.3)
Israel Kazakhstan Kyrgyzstan	411 7 6 527 1 064	1 176 4 4 730	(100.0) (42.8) (57.1)	1 472 3 411 16 6 320	872 2 201 12 4 813	(59.2) (66.7) (48.9) (75.0) (76.2)	1 400 1 412 10 6 482	899 1 231 8 5 063	(100.0) (56.1) (80.0) (78.1)	1180 - 339 9 6260	796 - 222 6 4 979	(67.5) - (65.5) (66.7) (79.5)	1 067 - 316 7 5 338	752 - 203 5 4 340	(70.5) - (64.2) (71.4)
Israel Kazakhstan Kyrgyzstan Monaco	411 7 6 527	1 176 4 4 730 611	(100.0) (42.8) (57.1) (72.5) (57.4)	1 472 3 411 16 6 320 1 157	872 2 201 12 4 813 650	(59.2) (66.7) (48.9) (75.0) (76.2) (56.2)	1 400 1 412 10 6 482	899 1 231 8 5 063	(100.0) (56.1) (80.0) (78.1) (53.7)	1180 - 339 9 6260 1232	796 222 6 4 979 655	(67.5) - (65.5) (66.7) (79.5) (53.2)	1 067 - 316 7 5 338 1 166	752 - 203 5 4 340 643	(70.5) - (64.2) (71.4) (81.3) (55.1)
Israel Kazakhstan Kyrgyzstan Monaco Montenegro	411 7 6 527 1 064 0	1 176 4 4730 611 -	(100.0) (42.8) (57.1) (72.5) (57.4)	1 472 3 411 16 6 320 1 157 -	872 2 201 12 4 813 650 -	(59.2) (66.7) (48.9) (75.0) (76.2) (56.2) (0.0)	1 400 1 412 10 6 482 1162 -	899 1 231 8 5 063 624 -	(100.0) (56.1) (80.0) (78.1) (53.7) - (100.0)	1180 - 339 9 6260 1232 - 0	796 - 222 6 4 979 655 -	(67.5) - (65.5) (66.7) (79.5) (53.2) -	1 067 - 316 7 5 338 1 166 - 0	752 - 203 5 4 340 643 -	(70.5) - (64.2) (71.4) (81.3) (55.1)
Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia	411 7 6527 1064 0 0	1 176 4 4730 611 - -	(100.0) (42.8) (57.1) (72.5) (57.4) - (50.0)	1 472 3 411 16 6 320 1 157 - 2 3	872 2 201 12 4 813 650 - 0	(59.2) (66.7) (48.9) (75.0) (76.2) (56.2) - (0.0) (33.3)	1 400 1 412 10 6 482 1 162 - 1	899 1 231 8 5 063 624 - 1 2	(100.0) (56.1) (80.0) (78.1) (53.7) - (100.0) (40.0)	1180 - 339 9 6260 1232 - 0 2	796 - 222 6 4 979 655 - - 1	(67.5) - (65.5) (66.7) (79.5) (53.2) - (50.0)	1 067 - 316 7 5 338 1 166 - 0	752 - 203 5 4 340 643 - -	(70.5) - (64.2) (71.4) (81.3) (55.1) - (0.0)
Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova	411 7 6527 1064 0 0 2 943	1 176 4 4730 611 - - 1 538	(100.0) (42.8) (57.1) (72.5) (57.4) - (50.0) (57.1)	1 472 3 411 16 6 320 1 157 - 2 3 919	872 2 201 12 4 813 650 - 0 1 457	(59.2) (66.7) (48.9) (75.0) (76.2) (56.2) - (0.0) (33.3) (49.7)	1 400 1 412 10 6 482 1 162 - 1 5 996	899 1 231 8 5 063 624 - 1 2 487	(100.0) (56.1) (80.0) (78.1) (53.7) - (100.0) (40.0) (48.9)	1180 - 339 9 6260 1232 - 0 2 979	796 - 222 6 4 979 655 - - 1 518	(67.5) - (65.5) (66.7) (79.5) (53.2) - (50.0) (52.9)	1 067 - 316 7 5 338 1 166 - 0 1 962	752 - 203 5 4 340 643 - - 0 537	(70.5) - (64.2) (71.4) (81.3) (55.1) - (0.0) (55.8)
Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation	411 7 6527 1064 0 0	1 176 4 4730 611 - -	(100.0) (42.8) (57.1) (72.5) (57.4) - (50.0)	1 472 3 411 16 6 320 1 157 - 2 3	872 2 201 12 4 813 650 - 0	(59.2) (66.7) (48.9) (75.0) (76.2) (56.2) - (0.0) (33.3)	1 400 1 412 10 6 482 1 162 - 1	899 1 231 8 5 063 624 - 1 2	(100.0) (56.1) (80.0) (78.1) (53.7) - (100.0) (40.0)	1180 - 339 9 6260 1232 - 0 2 979 22 593	796 - 222 6 4 979 655 - - 1	(67.5) - (65.5) (66.7) (79.5) (53.2) - (50.0)	1 067 - 316 7 5 338 1 166 - 0 1 962 22 901	752 - 203 5 4 340 643 - -	(70.5) - (64.2) (71.4) (81.3) (55.1) - (0.0) (55.8)
Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino	411 7 6 527 1 064 0 0 2 943 18 213	1 176 4 4730 611 - - 1 538 8802	(100.0) (42.8) (57.1) (72.5) (57.4) - (50.0) (57.1) (48.3)	1 472 3 411 16 6 320 1157 - 2 3 919 20 089	872 2 201 12 4 813 650 - 0 1 457 10 170	(59.2) (66.7) (48.9) (75.0) (76.2) (56.2) (0.0) (33.3) (49.7) (50.6)	1 400 1 412 10 6 482 1 162 - 1 5 996 22 607	899 1 231 8 5 063 624 - 1 2 487 12 117	(100.0) (56.1) (80.0) (78.1) (53.7) - (100.0) (40.0) (48.9) (53.6)	1180 - 339 9 6260 1232 - 0 2 979 22 593 0	796 - 222 6 4 979 655 - 1 518 12 141	(67.5) - (65.5) (66.7) (79.5) (53.2) - (50.0) (52.9) (53.7)	1 067 - 316 7 5 338 1 166 - 0 1 962 22 901 0	752 - 203 5 4 340 643 - 0 537 12 629	(70.5) - (64.2) (71.4) (81.3) (55.1) - (0.0) (55.8) (55.1)
Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia	411 7 6 527 1 064 0 0 2 943 18 213 -	1 176 4 4 4 730 611 - 1 538 8 802 - 15	(100.0) (42.8) (57.1) (72.5) (57.4) - (50.0) (57.1) (48.3) - (78.9)	1 472 3 411 16 6 320 1 157 - 2 3 919 20 089 - 19	872 2 201 12 4 813 650 - 0 1 457 10 170 -	(59.2) (66.7) (48.9) (75.0) (76.2) (56.2) (0.0) (33.3) (49.7) (50.6)	1 400 1 412 10 6 482 1 162 - 1 5 996 22 607 - 10	899 1 231 8 5 063 624 - 1 2 487 12 117 - 9	(100.0) (56.1) (80.0) (78.1) (53.7) - (100.0) (40.0) (48.9) (53.6) - (90.0)	1180 - 339 9 6260 1232 - 0 2 979 22 593 0 12	796 - 222 6 4 979 655 - 1 518 12 141 - 9	(67.5) - (65.5) (66.7) (79.5) (53.2) - (50.0) (52.9) (53.7) - (75.0)	1 067 	752 - 203 5 4 340 643 - 0 537 12 629 - 7	(70.5) - (64.2) (71.4) (81.3) (55.1) - (0.0) (55.8) (55.1) - (70.0)
Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo¹	411 7 6 527 1 064 0 0 2 943 18 213 - 19	1 176 4 4 730 611 - 1 538 8 802 - 15 10	(100.0) (42.8) (57.1) (72.5) (57.4) - (50.0) (57.1) (48.3) - (78.9) (76.9)	1 472 3 411 16 6 320 1 157 - 2 3 919 20 089 - 19 13	872 2 201 12 4 813 650 - 0 1 457 10 170 - 12	(59.2) (66.7) (48.9) (75.0) (76.2) (56.2) (0.0) (33.3) (49.7) (50.6) (63.2) (53.8)	1 400 1 412 10 6 482 1 162 - 1 5 996 22 607 - 10 5	899 1 231 8 5 063 624 - 1 2 487 12 117 - 9	(100.0) (56.1) (80.0) (78.1) (53.7) (100.0) (40.0) (48.9) (53.6) (90.0) (80.0)	1180 - 339 9 6260 1232 - 0 2 979 22 593 0 12 10	796 222 6 4 979 655 1 518 12 141 9	(67.5) - (65.5) (66.7) (79.5) (53.2) - (50.0) (52.9) (53.7) - (75.0) (70.0)	1 067 	752 - 203 5 4 340 643 - 0 537 12 629 - 7	(70.5) (64.2) (71.4) (81.3) (55.1) (0.0) (55.8) (55.1) (70.0) (66.7)
Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo¹ Kosovo¹	411 7 6527 1 064 0 0 2 943 18 213 - 19	1 176 4 4 730 611 - 1 538 8 802 - 15 10 5	(100.0) (42.8) (57.1) (72.5) (57.4) - (50.0) (57.1) (48.3) - (78.9)	1 472 3 411 16 6 320 1 157 - 2 3 919 20 089 - 19 13 6	872 2 201 12 4 813 650 - 0 1 1 457 10 170 - 12 7	(59.2) (66.7) (48.9) (75.0) (76.2) (56.2) (0.0) (33.3) (49.7) (50.6) (63.2) (53.8) (83.3)	1 400 1 412 10 6 482 1 162 - 1 5 996 22 607 - 10 5	899 1 231 8 5 063 624 - 1 2 487 12 117 - 9 4 5	(100.0) (56.1) (80.0) (78.1) (53.7) - (100.0) (40.0) (48.9) (53.6) - (90.0) (80.0) (100.0)	1180 - 339 9 6260 1232 - 0 2 2979 22593 0 12 10 2	796 - 222 6 4 979 655 - 1 518 12 141 - 9 7	(67.5) - (65.5) (66.7) (79.5) (53.2) - (50.0) (52.9) (53.7) - (75.0) (70.0) (100.0)	1 067 - 316 7 5 338 1 166 - 0 1 1 962 22 901 0 10 6 4	752 - 203 5 4 340 643 - 0 0 537 12 629 - 7 4	(70.5) (64.2) (71.4) (81.3) (55.1) (0.0) (55.8) (55.1) (70.0) (66.7) (75.0)
Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo¹ Kosovo¹ Switzerland	411 7 6527 1 064 0 0 2 943 18 213 - 19 13 6	1 176 4 4 730 611 - 1 538 8 802 - 15 10 5 -	(100.0) (42.8) (57.1) (72.5) (57.4) - (50.0) (57.1) (48.3) - (78.9) (76.9) (83.3)	1 472 3 411 16 6 320 1 157 - 2 3 919 20 089 - 19 13 6 12	872 2 201 12 4 813 650 - 0 1 1 457 10 170 - 12 7	(59.2) (66.7) (48.9) (75.0) (76.2) (56.2) - (0.0) (33.3) (49.7) (50.6) - (63.2) (53.8) (83.3) (75.0)	1 400 1 412 10 6 482 1 162 - 1 5 996 22 607 - 10 5 5 16	899 1 231 8 5 063 624 - 1 2 487 12 117 - 9 4 5	(100.0) (56.1) (80.0) (78.1) (53.7) - (100.0) (40.0) (48.9) (53.6) - (90.0) (80.0) (100.0) (43.8)	1180 - 339 9 6260 1232 - 0 2 2979 22593 0 12 10 2 17	796 - 222 6 4 979 655 - 1 1 518 12 141 - 9 7 2	(67.5) - (65.5) (66.7) (79.5) (53.2) - (50.0) (52.9) (55.7) - (75.0) (70.0) (100.0) (47.1)	1 067 - 316 7 5 338 1 166 - 0 1 962 22 901 0 10 6 4	752 - 203 5 4 340 643 - 0 537 12 629 - 7 4 3 10	(70.5) (64.2) (71.4) (81.3) (55.1) (0.0) (55.8) (70.0) (66.7) (75.0) (83.3)
Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo¹ Kosovo¹ Switzerland Tajikistan	411 7 6527 1 064 0 0 2 943 18 213 - 19 13 6	1 176 4 4 730 611 - 1 538 8 802 - 15 10 5 - 375	(100.0) (42.8) (57.1) (72.5) (57.4) - (50.0) (57.1) (48.3) - (78.9) (76.9) (83.3)	1 472 3 411 16 6 320 1157 - 2 3 919 20 089 - 19 13 3 6 12 804	872 2 201 12 4 813 650 0 1 1 457 10 170 - 12 7 7 5 9	(59.2) (66.7) (48.9) (75.0) (76.2) (56.2) - (0.0) (33.3) (49.7) (50.6) - (63.2) (53.8) (83.3) (75.0) (49.5)	1 400 1 412 10 6 482 1 162 - 1 5 996 22 607 - 10 5 5 16 682	899 1 231 8 5 063 624 - 1 2 487 12 117 - 9 4 5 7 398	(100.0) (56.1) (80.0) (78.1) (53.7) - (100.0) (40.0) (48.9) (53.6) (90.0) (80.0) (100.0) (43.8) (58.4)	1180 - 339 9 6260 1232 - 0 2 979 22 593 0 12 10 2 17 681	796 - 222 6 4 979 655 - 1 518 12 141 - 9 7 7 2 8 440	(67.5) - (65.5) (66.7) (79.5) (53.2) - (50.0) (52.9) (53.7) - (75.0) (70.0) (100.0) (47.1) (64.6)	1 067 - 316 7 5 338 1166 - 0 1 962 22 901 0 10 6 4 12 546	752 - 203 5 4 340 643 - 0 537 12 629 - 7 4 3 10 352	(70.5) (64.2) (71.4) (81.3) (55.1) (0.0) (55.8) (55.1) (70.0) (66.7) (75.0) (83.3) (64.5)
Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo¹ Kosovo¹ Switzerland Tajikistan Turkey	411 7 6527 1 064 0 0 2 943 18 213 - 19 13 6 - 625 228	1 176 4 4 730 611 - 1 538 8 802 - 15 10 5 5 - 375 149	(100.0) (42.8) (57.1) (72.5) (57.4) - (50.0) (57.1) (48.3) (78.9) (76.9) (83.3) - (60.0) (65.4)	1 472 3 411 16 6 320 1157 - 2 3 919 20 089 - 19 13 6 12 804 257	872 2 201 12 4 813 650 - 0 1 457 10 170 - 12 7 5 9 398 163	(59.2) (66.7) (48.9) (75.0) (76.2) (50.6) (0.0) (33.3) (49.7) (50.6) (63.2) (53.8) (83.3) (75.0) (49.5)	1 400 1 412 10 6 482 1162 - 1 5 996 22 607 - 10 5 5 16 682 230	899 1 231 8 5 063 624 - 1 2 487 12 117 - 9 4 5 7 398 156	(100.0) (56.1) (80.0) (78.1) (53.7) - (100.0) (40.0) (48.9) (53.6) - (90.0) (80.0) (100.0) (43.8) (58.4) (67.8)	1180 - 339 9 6260 1232 - 0 2 979 22 593 0 12 10 0 2 17 681 211	796 - 222 6 4 979 655 - 1 518 12 141 - 9 7 2 8 440 131	(67.5) - (65.5) (66.7) (79.5) (53.2) - (50.0) (52.9) (53.7) - (75.0) (70.0) (47.1) (64.6) (62.1)	1 067 - 316 7 5 338 1166 - 0 1 962 22 901 0 10 6 4 12 546 202	752 - 203 5 4 340 643 - 0 537 12 629 - 7 4 3 10 352 139	(70.5) (64.2) (71.4) (81.3) (55.1) (0.0) (55.8) (55.1) (70.0) (66.7) (75.0) (83.3) (64.5) (68.8)
Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo¹ Kosovo¹ Switzerland Tajikistan Turkey Turkmenistan	411 7 6527 1064 0 0 2 943 18 213 - 19 13 6 - 625 228 81	1 176 4 4 730 611 - 1 538 8 802 - 15 10 5 - 375 149 0	(100.0) (42.8) (57.1) (72.5) (57.4) - (50.0) (57.1) (48.3) - (78.9) (76.9) (83.3) - (60.0) (65.4) (0.0)	1 472 3 411 16 6 320 1157 - 2 3 919 20 089 - 19 13 6 12 804 257 213	872 2 201 12 4 813 650 0 1 457 10 170 - 12 7 5 9 398 163 143	(59.2) (66.7) (48.9) (75.0) (76.2) (50.6) (0.0) (33.3) (49.7) (50.6) (63.2) (53.8) (83.3) (75.0) (49.5) (63.4) (67.1)	1 400 1 412 10 6 482 1162 - 1 5 996 22 607 - 10 5 5 16 682 230 210	899 1 231 8 5 063 624 - 1 2 487 12 117 - 9 4 5 7 398 156 142	(100.0) (56.1) (80.0) (78.1) (53.7) (100.0) (40.0) (48.9) (53.6) (90.0) (80.0) (100.0) (43.8) (58.4) (67.8) (67.6)	1180 - 339 9 6260 1232 - 0 2 979 22 593 0 12 10 2 17 681 211 557	796 - 222 6 4 979 655 - 1 518 12 141 - 9 7 2 8 440 131 303	(67.5) - (65.5) (66.7) (79.5) (53.2) - (50.0) (52.9) (53.7) - (75.0) (100.0) (100.0) (47.1) (64.6) (62.1) (54.4)	1 067 - 316 7 5 338 1166 - 0 1 1 962 22 901 0 10 6 4 12 546 202 343	752 - 203 5 4 340 643 - 0 537 12 629 - 7 4 3 10 352 139 226	(70.5) (64.2) (71.4) (81.3) (55.1) (0.0) (55.8) (55.1) (70.0) (66.7) (75.0) (83.3) (64.5) (68.8)
Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo¹ Kosovo¹ Switzerland Tajikistan Turkey Turkmenistan Ukraine	411 7 6527 1064 0 0 2 943 18213 - 19 13 6 - 625 228 81 7 633	1 176 4 4 730 611 - 1 538 8 802 - 15 10 5 - 375 149 0 2 948	(100.0) (42.8) (57.1) (72.5) (57.4) - (50.0) (57.1) (48.3) - (78.9) (76.9) (83.3) (60.0) (65.4) (0.0) (38.6)	1 472 3 411 16 6 320 1 157 - 2 3 919 20 089 - 19 13 6 12 804 257 213 7 174	872 2 201 12 4813 650 0 1 457 10 170 - 12 7 5 9 398 163 143 3 297	(59.2) (66.7) (48.9) (75.0) (76.2) (50.6) (0.0) (33.3) (49.7) (50.6) (63.2) (53.8) (83.3) (75.0) (49.5) (63.4) (67.1) (46.0)	1 400 1 412 10 6 482 1162 - 1 5 996 22 607 - 10 5 5 16 682 230 210 7 592	899 1 231 8 5 063 624 - 1 2 487 12 117 - 9 4 5 7 398 156 142 3 855	(100.0) (56.1) (80.0) (78.1) (53.7) - (100.0) (40.0) (48.9) (53.6) - (90.0) (80.0) (100.0) (43.8) (58.4) (67.8) (67.6) (50.8)	1180 - 339 9 6260 1232 - 0 2 979 22 593 0 12 10 2 17 681 211 557 7 277	796 222 6 4 979 655 1 518 12 141 9 7 2 8 440 131 303 3 590	(67.5) - (65.5) (66.7) (79.5) (53.2) - (50.0) (52.9) (53.7) - (75.0) (100.0) (47.1) (64.6) (62.1) (54.4) (49.3)	1 067 	752 - 203 5 4 340 643 - 0 537 12 629 - 7 4 3 10 352 139 226 3 407	(70.5) (64.2) (71.4) (81.3) (55.1) (0.0) (55.8) (70.0) (66.7) (75.0) (83.3) (64.5) (68.8) (65.9)
Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo¹ Kosovo¹ Switzerland Tajikistan Turkey Turkmenistan Ukraine Uzbekistan	411 7 6527 1064 0 0 2 943 18213 - 19 13 6 - 625 228 81 7 633 2 647	1 176 4 4 730 611 - 1 1 538 8 802 - 15 10 5 - 375 149 0 2 948 1 390	(100.0) (42.8) (57.1) (72.5) (57.4) - (50.0) (57.1) (48.3) - (78.9) (76.9) (83.3) - (60.0) (65.4) (0.0) (38.6) (52.5)	1 472 3 411 16 6 320 1 157 - 2 3 919 20 089 - 19 13 6 12 2804 257 213 7 174 3 602	872 2 201 12 4 813 650 0 1 457 10 170 - 12 7 5 9 398 163 143 3 297 2 216	(59.2) (66.7) (48.9) (75.0) (76.2) (56.2) (0.0) (33.3) (49.7) (50.6) (63.2) (53.8) (83.3) (75.0) (49.5) (63.4) (67.1) (46.0) (61.5)	1 400 1 412 10 6 482 1162 - 1 5 996 22 607 - 10 5 5 16 682 230 210 7 592 2 149	899 1 231 8 5 063 624 - 1 2 487 12 117 - 9 4 5 7 7 398 156 142 3 855 1 259	(100.0) (56.1) (80.0) (78.1) (53.7) (100.0) (40.0) (48.9) (53.6) (90.0) (80.0) (100.0) (43.8) (58.4) (67.8) (67.6) (50.8) (58.6)	1180 - 339 9 6260 1232 - 0 2 979 22 593 0 12 10 2 17 681 211 557 7 277 1 986	796 222 6 4 979 655 1 518 12 141 9 7 2 8 440 131 303 3 590 1 140	(67.5) - (65.5) (66.7) (79.5) (53.2) - (50.0) (52.9) (53.7) - (75.0) (100.0) (47.1) (64.6) (62.1) (54.4) (49.3) (57.4)	1 067 	752 - 203 5 4 340 643 - 0 537 12 629 - 7 4 3 10 352 139 226 3 407 1 372	(70.5), (64.2), (71.4), (81.3), (55.1), (55.1), (0.0), (55.8), (55.1), (70.0), (66.7), (75.0), (68.8), (65.9), (51.0), (60.6),
Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo¹ Kosovo¹ Switzerland Tajikistan Turkey Turkmenistan Ukraine	411 7 6527 1064 0 0 2 943 18213 - 19 13 6 - 625 228 81 7 633	1 176 4 4 730 611 - 1 538 8 802 - 15 10 5 - 375 149 0 2 948	(100.0) (42.8) (57.1) (72.5) (57.4) - (50.0) (57.1) (48.3) - (78.9) (76.9) (83.3) (60.0) (65.4) (0.0) (38.6)	1 472 3 411 16 6 320 1 157 - 2 3 919 20 089 - 19 13 6 12 804 257 213 7 174	872 2 201 12 4813 650 0 1 457 10 170 - 12 7 5 9 398 163 143 3 297	(59.2) (66.7) (48.9) (75.0) (76.2) (50.6) (0.0) (33.3) (49.7) (50.6) (63.2) (53.8) (83.3) (75.0) (49.5) (63.4) (67.1) (46.0)	1 400 1 412 10 6 482 1162 - 1 5 996 22 607 - 10 5 5 16 682 230 210 7 592	899 1 231 8 5 063 624 - 1 2 487 12 117 - 9 4 5 7 398 156 142 3 855	(100.0) (56.1) (80.0) (78.1) (53.7) - (100.0) (40.0) (48.9) (53.6) - (90.0) (80.0) (100.0) (43.8) (58.4) (67.8) (67.6) (50.8)	1180 - 339 9 6260 1232 - 0 2 979 22 593 0 12 10 2 17 681 211 557 7 277	796 222 6 4 979 655 1 518 12 141 9 7 2 8 440 131 303 3 590	(67.5) - (65.5) (66.7) (79.5) (53.2) - (50.0) (52.9) (53.7) - (75.0) (100.0) (47.1) (64.6) (62.1) (54.4) (49.3)	1 067 	752 - 203 5 4 340 643 - 0 537 12 629 - 7 4 3 10 352 139 226 3 407	(70.5) (64.2) (71.4) (81.3) (55.1) (0.0) (55.8) (70.0) (66.7) (75.0) (83.3) (64.5) (68.8) (65.9)

Note: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. EU/EEA: country data are shown as missing (-) when data on treatment outcomes are not reported. For inclusion in the cohort, drug-susceptibility data are also required. HPC: high-priority country.

RR/MDR-TB: rifampicin-resistant/multidrug-resistant tuberculosis.

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

All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

Table XIII. Treatment success after 24 months among XDR-TB cases started on treatment, European Region, 2013–2017

		2013			2014			2015			2016			2017	
	Success		cess		Suc	ess		Suco	cess		Succ	ess		Succ	ess
Country/area	XDR-TB cases (N)	N	(%)	XDR-TB cases (N)	N	(%)	XDR-TB cases (N)	N	(%)	XDR-TB cases (N)	N	(%)	XDR-TB cases (N)	N	(%)
EU/EEA															
Austria	3	2	(66.7)	2	1	(50.0)	1	1	(100.0)	2	1	(50.0)	3	1	(33.3)
Belgium	0	-	-	1	1	(100.0)	2	2	(100.0)	0	-	-	0	-	_
Bulgaria	4	0	(0.0)	3	0	(0.0)	4	2	(50.0)	0	-	-	1	0	(0.0)
Croatia	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-
Cyprus	-	-	-	0	-	-	0	-	-	0	-	-	0	-	-
Czechia	0	-	-	0	-	-	1	0	(0.0)	0	-	-	2	1	(50.0)
Denmark	1	1	(100.0)	0	-	-	1	0	(0.0)	0	-	-	0	-	-
Estonia	10	3	(30.0)	8	1	(12.5)	9	3	(33.3)	6	3	(50.0)	10	6	(60.0)
Finland	0	-	-	1	0	(0.0)	1	0	(0.0)	1	0	(0.0)	1	0	(0.0)
France	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Germany	3	0	(0.0)	11	2	(18.2)	9	3	(33.3)	7	3	(42.9)	5	2	(40.0)
Greece	0	-	- ()	-	-	-	0	-	- ()	0	-	- (::-:)	-	-	()
Hungary	1	0	(0.0)	0	-	-	1	0	(0.0)	7	3	(42.9)	4	2	(50.0)
Iceland	0	-	(400.0)	0	-	-	0	-	-	0	-	-	0	-	(400.0)
Ireland	1	1	(100.0)	0	-	-	0	-	-	0	-	-	1	1	(100.0)
Italy	- 1E	- 11	(72.2)	- 12	10	(76.0)	16	- 0	(50.0)	-	-	-	-	-	-
Latvia	15	11	(73.3)	13	10	(76.9)	16	8	(50.0)						_
Liechtenstein Lithuania	0	- 0	(0.0)	0 61	- 0	(0.0)	0 59	- 0	(0.0)	0 58	- 0	(0.0)	87	0	(0.0)
	47	-	(0.0)		-	(0.0)	0	-	(0.0)	0	-	(0.0)	0	-	(0.0)
Luxembourg Malta	0	0	(0.0)	0	_	_	0	_	_	0	_	_	0	_	_
Netherlands	0	-	(0.0)	0	_	_	0	_	_	0	_	_	0	_	
Norway	1	0	(0.0)	1	0	(0.0)	0	_	_	0	_	_	0	_	_
Poland	1	0	(0.0)	5	1	(20.0)	4	3	(75.0)	-	_	_	5	0	(0.0)
Portugal	4	2	(50.0)	3	2	(66.7)	6	1	(16.7)	4	0	(0.0)	0	-	(0.0)
Romania	56	9	(16.1)	57	9	(15.8)	71	28	(39.4)	68	23	(33.8)	57	0	(0.0)
Slovakia	0	_	(10.1)	0	_	(15.0)	0	_	(3).4)	0	-	(55.0)	2	0	(0.0)
Slovenia	0	-	-	0	-	_	0	-	-	0	-	_	0	_	(0.0)
Spain	-	-	-	-	-	-	0	-	-	0	-	-	0	-	_
Sweden	2	1	(50.0)	1	0	(0.0)	1	0	(0.0)	4	2	(50.0)	0	-	-
United Kingdom	3	2	(66.7)	3	1	(33.3)	9	3	(33.3)	7	4	(57.1)	3	1	(33.3)
Subtotal EU/EEA	153	32	(20.9)	170	28	(16.5)	195	54	(27.7)	164	39	(23.8)	181	14	(7.7)
Non-EU/EEA															
Albania	-	-	-	-	-	-	-	-	-	0	-	-	0	-	-
Andorra	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-
Armenia	10	2	(20.0)	10	4	(40.0)	8	4	(50.0)	10	3	(30.0)	16	7	(43.8)
Azerbaijan	95	25	(26.3)	69	16	(23.2)	-	-	-	-	-	-	182	115	(63.2)
Belarus	60	23	(38.3)	431	157	(36.4)	508	268	(52.8)	393	207	(52.7)	419	256	(61.1)
Bosnia and Herzegovina	-	-	-	0	-	-	-	-	-	-	-	-	-	-	-
Georgia	70	15	(21.4)	56	18	(32.1)	62	35	(56.5)	55	31	(56.4)	47	28	(59.6)
Israel	1	0	(0.0)	2	1	(50.0)	1	1	(100.0)	2	2	(100.0)	1	0	(0.0)
Kazakhstan	360	109	(30.3)	318	98	(30.8)	391	126	(32.2)	435	207	(47.6)	300	145	(48.3)
Kyrgyzstan	43	12	(27.9)	32	5	(15.6)	51	9	(17.6)	68	10	(14.7)	157	91	(58.0)
Monaco	3	3	(100.0)	-	-	-	-	-	-	-	-	- ()	-	-	(::::::::::::::::::::::::::::::::::::::
Montenegro	0	-	-	0	-	-	0	-	-	1	1	(100.0)	1	1	(100.0)
North Macedonia	0	-	-	0	-	(22.2)	0	-	(45.6)	0	-	(2(2)	0	-	(00.0)
Republic of Moldova	-			9	3	(33.3)	32	5	(15.6)	65	17	(26.2)	62	20	(32.3)
Russian Federation	1 965	520	(26.5)	2 209	687	(31.1)	2 882	960	(33.3)	2 909	1 094	(37.6)	4 140	1 710	(41.3)
San Marino Serbia	-	_	-	_	-	-	0	-	-	0	-	(0.0)	0	-	_
Serbia excluding Kosovo ¹	0	-		0	-	-	0	_	-	1	0	(0.0)	0	-	_
Kosovo ¹	-	-	-	-	-	_	-	-	_	_	-	_	0	-	
Switzerland	-	-	_	1	0	(0.0)	0	-	_	0	_	_	0	-	_
Tajikistan	4	3	(75.0)	-	-	(0.0)	-	_	_	43	20	(46.5)	250	155	(62.0)
Turkey	3	1	(33.3)	2	0	(0.0)	3	2	(66.7)	9	5	(55.6)	250	0	(0.0)
Turkmenistan	-	-	(22.2)	_	_	(0.0)	_	_	(00.7)	<i>J</i>	-	(55.0)	5	2	(40.0)
Ukraine	-	-	-	1 097	278	(25.3)	1206	424	(35.2)	1 353	501	(37.0)	1 376	473	(34.4)
Uzbekistan	_	_	_	1097	-	(20.0)	147	34	(23.1)	184	91	(49.5)	258	162	(62.8)
Subtotal non-EU/EEA	2 614	713	(27.3)	4 236	1 2 6 7	(29.9)	5 291	1868	(35.3)	5 528	2 189	(39.6)	7 216	3 165	(43.9)
Total European Region	2 767	745	(26.9)	4 406	1 295	(29.4)	5 486	1922	(35.0)	5 692	2 228	(39.1)	7 397	3 179	(43.0)
Subtotal 18 HPCs	2 742	733	(26.7)	4 375	1 286	(29.4)	5 449	1908	(35.0)	5 656	2 212	(39.1)	7 369	3 170	(43.0)

Note: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. EU/EEA: country data are shown as missing (–) when data on treatment outcomes 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. All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

Table XIV. Treatment success after 36 months among XDR-TB cases notified in EU/EEA, 2012–2016

		2012			2013			2014			2015		2016		
	S a	Succ	ess	Sa	Suco	ess	Sa	Suco	ess	Sa	Suc	cess	Sa	Succ	ess
Country/area	XDR-TB cases (N)	N	(%)	XDR-TB cases (N)	N	(%)									
EU/EEA															
Austria	7	2	(28.6)	3	2	(66.7)	2	2	(100.0)	1	1	(100.0)	2	2	(100.0)
Belgium	2	2	(100.0)	0	-	-	1	1	(100.0)	2	2	(100.0)	0	-	-
Bulgaria	5	1	(20.0)	4	0	(0.0)	3	0	(0.0)	4	2	(50.0)	0	-	-
Croatia	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-
Cyprus	0	-	-	-	-	-	0	-	-	0	-	-	0	-	-
Czechia	1	0	(0.0)	0	-	-	0	-	-	1	0	(0.0)	0	-	-
Denmark	0	-	-	1	1	(100.0)	0	-	-	1	0	(0.0)	0	-	-
Estonia	4	1	(25.0)	10	5	(50.0)	8	3	(37.5)	9	3	(33.3)	7	3	(42.9)
Finland	-	-	-	0	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Germany	1	0	(0.0)	3	0	(0.0)	11	2	(18.2)	9	4	(44.4)	7	3	(42.9)
Greece	0	-	-	0	-	-	-	-	-	0	-	-	0	-	-
Hungary	2	1	(50.0)	1	0	(0.0)	0	-	-	1	0	(0.0)	7	3	(42.9)
Iceland	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-
Ireland	0	-	-	-	-	-	0	-	-	0	-	-	0	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Latvia	17	9	(52.9)	15	11	(73.3)	13	10	(76.9)	-	-	-	-	-	-
Liechtenstein	0	-	-	0	-	-	0	-	-	0	-	-	-	-	-
Lithuania	52	6	(11.5)	47	11	(23.4)	61	15	(24.6)	59	15	(25.4)	58	18	(31.0)
Luxembourg	0	-	-	0	-	_	0	-	-	0	-	-	0	-	-
Malta	0	-	-	-	-	-	0	-	-	0	-	-	0	-	-
Netherlands	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-
Norway	0	-	-	1	0	(0.0)	1	0	(0.0)	0	-	-	0	-	-
Poland	0	-	-	1	0	(0.0)	5	1	(20.0)	-	-	-	8	1	(12.5)
Portugal	4	4	(100.0)	4	4	(100.0)	3	2	(66.7)	6	2	(33.3)	4	0	(0.0)
Romania	41	5	(12.2)	56	11	(19.6)	58	9	(15.5)	71	28	(39.4)	68	24	(35.3)
Slovakia	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-
Slovenia	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-
Spain	-	-	-	-	-	-	-	-	-	0	-	-	0	-	-
Sweden	2	2	(100.0)	2	2	(100.0)	1	0	(0.0)	1	1	(100.0)	4	2	(50.0)
United Kingdom	2	1	(50.0)	3	3	(100.0)	3	2	(66.7)	10	8	(80.0)	7	4	(57.1)
Total EU/EEA	140	34	(24.3)	151	50	(33.1)	170	47	(27.6)	175	66	(37.7)	172	60	(34.9)

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

Table XV. New and relapse TB cases^a tested using WHO-recommended rapid diagnostics^b such as Xpert MTB/RIF,^c European Region, 2015-2019

		2015			2016			2017			2018			2019	
Country/area	New and relapse TB cases	Cases testo WHO-recom rapid diag	ımended	New and relapse TB cases	Cases test WHO-recor rapid diag	nmended	New and relapse TB cases	Cases tes WHO-reco rapid dia		New and relapse TB cases		sted using ommended agnostics	New and relapse TB cases	Cases test WHO-recor rapid dia	mmended gnostics
	N	N	(%)	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)	464	366	(78.9)
Belgium ^d	919	444	(48.3)	982	473	(48.2)	911	484	(53.1)	910	522	(57.4)	895	613	(68.5)
Bulgaria	1 619	10	(0.6)	1 525	6	(0.4)	1 408	5	(0.4)	1290	7	(0.5)	1 288	17	(1.3)
Croatia	485	0	(0.0)	452	0	(0.0)	372	0	(0.0)	364	0	(0.0)	297	0	(0.0)
Cyprus	63	5	(7.9)	57	4	(7.0)	52	14	(26.9)	51	17	(33.3)	66	30	(45.5)
Czechia	507	273	(53.8)	511	252	(49.3)	495	334	(67.5)	434	274	(63.1)	458	314	(68.6)
Denmark ^d	320	186	(58.1)	292	209	(71.6)	253	198	(78.3)	270	262	(97.0)	260	238	(91.5
Estonia	206	153	(74.3)	188	144	(76.6)	171	138	(80.7)	145	127	(87.6)	147	132	(89.8)
Finland	268	85	(31.7)	223	62	(27.8)	242	91	(37.6)	224	104	(46.4)	224	131	(58.5)
France	4 457	0	(0.0)	5 446	0	(0.0)	5 015	0	(0.0)	4 779	0	(0.0)	4 8 6 9	0	(0.0)
Germany	5 626	4 154	(73.8)	5 739	4 454	(77.6)	5 353	4 314	(80.6)	5 329	4 479	(84.0)	4 628	3 934	(85.0)
Greece	438	187	(42.7)	417	168	(40.3)	434	204	(47.0)	406	181	(44.6)	434	219	(50.5)
Hungary	858	0	(0.0)	737	0	(0.0)	650	0	(0.0)	602	0	(0.0)	528	0	(0.0)
Iceland	7	6	(85.7)	6	5	(83.3)	13	12	(92.3)	8	8	(100.0)	13	12	(92.3)
Ireland ^d	266	84	(31.6)	290	118	(40.7)	283	124	(43.8)	290	140	(48.3)	247	114	(46.2)
Italy	3 476 697	0	(0.0)	3 778	0	(0.0)	3 828	170	(0.0)	3 777	0 -	(0.0)	3 185	0	(0.0)
Latvia Liechtenstein	697	0	(0.0)	641	0	(0.0)	543 1	<i>178</i>	(32.8)	1	1	(100.0)	_	-	
				1 247		(0.0)			(100.0)			(100.0)			(0.0)
Lithuania	1395	0	(0.0)	1 347	0	(0.0)	1268	0	(0.0)	1063	0	(0.0)	1 006	0	(0.0)
Luxembourg	30 32	0 2	(6.3)	29 50	0 17	(0.0)	32 42	13	(0.0)	42 55	0	(0.0)	48 98	0	(0.0)
Malta	846	634	(74.9)	875	588	(34.0)	772	576	(31.0)	781	579				(0.0) (76.8)
Netherlands	282	252	(89.4)	273	204	(67.2) (74.7)	237	183	(74.6)	188	150	(74.1)	746 153	573 130	(85.0)
Norway ^d									(77.2)			(79.8)			
Poland	6 237	743	(11.9)	6 143	888	(14.5)	5 535	1037	(18.7)	5 196	1054	(20.3)	4 983	1094	(22.0)
Portugal	2 154	333	(15.5)	1891	349	(18.5)	1870	404	(21.6)	1856	454	(24.5)	1720	479	(27.8)
Romania	14 215	1	(0.0)	12 774	846	(6.6)	12 303	3 214	(26.1)	11 581	2 757	(23.8)	11 083	2 808	(25.3)
Slovakia	308 129	68	(22.1)	281	58	(20.6)	228	56	(24.6)	273	66	(24.2)	214	60	(28.0)
Slovenia	4 818	109 997	(84.5)	118 3 973	96 976	(81.4) (24.6)	4 522	95 1 2 2 8	(84.8)	98 4 614	81 1181	(82.7)	98 4 071	1 2 0 5	(85.7) (29.6)
Spain Sweden	776	551	(71.0)	691	461	(66.7)	4 5 2 2	412	(84.6)	4 614	326	(25.6) (68.6)	4 07 1	386	(80.8)
United Kingdom ^d	5 844	328	(5.6)	5 726	377	(6.6)	5 219	412	(8.0)	4723	414	(8.8)	4 803	497	(10.3)
Subtotal EU/EEA	57 843	10 029	(17.3)	56 076	11 245	(20.1)	53 212	14 175	(26.6)	50 295	13 560	(27.0)	47 504	13 436	(28.3)
Non-EU/EEA	2/ 042	10 029	(17.3)	30 0/0	11 243	(20.1)	33 212	14 1/3	(20.0)	30 273	15 500	(27.0)	47 304	15 430	(20.3)
Albania	_	-	_	_	_	_	_	_	_	_	_	_	412	135	(32.8)
Andorra	4	3	(75.0)	4	4	(100.0)	1	1	(100.0)	2	2	(100.0)	5	5	(100.0)
Armenia	1 171	192	(16.4)	1 027	57	(5.6)	841	631	(75.0)	734	619	(84.3)	621	512	(82.4)
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)	4 823	4 096	(84.9)
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)	2 207	2 035	(92.2)
Bosnia and Herzegovina	1092	1092	(100.0)	907	2 333	(0.0)	2/01	2 432	(00.2)	2 339	2 201	(73.3)	2 2 0 /	2 033	(72.2)
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)	2 169	1 824	(84.1)
Israel	J 1J2	2 000	(05.7)	2 905	2 421	(01.2)	2 331	2 099	(00.0)	2 310	1 240	(0).0)	2 109	1024	(04.1)
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)	12 501	11 513	(92.1)
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)	6 138	4 575	(74.5)
Monaco	- 02/	1 302	(21.4)	7 020		(50.1)	- 0007	4 330	(07.0)	0 556	-	(01.7)	0 130	4 3/3	(/4.3)
Montenegro	80	0	(0.0)	87	25	(28.7)	75	48	(64.0)	84	64	(76.2)	80	57	(71.3)
North Macedonia	-	-	(0.0)	263	0	(0.0)	216	152	(70.4)	217	147	(67.7)	199	0	(0.0)
Republic of 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)	2 809	2 809	(100.0)
Russian Federation	-	-	(04.0)	92 407	64 512	(69.8)	84 510	65 843	(77.9)	78 258	57 344	(73.3)	73 328	58 300	(79.5)
San Marino	-	-	_	-	-	(37.0)	-	-	(//.//	70230	-	(/).)	7 5 5 2 0	-	(, , , ,)
Serbia	_	-	_	_	_	_	1 450	275	(19.0)	1330	399	(30.0)	1106	414	(37.4)
Serbia excluding Kosovo ¹	_	_	_	-	_	-	738	0	(0.0)	641	0	(0.0)	501	0	(0.0)
Kosovo ¹	_	-	_	_	_	_	712	275	(38.6)	689	399	(57.9)	605	414	(68.4)
Switzerland	_	-	-	-	_	-	529	354	(66.9)	-		(31.3)	402	304	(75.6)
Tajikistan	_	-	_	5 965	4 368	(73.2)	5 895	3 075	(52.2)	5 726	4 235	(74.0)	5 755	4 915	(85.4)
Turkey	_	-	-	-	-	(, 5.2)	-	-	(32.2)	-	-	(/4.0)		-	(05.4)
Turkmenistan	_	-	_	_	_	_	1 968	1 488	(75.6)	2 157	1 611	(74.7)	2 117	1 650	(77.9)
Ukraine	30 151	23 177	(76.9)	-	_	-	- 700	- 400	(,).0)	26 512	23 093	(87.1)	25 379	22 537	(88.8)
Uzbekistan	70 171	- 25 177	(/0.9)	16 050	12 270	(76.4)	16 842	11 368	(67.5)	16 413	14 390	(87.7)	16 272	12 074	(74.2)
Subtotal non-EU/EEA	69 512	47 706	(68.6)	150 982	103 088	(68.3)	145 430	108 340	(74.5)	163 338		(78.2)	156 323	127 755	(81.7
Total European Region	127 355	57 735	(45.3)	207 058	114 333	(55.2)	198 642	122 515	(61.7)	213 633		(66.1)	203 827	141 191	(69.3)
at marabagu megian	: 555	21123	(43.3)	166 196	104 055	(62.6)	158 852		(69.9)	175 784		(74.0)	167 643	171 171	(77.4)

Note: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. HPC: high-priority country.

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

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

c WHO (2013). Automated real-time nucleic acid amplification technology for rapid and simultaneous detection of TB and rifampicin resistance. Xpert MTB/RIF assay for the diagnosis of pulmonary and extrapulmonary TB in adults and children. Policy update. Geneva: World Health Organization; 2013 (https://apps. who.int/iis/handle/10665/112472, accessed 8 February 2021).

d Previous TB history is defined as previous diagnosis.

all references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).



Abbreviations used in country profiles

ART antiretroviral therapy C+ culture-positive

DRS drug-resistance surveillance
DST drug-susceptibility testing
MDR-TB multidrug-resistant tuberculosis
EQA external quality assessment

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

RR-TB rifampicin-resistant tuberculosis

TB tuberculosis

XDR-TB extensively drug-resistant tuberculosis

Population estimate 2019 by United Nations Statistical Database: 2 880 913

TB cases, 2019

N	ot	ifi	ca	ti	on	S

MOLITICALIONS				
Total number of cases		412		
Notification rate per 100 000	14.3			
New ^a and relapse	412			
New ^a and relapse notification rate per 100 000	14.3			
Pulmonary	320	(77.7%)		
of which microscopy-positive	-	-		
of which laboratory-confirmed	225	(70.3%)		
Laboratory-confirmed TB cases	-	-		
Mean age of new native TB cases	45.	0 years		
Mean age of new foreign TB cases		-		
Foreign origin of all TB cases	0	(0.0%)		
New (not previously treated)	383	(93.0%)		
Estimates				
Estimated new and relapse cases N, best	470	[410-550]		

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

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a	No			
Completeness of HIV datab	Yes			
Case-linked data-reporting	١	/es		
Cases with DST results	29	(12.9%)		
Estimated RR-TB among notified bacteriologically confirmed pulmonary cases N, best [low-high]	6	[1-11]		
Pulmonary MDR-TB cases notified	2	(6.9%)		
of which XDR-TB cases	0	(0.0%)		
Notified MDR-TB	2	-		
of which XDR-TB cases	0	-		
TB cases tested for HIV	368	(89.3%)		
HIV-positive TB cases	8	(2.2%)		
of these on ART	8	(100.0%)		

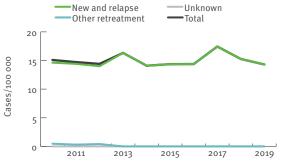
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases \gt 50%, DST done for C+ \gt 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

Geographical coverage	Nat	ional			
Outcome cohort	TB case	d relapse s notified 2018 ^a	All RR/MDR-TB cases enrolled into second-line treatmen in 2017 ^b		
Case-linked data-reporting	١	'es	-		
Cases notified	434	-	()	
Success	386	(88.9%)	-	-	
Died	16	(3.7%)	-	-	
Failed	1	(0.2%)	-	-	
Lost to follow up	17	(3.9%)	-	-	
Not evaluated	14	(3.2%)	-	-	

^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 previous treatment history, 2010-2019^a



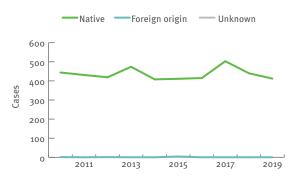
^a Starting from 2013 onward, cases with unknown history are included in new and relapse.

New and relapse TB cases - notification rates by age group, 2010-2019^a

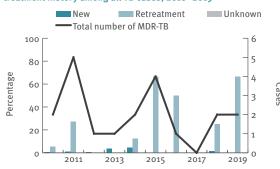


^a Data up to 2012 include new TB cases only.

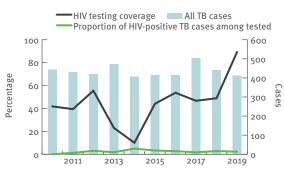
TB cases by geographical origin, 2010-2019



MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010–2019

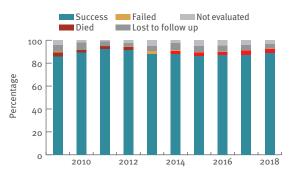


TB/HIV coinfection, 2010-2019^a



^a Data up to 2014 include all TB cases.

Treatment outcome, new and relapse TB cases, 2009-2018a



Total population estimate 2019 by United Nations Statistical Database: 77 147

TB cases, 2019

Notifications			
Total number of cases	5		
Notification rate per 100 000		6.5	
New ^a and relapse		5	
New ^a and relapse notification rate per 100 000	6.5		
Pulmonary	4	(80.0%)	
of which microscopy-positive	-	-	
of which laboratory-confirmed	4	(100.0%)	
Laboratory-confirmed TB cases	-	-	
Mean age of new native TB cases	52.	0 years	
Mean age of new foreign TB cases		-	
Foreign origin of all TB cases	1	(20.0%)	
New (not previously treated)	5	(100.0%)	
Estimates			
Estimated new and relapse cases N, best [low-high]	6	[5-7]	

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

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a	No			
Completeness of HIV datab	No			
Case-linked data-reporting	Υ	'es		
Cases with DST results	2	(50.0%)		
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	0	[0-4]		
Pulmonary MDR-TB cases notified	0	(0.0%)		
of which XDR-TB cases	-	-		
Notified MDR-TB	0	-		
of which XDR-TB cases	-	-		
TB cases tested for HIV	0	(0.0%)		
HIV-positive TB cases	-	-		
of these on ART	-	-		

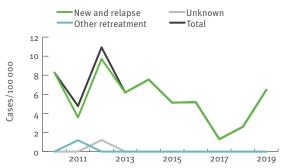
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases \gt 50%, DST done for C+ \gt 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

Geographical coverage	Na	tional		
Outcome cohort	New and relapse TB cases notified cases enr in 2018 ^a second-line in 2			olled into e treatment
Case-linked data-reporting		Yes	-	-
Cases notified		2	()
Success	2	(100.0%)	-	-
Died	0	(0.0%)	-	-
Failed	0	(0.0%)	-	-
Lost to follow up	0	(0.0%)	-	-
Not evaluated	0	(0.0%)	-	-

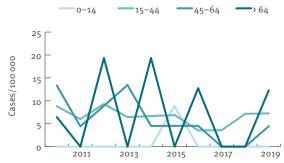
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

TB notification rates by previous treatment history, 2010-2019



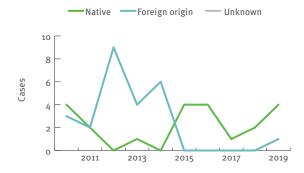
^a Starting from 2013 onward, cases with unknown history are included in new and relapse.

New and relapse TB cases - notification rates by age group, 2010-2019ª



a Data up to 2012 includes new TB cases only.

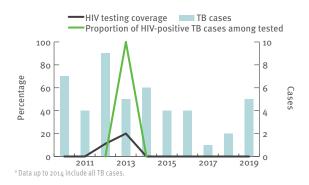
TB cases by geographical origin, 2010-2019



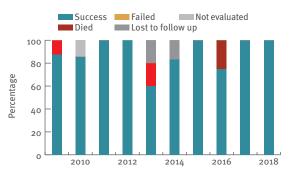
MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010–2019



TB/HIV coinfection, 2010-2019a



Treatment outcome, new and relapse TB cases, 2009–2018^a



^a 2009–2011 cohorts include new cases only.

Total population estimate 2019 by United Nations Statistical Database: 2 957 728

TB cases, 2019

Notifications				
Total number of cases	670			
Notification rate per 100 000		22.7		
New ^a and relapse		621		
New ^a and relapse notification rate per 100 000	21.0			
Pulmonary	531	(79.3%)		
of which microscopy-positive	-	-		
of which laboratory-confirmed	305	(57.4%)		
Laboratory-confirmed TB cases	-	-		
Mean age of new native TB cases	42.	6 years		
Mean age of new foreign TB cases		-		
Foreign origin of all TB cases	12	(1.8%)		
New (not previously treated)	542	(80.9%)		
Estimates				
Estimated new and relapse cases N, best [low-high]	780	[590-980]		

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

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a	Υ	'es
Completeness of HIV datab	Υ	'es
Case-linked data-reporting	Υ	'es
Cases with DST results	296	(97.0%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low–high]	66	[52-80]
Pulmonary MDR-TB cases notified	56	(18.9%)
of which XDR-TB cases	12	(54.5%)
Notified MDR-TB	57	-
of which XDR-TB cases	12	-
TB cases tested for HIV	591	(95.2%)
HIV-positive TB cases	62	(10.5%)
of these on ART	62	(100.0%)

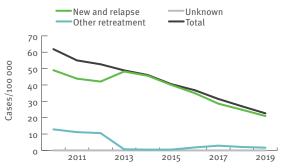
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases \gt 50%, DST done for C+ \gt 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

Geographical coverage	Nat	ional		
Outcome cohort	TB case	lew and relapse B cases notified in 2018 ^a All RR/MDR-TI cases enrolled i second-line treati in 2017 ^b		nrolled into ne treatment
Case-linked data-reporting	١	'es		-
Cases notified		615		104
Success	497	(80.8%)	52	(50.0%)
Died	43	(7.0%)	11	(10.6%)
Failed	15	(2.4%)	10	(9.6%)
Lost to follow up	60	(9.8%)	31	(29.8%)
Not evaluated	0	(0.0%)	0	(0.0%)

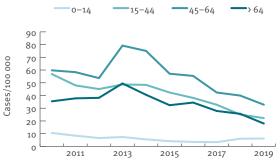
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

TB notification rates by previous treatment history, 2010-2019^a



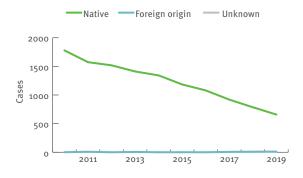
^a Starting from 2013 onward, cases with unknown history are included in new and relapse.

New and relapse TB cases - notification rates by age group, 2010-2019^a



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

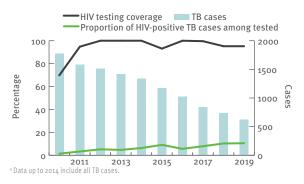
TB cases by geographical origin, 2010-2019



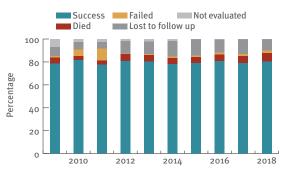
MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010–2019



TB/HIV coinfection, 2010-2019^a



Treatment outcome, new and relapse TB cases, 2009-2018a



Total population at 25 June 2020 by EUROSTAT: 8 858 775

TB cases, 2019

Notifications

Nothications		
Total number of cases	474	
Notification rate per 100 000	5.4	
New ^a and relapse	464	
New ^a and relapse notification rate per 100 000	5.2	
Pulmonary	342	(72.2%)
of which microscopy-positive	92	(26.9%)
of which laboratory-confirmed	265	(77.5%)
Laboratory-confirmed TB cases	342	(72.2%)
Mean age of new native TB cases	54.5 years	
Mean age of new foreign TB cases	35.	2 years
Foreign origin of all TB cases	263	(55.5%)
New (not previously treated)	345	(72.8%)
Estimates		
Estimated new and relapse cases N, best [low-high]	560	[480-650]

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

Drug-resistance surveillance and TB/HIV coinfection, 2019

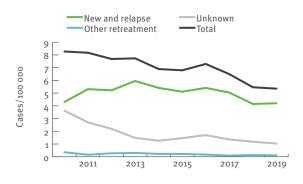
Completeness of DRS data ^a		Yes
Completeness of HIV datab	-	
Case-linked data-reporting		Yes
Cases with DST results	331	(96.8%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	10	[4-17]
Pulmonary MDR-TB cases notified	3	(1.2%)
of which XDR-TB cases	0	(0.0%)
Notified MDR-TB	4	(1.2%)
of which XDR-TB cases	0	(0.0%)
New ^c and relapse cases tested for HIV	-	-
HIV-positive TB cases	-	-
of these on ART	-	-

Treatment outcome monitoring

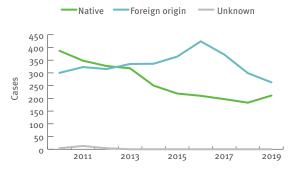
Geographical coverage	Na	tional		
Outcome cohort	pulmona	re-positive ry TB cases d in 2018ª		R-TB cases ed in 2017 ^b
Case-linked data-reporting	Yes -		-	
Cases notified	208			18
Success	143	(68.8%)	9	(50.0%)
Died	21	(10.1%)	2	(11.1%)
Failed	0	(0.0%)	0	(0.0%)
Lost to follow up	0	(0.0%)	0	(0.0%)
Still on treatment	29	(13.9%)	0	(0.0%)
Not evaluated	15	(7.2%)	7	(38.9%)

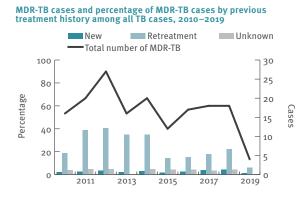
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

TB notification rates by previous treatment history, 2010-2019



TB cases by geographical origin, 2010-2019



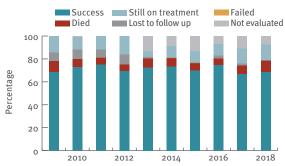


New and relapse TB cases - notification rates by age group, 2010-2019



TB/HIV coinfection, 2010-2019

Data not reported



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. Cases with unknown previous TB treatment history included as new cases.

Total population estimate 2019 by United Nations Statistical Database: 10 047 719

TB cases, 2019

Notifications

NOTHICATIONS			
Total number of cases	6 533		
Notification rate per 100 000	65.0		
New ^a and relapse	4 823		
New ^a and relapse notification rate per 100 000	48.0		
Pulmonary	5 600	(85.7%)	
of which microscopy-positive	-	-	
of which laboratory-confirmed	4 130	(73.8%)	
Laboratory-confirmed TB cases	-	-	
Mean age of new native TB cases	2	6.7 years	
Mean age of new foreign TB cases		-	
Foreign origin of all TB cases	0	(0.0%)	
New (not previously treated)	3 613	(55.3%)	
Estimates			
Estimated new and relapse cases N, hest [low-high]	6 000	[4 600-7 600]	

a Cases with unknown previous TB history included in new cases

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a	,	/es
Completeness of HIV datab	Yes	
Case-linked data-reporting	Yes	
Cases with DST results	3 757	(91.0%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	760	[710-810]
Pulmonary MDR-TB cases notified	414	(11.0%)
of which XDR-TB cases	89	(24.3%)
Notified MDR-TB	834	-
of which XDR-TB cases	197	-
TB cases tested for HIV	4 5 3 4	(94.0%)
HIV-positive TB cases	71	(1.6%)
of these on ART	71	(100.0%)

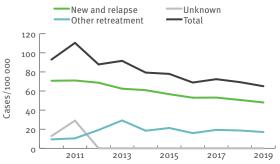
 $[^]a$ National coverage 100% or culturing 90%, C+/all TB cases \flat 50%, DST done for C+ \flat 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status

Treatment outcome monitoring

Geographical coverage	Nat	ional		
Outcome cohort	TB case	d relapse s notified 1018°	cases er second-lir	/MDR-TB irolled into ne treatment 2017 ^b
Case-linked data-reporting	Υ	es		-
Cases notified	1	751	8	358
Success	1 471	(84.0%)	509	(59.3%)
Died	39	(2.2%)	103	(12.0%)
Failed	95	(5.4%)	136	(15.9%)
Lost to follow up	121	(6.9%)	110	(12.8%)
Not evaluated	25	(1.4%)	0	(0.0%)

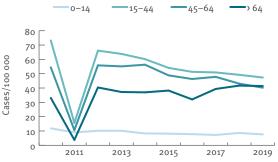
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

TB notification rates by previous treatment history, 2010-2019^a



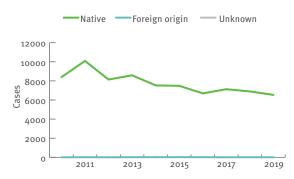
^a Starting from 2013 onward, cases with unknown history are included in new and relapse.

New and relapse TB cases - notification rates by age group, 2010-2019

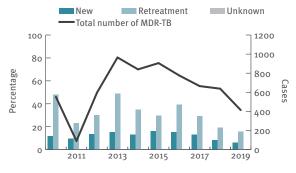


^a Data up to 2012 includes new TB cases only.

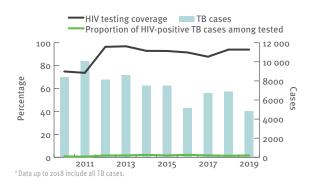
TB cases by geographical origin, 2010-2019



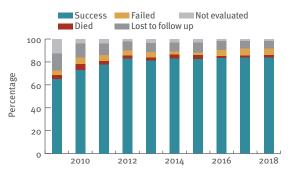
MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010–2019



TB/HIV coinfection, 2010-2019a



Treatment outcome, new and relapse TB cases, 2009-2018a



^a 2009–2011 cohorts include new cases only.

Population estimate 2018 by United Nations Statistical Database: 9 452 409

TB cases, 2019

Notifications

Total number of cases	2 615		
Notification rate per 100 000	27.7		
New ^a and relapse	2 207		
New ^a and relapse notification rate per 100 000	23.3		
Pulmonary	2 115	(80.9%)	
of which microscopy-positive	-	-	
of which laboratory-confirmed	2 013	(95.2%)	
Laboratory-confirmed TB cases	-	-	
Mean age of new native TB cases	4	8.3 years	
Mean age of new foreign TB cases		-	
Foreign origin of all TB cases	0	(0.0%)	
New (not previously treated)	1758	(67.2%)	
Estimates			
Estimated new and relapse cases N, best [low-high]	2 800	[2 100-3 500]	

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

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a		Yes
Completeness of HIV datab	Yes	
Case-linked data-reporting	Yes	
Cases with DST results	2 013	(100.0%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	870	[830-920]
Pulmonary MDR-TB cases notified	808	(40.1%)
of which XDR-TB cases	185	(22.9%)
Notified MDR-TB	838	-
of which XDR-TB cases	344	-
TB cases tested for HIV	2 207	(100.0%)
HIV-positive TB cases	157	(7.1%)
of these on ART	149	(94.9%)

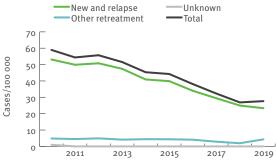
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases \gt 50%, DST done for C+ \gt 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

Geographical coverage	Nat	ional		
Outcome cohort	New and relapse TB cases notified in 2018 ^a All RR/MDR- cases enrolled second-line trea in 2017 ^b		rolled into ne treatment	
Case-linked data-reporting	Υ	es		-
Cases notified	1	418	1	067
Success	1 250	(88.2%)	752	(70.5%)
Died	94	(6.6%)	94	(8.8%)
Failed	33	(2.3%)	100	(9.4%)
Lost to follow up	32	(2.3%)	112	(10.5%)
Not evaluated	9	(0.6%)	9	(0.8%)

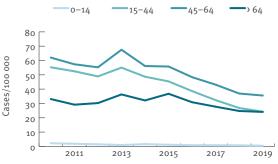
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

TB notification rates by previous treatment history, 2010-2019^a



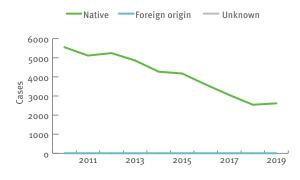
^a Starting from 2013 onward, cases with unknown history are included in new and relapse.

New and relapse TB cases - notification rates by age group, 2010-2019a



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

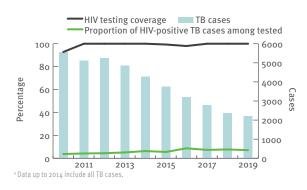
TB cases by geographical origin, 2010-2019



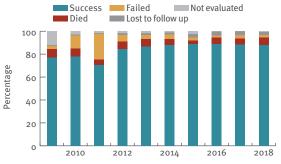
MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010-2019



TB/HIV coinfection, 2010-2019^a



Treatment outcome, new and relapse TB cases, 2009-2018a



Belgium

Total population at 25 June 2020 by EUROSTAT: 11 455 519

TB cases, 2019

Notifications

Total number of cases		968	
Notification rate per 100 000	8.5		
New ^a and relapse	895		
New ^a and relapse notification rate per 100 000	7.8		
Pulmonary	692	(71.5%)	
of which microscopy-positive	356	(51.4%)	
of which laboratory-confirmed	564	(81.5%)	
Laboratory-confirmed TB cases	737	(76.1%)	
Mean age of new native TB cases	49.	5 years	
Mean age of new foreign TB cases	34.	3 years	
Foreign origin of all TB cases	541	(55.9%)	
New (not previously treated)	755	(78.0%)	
Estimates			
Estimated new and relapse 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, 2019

Completeness of DRS data ^a	Υ	'es
Completeness of HIV data ^b	Υ	'es
Case-linked data-reporting	Yes	
Cases with DST results	707	(95.9%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	16	[7-25]
Pulmonary MDR-TB cases notified	12	(2.2%)
of which XDR-TB cases	0	(0.0%)
Notified MDR-TB	15	(2.1%)
of which XDR-TB cases	0	(0.0%)
New ^c and relapse cases tested for HIV	463	(51.7%)
HIV-positive TB cases	36	(7.8%)
of these on ART	-	-

^{*} National coverage 100% or culturing > 90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA ≥ 95%.

* More than 50% of TB cases with reported HIV status.

* Cases with unknown previous TB treatment history included in new cases.

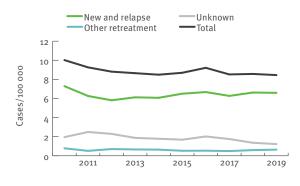
Cases

Treatment outcome monitoring

Geographical coverage	Nat	tional		
Outcome cohort	pulmona	r culture-positive monary TB cases otified in 2018 ^a All MDR-TB case notified in 2017		
Case-linked data-reporting	١	/es	-	
Cases notified	440 5		5	
Success	350	(79.5%)	4	(80.0%)
Died	32	(7.3%)	0	(0.0%)
Failed	1	(0.2%)	0	(0.0%)
Lost to follow up	41 (9.3%)		0	(0.0%)
Still on treatment	8	(1.8%)	0	(0.0%)
Not evaluated	8	(1.8%)	1	(20.0%)

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

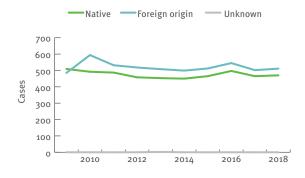
TB notification rates by previous treatment history, 2010-2019



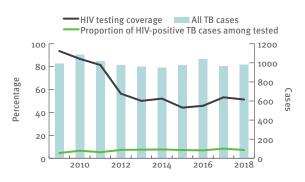
New and relapse TB cases - notification rates by age group, 2010-2019



TB cases by geographical origin, 2010–2019

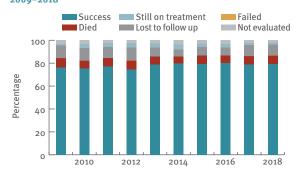


TB/HIV coinfection, 2010-2019



MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010-2019





Bosnia and Herzegovina

Total population estimate 2019 by United Nations Statistical Database: 3 300 998

TB cases, 2019

Notifications

MULITICALIUMS			
Total number of cases	580		
Notification rate per 100 000	17.6		
New ^a and relapse	580		
New ^a and relapse notification rate per 100 000	17.6		
Pulmonary	502	(86.6%)	
of which microscopy-positive	-	-	
of which laboratory-confirmed	355	(70.7%)	
Laboratory-confirmed TB cases	-	-	
Mean age of new native TB cases	44.3 years		
Mean age of new foreign TB cases		-	
Foreign origin of all TB cases	0	(0.0%)	
New (not previously treated)	535	(92.2%)	
Estimates			
Estimated new and relapse cases N, best [low-high]	900	[690-1100]	

a Cases with unknown previous TB history included in new cases

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a	1	No
Completeness of HIV datab	No	
Case-linked data-reporting	Yes	
Cases with DST results	242	(68.2%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary cases N, best [low–high]	2	[0-4]
Pulmonary MDR-TB cases notified	0	(0.0%)
of which XDR-TB cases	-	-
Notified MDR-TB	0	-
of which XDR-TB cases	-	-
TB cases tested for HIV	18	(3.1%)
HIV-positive TB cases	0	(0.0%)
of these on ART	-	-

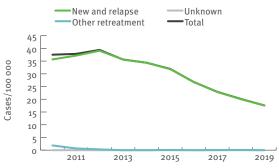
 $[^]a$ National coverage 100% or culturing \geq 90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA \geq 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

Geographical coverage	Nat	tional		
Outcome cohort	New and relapse TB cases notified in 2018 ^a All RR/MDR-TI cases enrolled i second-line treat in 2017 ^b		olled into treatment	
Case-linked data-reporting	Yes		-	
Cases notified	666		C	
Success	189	(28.4%)	-	-
Died	35	(5.3%)	-	-
Failed	11	(1.7%)		
Lost to follow up	3	(0.5%)	-	-
Not evaluated	428	(64.3%)	-	-

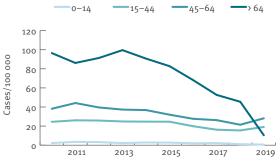
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

TB notification rates by previous treatment history, 2010-2019^a



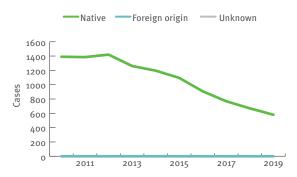
^a Starting from 2013 onward, cases with unknown history are included in new and relapse.

New and relapse TB cases - notification rates by age group, 2010-2019ª

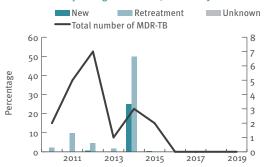


a Data up to 2012 includes new TB cases only.

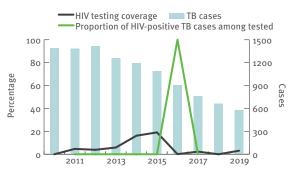
TB cases by geographical origin, 2010-2019



MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010-2019

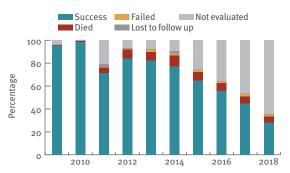


TB/HIV coinfection, 2010-2019a



^a Data up to 2014 include all TB cases.

Treatment outcome, new and relapse TB cases, 2009-2018a



Bulgaria

Total population at 25 June 2020 by EUROSTAT: 7 000 039

TB cases, 2019

Nο	tifi	cati	ons

NOTHICALIONS			
Total number of cases	1344		
Notification rate per 100 000	19.1		
New ^a and relapse	1288		
New ^a and relapse notification rate per 100 000	18.4		
Pulmonary	1066	(79.3%)	
of which microscopy-positive	512	(48.0%)	
of which laboratory-confirmed	616	(57.8%)	
Laboratory-confirmed TB cases	626	(46.6%)	
Mean age of new native TB cases	49.1 years		
Mean age of new foreign TB cases		-	
Foreign origin of all TB cases	0	(0.0%)	
New (not previously treated)	1 193	(88.8%)	
Estimates			
Estimated new and relapse cases N,	1400	[1100-1800]	

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

Drug-resistance surveillance and TB/HIV coinfection, 2019

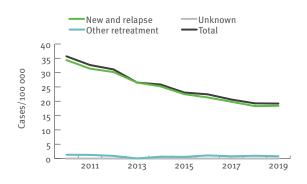
Completeness of DRS data ^a	Υ	es
Completeness of HIV datab	Υ	es
Case-linked data-reporting	Υ	es
Cases with DST results	454	(72.5%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	30	[20-41]
Pulmonary MDR-TB cases notified	11	(2.5%)
of which XDR-TB cases	0	(0.0%)
Notified MDR-TB	11	(2.4%)
of which XDR-TB cases	0	(0.0%)
New ^c and relapse cases tested for HIV	1065	(82.7%)
HIV-positive TB cases	1	(0.1%)
of these on ART	1	(100.0%)

Treatment outcome monitoring

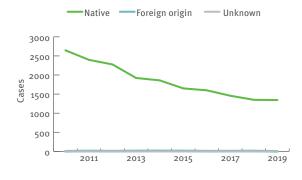
Geographical coverage	Nat	ional		
Outcome cohort	New culture-positive pulmonary TB cases notified in 2018a notified in 20			
Case-linked data-reporting	Yes -		-	
Cases notified	517		24	
Success	441	(85.3%)	16	(66.7%)
Died	42	(8.1%)	2	(8.3%)
Failed	2	(0.4%)	0	(0.0%)
Lost to follow up	27 (5.2%)		5	(20.8%)
Still on treatment	3	(0.6%)	1	(4.2%)
Not evaluated	2	(0.4%)	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.

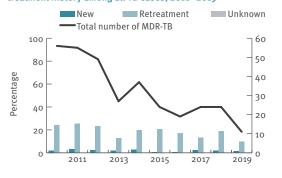
TB notification rates by previous treatment history, 2010-2019



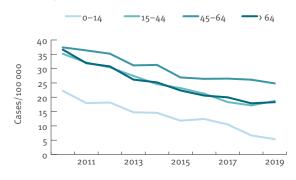
TB cases by geographical origin, 2010-2019



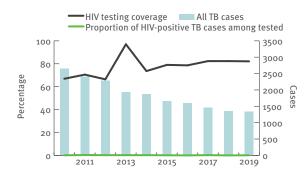
MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010-2019

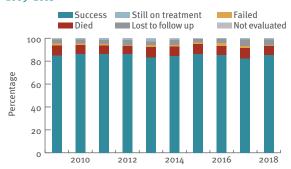


New and relapse TB cases - notification rates by age group, 2010-2019



TB/HIV coinfection, 2010-2019





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. Cases with unknown previous TB treatment history included in new cases.

Total population at 25 June 2020 by EUROSTAT: 4 076 246

TB cases, 2019

Notifications		
Total number of cases	303	
Notification rate per 100 000	7.4	
New ^a and relapse	297	
New ^a and relapse notification rate per 100 000	7.3	
Pulmonary	239	(78.9%)
of which microscopy-positive	147	(61.5%)
of which laboratory-confirmed	215	(90.0%)
Laboratory-confirmed TB cases	253	(83.5%)
Mean age of new native TB cases	84.0 years	
Mean age of new foreign TB cases		-
Foreign origin of all TB cases	4	(1.3%)
New (not previously treated)	2	(0.7%)
Estimates		
Estimated new and relapse cases N, best [low-high]	330	[280-380]

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

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a	١	/es
Completeness of HIV datab	No	
Case-linked data-reporting	Yes	
Cases with DST results	219	(86.6%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	2	[0-5]
Pulmonary MDR-TB cases notified	2	(1.1%)
of which XDR-TB cases	1	-
Notified MDR-TB	2	(0.9%)
of which XDR-TB cases	1	-
New ^c and relapse cases tested for HIV	4	(1.3%)
HIV-positive TB cases	0	(0.0%)
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. Cases with unknown previous TB treatment history included in new cases.

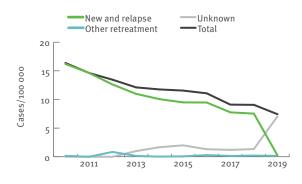
Cases

Treatment outcome monitoring

Nat	tional		
New culture-positive pulmonary TB cases notified in 2018 ^a		All MDR- notified	
Yes		-	-
241		()
75	(31.1%)	-	-
30	(12.4%)	-	-
0	(0.0%)	-	-
2	(0.8%)	-	-
5	(2.1%)	-	-
129	(53.5%)	-	-
	New cultt pulmona notified 75 75 30 0 2 5	pulmonary TB cases notified in 2018* Yes 241 75 (31.1%) 30 (12.4%) 0 (0.0%) 2 (0.8%) 5 (2.1%)	New culture-positive pulmonary TB cases notified in 2018a Yes 241 Colored Co

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

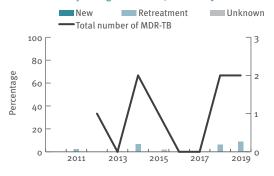
TB notification rates by previous treatment history, 2010-2019



TB cases by geographical origin, 2010-2019



MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010-2019

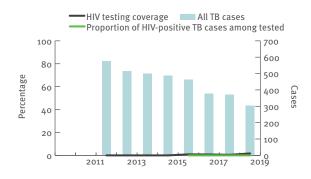


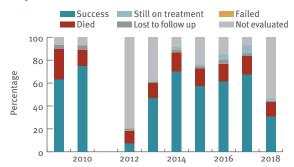
New^a and relapse TB cases – notification rates by age group, 2010-2019



^a For 2019, cases with unknown treatment history included in new cases.

TB/HIV coinfection, 2010-2019





opulation at 25 June 2020 by EUROSTAT: 875 899

TB cases, 2019

Notifications

Total number of cases		69
Notification rate per 100 000		8.0
New ^a and relapse	66	
New ^a and relapse notification rate per 100 000	7.5	
Pulmonary	62	(89.9%)
of which microscopy-positive	21	(33.9%)
of which laboratory-confirmed	49	(79.0%)
Laboratory-confirmed TB cases	53	(76.8%)
Mean age of new native TB cases	59.0 years	
Mean age of new foreign TB cases	34.0 years	
Foreign origin of all TB cases	62	(89.9%)
New (not previously treated)	64	(92.8%)
Estimates		
Estimated new and relapse cases N, best [low-high]	64	[54-73]

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

Drug-resistance surveillance and TB/HIV coinfection, 2019

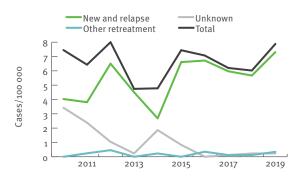
Completeness of DRS data ^a	1	/es
Completeness of HIV datab	Yes	
Case-linked data-reporting	Yes	
Cases with DST results	53	(100.0%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	0	[0-3]
Pulmonary MDR-TB cases notified	1	(2.0%)
of which XDR-TB cases	0	(0.0%)
Notified MDR-TB	1	(1.9%)
of which XDR-TB cases	0	-
New ^c and relapse cases tested for HIV	41	(62.1%)
HIV-positive TB cases	1	(2.4%)
of these on ART	-	-

Treatment outcome monitoring

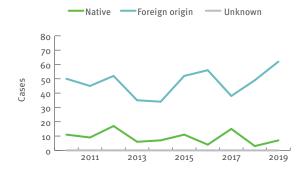
Geographical coverage	Na	tional		
Outcome cohort	New culture-positive pulmonary TB cases notified in 2018° Yes			R-TB cases ed in 2017 ^b
Case-linked data-reporting			=	
Cases notified	33			1
Success	22	(66.7%)	0	(0.0%)
Died	0	(0.0%)	0	(0.0%)
Failed	0	(0.0%)	0	(0.0%)
Lost to follow up	0	(0.0%)	0	(0.0%)
Still on treatment	2	(6.1%)	0	(0.0%)
Not evaluated	9	(27.3%)	1	(100.0%)

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

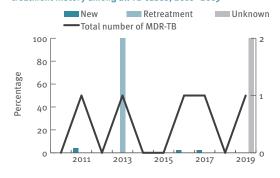
TB notification rates by previous treatment history, 2010-2019



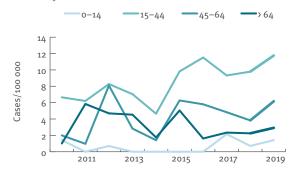
TB cases by geographical origin, 2010-2019



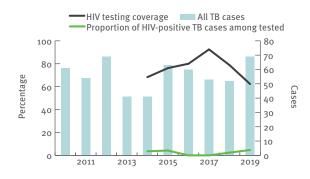
MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010-2019

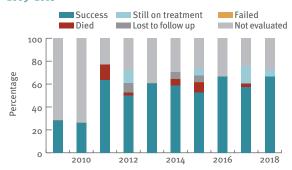


New and relapse TB cases - notification rates by age group, 2010-2019



TB/HIV coinfection, 2010-2019





^a National coverage 100% or culturing ≥ 90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA ≥ 95%.

^a More than 50% of TB cases with reported HIV status.

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

Total population at 25 June 2020 by EUROSTAT: 10 649 800

TB cases, 2019

Notifications

Total number of cases	464		
Notification rate per 100 000	4.4		
New ^a and relapse	458		
New ^a and relapse notification rate per 100 000	4.3		
Pulmonary	426	(91.8%)	
of which microscopy-positive	218	(51.2%)	
of which laboratory-confirmed	351	(82.4%)	
Laboratory-confirmed TB cases	375	(80.8%)	
Mean age of new native TB cases	56.2 years		
Mean age of new foreign TB cases	40.2 years		
Foreign origin of all TB cases	140	(30.2%)	
New (not previously treated)	444	(95.7%)	
Estimates			
Estimated new and relapse cases N, best [low-high]	530	[450-610]	

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

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a	Υ	'es
Completeness of HIV datab	Yes	
Case-linked data-reporting	Yes	
Cases with DST results	338	(90.1%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low–high]	11	[5-18]
Pulmonary MDR-TB cases notified	8	(2.5%)
of which XDR-TB cases	0	(0.0%)
Notified MDR-TB	8	(2.4%)
of which XDR-TB cases	0	(0.0%)
New ^c and relapse cases tested for HIV	267	(58.3%)
HIV-positive TB cases	8	(3.0%)
of these on ART	-	-

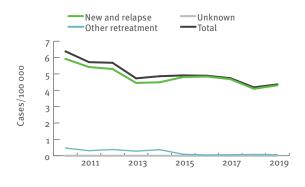
a National coverage 100% or culturing ≥ 90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA ≥ 95%. b More than 50% of TB cases with reported HIV status. Cases with unknown previous TB treatment history included in new cases.

Treatment outcome monitoring

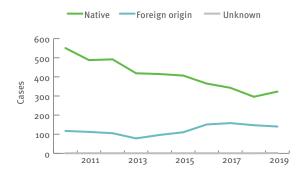
Nat	ional		
New culture-positive pulmonary TB cases notified in 2018 ^a			R-TB cases d in 2017 ^b
Yes			-
301			8
195	(64.8%)	3	(37.5%)
38	(12.6%)	0	(0.0%)
0	(0.0%)	1	(12.5%)
37	(12.3%)	1	(12.5%)
10	(3.3%)	1	(12.5%)
21	(7.0%)	2	(25.0%)
	New cultupulmonal notified New Sulface New	pulmonary TB cases notified in 2018* Yes 301 195 (64.8%) 38 (12.6%) 0 (0.0%) 37 (12.3%) 10 (3.3%)	New culture-positive pulmonary TB cases notified in 2018* Yes 301 195 (64.8%) 3 38 (12.6%) 0 0 (0.0%) 1 37 (12.3%) 1 10 (3.3%) 1

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

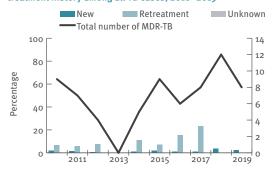
TB notification rates by previous treatment history, 2010-2019



TB cases by geographical origin, 2010-2019



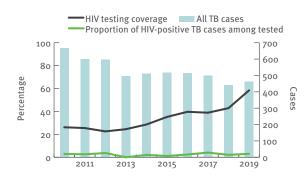
MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010-2019

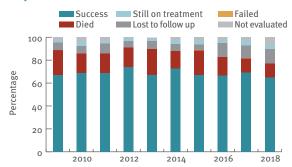


New and relapse TB cases - notification rates by age group, 2010-2019



TB/HIV coinfection, 2010-2019





Total population at 25 June 2020 by EUROSTAT: 5 806 081

TB cases, 2019

Notifications

Total number of cases	281	
Notification rate per 100 000		4.9
New ^a and relapse	260	
New ^a and relapse notification rate per 100 000	4.5	
Pulmonary	224	(79.7%)
of which microscopy-positive	94	(42.0%)
of which laboratory-confirmed	188	(83.9%)
Laboratory-confirmed TB cases	228	(81.1%)
Mean age of new native TB cases	49.4 years	
Mean age of new foreign TB cases	37.0 years	
Foreign origin of all TB cases	204	(72.6%)
New (not previously treated)	259	(92.2%)
Estimates		
Estimated new and relapse cases N, best [low-high]	290	[250-340]

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

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a	Υ	es
Completeness of HIV datab	Yes	
Case-linked data-reporting	Yes	
Cases with DST results	225	(98.7%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	4	[0-9]
Pulmonary MDR-TB cases notified	3	(1.6%)
of which XDR-TB cases	0	(0.0%)
Notified MDR-TB	4	(1.8%)
of which XDR-TB cases	0	(0.0%)
New ^c and relapse cases tested for HIV	208	(80.0%)
HIV-positive TB cases	5	(2.4%)
of these on ART	-	-

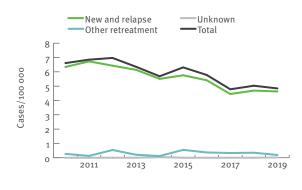
Cases

Treatment outcome monitoring

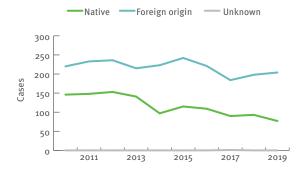
Geographical coverage	Nat	tional		
Outcome cohort	New culture-positive pulmonary TB cases notified in 2018 ^a			R-TB cases ed in 2017 ^b
Case-linked data-reporting	Yes			-
Cases notified	161			2
Success	20	(12.4%)	1	(50.0%)
Died	0	(0.0%)	0	(0.0%)
Failed	0	(0.0%)	0	(0.0%)
Lost to follow up	0	(0.0%)	0	(0.0%)
Still on treatment	0	(0.0%)	0	(0.0%)
Not evaluated	141	(87.6%)	1	(50.0%)

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

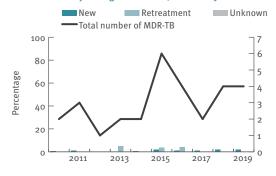
TB notification rates by previous treatment history, 2010-2019



TB cases by geographical origin, 2010-2019



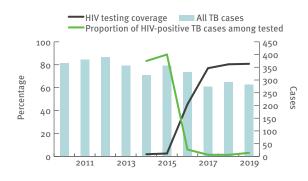
MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010–2019

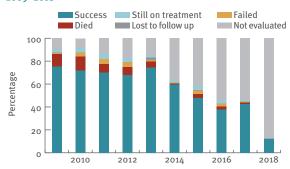


New and relapse TB cases - notification rates by age group, 2010-2019



TB/HIV coinfection, 2010-2019





^a National coverage 100% or culturing ≥ 90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA ≥ 95%.

^a More than 50% of TB cases with reported HIV status.

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

Total population at 25 June 2020 by EUROSTAT: 1324 820

TB cases, 2019

Notifications

Total number of cases	150		
Notification rate per 100 000	11.4		
New ^a and relapse	147		
New ^a and relapse notification rate per 100 000	11.1		
Pulmonary	139	(92.7%)	
of which microscopy-positive	64	(46.0%)	
of which laboratory-confirmed	121	(87.1%)	
Laboratory-confirmed TB cases	128	(85.3%)	
Mean age of new native TB cases	53.6 years		
Mean age of new foreign TB cases	56.8 years		
Foreign origin of all TB cases	36	(24.0%)	
New (not previously treated)	126	(84.0%)	
Estimates			
Estimated new and relapse cases N, best [low-high]	170	[140-200]	

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

Drug-resistance surveillance and TB/HIV coinfection, 2019

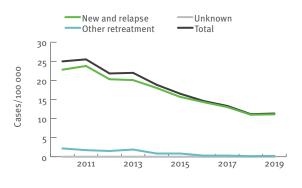
Completeness of DRS data ^a	Υ	es	
Completeness of HIV datab	Υ	es	
Case-linked data-reporting	Υ	es	
Cases with DST results	127	(99.2%)	
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	29	[20-38]	
Pulmonary MDR-TB cases notified	26	(21.3%)	
of which XDR-TB cases	4	(16.7%)	
Notified MDR-TB	26	(20.5%)	
of which XDR-TB cases	4	(16.7%)	
New ^c and relapse cases tested for HIV	138	(93.9%)	
HIV-positive TB cases	16	(11.6%)	
of these on ART	14	(87.5%)	

Treatment outcome monitoring

Geographical coverage	Na	tional		
Outcome cohort	pulmona	ure-positive ry TB cases d in 2018ª		R-TB cases d in 2017 ^b
Case-linked data-reporting	Yes –		-	
Cases notified	101		36	
Success	65	(64.4%)	27	(75.0%)
Died	13	(12.9%)	5	(13.9%)
Failed	0	(0.0%)	0	(0.0%)
Lost to follow up	1	(1.0%)	2	(5.6%)
Still on treatment	19	(18.8%)	2	(5.6%)
Not evaluated	3	(3.0%)	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.

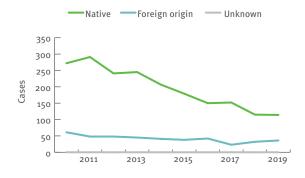
TB notification rates by previous treatment history, 2010-2019



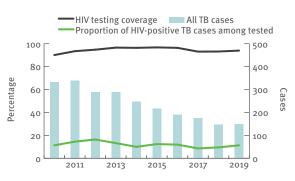
New and relapse TB cases - notification rates by age group, 2010-2019



TB cases by geographical origin, 2010-2019

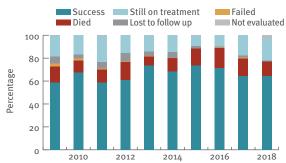


TB/HIV coinfection, 2010-2019



MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010–2019





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. Cases with unknown previous TB treatment history included in new cases.

Total population at 25 June 2020 by EUROSTAT: 5 517 919

TB cases, 2019

Notifications

nothications		
Total number of cases	225	
Notification rate per 100 000	4.1	
New ^a and relapse	224	
New ^a and relapse notification rate per 100 000	4.1	
Pulmonary	158	(70.2%)
of which microscopy-positive	45	(28.5%)
of which laboratory-confirmed	132	(83.5%)
Laboratory-confirmed TB cases	177	(78.7%)
Mean age of new native TB cases	66.4 years	
Mean age of new foreign TB cases	33.	9 years
Foreign origin of all TB cases	96	(42.7%)
New (not previously treated)	213	(94.7%)
Estimates		
Estimated new and relapse cases N, best [low-high]	260	[220-300]

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

Drug-resistance surveillance and TB/HIV coinfection, 2019

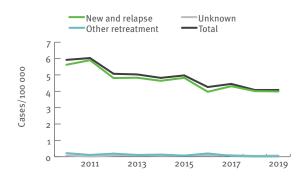
Completeness of DRS data ^a	١	es/es
Completeness of HIV datab	١	es/es
Case-linked data-reporting	١	es/es
Cases with DST results	169	(95.5%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	6	[2-10]
Pulmonary MDR-TB cases notified	2	(1.6%)
of which XDR-TB cases	0	(0.0%)
Notified MDR-TB	2	(1.2%)
of which XDR-TB cases	0	(0.0%)
New ^c and relapse cases tested for HIV	-	-
HIV-positive TB cases	-	-
of these on ART	-	-

Treatment outcome monitoring

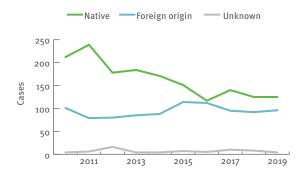
Geographical coverage	Na	tional		
Outcome cohort	pulmona	ure-positive ry TB cases d in 2018ª		R-TB cases ed in 2017 ^b
Case-linked data-reporting	,	Yes	-	
Cases notified		132 5		5
Success	39	(29.5%)	1	(20.0%)
Died	0	(0.0%)	1	(20.0%)
Failed	0	(0.0%)	0	(0.0%)
Lost to follow up	1	(0.8%)	0	(0.0%)
Still on treatment	1	(0.8%)	1	(20.0%)
Not evaluated	91	(68.9%)	2	(40.0%)

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

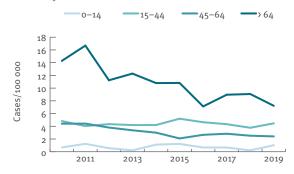
TB notification rates by previous treatment history, 2010-2019



TB cases by geographical origin, 2010-2019



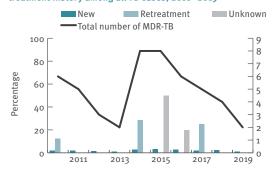
New and relapse TB cases - notification rates by age group, 2010-2019

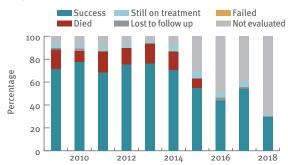


TB/HIV coinfection, 2010-2019

Data not reported

MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010–2019





 $[^]a$ 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. c Cases with unknown previous TB treatment history included in new cases.

Total population at 25 June 2020 by EUROSTAT: 67 012 883

TB cases, 2019

Notifications

Total number of cases	5 116		
Notification rate per 100 000	7.6		
New ^a and relapse		4 869	
New ^a and relapse notification rate per 100 000	7.3		
Pulmonary	3 476	(67.9%)	
of which microscopy-positive	1564	(45.0%)	
of which laboratory-confirmed	1 351	(38.9%)	
Laboratory-confirmed TB cases	1807	(35.3%)	
Mean age of new native TB cases	47	7.8 years	
Mean age of new foreign TB cases	37	7.5 years	
Foreign origin of all TB cases	3 102	(60.6%)	
New (not previously treated)	2 6 6 3	(52.1%)	
Estimates			
Estimated new and relapse cases N, best [low-high]	5 700	[5 000-6 400]	

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

Drug-resistance surveillance and TB/HIV coinfection, 2019

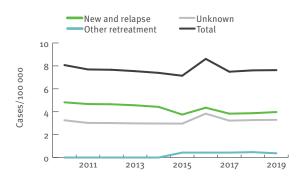
Completeness of DRS data ^a	Yes	
Completeness of HIV datab		-
Case-linked data-reporting	No	
Cases with DST results	75	(1.5%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	37	[27-47]
Pulmonary MDR-TB cases notified	60	(100.0%)
of which XDR-TB cases	8	(13.6%)
Notified MDR-TB	75	(100.0%)
of which XDR-TB cases	9	(12.2%)
New ^c and relapse cases tested for HIV	-	-
HIV-positive TB cases	-	-
of these on ART	-	-

Treatment outcome monitoring

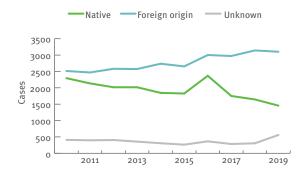
Geographical coverage	Nat	ional		
Outcome cohort	pulmona	re-positive ry TB cases I in 2018ª	All MDR- notified	
Case-linked data reporting	١	'es	-	-
Cases notified	7	94	-	-
Success	124	(15.6%)	-	-
Died	12	(1.5%)	-	-
Failed	0	(0.0%)	-	-
Lost to follow up	5	(0.6%)	-	-
Still on treatment	1	(0.1%)	-	-
Not evaluated	652	(82.1%)	-	-

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

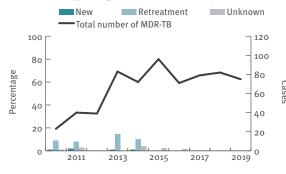
TB notification rates by previous treatment history, 2010–2019



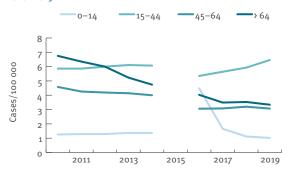
TB cases by geographical origin, 2010–2019



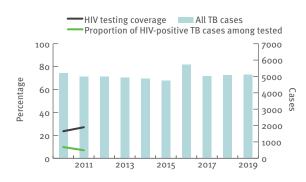
MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010–2019

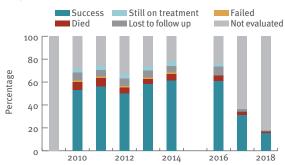


New and relapse TB cases - notification rates by age group, 2010-2019



TB/HIV coinfection, 2010-2019





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. Cases with unknown previous TB treatment history included in new cases.

Georgia

Total population estimate 2019 by United Nations Statistical Database: 3 996 762

TB cases, 2019

Notifications

Total number of cases		2 451	
Notification rate per 100 000	61.3		
New ^a and relapse	2 169		
New ^a and relapse notification rate per 100 000	54.3		
Pulmonary	2 015	(82.2%)	
of which microscopy-positive	-	-	
of which laboratory-confirmed	1841	(91.4%)	
Laboratory-confirmed TB cases	-	-	
Mean age of new native TB cases	4	1.9 years	
Mean age of new foreign TB cases		-	
Foreign origin of all TB cases	-	-	
New (not previously treated)	1897	(77.4%)	
Estimates			
Estimated new and relapse cases N, best [low-high]	3 000	[2500-3500]	

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

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a		Yes
Completeness of HIV datab	Yes	
Case-linked data-reporting	Yes	
Cases with DST results	1 412	(76.7%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	320	[280-350]
Pulmonary MDR-TB cases notified	229	(16.2%)
of which XDR-TB cases	31	(15.3%)
Notified MDR-TB	240	-
of which XDR-TB cases	31	-
TB cases tested for HIV	1841	(84.9%)
HIV-positive TB cases	33	(1.8%)
of these on ART	33	(100.0%)

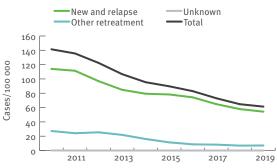
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases \gt 50%, DST done for C+ \gt 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

Geographical coverage	Nat	ional		
Outcome cohort	TB case	d relapse s notified 2018 ^a	All RR/MDR-TB cases enrolled into second-line treatme in 2017 ^b	
Case-linked data-reporting	Y	'es	-	
Cases notified	2	071		316
Success	1735	(83.8%)	203	(64.2%)
Died	86	(4.2%)	9	(2.8%)
Failed	51	(2.5%)	20	(6.3%)
Lost to follow up	145	(7.0%)	64	(20.3%)
Not evaluated	54 (2.6%)		20	(6.3%)

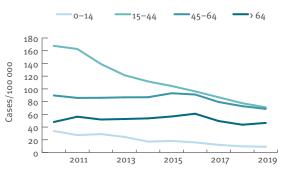
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

TB notification rates by previous treatment history, 2010-2019^a



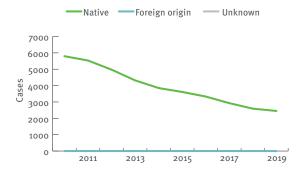
^a Starting from 2013 onward, cases with unknown history are included in new and relapse

New TB cases – notification rates by age group, 2009–2018^a

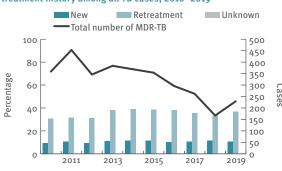


a Data up to 2012 includes new TB cases only

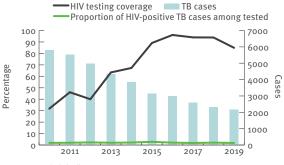
TB cases by geographical origin, 2010-2019



MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010-2019

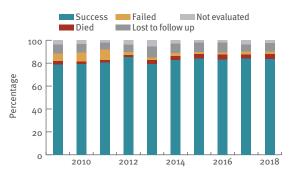


TB/HIV coinfection, 2010-2019a



^a Data up to 2014 include all TB cases.

Treatment outcome, new and relapse TB cases, 2009-2018a



Total population at 25 June 2020 by EUROSTAT: 83 019 213

TB cases, 2019

Notifications

Total number of cases	4 7 9 1		
Notification rate per 100 000	5.8		
New ^a and relapse	4 628		
New ^a and relapse notification rate per 100 000	5.4		
Pulmonary	3 435	(71.7%)	
of which microscopy-positive	1 731	(50.4%)	
of which laboratory-confirmed	2 8 0 2	(81.6%)	
Laboratory-confirmed TB cases	3 701	(77.2%)	
Mean age of new native TB cases	5	3.0 years	
Mean age of new foreign TB cases	3	6.4 years	
Foreign origin of all TB cases	3 362	(70.2%)	
New (not previously treated)	3 157	(65.9%)	
Estimates			
Estimated new and relapse cases N, best [low-high]	4 900	[4 600-5 100]	

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

Drug-resistance surveillance and TB/HIV coinfection, 2019

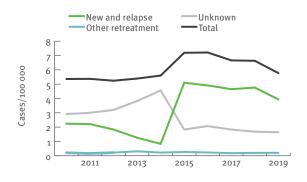
Completeness of DRS data ^a	Yes	
Completeness of HIV datab	-	
Case-linked data-reporting	Yes	
Cases with DST results	3 336	(90.1%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	100	[52-160]
Pulmonary MDR-TB cases notified	66	(2.6%)
of which XDR-TB cases	7	(14.3%)
Notified MDR-TB	86	(2.6%)
of which XDR-TB cases	8	(12.7%)
New ^c and relapse cases tested for HIV	-	-
HIV-positive TB cases	-	-
of these on ART	-	-

Treatment outcome monitoring

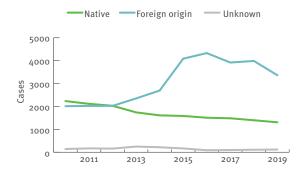
Geographical coverage	Nat	ional		
Outcome cohort	New culture-positive pulmonary TB cases notified in 2018 ^a			R-TB cases d in 2017 ^b
Case-linked data-reporting	Yes			-
Cases notified	2 254			121
Success	1666	(73.9%)	81	(66.9%)
Died	183	(8.1%)	4	(3.3%)
Failed	5	(0.2%)	0	(0.0%)
Lost to follow up	38 (1.7%)		4	(3.3%)
Still on treatment	67	(3.0%)	9	(7.4%)
Not evaluated	295	(13.1%)	23	(19.0%)

^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 previous treatment history, 2010-2019



TB cases by geographical origin, 2010-2019



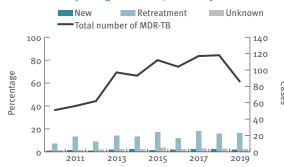
New and relapse TB cases - notification rates by age group, 2010-2019

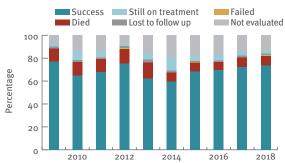


TB/HIV coinfection, 2010-2019

Data not reported

MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010–2019





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. Cases with unknown previous TB treatment history included in new cases.

Total population at 25 June 2020 by EUROSTAT: 10 724 599

TB cases, 2019

Notifications

Notifications			
Total number of cases	459		
Notification rate per 100 000	4.3		
New ^a and relapse	434		
New ^a and relapse notification rate per 100 000	4.0		
Pulmonary	396	(86.3%)	
of which microscopy-positive	201	(50.8%)	
of which laboratory-confirmed	249	(62.9%)	
Laboratory-confirmed TB cases	283	(61.7%)	
Mean age of new native TB cases	59.9 years		
Mean age of new foreign TB cases	31	.5 years	
Foreign origin of all TB cases	257	(56.0%)	
New (not previously treated)	406	(88.5%)	
Estimates			
Estimated new and relapse cases N, best [low-high]	450	[390-520]	

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

Drug-resistance surveillance and TB/HIV coinfection, 2019

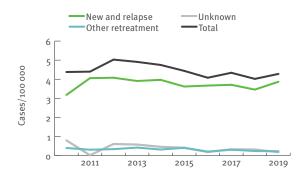
Completeness of DRS data ^a	Υ	'es
Completeness of HIV data ^b	Yes	
Case-linked data-reporting	Υ	'es
Cases with DST results	225	(79.5%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	7	[0-16]
Pulmonary MDR-TB cases notified	6	(3.0%)
of which XDR-TB cases	0	(0.0%)
Notified MDR-TB	6	(2.7%)
of which XDR-TB cases	0	(0.0%)
New ^c and relapse cases tested for HIV	388	(89.4%)
HIV-positive TB cases	19	(4.9%)
of these on ART	-	-

Treatment outcome monitoring

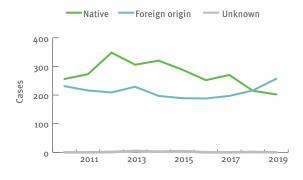
Geographical coverage	Nati	onal		
Outcome cohort	New culture-positive pulmonary TB cases notified in 2018 ^a All MDR-TB ca			
Case-linked data-reporting	Yes		-	_
Cases notified	159		7	7
Success	-	-	-	-
Died	-	-	-	-
Failed	-			-
Lost to follow up			-	-
Still on treatment			-	-
Not evaluated	-	-	-	-

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

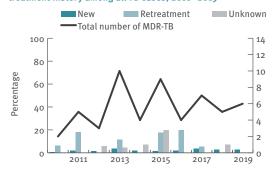
TB notification rates by previous treatment history, 2010-2019



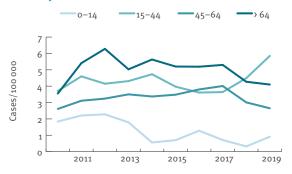
TB cases by geographical origin, 2010-2019



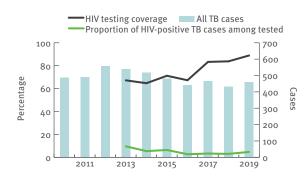
MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010–2019



New and relapse TB cases – notification rates by age group, 2010–2019



TB/HIV coinfection, 2010-2019



Treatment outcome, new culture-confirmed pulmonary TB cases,

Data not reported

Cases

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. Cases with unknown previous TB treatment history included in new cases.

Hungary

Total population at 25 June 2020 by EUROSTAT: 9 772 756

TB cases, 2019

Notifications

Total number of cases	552		
Notification rate per 100 000	5.6		
New ^a and relapse	528		
New ^a and relapse notification rate per 100 000	5.4		
Pulmonary	535	(96.9%)	
of which microscopy-positive	196	(36.6%)	
of which laboratory-confirmed	285	(53.3%)	
Laboratory-confirmed TB cases	287	(52.0%)	
Mean age of new native TB cases	53.1 years		
Mean age of new foreign TB cases	34	.1 years	
Foreign origin of all TB cases	43	(7.8%)	
New (not previously treated)	496	(89.9%)	
Estimates			
Estimated new and relapse cases N, best flow-highl	610	[520-700]	

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

Drug-resistance surveillance and TB/HIV coinfection, 2019

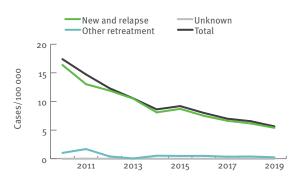
Completeness of DRS data ^a	١	es/es
Completeness of HIV datab	No	
Case-linked data-reporting	١	es/es
Cases with DST results	259	(90.2%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	12	[5-18]
Pulmonary MDR-TB cases notified	12	(4.7%)
of which XDR-TB cases	3	(60.0%)
Notified MDR-TB	12	(4.6%)
of which XDR-TB cases	3	(60.0%)
New ^c and relapse cases tested for HIV	31	(5.9%)
HIV-positive TB cases	3	(9.7%)
of these on ART	-	-

Treatment outcome monitoring

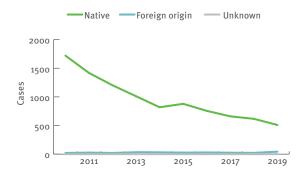
Geographical coverage	Nat	tional		
Outcome cohort	pulmona	New culture-positive pulmonary TB cases notified in 2018 ^a All MDR-TB ca notified in 20		
Case-linked data-reporting	١	/es	=	
Cases notified	320			11
Success	189	(59.1%)	5	(45.5%)
Died	63	(19.7%)	4	(36.4%)
Failed	4	(1.3%)	0	(0.0%)
Lost to follow up	27	(8.4%)	1	(9.1%)
Still on treatment	20	(6.3%)	0	(0.0%)
Not evaluated	17	(5.3%)	1	(9.1%)

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

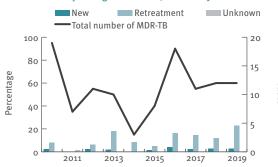
TB notification rates by previous treatment history, 2010-2019



TB cases by geographical origin, 2010-2019



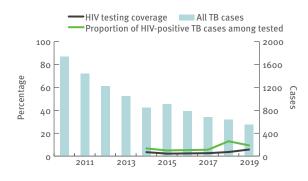
MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010-2019

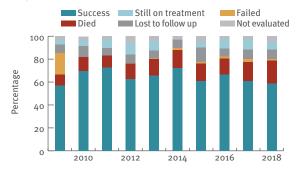


New and relapse TB cases - notification rates by age group, 2010-2019



TB/HIV coinfection, 2010-2019





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. Cases with unknown previous TB treatment history included in new cases.

Total population at 25 June 2020 by EUROSTAT: 356 991

TB cases, 2019

Notifications

Total number of cases	13		
Notification rate per 100 000	3.7		
New ^a and relapse	13		
New ^a and relapse notification rate per 100 000	3.6		
Pulmonary	7	(53.8%)	
of which microscopy-positive	3	(42.9%)	
of which laboratory-confirmed	4	(57.1%)	
Laboratory-confirmed TB cases	8	(61.5%)	
Mean age of new native TB cases	34.0 years		
Mean age of new foreign TB cases	39	.4 years	
Foreign origin of all TB cases	11	(84.6%)	
New (not previously treated)	13	(100.0%)	
Estimates			
Estimated new and relapse cases N, best [low-high]	15	[13-17]	

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

Drug-resistance surveillance and TB/HIV coinfection, 2019

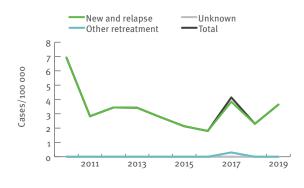
Completeness of DRS data ^a	,	Yes
Completeness of HIV datab	Yes	
Case-linked data-reporting	Yes	
Cases with DST results	8	(100.0%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	0	[0-2]
Pulmonary MDR-TB cases notified	0	(0.0%)
of which XDR-TB cases	0	-
Notified MDR-TB	0	(0.0%)
of which XDR-TB cases	0	-
New ^c and relapse cases tested for HIV	11	(84.6%)
HIV-positive TB cases	0	(0.0%)
of these on ART	-	-

Treatment outcome monitoring

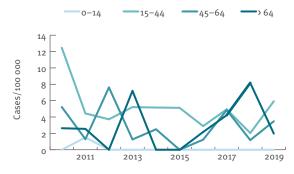
Geographical coverage	Na	itional		
Outcome cohort	New culture-positive pulmonary TB cases notified in 2018a notified in 2018a			
Case-linked data-reporting	Yes		-	-
Cases notified	2		()
Success	2	(100.0%)	-	-
Died	0	(0.0%)	-	-
Failed	0	(0.0%)	-	-
Lost to follow up	0 (0.0%)		-	-
Still on treatment	0	(0.0%)	-	-
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.

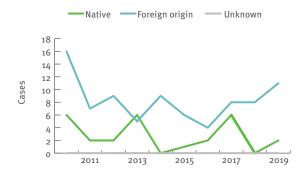
TB notification rates by previous treatment history, 2010-2019



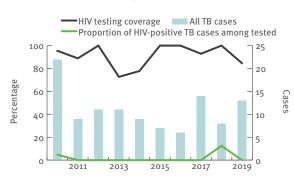
New and relapse TB cases - notification rates by age group, 2010-2019



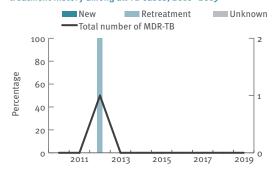
TB cases by geographical origin, 2010-2019

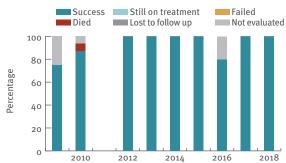


TB/HIV coinfection, 2010-2019



MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010–2019





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. Cases with unknown previous TB treatment history included in new cases.

Total population at 25 June 2020 by EUROSTAT: 4 904 240

TB cases, 2019

Notifications

Total number of cases	266		
Notification rate per 100 000	5.5		
New ^a and relapse	247		
New ^a and relapse notification rate per 100 000	5.0		
Pulmonary	171	(64.3%)	
of which microscopy-positive	55	(32.2%)	
of which laboratory-confirmed	142	(83.0%)	
Laboratory-confirmed TB cases	197	(74.1%)	
Mean age of new native TB cases	49.9 years		
Mean age of new foreign TB cases	37	.7 years	
Foreign origin of all TB cases	119	(44.7%)	
New (not previously treated)	154	(57.9%)	
Estimates			
Estimated new and relapse cases N, best [low-high]	280	[240-330]	

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

Drug-resistance surveillance and TB/HIV coinfection, 2019

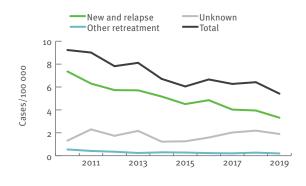
Completeness of DRS data ^a	Yes	
Completeness of HIV data ^b	No	
Case-linked data-reporting	,	Yes
Cases with DST results	175	(88.8%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	3	[0-7]
Pulmonary MDR-TB cases notified	2	(1.6%)
of which XDR-TB cases	0	(0.0%)
Notified MDR-TB	3	(1.7%)
of which XDR-TB cases	0	(0.0%)
New ^c and relapse cases tested for HIV	93	(37.7%)
HIV-positive TB cases	9	(9.7%)
of these on ART	6	(66.7%)

Treatment outcome monitoring

Na	tional		
pulmona	ry TB cases		R-TB cases ed in 2017 ^b
Yes			-
108			5
43	(39.8%)	2	(40.0%)
6	(5.6%)	0	(0.0%)
0	(0.0%)	0	(0.0%)
1	(0.9%)	0	(0.0%)
4	(3.7%)	0	(0.0%)
54	(50.0%)	3	(60.0%)
	New cult pulmona notifie	108 43 (39.8%) 6 (5.6%) 0 (0.0%) 1 (0.9%) 4 (3.7%)	New culture-positive pulmonary TB cases notified in 2018* Yes 108 43 (39.8%) 2 6 (5.6%) 0 0 (0.0%) 0 1 (0.9%) 0 4 (3.7%) 0

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

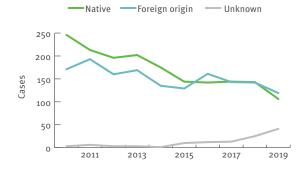
TB notification rates by previous treatment history, 2010-2019



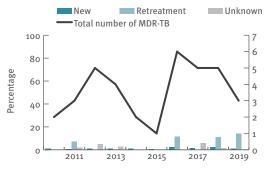
New and relapse TB cases - notification rates by age group, 2010-2019



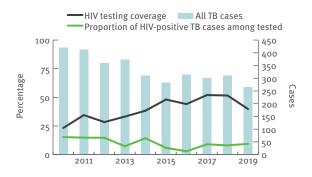
TB cases by geographical origin, 2010-2019

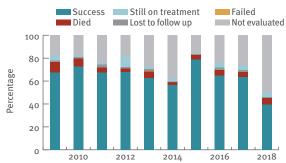


MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010-2019



TB/HIV coinfection, 2010-2019





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. Cases with unknown previous TB treatment history included in new cases.

Total population estimate 2019 by United Nations Statistical Database: 8 519 373

TB cases, 2019

Notifications

Total number of cases	217		
Notification rate per 100 000		2.5	
New ^a and relapse		217	
New ^a and relapse notification rate per 100 000		2.5	
Pulmonary	159	(73.3%)	
of which microscopy-positive	-	-	
of which laboratory-confirmed	111	(69.8%)	
Laboratory-confirmed TB cases	-	-	
Mean age of new native TB cases	44.3 years		
Mean age of new foreign TB cases		-	
Foreign origin of all TB cases	188	(86.6%)	
New (not previously treated)	211	(97.2%)	
Estimates			
Estimated new and relapse cases N, best [low-high]	250	[210-290]	

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

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a	,	Yes
Completeness of HIV datab	Yes	
Case-linked data-reporting	,	Yes
Cases with DST results	105	(94.6%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	10	[4-17]
Pulmonary MDR-TB cases notified	9	(8.6%)
of which XDR-TB cases	0	(0.0%)
Notified MDR-TB	10	-
of which XDR-TB cases	1	-
TB cases tested for HIV	217	(100.0%)
HIV-positive TB cases	8	(3.7%)
of these on ART	8	(100.0%)

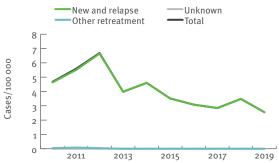
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases \gt 50%, DST done for C+ \gt 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

Geographical coverage	Nat	ional				
Outcome cohort	New and relapse TB cases notified in 2018 ^a		utcome cohort TB cases notified cases enr in 2018 ² second-line		/MDR-TB irolled into ne treatment 2017 ^b	
Case-linked data-reporting	Yes			-		
Cases notified	292			7		
Success	227	(77.7%)	5	(71.4%)		
Died	27	(9.2%)	1	(14.3%)		
Failed	8	(2.7%)	0	(0.0%)		
Lost to follow up	10	(3.4%)	0	(0.0%)		
Not evaluated	20	(6.8%)	1	(14.3%)		

^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 previous treatment history, 2010-2019^a



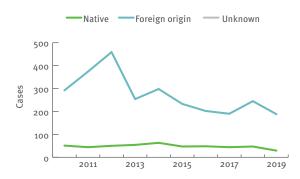
^a Cases with unknown previous treatment included with new and relapse cases.

New and relapse TB cases - notification rates by age group, 2010-2019ª

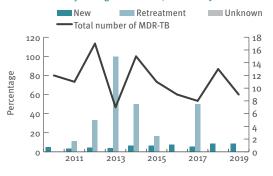


^a Data up to 2012 includes new TB cases only

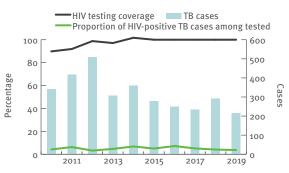
TB cases by geographical origin, 2010-2019



MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010–2019

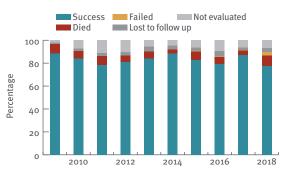


TB/HIV coinfection, 2010-2019a



^a Data up to 2014 includes all TB cases.

Treatment outcome, new and relapse TB cases, 2009-2018a



Total population at 25 June 2020 by EUROSTAT: 60 359 546

TB cases, 2019

Notifications

NULITICALIUMS			
Total number of cases	3 346		
Notification rate per 100 000	5.5		
New ^a and relapse	3 185		
New ^a and relapse notification rate per 100 000	5.3		
Pulmonary	2 537	(75.8%)	
of which microscopy-positive	1 033	(40.7%)	
of which laboratory-confirmed	2 134	(84.1%)	
Laboratory-confirmed TB cases	2 361	(70.6%)	
Mean age of new native TB cases	52.9 years		
Mean age of new foreign TB cases	37.2 years		
Foreign origin of all TB cases	1882	(56.2%)	
New (not previously treated)	2 661	(79.5%)	
Estimates			
Estimated new and relapse cases N,	4 300	[3 700-5 000]	

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

Drug-resistance surveillance and TB/HIV coinfection, 2019

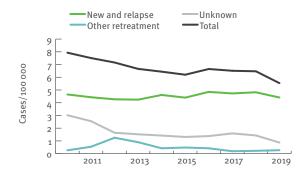
Completeness of DRS data ^a	1	٧o
Completeness of HIV datab		-
Case-linked data-reporting	1	No
Cases with DST results	-	-
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	72	[47-96]
Pulmonary MDR-TB cases notified	38	(2.2%)
of which XDR-TB cases	2	(5.4%)
Notified MDR-TB	46	-
of which XDR-TB cases	-	-
New ^c and relapse cases tested for HIV	-	-
HIV-positive TB cases	-	-
of these on ART	-	-

Treatment outcome monitoring

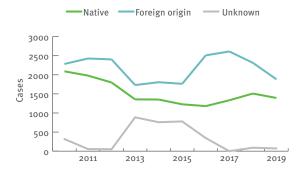
	onal		
pulmonar	y TB cases		
Ye	es	-	_
15	08	()
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
	pulmonar notified Ye	New culture-positive pulmonary TB cases notified in 2018* Yes 1508	pulmonary TB cases notified in 2018 ^a notified

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

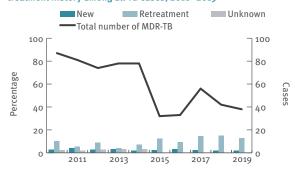
TB notification rates by previous treatment history, 2010-2019



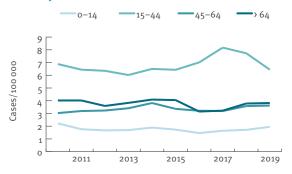
TB cases by geographical origin, 2010-2019



MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010–2019



New and relapse TB cases – notification rates by age group, 2010–2019



TB/HIV coinfection, 2010-2019

Data not reported

Treatment outcome, new culture-confirmed pulmonary TB cases,

Data not reported

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. Cases with unknown previous TB treatment history included in new cases.

Kazakhstan

Total population estimate 2019 by United Nations Statistical Database: 18 551 428

TB cases, 2019

Notifications

NULITICALIUMS			
Total number of cases	12 990		
Notification rate per 100 000	70.0		
New ^a and relapse	12 501		
New ^a and relapse notification rate per 100 000	67.4		
Pulmonary	11 723	(90.2%)	
of which microscopy-positive	-	=	
of which laboratory-confirmed	9 309	(79.4%)	
Laboratory-confirmed TB cases	-	-	
Mean age of new native TB cases	40.9 years		
Mean age of new foreign TB cases	-		
Foreign origin of all TB cases	161	(1.2%)	
New (not previously treated)	8 687	(66.9%)	
Estimates			
Estimated new and relapse cases N,	13 000	[8 200-18 000]	

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

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a		No
Completeness of HIV datab		Yes
Case-linked data-reporting		Yes
Cases with DST results	6 527	(70.1%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	3 100	[3 000-3 200]
Pulmonary MDR-TB cases notified	1569	(24.0%)
of which XDR-TB cases	-	-
Notified MDR-TB	1714	-
of which XDR-TB cases	375	-
TB cases tested for HIV	12 375	(99.0%)
HIV-positive TB cases	666	(5.4%)
of these on ART	637	(95.6%)

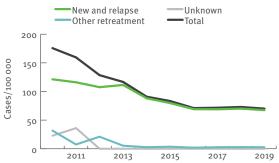
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases \gt 50%, DST done for C+ \gt 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

Geographical coverage	Nat	ional		
Outcome cohort	TB case:	d relapse s notified :018°	cases en second-lir	/MDR-TB rolled into ne treatment 2017 ^b
Case-linked data-reporting	Υ	es		_
Cases notified	7	859	5	338
Success	7 093	(90.3%)	4340	(81.3%)
Died	470	(6.0%)	475	(8.9%)
Failed	213	(2.7%)	224	(4.2%)
Lost to follow up	83	(1.1%)	263	(4.9%)
Not evaluated	0	(0.0%)	36	(0.7%)

^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 previous treatment history, 2010-2019^a



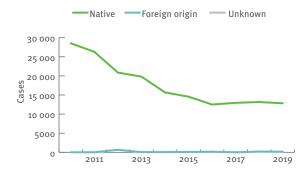
^a Starting from 2013 onward, cases with unknown history are included in new and relapse.

New and relapse TB cases - notification rates by age group, 2010-2019ª

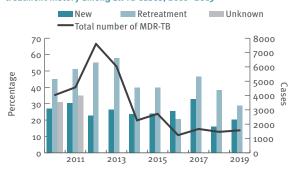


^a Data up to 2012 includes new TB cases only

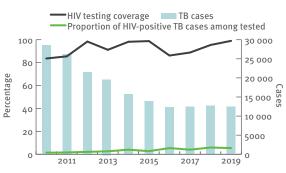
TB cases by geographical origin, 2010-2019



MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010-2019

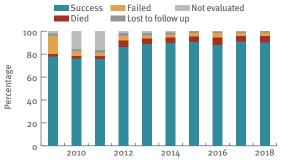


TB/HIV coinfection, 2010-2019a



^a Data up to 2014 include all TB cases.

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



Kyrgyzstan

opulation estimate 2019 by United Nations Statistical Database: 6 415 851

TB cases, 2019

Notifications

Nothications			
Total number of cases	7 039		
Notification rate per 100 000		109.7	
New ^a and relapse		6 138	
New ^a and relapse notification rate per 100 000	95.7		
Pulmonary	5 378	(76.4%)	
of which microscopy-positive	-	-	
of which laboratory-confirmed	3 609	(67.1%)	
Laboratory-confirmed TB cases	-	-	
Mean age of new native TB cases	38.5 years		
Mean age of new foreign TB cases		_	
Foreign origin of all TB cases	0	(0.0%)	
New (not previously treated)	5 096	(72.4%)	
Estimates			
Estimated new and relapse cases N, best [low-high]	7 100	[6 000-8 200]	

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

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a		Yes	
Completeness of HIV datab		Yes	
Case-linked data-reporting		Yes	
Cases with DST results	3 310	(91.7%)	
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	1400	[1 300-1 400]	
Pulmonary MDR-TB cases notified	1097	(33.1%)	
of which XDR-TB cases	93	(10.5%)	
Notified MDR-TB	1209	-	
of which XDR-TB cases	109	-	
TB cases tested for HIV	5 810	(94.7%)	
HIV-positive TB cases	131	(2.3%)	
of these on ART	94	(71.8%)	

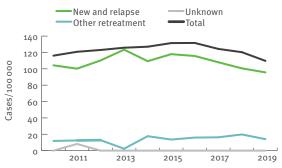
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases \gt 50%, DST done for C+ \gt 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

Geographical coverage	Nat	ional			
Outcome cohort	TB case:	New and relapse TB cases notified in 2018 ^a		/MDR-TB irolled into ne treatment 2017 ^b	
Case-linked data-reporting	Υ	Yes		=	
Cases notified	5	5 333		166	
Success	4 321	(81.0%)	643	(55.1%)	
Died	333	(6.2%)	131	(11.2%)	
Failed	121	(2.3%)	121	(10.4%)	
Lost to follow up	515	(9.7%)	269	(23.1%)	
Not evaluated	43	(0.8%)	2	(0.2%)	

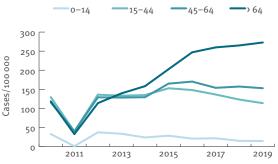
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

TB notification rates by previous treatment history, 2010-2019^a



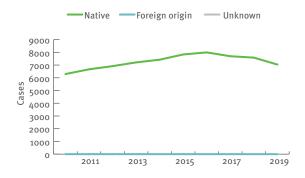
^a Starting from 2013 onward, cases with unknown history are included in new and relapse

New and relapse TB cases – notification rates by age group, $2009-2018^{\rm a}$



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

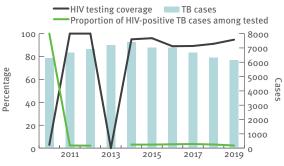
TB cases by geographical origin, 2010-2019



MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010-2019

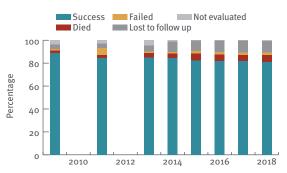


TB/HIV coinfection, 2010-2019a



^a Data up to 2014 include all TB cases.

Treatment outcome, new and relapse TB cases, 2009-2018a



Total population at 25 June 2020 by EUROSTAT: 1919 968

TB cases, 2019

Notifications		
Total number of cases		-
Notification rate per 100 000		-
New ^a and relapse		-
New ^a and relapse 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		-
Mean age of new foreign TB cases		-
Foreign origin of all TB cases	-	-
New (not previously treated)	-	-
Estimates		
Estimated new and relapse cases N,	490	[420-570]

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

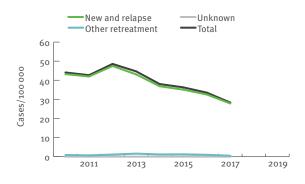
Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a	N	0
Completeness of HIV datab	-	
Case-linked data-reporting	N	0
Cases with DST results	-	-
Estimated RR-TB among notified bacteriologically confirmed 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	-	-
New ^c and relapse cases tested for HIV	-	-
HIV-positive TB cases	-	-
of these on ART	-	-

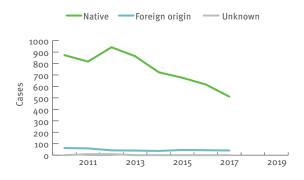
Treatment outcome monitoring

Geographical coverage	Nati	onal		
Outcome cohort	pulmonar	re-positive y TB cases in 2018ª		TB cases in 2017 ^b
Case-linked data-reporting	No			-
Cases notified	(0		6
Success	-	-	-	-
Died	-	-	-	-
Failed	-	-	-	-
Lost to follow up	-			-
Still on treatment	-			-
Not evaluated	-	-	-	-

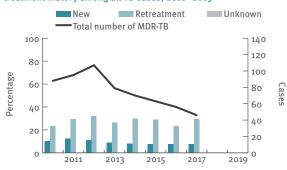
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.



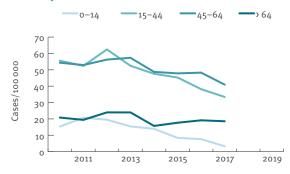
TB cases by geographical origin, 2010-2019



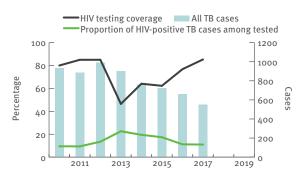
MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010–2019

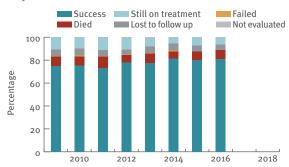


New and relapse TB cases – notification rates by age group, 2010–2019



TB/HIV coinfection, 2010-2019





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. Cases with unknown previous TB treatment history included in new cases.

TB notification rates by previous treatment history, 2010-2019

Liechtenstein

Total population at 25 June 2020 by EUROSTAT: 38 378

TB cases, 2019

Notifications		
Total number of cases		-
Notification rate per 100 000		-
New ^a and relapse		-
New ^a and relapse 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		-
Mean age of new foreign TB cases		-
Foreign origin of all TB cases	-	-
New (not previously treated)	-	-
Estimates		
Estimated new and relapse cases N, best [low-high]	-	-

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

Drug-resistance surveillance and TB/HIV coinfection, 2019

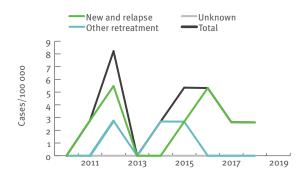
Completeness of DRS data ^a	N	0
Completeness of HIV datab	-	-
Case-linked data-reporting	N	0
Cases with DST results	-	-
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	-	-
Pulmonary MDR-TB cases notified	-	-
of which XDR-TB cases	-	-
Notified MDR-TB	-	-
of which XDR-TB cases	-	-
New ^c and relapse cases tested for HIV	-	-
HIV-positive TB cases	-	-
of these on ART	-	-

Treatment outcome monitoring

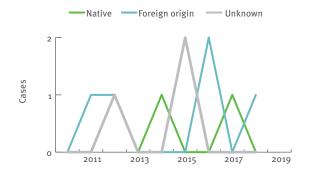
National				
pulmonary	/ TB cases			
Yes		-	-	
1		()	
-	-	-	-	
-	-	-	-	
-	-	-	-	
		-	-	
-	-	-	-	
_	_	_	_	
	New cultur pulmonary notified	New culture-positive pulmonary TB cases notified in 2018 ^a	New culture-positive pulmonary TB cases notified in 2018 ^a All MDR-notified	

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

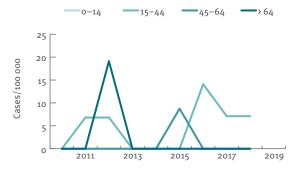
TB notification rates by previous treatment history, 2010-2019



TB cases by geographical origin, 2010-2019



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

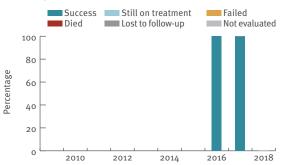


TB/HIV coinfection, 2010-2019

Data not reported

MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010–2019





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. Cases with unknown previous TB treatment history included in new cases.

Total population at 25 June 2020 by EUROSTAT: 2794 184

TB cases, 2019

Notifications

Total number of cases	1 058			
Notification rate per 100 000	37.7			
New ^a and relapse	1006			
New ^a and relapse notification rate per 100 000	36.0			
Pulmonary	982	(92.8%)		
of which microscopy-positive	595	(60.6%)		
of which laboratory-confirmed	905	(92.2%)		
Laboratory-confirmed TB cases	935	(88.4%)		
Mean age of new native TB cases	4	9.3 years		
Mean age of new foreign TB cases	43	3.0 years		
Foreign origin of all TB cases	16	(1.5%)		
New (not previously treated)	875	(82.7%)		
Estimates				
Estimated new and relapse cases N, best [low-high]	1200	[990-1300]		

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

Drug-resistance surveillance and TB/HIV coinfection, 2019

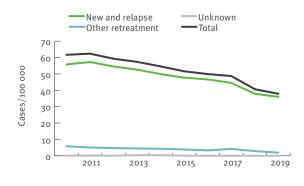
Completeness of DRS data ^a	Yes		
Completeness of HIV datab		Yes	
Case-linked data-reporting		Yes	
Cases with DST results	935	(100.0%)	
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	170	[150-190]	
Pulmonary MDR-TB cases notified	157	(17.3%)	
of which XDR-TB cases	57	(36.3%)	
Notified MDR-TB	159	(17.0%)	
of which XDR-TB cases	58	(36.5%)	
New ^c and relapse cases tested for HIV	968	(96.2%)	
HIV-positive TB cases	25	(2.6%)	
of these on ART	-	-	

Treatment outcome monitoring

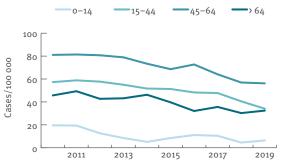
Geographical coverage	Nat	tional		
Outcome cohort	pulmona	re-positive ry TB cases d in 2018ª		l-TB cases d in 2017 ^b
Case-linked data-reporting	Yes			-
Cases notified	751		- 1	249
Success	562	(74.8%)	103	(41.4%)
Died	67	(8.9%)	46	(18.5%)
Failed	12	(1.6%)	18	(7.2%)
Lost to follow up	27	(3.6%)	46	(18.5%)
Still on treatment	82	(10.9%)	35	(14.1%)
Not evaluated	1	(0.1%)	1	(0.4%)

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

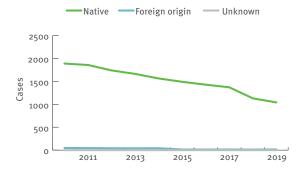
TB notification rates by previous treatment history, 2010-2019



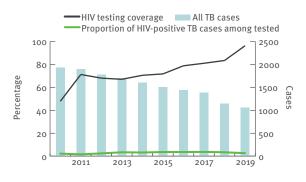
New and relapse TB cases - notification rates by age group, 2010-2019



TB cases by geographical origin, 2010-2019

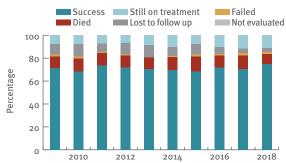


TB/HIV coinfection, 2010-2019



MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010–2019





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. Cases with unknown previous TB treatment history included in new cases.

Total population at 25 June 2020 by EUROSTAT: 613 894

TB cases, 2019

N	n	ti	fi	ca	ti	n	ns	:

Total number of cases	50			
Notification rate per 100 000	8.3			
New ^a and relapse	48			
New ^a and relapse notification rate per 100 000	7.8			
Pulmonary	40	(80.0%)		
of which microscopy-positive	19	(47.5%)		
of which laboratory-confirmed	33	(82.5%)		
Laboratory-confirmed TB cases	40 (80.0%			
Mean age of new native TB cases	31	.3 years		
Mean age of new foreign TB cases	39	.8 years		
Foreign origin of all TB cases	45	(90.0%)		
New (not previously treated)	29 (58.0%)			
Estimates				
Estimated new and relapse cases N, best [low-high]	55	[47-64]		

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

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a	Yes		
Completeness of HIV datab	Yes		
Case-linked data-reporting	Yes		
Cases with DST results	32	(80.0%)	
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	1	[0-1]	
Pulmonary MDR-TB cases notified	1	(3.8%)	
of which XDR-TB cases	0	-	
Notified MDR-TB	1	(3.1%)	
of which XDR-TB cases	0	-	
New ^c and relapse cases tested for HIV	35	(72.9%)	
HIV-positive TB cases	0	(0.0%)	
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. Cases with unknown previous TB treatment history included in new cases.

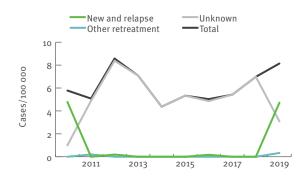
Cases

Treatment outcome monitoring

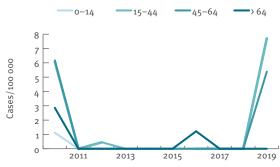
Geographical coverage	Nati	onal		
Outcome cohort	New culture-positive pulmonary TB cases notified in 2018 ^a		All MDR-TB cases notified in 2017 ^b	
Case-linked data-reporting	Yes		-	
Cases notified	0		1	
Success	-	-	-	-
Died	-	-	-	-
Failed	-	-	-	-
Lost to follow up	-	-	-	-
Still on treatment	-	-	-	-
Not evaluated	-	-	-	-

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

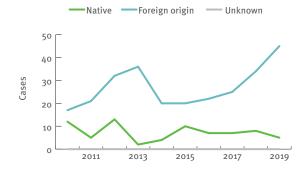
TB notification rates by previous treatment history, 2010-2019



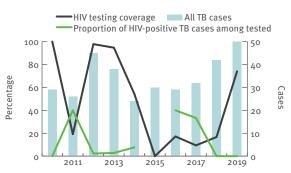
New and relapse TB cases - notification rates by age group, 2010-2019



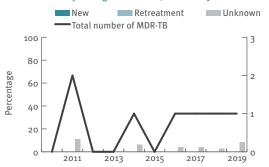
TB cases by geographical origin, 2010-2019

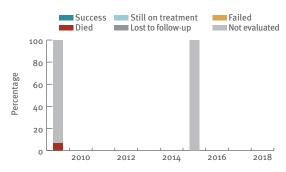


TB/HIV coinfection, 2010-2019



MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010–2019





Total population at 25 June 2020 by EUROSTAT: 493 559

TB cases, 2019

Notifications

Total number of cases	98		
Notification rate per 100 000	20.6		
New ^a and relapse		98	
New ^a and relapse notification rate per 100 000	19.9		
Pulmonary	76	(77.6%)	
of which microscopy-positive	23	(30.3%)	
of which laboratory-confirmed	37	(48.7%)	
Laboratory-confirmed TB cases	48	(49.0%)	
Mean age of new native TB cases	65	.8 years	
Mean age of new foreign TB cases	26	.0 years	
Foreign origin of all TB cases	94	(95.9%)	
New (not previously treated)	98	(100.0%)	
Estimates			
Estimated new and relapse cases N, best [low-high]	60	[51-69]	

Drug-resistance surveillance and TB/HIV coinfection, 2019

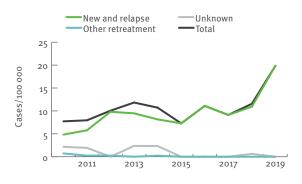
Completeness of DRS data ^a	١	es/es
Completeness of HIV datab		-
Case-linked data-reporting	١	es/es
Cases with DST results	46	(95.8%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	0	[0-6]
Pulmonary MDR-TB cases notified	0	(0.0%)
of which XDR-TB cases	0	-
Notified MDR-TB	0	(0.0%)
of which XDR-TB cases	0	-
New ^c and relapse cases tested for HIV	-	-
HIV-positive TB cases	-	-
of these on ART	-	-

Treatment outcome monitoring

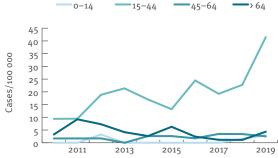
Geographical coverage	Nati	onal		
Outcome cohort	pulmonar	re-positive y TB cases in 2018ª		TB cases in 2017 ^b
Ca se-linked data-reporting	Yes		-	-
Cases notified	27		()
Success	-	-	-	-
Died	-	-	-	-
Failed	-	-	-	-
Lost to follow up	-	-	-	-
Still on treatment	-	-	-	-
Not evaluated		-	-	_

^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 previous treatment history, 2010-2019



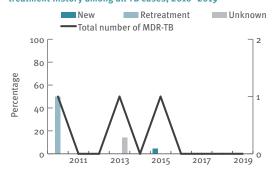
New and relapse TB cases - notification rates by age group, 2010-2019



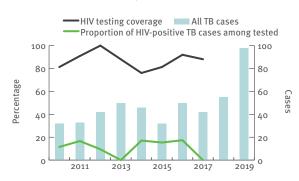
TB cases by geographical origin, 2010-2019

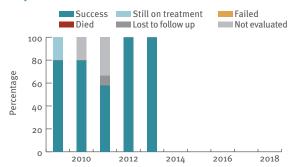


MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010–2019



TB/HIV coinfection, 2010-2019





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. Cases with unknown previous TB treatment history included in new cases.

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

Montenegro

Total population estimate 2019 by United Nations Statistical Database: 627 988

TB cases, 2019

Notifications

Total number of cases		82	
Notification rate per 100 000	13.1		
New ^a and relapse	80		
New ^a and relapse notification rate per 100 000		12.7	
Pulmonary	75	(91.5%)	
of which microscopy-positive	-	-	
of which laboratory-confirmed	71	(94.7%)	
Laboratory-confirmed TB cases	-	-	
Mean age of new native TB cases	43.5 years		
Mean age of new foreign TB cases		-	
Foreign origin of all TB cases	4	(4.9%)	
New (not previously treated)	71	(86.6%)	
Estimates			
Estimated new and relapse cases N, best [low-high]	92	[79-110]	

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

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a		Yes	
Completeness of HIV datab		Yes	
Case-linked data-reporting		Yes	
Cases with DST results	61	(85.9%)	
Estimated RR-TB among notified bacteriologically confirmed 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	-	
of which XDR-TB cases	-	-	
TB cases tested for HIV	76	(95.0%)	
HIV-positive TB cases	0	(0.0%)	
of these on ART	-	-	

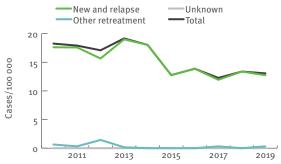
Cases

Treatment outcome monitoring

Geographical coverage	Na	tional		
Outcome cohort	New and relapse TB cases notified in 2018 ^a		All RR/N cases enro second-line in 20	olled into treatment
Case-linked data-reporting	Yes		_	
Cases notified	81		0	
Success	77	(95.1%)	-	-
Died	3	(3.7%)	-	-
Failed	0	(0.0%)	-	-
Lost to follow up	1	(1.2%)	-	-
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 previous treatment history, 2010-2019^a



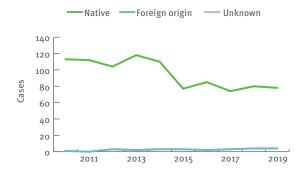
^a Starting from 2013 onward, cases with unknown history are included in new and relapse.

New and relapse TB cases - notification rates by age group, 2010-2019ª

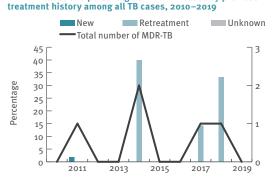


^a Data up to 2012 includes new TB cases only.

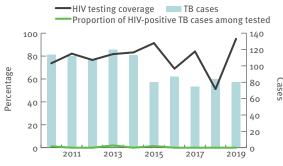
TB cases by geographical origin, 2010-2019



MDR-TB cases and percentage of MDR-TB cases by previous

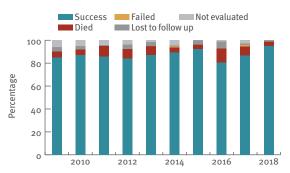


TB/HIV coinfection, 2010-2019a



^a Data up to 2014 include all TB cases.

Treatment outcome, new and relapse TB cases, 2009-2018a



 $[^]a$ 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.

Netherlands

Total population at 25 June 2020 by EUROSTAT: 17 282 163

TB cases, 2019

Notifications

Total number of cases	759		
Notification rate per 100 000		4.4	
New ^a and relapse		746	
New ^a and relapse notification rate per 100 000		4.3	
Pulmonary	432	(56.9%)	
of which microscopy-positive	203	(47.0%)	
of which laboratory-confirmed	333	(77.1%)	
Laboratory-confirmed TB cases	507	(66.8%)	
Mean age of new native TB cases	42	2.8 years	
Mean age of new foreign TB cases	39	.8 years	
Foreign origin of all TB cases	567	(74.7%)	
New (not previously treated)	728	(95.9%)	
Estimates			
Estimated new and relapse cases N. best [low-high]	860	[730-990]	

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

Drug-resistance surveillance and TB/HIV coinfection. 2019

Completeness of DRS data ^a		Yes	
Completeness of HIV datab	Yes		
Case-linked data-reporting		Yes	
Cases with DST results	451	(89.0%)	
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	9	[2-15]	
Pulmonary MDR-TB cases notified	6	(2.0%)	
of which XDR-TB cases	1	(16.7%)	
Notified MDR-TB	7	(1.6%)	
of which XDR-TB cases	1	(14.3%)	
New ^c and relapse cases tested for HIV	566	(75.9%)	
HIV-positive TB cases	20	(3.5%)	
of these on ART	11	(55.0%)	

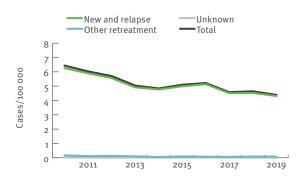
^{*} National coverage 100% or culturing > 90%. C+/all TB cases > 50%. DST done for C+ > 75%. EQA > 95%. * More than 50% of TB cases with reported HIV status. * Cases with unknown previous TB treatment history included in new cases.

Treatment outcome monitoring

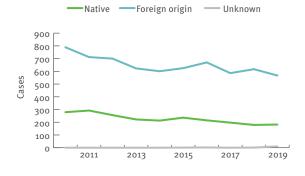
Geographical coverage	Nat	tional		
Outcome cohort	New culture-positive pulmonary TB cases notified in 2018 ^a			R-TB cases ed in 2017 ^b
Case-linked data-reporting	Yes			-
Cases notified	3	362		9
Success	300	(82.9%)	6	(66.7%)
Died	15	(4.1%)	0	(0.0%)
Failed	0	(0.0%)	0	(0.0%)
Lost to follow up	8	(2.2%)	1	(11.1%)
Still on treatment	9	(2.5%)	1	(11.1%)
Not evaluated	30	(8.3%)	1	(11.1%)

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

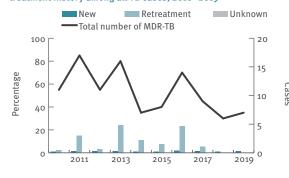
TB notification rates by previous treatment history, 2010-2019



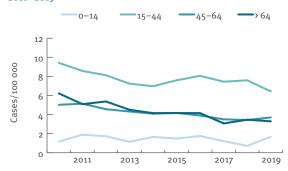
TB cases by geographical origin, 2010–2019



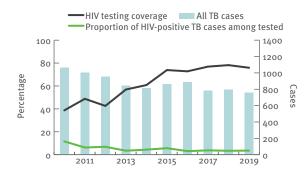
MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010–2019

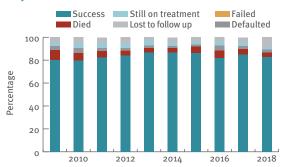


New and relapse TB cases – notification rates by age group, 2010–2019



TB/HIV coinfection, 2010-2019





North Macedonia

Total population estimate 2019 by United Nations Statistical Database: 2 083 458

TB cases, 2019

B.E	_	4.2	£:	ca	42	

Total number of cases 199			
Notification rate per 100 000		9.6	
New ^a and relapse		199	
New ^a and relapse notification rate per 100 000	9.6		
Pulmonary	162	(81.4%)	
of which microscopy-positive	-	=	
of which laboratory-confirmed	140	(86.4%)	
Laboratory-confirmed TB cases	-	-	
Mean age of new native TB cases	45.2 years		
Mean age of new foreign TB cases		-	
Foreign origin of all TB cases	2	(1.0%)	
New (not previously treated)	180	(90.5%)	
Estimates			
Estimated new and relapse cases N, best [low-high]	250	[190-310]	

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

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a		Yes	
Completeness of HIV datab	Yes		
Case-linked data-reporting	Yes		
Cases with DST results	120	(85.7%)	
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	1	[0-4]	
Pulmonary MDR-TB cases notified	1	(0.8%)	
of which XDR-TB cases	0	(0.0%)	
Notified MDR-TB	1	-	
of which XDR-TB cases	0	-	
TB cases tested for HIV	152	(76.4%)	
HIV-positive TB cases	1	(0.7%)	
of these on ART	1	(100.0%)	

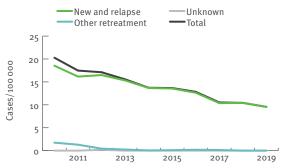
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases \gt 50%, DST done for C+ \gt 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

Geographical coverage	Nat	tional		
Outcome cohort	TB case	d relapse s notified 2018ª	All RR/MDR-TB cases enrolled into second-line treatmen in 2017 ^b	
Case-linked data-reporting	Yes		-	
Cases notified		214		1
Success	187	(87.4%)	0	(0.0%)
Died	14	(6.5%)	1	(100.0%)
Failed	1	(0.5%)	0	(0.0%)
Lost to follow up	12	(5.6%)	0	(0.0%)
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 previous treatment history, 2010-2019^a



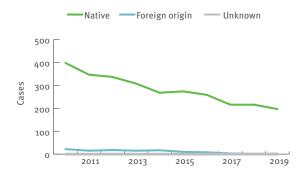
^a Starting from 2013 onward, cases with unknown history are included in new and relapse.

New and relapse TB cases – notification rates by age group, $2010-2019^{\rm a}$



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

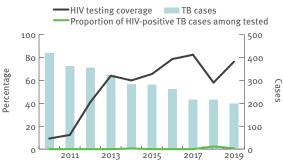
TB cases by geographical origin, 2010-2019



MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010–2019

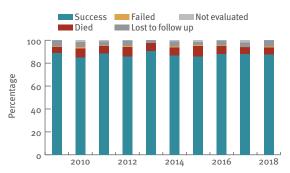


TB/HIV coinfection, 2010-2019a



^a Data up to 2014 include all TB cases

Treatment outcome, new and relapse TB cases, 2009-2018a



Norway

Total population at 25 June 2020 by EUROSTAT: 5 328 212

TB cases, 2019

Notifications

Total number of cases	165		
Notification rate per 100 000	3.1		
New ^a and relapse	153		
New ^a and relapse notification rate per 100 000	2.9		
Pulmonary	109	(66.1%)	
of which microscopy-positive	46	(42.2%)	
of which laboratory-confirmed	94	(86.2%)	
Laboratory-confirmed TB cases	137	(83.0%)	
Mean age of new native TB cases	60.8 years		
Mean age of new foreign TB cases	37	.2 years	
Foreign origin of all TB cases	146	(88.5%)	
New (not previously treated)	153	(92.7%)	
Estimates			
Estimated new and relapse cases N, best [low-high]	180	[150-200]	

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

Drug-resistance surveillance and TB/HIV coinfection, 2019

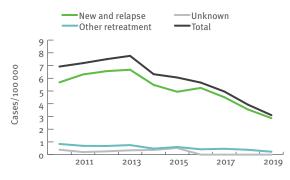
Completeness of DRS data ^a	١	es/es
Completeness of HIV datab	١	es es
Case-linked data-reporting	١	es/es
Cases with DST results	130	(94.9%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	1	[0-4]
Pulmonary MDR-TB cases notified	2	(2.3%)
of which XDR-TB cases	0	(0.0%)
Notified MDR-TB	2	(1.5%)
of which XDR-TB cases	0	(0.0%)
New ^c and relapse cases tested for HIV	119	(77.8%)
HIV-positive TB cases	4	(3.4%)
of these on ART	-	-

Treatment outcome monitoring

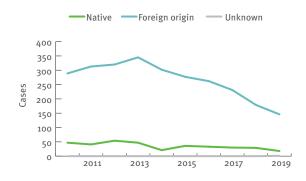
Geographical coverage	Na	tional		
Outcome cohort	pulmona	ure-positive ry TB cases d in 2018°		R-TB cases ed in 2017 ^b
Case-linked data-reporting	Yes		-	
Cases notified		99		9
Success	76	(76.8%)	8	(88.9%)
Died	5	(5.1%)	0	(0.0%)
Failed	2	(2.0%)	0	(0.0%)
Lost to follow up	0	(0.0%)	1	(11.1%)
Still on treatment	2	(2.0%)	0	(0.0%)
Not evaluated	14	(14.1%)	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.

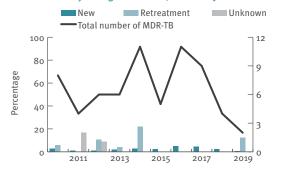
TB notification rates by previous treatment history, 2010-2019



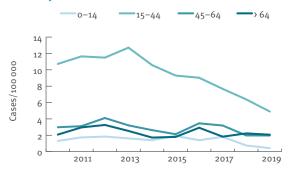
TB cases by geographical origin, 2010-2019



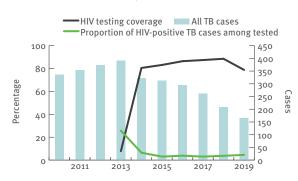
MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010–2019

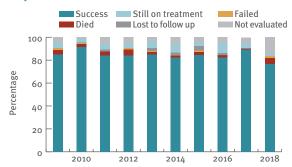


New and relapse TB cases – notification rates by age group, 2010–2019



TB/HIV coinfection, 2010-2019





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. Cases with unknown previous TB treatment history included in new cases.

Total population at 25 June 2020 by EUROSTAT: 37 972 812

TB cases, 2019

Nι	nti	ti	ca	ti	Off	15

Hotilications			
Total number of cases	5 321		
Notification rate per 100 000	14.0		
New ^a and relapse	4 983		
New ^a and relapse notification rate per 100 000	13.1		
Pulmonary	5 075	(95.4%)	
of which microscopy-positive	2 577	(50.8%)	
of which laboratory-confirmed	3 926	(77.4%)	
Laboratory-confirmed TB cases	4 054	(76.2%)	
Mean age of new native TB cases	53.9 years		
Mean age of new foreign TB cases	3	6.2 years	
Foreign origin of all TB cases	121	(2.3%)	
New (not previously treated)	4 717	(88.6%)	
Estimates			
Estimated new and relapse cases N, best [low-high]	5 700	[4 900-6 600]	

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

Drug-resistance surveillance and TB/HIV coinfection, 2019

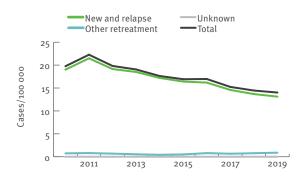
Completeness of DRS data ^a	Υ	es
Completeness of HIV datab		-
Case-linked data-reporting	Υ	es
Cases with DST results	3 690	(91.0%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	49	[34-63]
Pulmonary MDR-TB cases notified	40	(1.1%)
of which XDR-TB cases	4	(12.9%)
Notified MDR-TB	41	(1.1%)
of which XDR-TB cases	5	(15.6%)
New ^c and relapse cases tested for HIV	-	-
HIV-positive TB cases	-	-
of these on ART	-	-

Treatment outcome monitoring

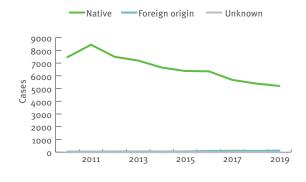
Geographical coverage	Nati	onal		
Outcome cohort	pulmonar	re-positive y TB cases in 2018ª	All MDR- notified	
Case-linked data-reporting	Yes		-	-
Cases notified	3	3 451		4
Success	-	-	-	-
Died	-	-	-	-
Failed	-	-	-	-
Lost to follow up	-	-	-	-
Still on treatment	-	-	-	-
Not evaluated	-	-	-	-

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

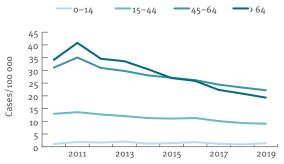
TB notification rates by previous treatment history, 2010-2019



TB cases by geographical origin, 2010-2019



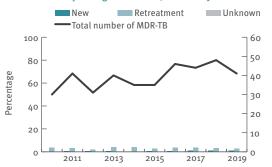
New and relapse TB cases - notification rates by age group, 2010-2019

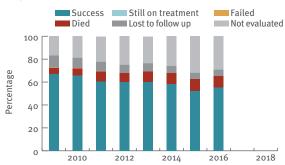


TB/HIV coinfection, 2010-2019

Data not reported

MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010–2019





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. Cases with unknown previous TB treatment history included in new cases.

Portugal

Total population at 25 June 2020 by EUROSTAT: 10 276 617

TB cases, 2019

Notifications

NULITICALIUMS			
Total number of cases	1 771		
Notification rate per 100 000	17.2		
New ^a and relapse	1 720		
New ^a and relapse notification rate per 100 000	16.7		
Pulmonary	1 311	(74.0%)	
of which microscopy-positive	590	(45.0%)	
of which laboratory-confirmed	863	(65.8%)	
Laboratory-confirmed TB cases	998	(56.4%)	
Mean age of new native TB cases	51.8 years		
Mean age of new foreign TB cases	37.7 years		
Foreign origin of all TB cases	419	(23.7%)	
New (not previously treated)	1644	(92.8%)	
Estimates			
Estimated new and relapse cases N, hest [low-high]	2 000	[1700-2300]	

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

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a	Υ	'es
Completeness of HIV datab	Yes	
Case-linked data-reporting	Υ	'es
Cases with DST results	572	(57.3%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	16	[9-23]
Pulmonary MDR-TB cases notified	5	(1.0%)
of which XDR-TB cases	0	(0.0%)
Notified MDR-TB	5	(0.9%)
of which XDR-TB cases	0	(0.0%)
New ^c and relapse cases tested for HIV	1166	(67.8%)
HIV-positive TB cases	123	(10.5%)
of these on ART	-	-

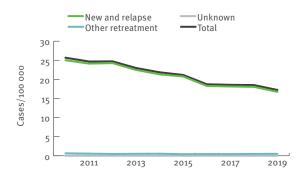
a National coverage 100% or culturing ≥ 90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA ≥ 95%. b More than 50% of TB cases with reported HIV status. Cases with unknown previous TB treatment history included in new cases.

Treatment outcome monitoring

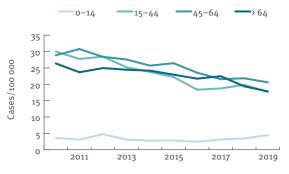
Geographical coverage	Nat	tional		
Outcome cohort	pulmona	re-positive ry TB cases d in 2018ª		R-TB cases ed in 2017 ^b
Case-linked data-reporting	Yes			-
Cases notified	1 022			10
Success	762	(74.6%)	7	(70.0%)
Died	63	(6.2%)	0	(0.0%)
Failed	1	(0.1%)	0	(0.0%)
Lost to follow up	24	(2.3%)	0	(0.0%)
Still on treatment	152	(14.9%)	0	(0.0%)
Not evaluated	20	(2.0%)	3	(30.0%)

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

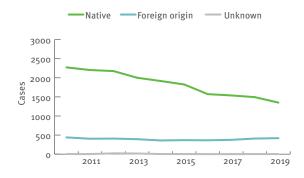
TB notification rates by previous treatment history, 2010-2019



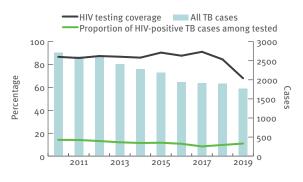
New and relapse TB cases - notification rates by age group, 2010-2019



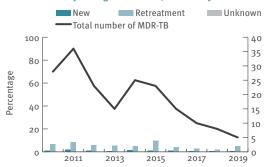
TB cases by geographical origin, 2010-2019

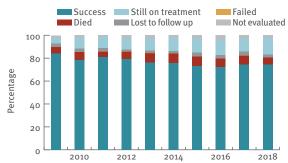


TB/HIV coinfection, 2010-2019



MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010-2019





Republic of Moldova

TB cases, 2019

Notifications

Total number of cases	3 255		
Notification rate per 100 000	80.5		
New ^a and relapse	2 809		
New ^a and relapse notification rate per 100 000	69.5		
Pulmonary	2 967	(91.2%)	
of which microscopy-positive	-	-	
of which laboratory-confirmed	2 180	(73.5%)	
Laboratory-confirmed TB cases	-	-	
Mean age of new native TB cases	42.7 years		
Mean age of new foreign TB cases		_	
Foreign origin of all TB cases	19	(0.6%)	
New (not previously treated)	2 239	(68.8%)	
Estimates			
Estimated new and relapse cases N,	3 200	[2 800-3 700]	

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

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a		No	
Completeness of HIV datab		Yes	
Case-linked data-reporting		Yes	
Cases with DST results	1539	(70.6%)	
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	930	[880-970]	
Pulmonary MDR-TB cases notified	441	(28.7%)	
of which XDR-TB cases	49	(11.1%)	
Notified MDR-TB	441	-	
of which XDR-TB cases	49	-	
TB cases tested for HIV	2 7 9 2	(99.4%)	
HIV-positive TB cases	295	(10.6%)	
of these on ART	260	(88.1%)	

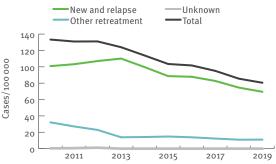
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases \gt 50%, DST done for C+ \gt 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

Geographical coverage	Nat	ional		
Outcome cohort	TB case:	d relapse s notified 1018°	cases er second-lii	/MDR-TB nrolled into ne treatment 2017 ^b
Case-linked data-reporting	Υ	es		-
Cases notified	2	312	9	962
Success	1 954	(84.5%)	537	(55.8%)
Died	183	(7.9%)	117	(12.2%)
Failed	56	(2.4%)	124	(12.9%)
Lost to follow up	62	(2.7%)	183	(19.0%)
Not evaluated	57	(2.5%)	1	(0.1%)

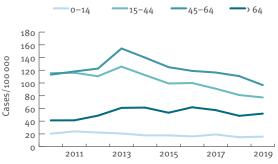
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

TB notification rates by previous treatment history, 2010-2019^a



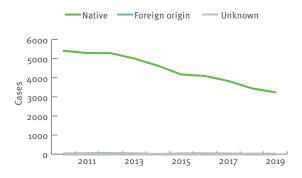
^a Starting from 2013 onward, cases with unknown history are included in new and relapse

New and relapse TB cases – notification rates by age group, $2010-2019^{\rm a}$

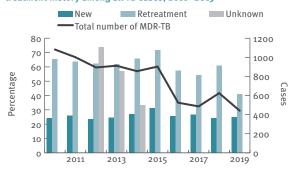


^a Data up to 2012 includes new TB cases only

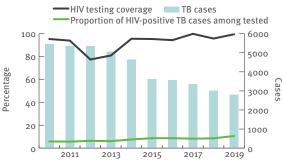
TB cases by geographical origin, 2010-2019



MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010-2019



TB/HIV coinfection, 2010-2019a



^a Data up to 2014 include all TB cases.

Treatment outcome, new and relapse TB cases, 2009-2018a



Total population at 25 June 2020 by EUROSTAT: 19 414 458

TB cases, 2019

Notifications

Total number of cases	11 633		
Notification rate per 100 000	59.6		
New ^a and relapse		11 083	
New ^a and relapse notification rate per 100 000	57.1		
Pulmonary	10 067	(86.5%)	
of which microscopy-positive	6 534	(64.9%)	
of which laboratory-confirmed	8 161	(81.1%)	
Laboratory-confirmed TB cases	8 499	(73.1%)	
Mean age of new native TB cases	45.9 years		
Mean age of new foreign TB cases		32.5 years	
Foreign origin of all TB cases	42	(0.4%)	
New (not previously treated)	9 342	(80.3%)	
Estimates			
Estimated new and relapse 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, 2019

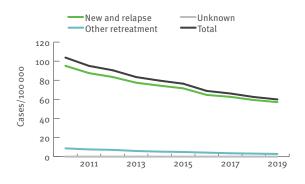
Completeness of DRS data ^a	,	Yes
Completeness of HIV datab	,	Yes
Case-linked data-reporting	,	Yes
Cases with DST results	7 694	(90.5%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	430	[390-480]
Pulmonary MDR-TB cases notified	302	(4.1%)
of which XDR-TB cases	38	(30.9%)
Notified MDR-TB	304	(4.0%)
of which XDR-TB cases	38	(30.9%)
New ^c and relapse cases tested for HIV	9 574	(86.4%)
HIV-positive TB cases	179	(1.9%)
of these on ART	161	(89.9%)

Treatment outcome monitoring

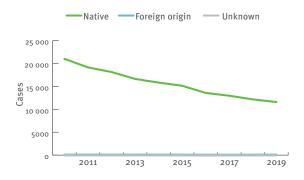
Geographical coverage	Nat	ional		
Outcome cohort	New culture-positive pulmonary TB cases notified in 2018 ^a			R-TB cases d in 2017 ^b
Case-linked data-reporting	Y	'es		-
Cases notified	6	399		372
Success	5 297	(82.8%)	134	(36.0%)
Died	571	(8.9%)	76	(20.4%)
Failed	100	(1.6%)	85	(22.8%)
Lost to follow up	312	(4.9%)	48	(12.9%)
Still on treatment	117	(1.8%)	29	(7.8%)
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 previous treatment history, 2010-2019



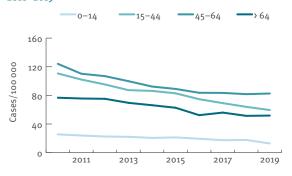
TB cases by geographical origin, 2010-2019



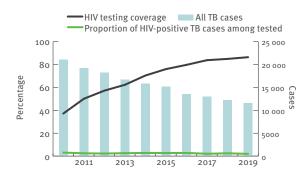
MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010-2019

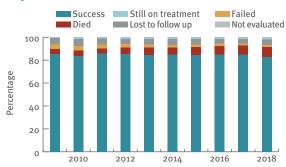


New and relapse TB cases – notification rates by age group, 2010–2019



TB/HIV coinfection, 2010-2019





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. Cases with unknown previous TB treatment history included in new cases.

Russian Federation

TB cases, 2019

Matifications

Notifications			
Total number of cases	103 979		
Notification rate per 100 000		71.3	
New ^a and relapse	73 328		
New ^a and relapse notification rate per 100 000	50.3		
Pulmonary	86 181	(82.9%)	
of which microscopy-positive	-	=	
of which laboratory-confirmed	54 751	(63.5%)	
Laboratory-confirmed TB cases	-	-	
Mean age of new native TB cases		41.4 years	
Mean age of new foreign TB cases		-	
Foreign origin of all TB cases	2 070	(2.0%)	
New (not previously treated)	60 531	(58.2%)	
Estimates			
Estimated new and relapse cases N, best [low-high]	73 000	[47 000-104 000]	

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

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a		Yes	
Completeness of HIV datab		Yes	
Case-linked data-reporting		Yes	
Cases with DST results	50 476	(92.2%)	
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	28 000	[28 000- 29 000]	
Pulmonary MDR-TB cases notified	24 443	(48.4%)	
of which XDR-TB cases	5 559	(23.5%)	
Notified MDR-TB	25 153	-	
of which XDR-TB cases	5 699	-	
TB cases tested for HIV	70 610	(96.3%)	
HIV-positive TB cases	16 453	(23.3%)	
of these on ART	11 761	(71.5%)	

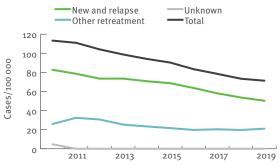
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases $^{>}$ 50%, DST done for C+ $^{>}$ 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

Geographical coverage	Nat	ional		
Outcome cohort	New and relapse TB cases notified in 2018 ^a		cases en second-lin	MDR-TB rolled into e treatment 017 ^b
Case-linked data-reporting	Υ	es		-
Cases notified	59	850	22	901
Success	41 154	(68.8%)	12 629	(55.1%)
Died	6 351	(10.6%)	3 488	(15.2%)
Failed	4 052	(6.8%)	2 692	(11.8%)
Lost to follow up	3 408	(5.7%)	2 165	(9.5%)
Not evaluated	4 885	(8.2%)	1 927	(8.4%)

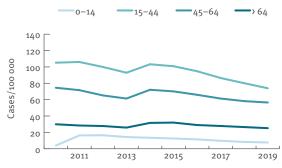
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

TB notification rates by previous treatment history, 2010-2019^a



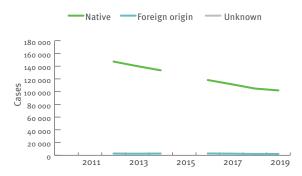
^a Starting from 2013 onward, cases with unknown history are included in new and relapse.

New and relapse TB cases - notification rates by age group, 2010-2019ª

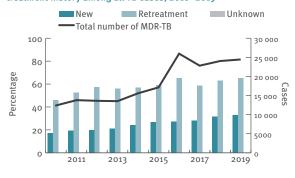


^a Data up to 2012 includes new TB cases only

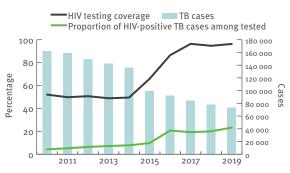
TB cases by geographical origin, 2010-2019



MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010-2019

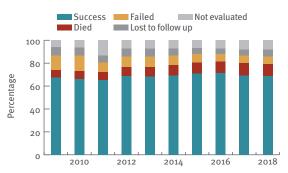


TB/HIV coinfection, 2010-2019a



^a Data up to 2014 include all TB cases.

Treatment outcome, new and relapse TB cases, 2009-2018a



Total population estimate 2019 by United Nations Statistical Database: 8 772 228

TB cases, 2019

Notifications

Total number of cases	1 179		
Notification rate per 100 000	13.4		
New ^a and relapse		1106	
New ^a and relapse notification rate per 100 000	12.6		
Pulmonary	637	(54.0%)	
of which microscopy-positive	-	-	
of which laboratory-confirmed	577	(90.6%)	
Laboratory-confirmed TB cases	-	-	
Mean age of new native TB cases	46.9 years		
Mean age of new foreign TB cases		-	
Foreign origin of all TB cases	5	(0.4%)	
New (not previously treated)	1 017	(86.3%)	
Estimates			
Estimated new and relapse cases N, best [low-high]	1300	[1100-1500]	

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

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a	Yes	
Completeness of HIV datab	No	
Case-linked data-reporting	Yes	
Cases with DST results	485 (84.1%	
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	7	[3-11]
Pulmonary MDR-TB cases notified	2	(0.8%)
of which XDR-TB cases	0	(0.0%)
Notified MDR-TB	2	-
of which XDR-TB cases	0	-
TB cases tested for HIV	39	(3.5%)
HIV-positive TB cases	3	(7.7%)
of these on ART	3	(100.0%)

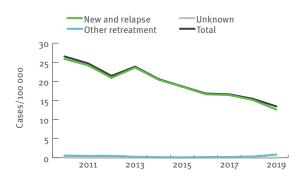
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases \gt 50%, DST done for C+ \gt 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

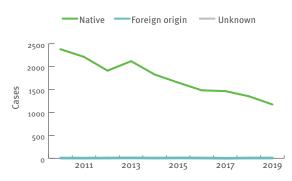
Geographical coverage	Nat	ional		
Outcome cohort	TB case:	d relapse s notified 1018°	cases e second-li	MDR-TB nrolled into ne treatment 2017 ^b
Case-linked data-reporting	Υ	Yes		=
Cases notified	1	265		10
Success	1 032	(81.6%)	7	(70.0%)
Died	65	(5.1%)	2	(20.0%)
Failed	5	(0.4%)	1	(10.0%)
Lost to follow up	84	(6.6%)	0	(0.0%)
Not evaluated	79	(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.

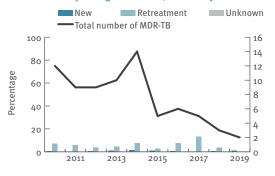
TB notification rates by previous treatment history, 2010-2019



TB cases by geographical origin, 2010-2019



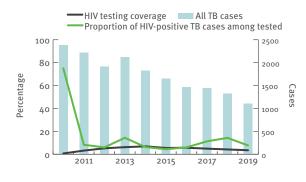
MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010–2019



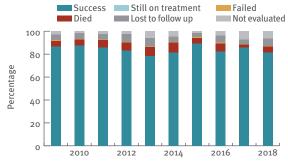
New and relapse TB cases - notification rates by age group, 2010-2019



TB/HIV coinfection, 2010-2019



Treatment outcome, new and relapse TB cases, 2009-2018a



^a 2009–2011 cohorts include new cases only.

Slovakia

Total population at 25 June 2020 by EUROSTAT: 5 450 421

TB cases, 2019

Notifications

Total number of cases	214		
Notification rate per 100 000	3.9		
New ^a and relapse	214		
New ^a and relapse notification rate per 100 000	3.9		
Pulmonary	179	(83.6%)	
of which microscopy-positive	53	(29.6%)	
of which laboratory-confirmed	107	(59.8%)	
Laboratory-confirmed TB cases	113	(52.8%)	
Mean age of new native TB cases	45.4 years		
Mean age of new foreign TB cases	25	.o years	
Foreign origin of all TB cases	7	(3.3%)	
New (not previously treated)	170	(79.4%)	
Estimates			
Estimated new and relapse cases N, best [low-high]	250	[210-280]	

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

Drug-resistance surveillance and TB/HIV coinfection, 2019

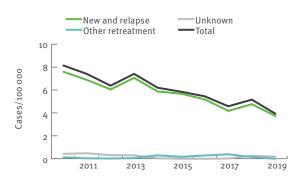
Completeness of DRS data ^a	١	/es
Completeness of HIV datab	١	/es
Case-linked data-reporting	١	/es
Cases with DST results	113	(100.0%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	6	[1-10]
Pulmonary MDR-TB cases notified	5	(4.7%)
of which XDR-TB cases	0	(0.0%)
Notified MDR-TB	5	(4.4%)
of which XDR-TB cases	0	(0.0%)
New ^c and relapse cases tested for HIV	148	(69.2%)
HIV-positive TB cases	4	(2.7%)
of these on ART	3	(75.0%)

Treatment outcome monitoring

Geographical coverage	Nat	tional		
Outcome cohort	New culture-positive pulmonary TB cases notified in 2018 ^a Yes			R-TB cases ed in 2017 ^b
Case-linked data-reporting			=	
Cases notified	116		6	
Success	100	(86.2%)	1	(16.7%)
Died	14	(12.1%)	4	(66.7%)
Failed	0	(0.0%)	0	(0.0%)
Lost to follow up	0	(0.0%)	0	(0.0%)
Still on treatment	0	(0.0%)	1	(16.7%)
Not evaluated	2	(1.7%)	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.

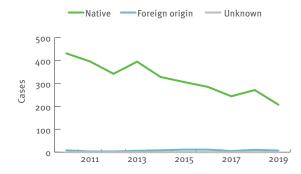
TB notification rates by previous treatment history, 2010-2019



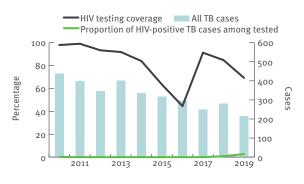
New and relapse TB cases - notification rates by age group, 2010-2019



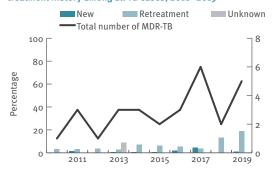
TB cases by geographical origin, 2010-2019

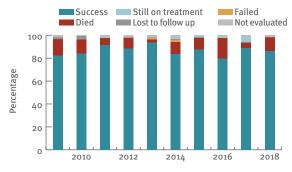


TB/HIV coinfection, 2010-2019



MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010-2019





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. Cases with unknown previous TB treatment history included in new cases.

Slovenia

Total population at 25 June 2020 by EUROSTAT: 2 080 908

TB cases, 2019

Notifications

Total number of cases	101		
Notification rate per 100 000		4.9	
New ^a and relapse		98	
New ^a and relapse notification rate per 100 000	4.7		
Pulmonary	89	(88.1%)	
of which microscopy-positive	48	(53.9%)	
of which laboratory-confirmed	82	(92.1%)	
Laboratory-confirmed TB cases	93	(92.1%)	
Mean age of new native TB cases	67.0 years		
Mean age of new foreign TB cases	45	.9 years	
Foreign origin of all TB cases	36	(35.6%)	
New (not previously treated)	96	(95.0%)	
Estimates			
Estimated new and relapse cases N, best [low-high]	110	[96-130]	

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

Drug-resistance surveillance and TB/HIV coinfection, 2019

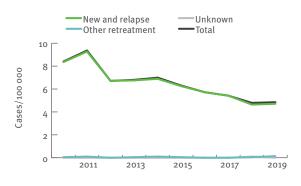
Completeness of DRS data ^a		Yes
Completeness of HIV datab		Yes
Case-linked data-reporting	Yes	
Cases with DST results	93	(100.0%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	0	[0-2]
Pulmonary MDR-TB cases notified	0	(0.0%)
of which XDR-TB cases	0	-
Notified MDR-TB	0	(0.0%)
of which XDR-TB cases	0	-
New ^c and relapse cases tested for HIV	70	(71.4%)
HIV-positive TB cases	1	(1.4%)
of these on ART	1	(100.0%)

Treatment outcome monitoring

Geographical coverage	Na	tional			
Outcome cohort	New culture-positive pulmonary TB cases notified in 2018 ^a		ome cohort pulmonary TB cases notified in age		
Case-linked data-reporting	,	Yes		-	
Cases notified	70		1		
Success	56	(80.0%)	0	(0.0%)	
Died	8	(11.4%)	0	(0.0%)	
Failed	0	(0.0%)	0	(0.0%)	
Lost to follow up	3	(4.3%)	0	(0.0%)	
Still on treatment	2	(2.9%)	0	(0.0%)	
Not evaluated	1	(1.4%)	1	(100.0%)	

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

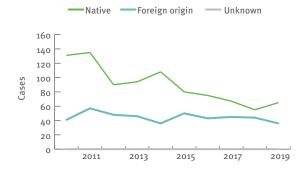
TB notification rates by previous treatment history, 2010-2019



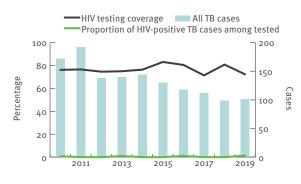
New and relapse TB cases - notification rates by age group, 2010-2019



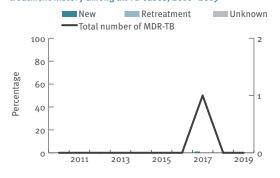
TB cases by geographical origin, 2010-2019

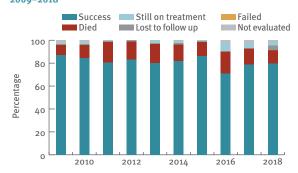


TB/HIV coinfection, 2010-2019



MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010-2019





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. Cases with unknown previous TB treatment history included in new cases.

Total population at 25 June 2020 by EUROSTAT: 46 937 060

TB cases, 2019

Notifications

Total number of cases	4 150		
Notification rate per 100 000	8.9		
New ^a and relapse		4 071	
New ^a and relapse notification rate per 100 000	8.7		
Pulmonary	3 009	(72.5%)	
of which microscopy-positive	1362	(45.3%)	
of which laboratory-confirmed	2 236	(74.3%)	
Laboratory-confirmed TB cases	2 797 (67.4%)		
Mean age of new native TB cases	50.0 years		
Mean age of new foreign TB cases	37.2 years		
Foreign origin of all TB cases	1539	(37.1%)	
New (not previously treated)	2 517	(60.7%)	
Estimates			
Estimated new and relapse cases N, best [low-high]	4 300	[3 700-5 000]	

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

Drug-resistance surveillance and TB/HIV coinfection, 2019

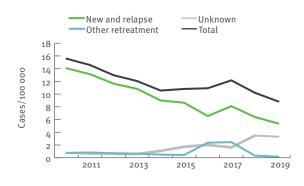
Completeness of DRS data ^a	,	/es
Completeness of HIV datab		-
Case-linked data-reporting	1	/es
Cases with DST results	811	(29.0%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	110	[78-150]
Pulmonary MDR-TB cases notified	8	(1.0%)
of which XDR-TB cases	0	(0.0%)
Notified MDR-TB	9	(1.1%)
of which XDR-TB cases	0	(0.0%)
New ^c and relapse cases tested for HIV	-	-
HIV-positive TB cases	-	-
of these on ART	-	-

Treatment outcome monitoring

Geographical coverage	Nat	ional		
Outcome cohort	New culture-positive pulmonary TB cases notified in 2018 ^a Yes		All MDR- notified	
Case-linked data-reporting			-	
Cases notified	1700		2	9
Success	1 015	(59.7%)	-	-
Died	123	(7.2%)	-	-
Failed	1	(0.1%)	-	-
Lost to follow up	6	(0.4%)	-	-
Still on treatment	58	(3.4%)	-	-
Not evaluated	497	(29.2%)	-	-

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

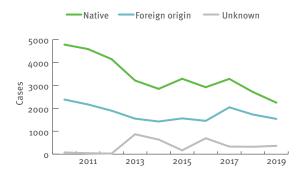
TB notification rates by previous treatment history, 2010-2019



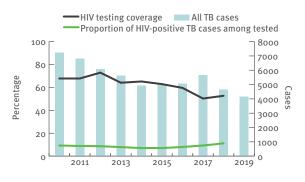
New and relapse TB cases - notification rates by age group, 2010-2019



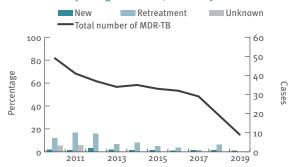
TB cases by geographical origin, 2010-2019



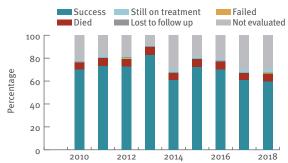
TB/HIV coinfection, 2010-2019



MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010-2019



 $^{\rm a}$ In 2013, 2015 and 2016, only pulmonary MDR-TB cases were reported.



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. Cases with unknown previous TB treatment history included in new cases.

Sweden

Total population at 25 June 2020 by EUROSTAT: 10 230 185

TB cases, 2019

Notifications

Total number of cases	479		
Notification rate per 100 000		4.7	
New ^a and relapse		478	
New ^a and relapse notification rate per 100 000		4.7	
Pulmonary	301	(62.8%)	
of which microscopy-positive	102	(33.9%)	
of which laboratory-confirmed	265	(88.0%)	
Laboratory-confirmed TB cases	399	(83.3%)	
Mean age of new native TB cases	48.7 years		
Mean age of new foreign TB cases	35	.7 years	
Foreign origin of all TB cases	415	(86.6%)	
New (not previously treated)	418	(87.3%)	
Estimates			
Estimated new and relapse cases N, best [low-high]	550	[470-640]	

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

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a	١	'es	
Completeness of HIV data ^b		-	
Case-linked data-reporting	Yes		
Cases with DST results	396	(99.2%)	
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	6	[1-12]	
Pulmonary MDR-TB cases notified	4	(1.5%)	
of which XDR-TB cases	0	(0.0%)	
Notified MDR-TB	7	(1.8%)	
of which XDR-TB cases	0	(0.0%)	
New ^c and relapse cases tested for HIV	-	-	
HIV-positive TB cases	-	-	
of these on ART	-	-	

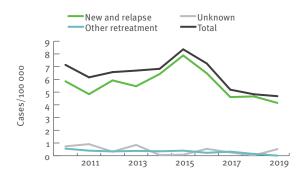
a National coverage 100% or culturing ≥ 90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA ≥ 95%. b More than 50% of TB cases with reported HIV status. Cases with unknown previous TB treatment history included in new cases.

Treatment outcome monitoring

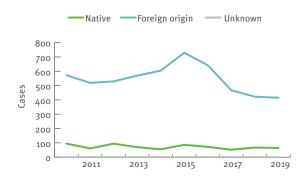
Geographical coverage	Na	tional			
Outcome cohort	New culture-positive pulmonary TB cases notified in 2018 ² All MDR-TB ca		pulmonary TB cases All N		
Case-linked data-reporting	,	Yes		=	
Cases notified	278			11	
Success	212	(76.3%)	9	(81.8%)	
Died	12	(4.3%)	0	(0.0%)	
Failed	3	(1.1%)	0	(0.0%)	
Lost to follow up	3	(1.1%)	0	(0.0%)	
Still on treatment	7	(2.5%)	0	(0.0%)	
Not evaluated	41	(14.7%)	2	(18.2%)	

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

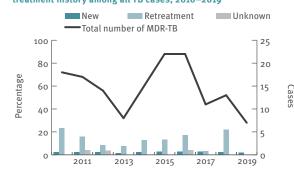
TB notification rates by previous treatment history, 2010-2019



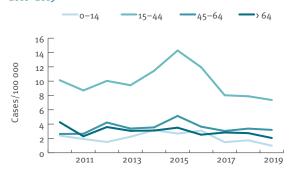
TB cases by geographical origin, 2010-2019



MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010–2019

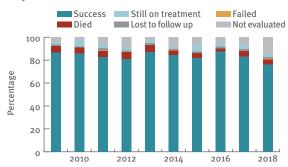


New and relapse TB cases - notification rates by age group, 2010-2019



TB/HIV coinfection, 2010-2019

Data not reported



Switzerland

Total population estimate 2019 by United Nations Statistical Database: 8 591 361

TB cases, 2019

Notifications
Total number of cas
Martifff and the martin mar-

Total number of cases		435	
Notification rate per 100 000	5.1		
New ^a and relapse		402	
New ^a and relapse notification rate per 100 000		4.7	
Pulmonary	340	(78.2%)	
of which microscopy-positive	-	=	
of which laboratory-confirmed	294	(86.5%)	
Laboratory-confirmed TB cases	-	-	
Mean age of new native TB cases	4	0.7 years	
Mean age of new foreign TB cases		-	
Foreign origin of all TB cases	318	(73.1%)	
New (not previously treated)	402	(92.4%)	
Estimates			
Estimated new and relapse cases N, best [low-high]	460	[400-530]	

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

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a	No		
Completeness of HIV datab	No		
Case-linked data-reporting	Yes		
Cases with DST results	216	(73.5%)	
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low–high]	12	[4-19]	
Pulmonary MDR-TB cases notified	7	(3.2%)	
of which XDR-TB cases	0	(0.0%)	
Notified MDR-TB	10	-	
of which XDR-TB cases	0	-	
TB cases tested for HIV	-	(0.0%)	
HIV-positive TB cases	-	-	
of these on ART	-	-	

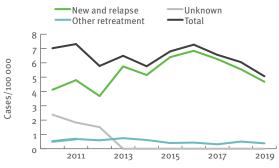
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases $^{\flat}$ 50%, DST done for C+ $^{\flat}$ 775%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

pulmonai	re-positive		
notified	ry TB cases I in 2018ª		R-TB cases d in 2017 ^b
Yes			-
376			12
309	(82.2%)	10	(83.3%)
6	(1.6%)	0	(0.0%)
0	(0.0%)	0	(0.0%)
2	(0.5%)	0	(0.0%)
59	(15.7%)	2	(16.7%)
	6 0 2	6 (1.6%) 0 (0.0%) 2 (0.5%)	6 (1.6%) 0 0 (0.0%) 0 2 (0.5%) 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 previous treatment history, 2010-2019^a



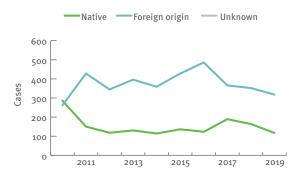
^a Starting from 2013 onward, cases with unknown history are included in new and relapse.

New and relapse TB cases - notification rates by age group, 2010-2019ª

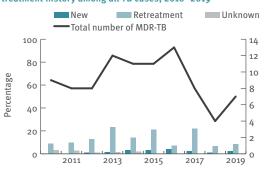


^a Data up to 2012 includes new TB cases only

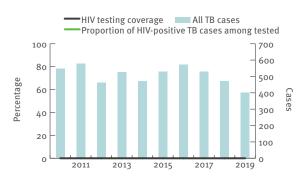
TB cases by geographical origin, 2010-2019



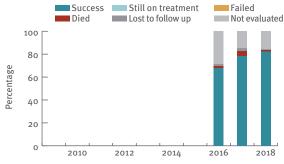
MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010-2019



TB/HIV coinfection, 2010-2019



Treatment outcome, new and relapse TB cases, 2009-2018a



Total population estimate 2019 by United Nations Statistical Database: 9 321 023

TB cases, 2019

N	0	tii	11	C	a	tı	0	ns	
1	Го	tal	n	u	m	b	er	of	C

Total number of cases	5 976		
Notification rate per 100 000	64.1		
New ^a and relapse		5 755	
New ^a and relapse notification rate per 100 000	61.7		
Pulmonary	4 209	(70.4%)	
of which microscopy-positive	-	=	
of which laboratory-confirmed	2 828	(67.2%)	
Laboratory-confirmed TB cases	-	-	
Mean age of new native TB cases	33.9 years		
Mean age of new foreign TB cases		-	
Foreign origin of all TB cases	0	(0.0%)	
New (not previously treated)	5 159	(86.3%)	
Estimates			
Estimated new and relapse cases N, best [low-high]	7700	[6 000-9 700]	

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

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a		No	
Completeness of HIV datab	Yes		
Case-linked data-reporting	Yes		
Cases with DST results	2 002	(70.8%)	
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	880	[830-930]	
Pulmonary MDR-TB cases notified	308	(15.4%)	
of which XDR-TB cases	75	(26.1%)	
Notified MDR-TB	308	-	
of which XDR-TB cases	75	-	
TB cases tested for HIV	5 660	(98.3%)	
HIV-positive TB cases	167	(3.0%)	
of these on ART	127	(76.0%)	

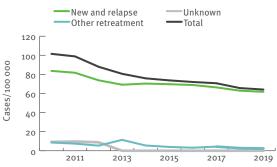
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases $^{\flat}$ 50%, DST done for C+ $^{\flat}$ 775%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

Geographical coverage	Nat	ional		
Outcome cohort	TB cases	d relapse s notified o18ª	cases er second-lii	/MDR-TB nrolled into ne treatment 2017 ^b
Case-linked data-reporting	Yes		-	
Cases notified	4	4 995		546
Success	4 452	(89.1%)	352	(64.5%)
Died	204	(4.1%)	81	(14.8%)
Failed	60	(1.2%)	39	(7.1%)
Lost to follow up	215	215 (4.3%)		(12.3%)
Not evaluated	64 (1.3%)		7	(1.3%)

^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 previous treatment history, 2010-2019^a



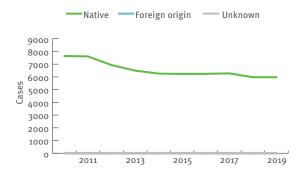
^a Starting from 2013 onward, cases with unknown history are included in new and relapse.

New and relapse TB cases - notification rates by age group, 2010-2019ª



^a Data up to 2012 includes new TB cases only

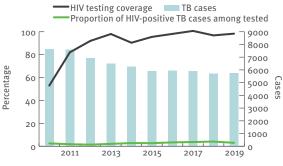
TB cases by geographical origin, 2010-2019



MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010-2019

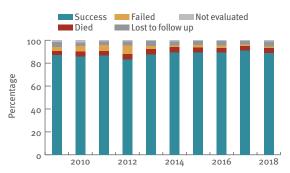


TB/HIV coinfection, 2010-2019a



^a Data up to 2014 include all TB cases.

Treatment outcome, new and relapse TB cases, 2009-2018a



Turkey

Laboratory-confirmed TB cases

Total population estimate 2019 by United Nations Statistical Database: 83 429 607

TB cases, 2019

Notifications		
Total number of cases		11 401
Notification rate per 100 000		13.7
New ^a and relapse		11 247
New ^a and relapse notification rate per 100 000		13.5
Pulmonary	7 433	(65.2%)
of which microscopy-positive	-	-
of which laboratory-confirmed	5 915	(79.6%)

Mean age of new native TB cases 43.4 years Mean age of new foreign TB cases Foreign origin of all TB cases 1454 (12.8%) New (not previously treated) 10 669 (93.6%) Estimates

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a		Yes	
Completeness of HIV datab	Yes		
Case-linked data-reporting		Yes	
Cases with DST results	5 087	(86.0%)	
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	170	[150-200]	
Pulmonary MDR-TB cases notified	121	(2.4%)	
of which XDR-TB cases	8	(10.5%)	
Notified MDR-TB	127	-	
of which XDR-TB cases	8	-	
TB cases tested for HIV	8 814	(78.4%)	
HIV-positive TB cases	104	(1.2%)	
of these on ART	84	(80.8%)	

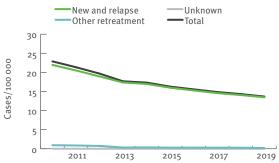
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases \gt 50%, DST done for C+ \gt 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

Geographical coverage	Nat	ional		
Outcome cohort	TB case:	d relapse s notified 1018°	cases er second-li	/MDR-TB nrolled into ne treatment 2017 ^b
Case-linked data-reporting	Yes		-	
Cases notified	11	11 407		202
Success	9 691	(85.0%)	139	(68.8%)
Died	885	(7.8%)	21	(10.4%)
Failed	34	(0.3%)	8	(4.0%)
Lost to follow up	225	225 (2.0%)		(9.9%)
Not evaluated	572			(6.9%)

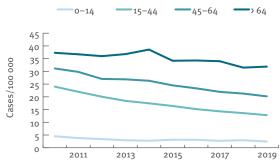
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

TB notification rates by previous treatment history, 2010-2019^a



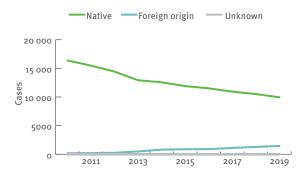
^a Starting from 2013 onward, cases with unknown history are included in new and relapse.

New and relapse TB cases - notification rates by age group, 2010-2019ª

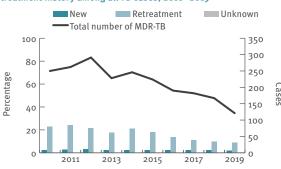


^a Data up to 2012 includes new TB cases only

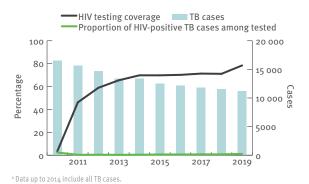
TB cases by geographical origin, 2010-2019



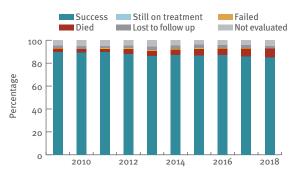
MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010-2019



TB/HIV coinfection, 2010-2019a



Treatment outcome, new and relapse TB cases, 2009-2018a



Estimated new and relapse cases N, 13 000 [11 000-15 000] best [low-high]

a Cases with unknown previous TB history included in new cases

Turkmenistan

Total population estimate 2019 by United Nations Statistical Database: 5 942 094

TB cases, 2019

Notifications

Notifications			
Total number of cases	2 863		
Notification rate per 100 000	48.2		
New ^a and relapse	2 117		
New ^a and relapse notification rate per 100 000	35.6		
Pulmonary	2 357	(82.3%)	
of which microscopy-positive	-	-	
of which laboratory-confirmed	890	(37.8%)	
Laboratory-confirmed TB cases	-	-	
Mean age of new native TB cases	3	39.0 years	
Mean age of new foreign TB cases		-	
Foreign origin of all TB cases	0	(0.0%)	
New (not previously treated)	1900	(66.4%)	
Estimates			
Estimated new and relapse cases N,	2 600	[2 000-3 300]	

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

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a		No	
Completeness of HIV datab		No	
Case-linked data-reporting	Yes		
Cases with DST results	0	(0.0%)	
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	300	[280-330]	
Pulmonary MDR-TB cases notified	-	-	
of which XDR-TB cases	-	-	
Notified MDR-TB	649	-	
of which XDR-TB cases	55	-	
TB cases tested for HIV	-	-	
HIV-positive TB cases	-	-	
of these on ART	-	-	

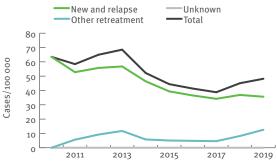
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases \gt 50%, DST done for C+ \gt 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

Geographical coverage	Nat	ional		
Outcome cohort	TB case:	d relapse s notified 1018°	cases er second-lii	/MDR-TB nrolled into ne treatment 2017 ^b
Case-linked data-reporting	Υ	es		-
Cases notified	2	157		343
Success	1780	(82.5%)	226	(65.9%)
Died	76	(3.5%)	31	(9.0%)
Failed	172	(8.0%)	43	(12.5%)
Lost to follow up	84	(3.9%)	38	(11.1%)
Not evaluated	45	(2.1%)	5	(1.5%)

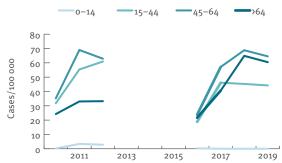
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

TB notification rates by previous treatment history, 2010-2019^a



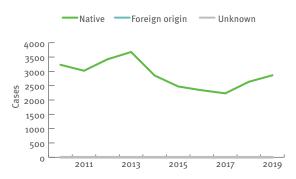
^a Starting from 2013 onward, cases with unknown history are included in new and relapse.

New and relapse TB cases - notification rates by age group, 2010-2019ª

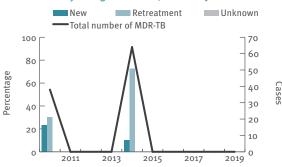


a Data up to 2012 includes new TB cases only.

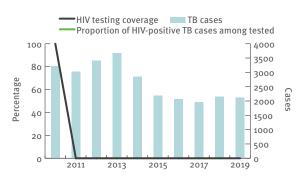
TB cases by geographical origin, 2010-2019



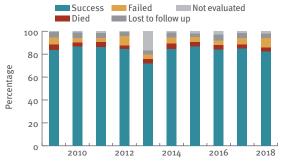
MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010-2019



TB/HIV coinfection, 2006-2014



Treatment outcome, new and relapse TB cases, 2009-2018a



Total population estimate 2019 by United Nations Statistical Database: 43 993 643

TB cases, 2019

Estimates

best [low-high]

Estimated new and relapse cases N,

Notifications			
Total number of cases		28 539	
Notification rate per 100 000		64.9	
New ^a and relapse		25 379	
New ^a and relapse notification rate per 100 000	57.7		
Pulmonary	26 032	(91.2%)	
of which microscopy-positive	-	-	
of which laboratory-confirmed	19 129	(73.5%)	
Laboratory-confirmed TB cases	-	-	
Mean age of new native TB cases	42	.9 years	
Mean age of new foreign TB cases		-	
Foreign origin of all TB cases	36	(0.1%)	
New (not previously treated)	20 632	(72.3%)	

a Cases with unknown previous TB history included in new cases

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a		Yes
Completeness of HIV datab		Yes
Case-linked data-reporting		Yes
Cases with DST results	18 459	(96.5%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	6 200	[6 000-6 300]
Pulmonary MDR-TB cases notified	4490	(24.3%)
of which XDR-TB cases	853	(19.0%)
Notified MDR-TB	4 490	-
of which XDR-TB cases	895	=
TB cases tested for HIV	25 210	(99.3%)
HIV-positive TB cases	5 800	(23.0%)
of these on ART	4860	(83.8%)

 $[^]a$ 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.

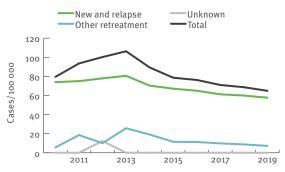
Treatment outcome monitoring

Geographical coverage	Nati	ional		
Outcome cohort	New and relapse TB cases notified in 2018 ^a		cases en second-lin	MDR-TB rolled into le treatment 2017 ^b
Case-linked data-reporting	Yes			-
Cases notified	20	221	6	685
Success	15 607	(77.2%)	3 407	(51.0%)
Died	1993	(9.9%)	1 014	(15.2%)
Failed	1 4 4 6	(7.2%)	1196	(17.9%)
Lost to follow up	1 114	(5.5%)	1 037	(15.5%)
Not evaluated	61	(0.3%)	31	(0.5%)

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

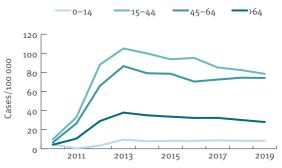
TB notification rates by previous treatment history, 2010-2019^a

34 000 [22 000-48 000]



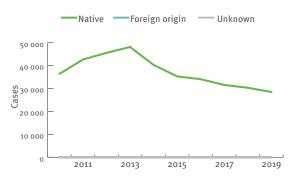
^a Starting from 2013 onward, cases with unknown history are included in new and relapse.

New and relapse TB cases - notification rates by age group, 2010-2019ª

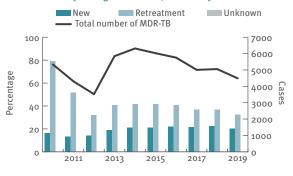


^a Data up to 2012 includes new TB cases only

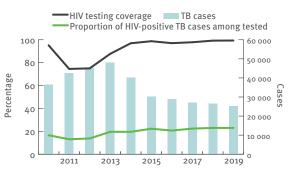
TB cases by geographical origin, 2010-2019



MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010-2019

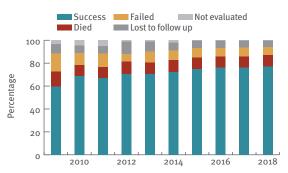


TB/HIV coinfection, 2010-2019a



^a Data up to 2014 include all TB cases.

Treatment outcome, new and relapse TB cases, 2009-2018a



United Kingdom

Total population at 25 June 2020 by EUROSTAT: 66 647 112

TB cases, 2019

Notifications

Nothications			
Total number of cases	5 132		
Notification rate per 100 000	7.7		
New ^a and relapse		4 803	
New ^a and relapse notification rate per 100 000	7.2		
Pulmonary	2 914	(56.8%)	
of which microscopy-positive	1 141	(39.2%)	
of which laboratory-confirmed	2 182	(74.9%)	
Laboratory-confirmed TB cases	3 185	(62.1%)	
Mean age of new native TB cases	43.2 years		
Mean age of new foreign TB cases	4	1.9 years	
Foreign origin of all TB cases	3 612	(70.4%)	
New (not previously treated)	4 5 2 9	(88.3%)	
Estimates			
Estimated new and relapse cases N, best [low-high]	5 400	[4 900-6 000]	

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

Drug-resistance surveillance and TB/HIV coinfection, 2019

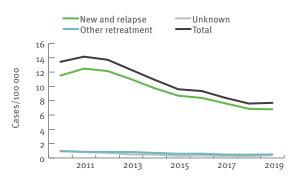
Completeness of DRS data ^a	Υ	es
Completeness of HIV datab		-
Case-linked data-reporting	Υ	es
Cases with DST results	3 148	(98.8%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	35	[23-47]
Pulmonary MDR-TB cases notified	27	(1.3%)
of which XDR-TB cases	1	(4.0%)
Notified MDR-TB	37	(1.2%)
of which XDR-TB cases	1	(2.9%)
New ^c and relapse cases tested for HIV	-	-
HIV-positive TB cases	-	-
of these on ART	-	-

Treatment outcome monitoring

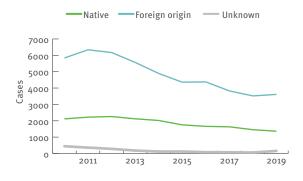
Geographical coverage	Nat	ional		
Outcome cohort	pulmonai	re-positive ry TB cases I in 2018ª		R-TB cases d in 2017 ^b
Case-linked data-reporting	Yes			-
Cases notified	1969		50	
Success	1 510	(76.7%)	29	(58.0%)
Died	130	(6.6%)	5	(10.0%)
Failed	0	(0.0%)	0	(0.0%)
Lost to follow up	100	(5.1%)	4	(8.0%)
Still on treatment	157	(8.0%)	5	(10.0%)
Not evaluated	72	(3.7%)	7	(14.0%)

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

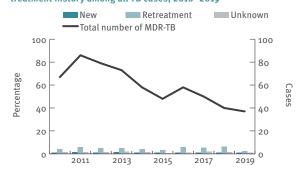
TB notification rates by previous treatment history, 2010–2019



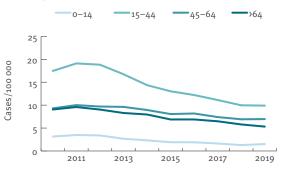
TB cases by geographical origin, 2010-2019



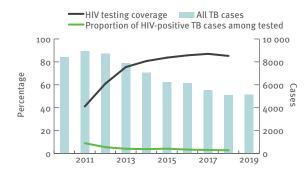
MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010-2019

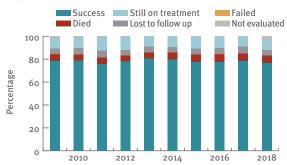


New and relapse TB cases - notification rates by age group, 2010-2019



TB/HIV coinfection, 2010-2019





^{*} National coverage 100% or culturing > 90%, C+/all TB cases > 50%, DST done for C+ 75%, EQA > 59%.

* More than 90% of TB cases with reported HIV status.

* Cases with unknown previous TB treatment history included

Uzbekistan

Total population estimate 2019 by United Nations Statistical Database: 32 981715

TB cases, 2019

Noti	ifica	tion	ıs

NULITICALIUMS			
Total number of cases		18 774	
Notification rate per 100 000		56.9	
New ^a and relapse		16 272	
New ^a and relapse notification rate per 100 000	49.3		
Pulmonary	12 008	(64.0%)	
of which microscopy-positive	-	-	
of which laboratory-confirmed	7 394	(61.6%)	
Laboratory-confirmed TB cases	-	-	
Mean age of new native TB cases		38.8 years	
Mean age of new foreign TB cases		-	
Foreign origin of all TB cases	0	(0.0%)	
New (not previously treated)	14 517	(77.3%)	
Estimates			
Estimated new and relapse cases N,	22 000	[15 000-30 000]	

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

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a		Yes
Completeness of HIV datab		Yes
Case-linked data-reporting		Yes
Cases with DST results	7 394	(100.0%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	1100	[1 000-1 100]
Pulmonary MDR-TB cases notified	978	(13.2%)
of which XDR-TB cases	179	(34.8%)
Notified MDR-TB	1594	-
of which XDR-TB cases	602	=
TB cases tested for HIV	16 272	(100.0%)
HIV-positive TB cases	647	(4.0%)
of these on ART	481	(74.3%)

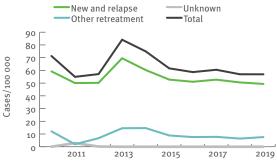
 $[^]a$ National coverage 100% or culturing \ge 90%, C+/all TB cases \gt 50%, DST done for C+ \gt 75%, EQA \ge 95%. b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

Geographical coverage	Nat	ional		
Outcome cohort	New and relapse TB cases notified in 2018 ^a		cases en second-lir	/MDR-TB Irolled into Ne treatment 2017 ^b
Case-linked data-reporting	Yes			-
Cases notified	14	423	2	265
Success	13 217	(91.6%)	1372	(60.6%)
Died	478	(3.3%)	308	(13.6%)
Failed	166	(1.2%)	115	(5.1%)
Lost to follow up	307	(2.1%)	187	(8.3%)
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 previous treatment history, 2010-2019^a



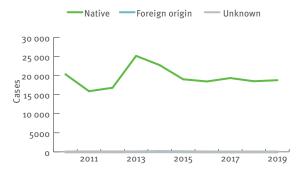
^a Starting from 2013 onward, cases with unknown history are included in new and relapse.

New and relapse TB cases - notification rates by age group, 2010-2019ª

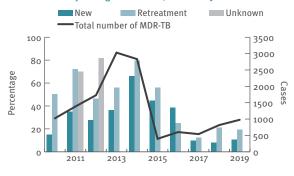


^a Data up to 2012 includes new TB cases only

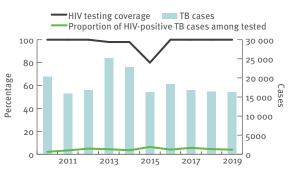
TB cases by geographical origin, 2010-2019



MDR-TB cases and percentage of MDR-TB cases by previous treatment history among all TB cases, 2010-2019

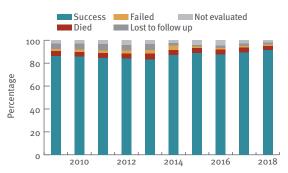


TB/HIV coinfection, 2010-2019a



^a Data up to 2014 include all TB cases.

Treatment outcome, new and relapse TB cases, 2009-2018a





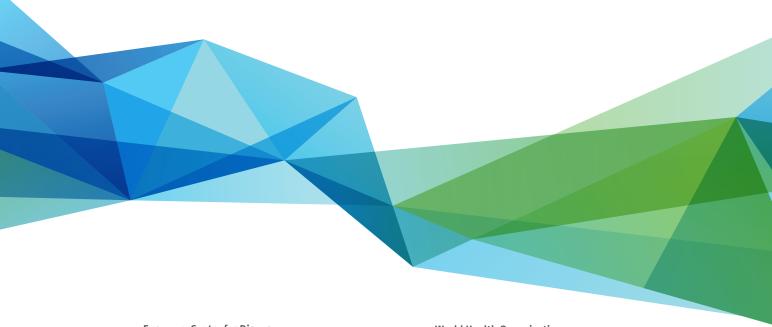
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