





Tuberculosis surveillance and monitoring in Europe



2019 data

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2021

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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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Abbreviations

AFB	acid-fast bacilli
ART	antiretroviral therapy
CI	confidence interval
CISID	Centralized Information System for Infectious Diseases
DRS	drug-resistance surveillance
DST	drug-susceptibility testing
ECDC	European Centre for Disease Prevention and Control
EEA	European Economic Area
EQA	external quality assessment
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
ТВ	tuberculosis
TESSy	The European Surveillance System
TME	WHO Tuberculosis Monitoring and Evaluation platform
том	treatment outcome monitoring
WRD	WHO-recommended rapid diagnostics
XDR	extensive drug resistance
XDR-TB	extensively drug-resistant tuberculosis



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 25 060 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 18о 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 ооо 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 ооо населения в возрасте от о 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 EC/EЭЗ, 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

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 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".⁵ 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".⁶ 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 246 000 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 Region, 2019

(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 173 058 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









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 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%).





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 laboratoryconfirmed 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.



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

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

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

	List	Description
Comm	non set of variables	
1	RecordId	Unique identifier for each record generated by the national surveillance system
2	RecordType	Structure and format of the data
	RecordTypeVersion	Indicates which version the sender uses when generating the data for upload
4	Subject	Disease to report
	Status	Status of reporting NEW/UPDATE or DELETE (inactivate)
	DataSource	The data source (surveillance system) from which the record originates
7	ReportingCountry	The country reporting the record
	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
11	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	se-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
	DiagnosedAnteMortem	Vital status of the patient at the time of diagnosis
27	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
	Outcome36Months	The first outcome observed 25–36 months from the start of treatment
	ResultCulture	The result of the culture test for Mycobacterium tuberculosis complex
-	ResultMicroscopy	The result of the microscopy test performed
	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 amikacin
	SIR_BDQ	Susceptibility to bedaquiline
-	SIR_CAP	Susceptibility to capreomycin
	SIR_DLM	Susceptibility to delamanid
	SIR_ETH	Susceptibility to ethambutol
	SIR_GAT	Susceptibility to gatifloxacin
	SIR_INH	Susceptibility to isoniazid
	SIR_KAN	Susceptibility to kanamycin
	SIR_LVX	Susceptibility to levofloxacin
	SIR_MFX	Susceptibility to moxifloxacin
	SIR_OFX	Susceptibility to ofloxacin
47	SIR_PZA	Susceptibility to pyrazinamide
	SIR_RIF	Susceptibility to rifampicin Susceptibility to streptomycin
	SIR_STR IsolateID	Unique identifier for each isolate within the data source/laboratory system related to the case
-		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
	ECDCIsolateID	and does not contain additional encoded information
	SpoligoCode ^b	Spoligo pattern code
53	MiruCode ^b	MIRU pattern code
54	BeijingGenotype ^b	Beijing genotype identification

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

^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.

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Outcome 36 months ^e (%)	(100.0)	I	I	1	I	I	I	(100.0)	I	I	I	I	(0.0)	I	I	1	I	1	(100.0)	I	I	I	I	I	I	(100.0)	I	1	I	I	(100.0)	(95.8)
Outcome 24 months ^d (%)	(72.7)	(100.0)	(100.0)	I	(0.0)	(66.7)	I	(100.0)	(100.0)	I	(100.0)	I	(100.0)	I	(50.0)	I	I	I	(100.0)	1	I	(100.0)	(100.0)	I	(77.8)	(100.0)	(100.0)	I	(0.0)	(100.0)	(83.3)	(96.1)
Outcome 12 months ^c (%)	(92.3)	(97.2)	(100.0)	(43.8)	(75.0)	(96.2)	(16.2)	(100.0)	(20.9)	(13.3)	(86.6)	(1.6)	(0.7.0)	(100.0)	(1.74)	(0.0)	I	I	(100.0)	(0.0)	(0.0)	(1.76)	(95.7)	(0.0)	(100.0)	(100.0)	(98.6)	(0.66)	(55.0)	(86.5)	(95.8)	(65.0)
Enrolled in treatment (%)	(0.0)	(98.6)	(100.0)	(81.8)	(100.0)	(100.0)	(100.0)	(100.0)	(81.8)	(0.0)	(98.4)	(97.8)	(100.0)	(100.0)	(100.0)	(29.0)	I	I	(100.0)	(100.0)	(100.0)	(98.6)	(100.0)	(0.0)	(100.0)	(100.0)	(100.0)	(100.0)	(0.0)	(100.0)	(95.4)	(64.1)
HIV status (%)	(0.0)	(52.2)	(82.1)	(1.7)	(62.3)	(58.4)	(80.8)	(94.0)	(0.0)	(0.0)	(0.0)	(88.9)	(5.8)	(84.6)	(39.8)	(0.0)	I	I	(96.4)	(74.0)	(0.0)	(75.9)	(78.8)	(0.0)	(68.0)	(86.4)	(69.2)	(72.3)	(0.0)	(0.0)	(0.0)	(32.3)
DST SLD (%)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	I	(100.0)	I	I	I	(100.0)	(100.0)	I	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	I	(100.0)	(100.0)	(100.0)	(100.0)
DST FLD (%)	(96.8)	(95.9)	(72.5)	(9.98)	(100.0)	(1.06)	(98.7)	(99.2)	(95.5)	(4.2)	(1.06)	(79.5)	(90.2)	(100.0)	(88.8)	(0.0)	I	I	(100.0)	(80.0)	(95.8)	(89.0)	(94.9)	(91.0)	(57.3)	(90.5)	(100.0)	(100.0)	(29.0)	(99.2)	(98.8)	(74.4)
Result other test (%)	(84.0)	(75.3)	(7.4)	(0.0)	(47.8)	(78.4)	(91.5)	(92.0)	(61.8)	(0.0)	(85.1)	(50.8)	(0.0)	(100.0)	(52.6)	(0.0)	I	I	(1.3)	(0.0)	(0.0)	(81.3)	(63.3)	(21.3)	(37.9)	(3 0.7)	(36.0)	(0.0)	(37.4)	(85.4)	(17.0)	(31.7)
Result microscopy (%)	(71.5)	(41.7)	(87.4)	(82.5)	(87.0)	(92.0)	(95.0)	(28.7)	(52.9)	(82.3)	(91.1)	(74.9)	(87.9)	(76.9)	(42.1)	(9.6)	I	I	(100.0)	(72.0)	(56.1)	(23.6)	(85.5)	(89.7)	(48.6)	(96.6)	(88.8)	(88.1)	(87.3)	(73.7)	(6 4.1)	(83.0)
Result culture (%)	(95.4)	(65.7)	(86.3)	(89.8)	(78.3)	(98.3)	(94.3)	(98.7)	(78.7)	(46.4)	(87.2)	(62.7)	(86.6)	(76.9)	(80.1)	(73.8)	I	I	(100.0)	(80.0)	(51.0)	(77.5)	(92.7)	(92.4)	(62.9)	(95.4)	(87.4)	(95.0)	(84.3)	(100.0)	(61.9)	(81.1)
Diagnosed antemortem (%)	(100.0)	(100.0)	(100.0)	(82.2)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(1.2)	(98.4)	(100.0)	(100.0)	(100.0)	(100.0)	(0.0)	I	I	(100.0)	(100.0)	(0.0)	(98.2)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(0.0)	(100.0)	(100.0)	(74.3)
Previous treatment history ^ь (%)	(80.6)	(85.5)	(100.0)	(5.3)	(97.1)	(100.0)	(9.6)	(100.0)	(98.2)	(56.9)	(71.6)	(62.6)	(100.0)	(100.0)	(65.0)	(84.3)	1	I	(100.0)	(62.0)	(100.0)	(6.66)	(100.0)	(100.0)	(100.0)	(100.0)	(95.3)	(100.0)	(62.6)	(88.9)	(64.7)	(86.6)
Site (%)	(100.0)	(100.0)	(100.0)	(85.1)	(100.0)	(100.0)	(98.9)	(100.0)	(100.0)	(98.9)	(66.3)	(98.9)	(100.0)	(100.0)	(90.2)	(97.6)	I	I	(100.0)	(100.0)	(100.0)	(98.8)	(100.0)	(100.0)	(99.8)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(6.7)	(99.4)
Country of origin (%)	(100.0)	(100.0)	(100.0)	(0.66)	(100.0)	(99.8)	(100.0)	(100.0)	(67.3)	(93.4)	(98.0)	(97.2)	(100.0)	(100.0)	(84.6)	(97.5)	1	T	(100.0)	(100.0)	(91.8)	(98.7)	(99.4)	(99.8)	(80.1)	(100.0)	(100.0)	(100.0)	(86.6)	(100.0)	(6.3)	(99.6)
Originª (%)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(99.8)	(100.0)	(100.0)	(98.2)	(89.1)	(97.5)	(100.0)	(100.0)	(100.0)	(84.6)	(67.9)	1	T	(100.0)	(100.0)	(100.0)	(98.7)	(99.4)	(100.0)	(6.66)	(100.0)	(100.0)	(100.0)	(91.2)	(100.0)	(6.9)	(97.3)
Gender (%)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(66.6)	(99.8)	(100.0)	(100.0)	(100.0)	(9.6)	(9.6)	I	I	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(6-66)
Age (%)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	I	I	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(99.8)	(100.0)	(100.0)	(100.0)
Country	Austria	Belgium	Bulgaria	Croatia	Cyprus	Czechia	Denmark	Estonia	Finland	France	Germany	Greece	Hungary	Iceland	Ireland	Italy	Latvia	Liechtenstein	Lithuania	Luxembourg	Malta	Netherlands	Norway	Poland	Portugal	Romania	Slovakia	Slovenia	Spain	Sweden	United Kingdom	Total EU/EEA (100.0) (99.9) (97.3) (96.6)

Note: WHO European Region tuberculosis high-priority countries presented in italics. D5T ELD: drug-susceptibility testing for first-line anti-tuberculosis drugs, calculated for confirmed tuberculosis cases. EU/EEA: European Union/European Economic Area. FU/EEA: European Union/European Economic Area. * For determining the origin, two variables were merged: BornReporting Country and NationalityReportingCountry, depending on country preference. * 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. * History of previous treatment defined by previous diagnosis for tases reported by Belgium, Denmark, Ireland, Norway and the United Kingdom. • Data for the mould or seas control cases that are reported as "still on treatment" at 12 months and 24 months.

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	(100.0)	(1).0)	(0.0)	(0.0)	(+0.5)	(20.0)
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)	(80.2)	(91.1)	(92.4)	(47.7)	(0.0)
	(103.9)	(79.3)	(91.1)	(73.4)	(43.0)	(0.0)
Norway Poland	(100.0)	(82.8)	(77.8)	(75.4)	(36.0)	(0.0)
	(100.0)	(87.9)	(77.8)	(83.5)	(65.1)	(0.0)
Portugal				(100.0)		
Romania	(100.0)	(91.4)	(91.1)		(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	(100.0)	(00.4)	(00.0)	(40.0.0)	(70.0)	(2.0)
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)
Kosovo ¹	(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)	(40.1)	(71.2)	(42.4)
Total European Region	(73.4)	(78.9)	(70.0)	(65.2)	(51.4)	(23.9)
	(94.8)	(87.0)	(73.3)	(80.9)	(76.7)	(70.0)

Annex 4. Reporting completeness into Global TB Database, 2019

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 lahor	atory networl	e			
					country			Internatio		iency testi e laborato	
Country/area	Micros	scopy	Culture	DST for i and rifa		Line probe	Xpert MTB/Rif	-	Percer agreem result	itage ient of	
	Number of laboratories performing	EQA passed	Number of aboratories performing	Number of laboratories 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	Ŷ
Croatia	15	1	15	6	6	0	1	-	-	-	-
Cyprus	-	-	-	-	-	-	-	-	-	-	-
Czechia	38	38	38	-	-	-	13	2019	100	100	Y
Denmark Estonia	1	1	1	1	1	0 0	1	2019 2019	100 100	100 100	Y Y
Finland	9	9	9	- 1	2	2	5	2019	100	100	Y
France	-	-	-	-	-	-	_	- 2017	-	-	-
Germany	-	-	-	-	-	-	_	-	-	-	-
Greece	-	-	-	-	-	-	-	-	-	-	-
Hungary	11	11	11	6	2	1	5	2019	100	100	Y
Iceland	-	-	-	-	-	-	-	-	-	-	-
Ireland	11	11	10	3	3	0	7	2019	100	100	Y
Italy	46	0	46	68	65	36	42	2018	100	100	Y
Latvia	143	143	-	1	1	0	323	-	-	-	Y
Liechtenstein	-	-	-	-	-	-	-	-	-	-	-
Lithuania	10	10	5	5	5	2	4	2019	100	100	Y
Luxembourg Malta	1	1	1	1	1	1	0	2019	100 -	100	Y -
Netherlands	-	-	30	8	-	-	-	2019	100	100	Y
Norway	14	14	8	3	3	1	8	2019	100	100	Y
Poland	50	0	50	39	-	0	22	2019	100	100	Y
Portugal	46	0	42	21	11	20	10	2019	100	100	Y
Romania	94	73	86	43	35	7	27	2019	100	100	Y
Slovakia	7	7	3	2	2	1	1	-	-	-	-
Slovenia	2	2	2	2	2	1	2	2019	100	100	Y
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	5	5	5	6	6	2	3	2019	100	100	Y
United Kingdom	- 640	- 463	496	- 243	- 169	- 78	- 512	-	-	-	-
Subtotal EU/EEA Non-EU/EEA	040	403	490	243	109	/8	512	-	-	-	-
Albania	12	1	1	1	0	0	1	2017	100	100	Y
Andorra	7	-	7	6	-	4	3	-	-	-	-
Armenia	25	25	. 1	1	1	1	13	2019	100	100	Ŷ
Azerbaijan	55	35	7	5	5	2	11	-	-	-	-
Belarus	116	105	16	16	16	8	26	2019	100	100	Y
Bosnia and Herzegovina	15	-	12	7	-	3	1	-	-	-	-
Georgia	11	11	2	2	2	2	27	2019	98	97	Y
Israel	17	0	17	3	3	1	-	2018	100	100	Y
Kazakhstan	281	279	19	19	19	12	123	2018	100	100	Y
Kyrgyzstan Benublic of Moldova	116	116	7	2	2	1	24	2019	95 100	95 100	N
Republic of Moldova Monaco	57	57	4	4	4	0	57	2019	100 -	100	Y -
Montenegro	- 1	- 1	- 1	-	-	-	- 1	2019	- 100	100	– Y
North Macedonia	7	7	3	1	0	0	1	2019	100	100	Ŷ
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	Y
Serbia excluding Kosovo ¹	31	1	29	4	4	1	2	-	-	-	-
Kosovo1	10	10	3	2	2	0	3	2018	100	100	Y
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	Y
Turkmenistan	74	6 711	6	12	2	6	7	2019	100	100	Y
Ukraine Uzbekistan	740 285	711 260	82 8	68 8	68 2	4	134 51	- 2019	100 100	100 100	N Y
Subtotal non-EU/EEA	7836	260 2 430	738	526	222	63	819	2019	- 100	- 100	r _
Total European Region	8 476	2 893	1234	769	391	141	1 3 3 1	-	-	-	-
			1	550	253	61					-

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		otal		h-priority
	ĥ								ntriesª
Data item	Table showing data by country/area	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	221270
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	178 890
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 29	-5.0% 76.9%	22 22	-5.9% 66.6%	51 51	-5.5% 68.6%	17 17	-5.8% 67.2%
Percentage of new cases among all TB cases 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 Percentage of XDR-TB among all MDR-TB cases with DST for SLD	13 14	28 29	3.4% 22.4%	- 18	22.5%	- 47	22.5%	- 15	22.6%
TB/HIV coinfection. 2019	14	29	22.4 /0	10	22.3 /0	4/	22.370	IJ	22.0 /0
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 Treatment success of all MDR-TB cases notified 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 Treatment success of all XDR-TB cases notified in 2017	27	23 26	46.8%	-	- (2 00/				
meatiment success of all ADR-1D cases notified in 2017	28	20	7.8%	19	43.9%	45	43.0%	17	43.0%

 Note:
 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.

 * 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.

 * Mumber of countries/areas with available data included in the statistics.
 * 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 to February 2021).

 * 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.

Estimated number of deaths from TB (all forms. excluding HIV) Estimated number of incident cases (all forms) Country **Population**^a Number Per 100 000 Number Per 100 000 Best High Best High Best High Best High Low Low Low Low EU/EEA Austria 8 955 108 35 34 35 0.4 0.4 0.4 560 480 650 6.2 5.3 7.2 1000 1200 Belgium 11 539 326 32 0.3 0.3 880 8.9 7.6 10 33 35 0.3 7 000 117 110 1400 1 100 1800 16 Bulgaria 110 110 1.6 1.5 1.6 21 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 2 0.3 64 73 4.5 6.1 3 4 0.2 0.3 54 5.3 10 689 213 37 530 450 610 Czechia 36 36 0.3 0.3 0.3 4.9 4.2 5.7 17 290 250 340 Denmark 5771877 18 18 0.3 0.3 0.3 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 0.4 260 220 300 5.4 0.4 0.4 4.7 4 France 65 129 731 290 270 310 0.5 0.4 0.5 5 700 5 0 0 0 6 4 0 0 8.7 7.6 9.8 300 290 4 9 0 0 4 6 0 0 5 100 Germany 83 517 046 300 0.4 0.4 5.5 6.1 0.4 5.8 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 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 3 700 Italy 60 550 092 320 310 330 05 05 05 4 3 0 0 5 0 0 0 71 61 82 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 48 615 7 30 Luxembourg 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 5 378 859 Norway 19 18 19 0.3 0.3 0.4 180 150 200 3.3 2.8 3.8 37 887 771 460 430 490 5700 4 900 6 6 0 0 13 17 Poland 1.2 1.3 15 1.1 10 226 178 180 170 190 2 0 0 0 1700 Portugal 1.8 1.7 1.8 2300 19 17 22 Romania 19 364 558 790 790 800 4.1 4.1 41 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 0.3 0.3 0.3 110 96 130 5.4 4.6 6.3 7 7 7 3 700 46 736 782 240 4 300 5 0 0 0 Spain 240 250 0.5 0.5 0.5 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 4 0 0 4 9 0 0 6 0 0 0 7.2 8.8 8 518 234 825 Subtotal EU/EEA 3 560 3 5 2 0 3 600 0.7 0.7 0.7 55 000 52 000 58 000 10.6 10.0 11.2 Non-EU/EEA 19 2 880 913 14 0.2 0.5 470 410 550 16 14 Albania 8 4 0.3 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 Azerbaiiaı 10 047 719 590 550 640 5.9 5.4 6.4 6000 4 600 7600 60 46 76 9 452 409 270 260 2.8 2.7 2 100 22 Belarus 280 3.0 2 800 3 500 29 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 0 0 0 2 500 3 500 74 62 87 8 519 373 250 210 290 2.9 Israel 13 13 14 0.2 0.2 0.2 2.5 3.4 Kazakhstan 18 551 428 290 220 370 13 000 8200 18 000 98 1.6 1.2 2.0 68 44 6 415 851 350 320 380 5.5 5.0 5.9 7100 6000 8200 110 94 127 Kyrqyzstan Monaco 38 967 0 0 0 0.0 0.0 0.0 0 0 0 0 0 0 Montenegro 627 988 1 0.2 0.2 0.2 92 79 110 15 13 17 1 1 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 2 0 0 2 800 3 700 80 68 92 Russian Federation 145 872 260 8400 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 Taiikistan 7 700 9700 9 321 023 730 650 820 6000 83 104 7.9 7.0 8.7 64 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 12.0 2 600 2000 3 300 8.8 45 34 56 Ukraine 43 993 643 3 200 3 0 0 0 3 400 7.3 6.8 7.8 34 000 22 000 48 000 77 50 110 Uzbekistan 32 981 715 1 500 1400 1700 4.7 5.0 22 000 15 000 30 0 00 67 47 91 4.3 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

Table 1. Estimates of the TB disease burden, European Region, 2019

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 1	TB cases			Estimated i	ncidence o	of TB amon	g females		
	Number			Per 100 000			Number		P	er 100000		Country
Best	Low	High	Best	Low	High	Best	Low	High	Best	Low	High	
					, in the second s			, in the second s			Ŭ	EU/EEA
33	28	39	2.6	2.2	3.0	210	160	260	5.4	4.1	6.6	Austria
58	48	67	2.9	2.4	3.4	320	250	390	6.6	5.1	8.0	Belgium
90	66	110	8.8	6.4	10.7	470	300	640	15.2	9.7	20.6	Bulgaria
7	6	8	1.2	1.0	1.3	120	94	140	6.5	5.1	7.6	Croatia
, 1	1	1	0.5	0.5	0.5	31	24	38	6.2	4.8	7.6	Cyprus
5	4	5	0.3	0.2	0.3	130	110	150	2.8	2.4	3.3	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	4.6	Finland
310	270	360	2.7	2.3	3.1	1800	1500	2 200	6.4	5.4	7.9	France
200	190	220	1.7	1.6	1.9	1600	1500	1700	4.4	4.1		Germany
		6		0.3	0.4	110	89	130	2.4	1.9	4.6 2.8	Greece
6	5		0.4									
12	10	13	0.9	0.7	0.9	200	160	240	4.5	3.6	5.5	Hungary
0	0	0	0.0	0.0	0.0	7	5	8	5.1	3.7	5.9	Iceland
12	10	13	1.2	1.0	1.3	110	86	130	5.6	4.4	6.6	Ireland
190	160	210	2.4	2.0	2.6	1300	1 100	1600	4.8	4.0	5.9	Italy
9	8	11	2.9	2.6	3.5	140	120	170	15.9	13.7	19.3	Latvia
-	-	-	-	-	-	-	-	-	-	-	-	Liechtenstein
31	26	36	7.4	6.2	8.6	320	250	380	25.0	19.5	29.7	Lithuania
0	0	0	0.0	0.0	0.0	12	9	14	4.7	3.5	5.4	Luxembourg
1	1	1	1.6	1.6	1.6	14	12	17	7.4	6.3	9.0	Malta
53	44	61	2.0	1.6	2.2	340	260	410	4.7	3.6	5.6	Netherlands
5	4	5	0.5	0.4	0.5	71	56	87	3.2	2.5	3.9	Norway
93	79	110	1.6	1.4	1.9	1500	1200	1800	9.0	7.2	10.8	Poland
72	61	84	5.3	4.5	6.2	640	510	780	13.5	10.8	16.5	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	7.2	Sweden
200	180	230	1.7	1.5	1.9	2 0 0 0	1700	2 300	7.1	6.0	8.1	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
												Non-EU/EEA
13	11	15	2.6	2.2	3.0	130	110	160	11.0	9.3	13.6	Albania
0	0	0	0.0	0.0	0.0	1	1	1	2.9	2.9	2.9	Andorra
47	35	60	7.7	5.7	9.8	150	100	200	11.7	7.8	15.6	Armenia
460	330	580	19.5	14.0	24.6	1900	1200	2 600	48.3	30.5	66.1	Azerbaijan
69	51	86	4.3	3.2	5.3	790	530	1 100	18.5	12.4	25.8	Belarus
7	5	8	1.4	1.0	1.6	350	230	470	24.2	15.9	32.5	Bosnia and Herzegovina
160	130	190	20.0	16.2	23.7	930	710	1200	54.5	41.6	70.3	Georgia
8	7	9	0.3	0.3	0.4	92	72	110	2.9	2.3	3.5	Israel
360	210	500	6.7	3.9	9.3	4 800	2 100	7 500	69.1	30.2	107.9	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	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	12.6	
120	98	130	18.7	15.3	20.2	820	660	980	45.7	36.8	54.6	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	48.9	Russian Federation
0	0	2 000	0.0	0.0	0.0	0	0	0	0.0	0.0	0.0	
18	15	20	1.3	1.1	1.5	520	410	630	13.6	10.7		Serbia
17	15	20	1.3	1.2	1.6	200	160	250	5.4	4.3	6.7	Switzerland
630	460	790	18.2	13.3	22.9	3 200	2 000	4 300	108.7	68.0	146.1	Tajikistan
570	480	660	2.8	2.4	3.3	5 100	4 000	6200	15.8	12.4	19.2	,
120	87	150	6.6	4.8	8.2	1000	660	1400	47.3	31.2	66.2	
1 300	750	1 800	18.5	10.7	25.7	10 000	4 700	16 000	49.5	23.3	79.2	
3 200	2 000	4 400	33.7	21.1	46.3	8700	4 000	13 000	73.0	33.6	109.1	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	46.1	Subtotal 18 HPCs

Country	Estimated I	HIV infection	n among incid	dent TB case	es (new and r	elapse)	Estimated p cases amo	ercentage o ong new TB	
		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	9	0.9	0.4	1.7	2.6	1.1	5.1
Estonia	19	11	17 30	2.7 12.0	6.6	5.7 18.0	2.5 17.0	0.7	6.3 26.0
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	0.2	1.5
Germany	130	72	210	2.7	1.5	4.4	2.2	0.8	4.8
Greece	16	9	210	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

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

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.

Estimated percentage of RR-TB cases among retreated TB patients %			notifie	l RR-TB cas d bacteriolo ned pulmon patients	gically	Country
	%			Number		
Best	Low	High	Best	Low	High	
						EU/EEA
18.0	3.8	43.0	10	4	17	Austria
8.8	1.9	24.0	16	7	25	Belgium
21.0	13.0	32.0	30	20	41	Bulgaria
6.3	0.2	30.0	2	0	5	Croatia
0.0	0.0	98.0	0	0	3	Cyprus
12.0	2.4	30.0	11	5	18	Czechia
0.0	0.0	25.0	4	0	9	Denmark
52.0	30.0	74.0	29	20	38	Estonia
67.0	9.4	99.0	6	2	10	Finland
10.0	7.1	15.0	37	27	47	France
23.0	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	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
31.0	19.0	44.0	-	-	-	Latvia
-	-	-	-	-	-	Liechtenstein
39.0	32.0	46.0	170	150	190	Lithuania
11.0	7.1	16.0	1	0	1	Luxembourg
11.0	7.1	16.0	0	0	6	Malta
0.0	0.0	25.0	9	2	15	Netherlands
0.0	0.0	29.0	1	0	4	Norway
2.8	1.4	4.9	49	34	63	Poland
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	10	Slovakia
0.0	0.0	60.0	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	1 170	1 100	1 300	Subtotal EU/EEA
						Non-EU/EEA
6.7	0.2	32.0	6	1	11	Albania
11.0	7.1	16.0	0	0	4	Andorra
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	3 100	3 000	3 200	Kazakhstan
60.0	57.0	63.0	1 400	1300	1 400	Kyrgyzstan
11.0	7.1	16.0	-	-	-	Monaco
0.0	0.0	37.0	0	0	2	Montenegro
0.0	0.0	23.0	1	0	4	North Macedonia
60.0	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	0	San Marino
4.7	1.3	11.0	7	3	11	Serbia
26.0	9.1	51.0	12	4	19	Switzerland
40.0	36.0	45.0	880	830	930	Tajikistan
9.7	6.9	13.0	170	150	200	Turkey
54.0	48.0	60.0	300	280	330	Turkmenistan
43.0	42.0	44.0	6 2 0 0	6 000	6 300	Ukraine
22.0	20.0	24.0	1 100	1 000	1 100	Uzbekistan
52	45	59	44 100	43 600		Subtotal non-EU/EEA
52	45	59	46 000	45 000	46 000	
	45	59	44 800	44 300	45 300	

	2015		2010	5	2017	,	2018	3	2019)	Mean annual %
Country/area	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	change in rate, 2015–2019
EU/EEA											2013-2019
Austria	583	6.8	634	7.3	569	6.5	482	5.5	474	5.4	-5.8%
Belgium	977	8.7	1042	9.2	967	8.5	977	8.6	968	8.5	-0.7%
Bulgaria	1 660	23.0	1 603	22.4	1463	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%
		4.4									
Greece	482		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 0 3 2	6.6	3 9 4 4	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 4 4 2	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 4 4 4	17.0	5 787	15.2	5 4 8 7	14.4	5 321	14.0	-4.6%
Portugal	2 195	21.2	1936	18.7	1 9 1 4	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									17 10-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Albania	415	14.4	415	14.4	503	17.4	440	15.3	412	14.3	-0.1%
Andorra	4	5.1	415	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	2.0	670	22.7	-13.5%
Azerbaijan	7 501	78.0	6 707	68.9	7 129	72.4	6 8 9 6	69.3	6 533	65.0	-4.4%
Belarus	4 177	44.3	3 598	38.1	3 052	32.3	2 5 4 2	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	83.3	12 658	71.0	12 942	71.6	13 361	72.9	12 990	70.0	-4.2%
Kyrgyzstan	7 833	131.4	7 995	131.6	7 695	124.3	7 585	120.3	7 039	109.7	-4.4%
Monaco	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	-
Montenegro	80	12.8	87	13.9	77	12.3	84	13.4	82	13.1	0.6%
North Macedonia	284	13.7	267	12.8	219	10.5	217	10.4	199	9.6	-8.6%
Republic of Moldova	4 211	103.4	4 134	101.7	3 858	95.0	3 465	85.5	3 255	80.5	-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%
San Marino	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0.0%
Serbia	1 658	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	-9.9%
Kosovo ¹	770	43.5	721	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	70.2 58.7	19 329	60.5	18 496		18 774	56.9	
Subtotal non-EU/EEA	254 268							57.0			-2.0%
	224 208	63.4	238 102	58.9	228 009	56.0	216 997	53.0	210 194	51.0	-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%

Table 3. TB cases, notification rates per 100 000 population and mean annual change in rates, European Region, 2015-2019

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).

	201	5	20:	16	20	17	20	18	2019)	Mean annual %
Country/area	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	change in rate, 2015–2019
EU/EEA											2013-2019
Austria	564	6.6	619	7.1	561	6.4	470	5.3	464	5.2	-5.5%
Belgium ^b	919	8.2	982	8.7	911	8.0	910	8.0	895	7.8	-1.1%
Bulgaria	1 619	22.5	1 525	21.3	1 408	19.8	1290	18.3	1 288	18.4	-4.9%
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	0.3%
Czechia	507	4.8	511	4.8	495	4.7	434	4.1	458	4.3	-2.8%
Denmark ^b	320	5.7	292	5.1	253	4.4	270	4.7	260	4.5	-5.7%
Estonia	206	15.7	188	14.3	171	13.0	145	11.0	147	11.1	-8.3%
Finland	268	4.9	223	4.1	242	4.4	224	4.1	224	4.1	-4.6%
France	4 457	6.7	5 4 4 6	8.2	5 0 1 5	7.5	4 779	7.1	4 869	7.3	2.0%
Germany	5 626	6.9	5 7 3 9	7.0	5 353	6.5	5 329	6.4	4 628	5.6	-5.3%
Greece	438	4.0	417	3.9	434	4.0	406	3.8	434	4.0	0.1%
Hungary	858	8.7	737	7.5	650	6.6	602	6.2	528	5.4	-11.2%
Iceland	7	2.1	6	1.8	13	3.8	8	2.3	13	3.6	14.4%
Ireland ^b	266	5.7	290	6.1	283	5.9	290	6.0	247	5.0	-3.0%
					3 828						
Italy Latvia	3 476 697	5.7 35.1	3 778	6.2 <i>32.6</i>		6.3	3 777	6.2	3 185	5.3	-2.0%
Liechtenstein	697		641		543	27.8	-		-	-	-
Liechtenstein Lithuania		2.7	2	5.3	1 269	2.6	1 1 0 6 2	2.6			-
	1 395	47.8	1 347	46.6	1268	44.5	1063	37.8	1006	36.0	-6.8%
Luxembourg	30	5.3	29	5.0	32	5.4	42	7.0	48	7.8	10.1%
Malta	32	7.3	50	11.1	42	9.1	55	11.6	98	19.9	28.5%
Netherlands	846	5.0	875	5.2	772	4.5	781	4.5	746	4.3	-3.6%
Norway ^b	282	5.5	273	5.2	237	4.5	188	3.6	153	2.9	-14.8%
Poland	6 237	16.4	6 143	16.2	5 5 3 5	14.6	5 196	13.7	4 983	13.1	-5.4%
Portugal	2 154	20.8	1 891	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	-5.5%
Slovakia	308	5.7	281	5.2	228	4.2	273	5.0	214	3.9	-8.8%
Slovenia	129	6.3	118	5.7	112	5.4	98	4.7	98	4.7	-6.8%
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 7 2 6	8.8	5 219	7.9	4 7 2 3	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	-0.1%
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	-4.1%
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	1 0 9 2	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	-8.8%
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	-4.1%
Kyrgyzstan	7 027	117.9	7 026	115.7	6 687	108.0	6 338	100.5	6 138	95.7	-5.1%
Monaco	0	0.0	-	-	-	-	-	-	-	-	-
Montenegro	80	12.8	87	13.9	75	12.0	84	13.4	80	12.7	0.0%
North Macedonia	282	13.6	263	12.6	216	10.4	217	10.4	199	9.6	-8.4%
Republic of Moldova	3 608	88.6	3 571	87.8	3 358	82.7	3 0 2 2	74.6	2 809	69.5	-5.9%
Russian Federation	99 590	68.7	92 407	63.6	84 510	58.1	78 258	53.7	73 328	50.3	-7.5%
San Marino	-	-	0	0.0	0	0.0	0	0.0	0	0.0	
Serbia	1649	18.6	1 472	16.6	1 450	16.4	1 3 3 0	15.1	1106	12.6	-9.2%
Serbia excluding Kosovo ¹	879	12.4	755	10.7	738	10.5	641	9.1	501	7.2	-12.8%
Kosovo ¹	770	43.5	717	40.4	712	39.9	689	38.5	605	33.8	-6.1%
Switzerland	531	6.4	573	6.8	529	6.3	473	5.5	402	4.7	-7.5%
Tajikistan	5 894	69.7	5 965	68.9	5 895	66.4	5 726	62.9	5 755	61.7	-3.0%
Turkey	12 550	16.0	12 186	15.3	11 821	14.6	11 576	14.1	11 247	13.5	-4.2%
Turkmenistan	2 191	39.4	2 068	36.5	1968	34.2	2 157	36.9	2 117	35.6	-2.5%
Ukraine	30 151	67.1	29 052	65.0	27 229	61.2	26 512	59.9	25 379	57.7	-3.7%
Uzbekistan	16 315	52.7	16 050	51.0	16 842	52.7	16 413	50.5	16 272	49.3	-1.7%
Subtotal non-EU/EEA	209 209	52.7 52.1	196 998	48.7	185 983	45.7	176 785	43.2	168 367	40.9	-5.9%
Total European Region	267 052	29.2	253 074	27.5	239 195	25.9	227 080	24.5	215 871	23.2	-5.5%
iotat European Kegion	207 052	55.7	209 502	52.0	197 902	48.8	187 360	46.2	178 890	43.9	-5.8%

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

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

								Previously							
Country/area	Nev	New*		Unknown previous TB history		Previously treated total		ious nent leted	Previ treatmen	t failed	Lost to fo from pro treatn	evious nent [®]	Oth retrea (inclu unkn prev treat deta	tment Iding own ious ment ils)	All TB cases
	N	(%) '	N	(%) '	N	(%) '	N	(%) ^d	N	(%) ^d	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
Belgium ^e	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
Denmark ^e	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	<i>(8.3)</i>	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
Norway ^e	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 3 4 2	(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 6 4 2	(13.4)	4 843	(9.7)	2 595	(53.6)	288	(5.9)	470	(9.7)	1 4 9 0	(30.8)	49 752
Non-EU/EEA	20 201	(1017)		(1911)	1015	(117		(5510)		(0.07)	11.4	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. 170	(2010)	17 17-
Albania	383	(93.0)	-	-	29	(7.0)	29	(100.0)	-	-	-	-	0	(0.0)	412
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	1 758	(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)	-	-	-	-	400	(0.0)	580
Georgia	1 897	(77.4)	-	-	554	(22.6)	272	(49.1)	-	-	-	-	282	(50.9)	2 451
Israel	211	(97.2)	-	-	6	(22.0)	6	(100.0)	_	_	_	-	0	(0.0)	2 457
Kazakhstan	8 687	(66.9)	-	-	4 303	(33.1)	3 814	(100.0)	-	-	-	-	489	(11.4)	12 990
Kyrgyzstan	5 096	(72.4)	-	-	4 303	(27.6)	3 814 1 042	(53.6)	-	-	-	-	489 901	(46.4)	7 039
Monaco	5 096	(/2.4)	-	-	1943	(27.6)	1042	(0.0)	-	-	-	-	901	(40.4)	/ 039
Montenegro	71		-	-	11		9	(81.8)	-	-	-	_	2	(18.2)	82
North Macedonia	/1	(86.6) (90.5)	-	-	19	(13.4) (9.5)	9 19	(100.0)	-	-	-	-	2	(18.2)	199
North Maceuonia	100		-			(31.2)	570		-	-	-	-			
Penublic of Moldova	180				1 016		3/0	(56.1)	_	_	_	_	446	(43.9)	3 255 103 979
Republic of Moldova	2 239	(68.8)	-	-	1 016			(20.5)					20 651	(70 E)	
Russian Federation	2 239 60 531		-	-	43 448	(41.8)	12 797	(29.5)	-	-	-	-	30 651	(70.5)	
Russian Federation San Marino	2 239 60 531 0	(68.8) (58.2) –	-	-	43 448 0	(41.8)	<i>12 797</i> 0	-	-	-	-	-	0	-	0
Russian Federation San Marino Serbia	2 239 60 531	(68.8)			43 448	(41.8)	12 797	(29.5) - (54.9)		-				(70.5) – (45.1)	
Russian Federation San Marino Serbia Serbia excluding	2 239 60 531 0	(68.8) (58.2) –	-	-	43 448 0	(41.8)	<i>12 797</i> 0	-	-	-	-	-	0	-	0
Russian Federation San Marino Serbia Serbia excluding Kosovo ¹	2 239 60 531 0 1 017 470	(68.8) (58.2) - (86.3) (82.9)	- - -		43 448 0 162 97	(41.8) - (13.7) (17.1)	<i>12 797</i> 0 89 31	- (54.9) (32.0)	- - -	- -		- -	0 73 66	(45.1) (68.0)	0 1 179 567
Russian Federation San Marino Serbia Serbia excluding Kosovo ³ Kosovo ³	2 239 60 531 0 1 017 470 547	(68.8) (58.2) - (86.3) (82.9) (89.4)			43 448 0 162 97 65	(41.8) - (13.7) (17.1) (10.6)	12 797 0 89 31 58	- (54.9) (32.0) (89. 2)	- - -				0 73 66 7	- (45.1) (68.0) (10.8)	0 1 179 567 612
Russian Federation San Marino Serbia Serbia excluding Kosovo ¹ Kosovo ¹ Switzerland	2 239 60 531 0 1 017 470 547 402	(68.8) (58.2) - (86.3) (82.9) (89.4) (92.4)			43 448 0 162 97 65 33	(41.8) - (13.7) (17.1) (10.6) (7.6)	12 797 0 89 31 58 0	- (54.9) (32.0) (89.2) (0.0)	- - - -	-			0 73 66 7 33	- (45.1) (68.0) (10.8) (100.0)	0 1 179 567 612 435
Russian Federation San Marino Serbia Serbia excluding Kosovo ¹ Kosovo ¹ Switzerland Tajikistan	2 239 60 531 0 1 017 470 547 402 5 159	(68.8) (58.2) - (86.3) (82.9) (89.4) (92.4) (86.3)	- - - - -		43 448 0 162 97 65 33 817	(41.8) - (13.7) (17.1) (10.6) (7.6) (13.7)	12 797 0 89 31 58 0 596	- (54.9) (32.0) (89.2) (0.0) (72.9)	- - - - - - -	-			0 73 66 7 33 221	- (45.1) (68.0) (10.8) (100.0) (27.1)	0 1 179 567 612 435 5 976
Russian Federation San Marino Serbia Serbia excluding Kosovo ¹ Switzerland Tajikistan Turkey	2 239 60 531 0 1 017 470 547 402 5 159 10 669	(68.8) (58.2) - (86.3) (82.9) (89.4) (92.4) (86.3) (93.6)			43 448 0 162 97 65 33 817 732	(41.8) - (13.7) (17.1) (10.6) (7.6) (13.7) (6.4)	12 797 0 89 31 58 0 596 578	- (54.9) (32.0) (89.2) (0.0) (72.9) (79.0)	- - - - - - - -				0 73 66 7 33 221 154	- (45.1) (68.0) (10.8) (100.0) (27.1) (21.0)	0 1 179 567 612 435 5 976 11 401
Russian Federation San Marino Serbia Serbia excluding Kosovo ¹ Switzerland Tajikistan Turkey Turkmenistan	2 239 60 531 0 1 017 470 547 402 5 159 10 669 1 900	(68.8) (58.2) - (86.3) (82.9) (82.9) (89.4) (92.4) (86.3) (93.6) (66.4)	- - - - - - - - - - - - - -		43 448 0 162 97 65 33 817 732 963	(41.8) (13.7) (17.1) (10.6) (7.6) (13.7) (6.4) (33.6)	12 797 0 89 31 58 0 596 578 217	- (54.9) (32.0) (89.2) (0.0) (72.9) (79.0) (22.5)			- - - - - - -		0 73 66 7 33 221 154 746	- (45.1) (68.0) (10.8) (100.0) (27.1) (21.0) (77.5)	0 1179 567 612 435 5976 11 401 2 863
Russian Federation San Marino Serbia Serbia excluding Kosovo ¹ Kosovo ² Switzerland Tajikistan Turkey Turkmenistan Ukraine	2 239 60 531 0 1 017 470 547 402 5 159 10 669 1 900 20 632	(68.8) (58.2) - (86.3) (82.9) (89.4) (92.4) (86.3) (93.6) (66.4) (72.3)	- - - - - - - - - - - - - - - - - - -	-	43 448 0 162 97 65 33 817 732 963 7 907	(41.8) - (13.7) (17.1) (10.6) (7.6) (13.7) (6.4) (33.6) (27.7)	12 797 0 89 31 58 0 596 578 217 4 747	- (54.9) (32.0) (89.2) (0.0) (72.9) (79.0) (22.5) (60.0)					0 73 66 7 33 221 154 746 3 160	- (45.1) (68.0) (10.8) (100.0) (27.1) (21.0) (77.5) (40.0)	0 1179 567 612 435 5 976 11 401 2 863 28 539
Russian Federation San Marino Serbia Serbia excluding Kosovo ¹ Kosovo ² Switzerland Tajikistan Turkey Turkmenistan Ukraine Uzbekistan	2 239 60 531 0 1 017 470 547 402 5 159 10 669 1 900 20 632 14 517	(68.8) (58.2) - (86.3) (82.9) (89.4) (92.4) (86.3) (93.6) (66.4) (72.3) (77.3)			43 448 0 162 97 65 33 817 732 963 7 907 4 257	(41.8) - (13.7) (17.1) (10.6) (7.6) (13.7) (6.4) (33.6) (27.7) (22.7)	12797 0 89 31 58 0 596 578 217 4747 1755	- (54.9) (32.0) (89.2) (0.0) (72.9) (79.0) (22.5) (60.0) (41.2)			- - - - - - - - - - - - - - - - - - -		0 73 66 7 33 221 154 746 3 160 2 502	- (45.1) (68.0) (10.8) (100.0) (27.1) (21.0) (77.5) (40.0) (58.8)	0 1179 567 612 435 5 976 11 401 2 863 28 539 18 774
Russian Federation San Marino Serbia Serbia excluding Kosovo ¹ Kosovo ² Switzerland Tajikistan Turkey Turkmenistan Ukraine	2 239 60 531 0 1 017 470 547 402 5 159 10 669 1 900 20 632	(68.8) (58.2) - (86.3) (82.9) (89.4) (92.4) (86.3) (93.6) (66.4) (72.3)	- - - - - - - - - - - - - - - - - - -	-	43 448 0 162 97 65 33 817 732 963 7 907	(41.8) - (13.7) (17.1) (10.6) (7.6) (13.7) (6.4) (33.6) (27.7)	12 797 0 89 31 58 0 596 578 217 4 747	- (54.9) (32.0) (89.2) (0.0) (72.9) (79.0) (22.5) (60.0)					0 73 66 7 33 221 154 746 3 160	- (45.1) (68.0) (10.8) (100.0) (27.1) (21.0) (77.5) (40.0)	0 1179 567 612 435 5 976 11 401 2 863 28 539

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

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. b In previous reports defined as "defaulted". * Proportion of all 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).

			Pulmona	iry							Tetal
Country	Pulmonary	/ only	Pulmonary extrapulm		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)	4 791
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 3 4 6
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	1 1 3 3	(64.0)	178	(10.1)	1 311	(74.0)	457	(25.8)	3	(0.2)	1771
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)	1 1 4 1	(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

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

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

				Ne	w ^b and relay		es						
Country/area					Pulmo Labora	<u> </u>	Clinic	ally	Extrapuli	nonary	Previously case		All TB cases
country/area	N	(%) '	N	(%)°	confir		diagno		Exclaput	lionary			
					N	(%) ⁵	N	(%) ^g	N	(%)°	N	(%) ʻ	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)	1091	(32.8)	1 5 4 1	(31.6)	247	(4.8)	5 116
Germany	4 628	(96.6)	3 335	(72.1) (87.1)	2 952	(88.5)	383	(11.5)	1 2 9 3	(27.9)	163	(3.4)	4 791
Greece	434 528	(94.6)	378 511	(96.8)	308 291	(81.5)	70 220	(18.5) (43.1)	56 17	(12.9) (3.2)	25 24	(5.4) (4.3)	459 552
Hungary Iceland	13	(95.7) (100.0)	7	(53.8)	4	(56.9) (57.1)	3	(43.1)	6	(46.2)	0	(0.0)	13
Ireland ^h	247	(100.0)	186	(75.3)	154		32	(42.9)	61	(24.7)	19	(0.0)	266
Italy	3 185	(92.9)	2 475	(75.3)	2 027	(82.8) (81.9)	448	(17.2)	710	(24.7)	161	(4.8)	3 3 4 6
Latvia	-	(95.2)	2 4/ 5	(/7.7)	2 027	(01.9)	440	(10.1)	-	(22.3)	-	(4.0)	5 540
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)	/5	(18.8)	2	(4.9)	50
Malta	98	(100.0)	76	(77.6)	45	(59.2)	31	(40.8)	22	(22.4)	0	(0.0)	98
Netherlands	746	(100.0)	432	(77.0)	364	(84.3)	68	(40.8)	314	(42.1)	13	(0.0)	759
Norway ^h	153	(98.5)	100	(65.4)	92	(92.0)	8	(13.7)	53	(34.6)	12	(7.3)	165
Poland	4 983	(92.7)	4 742	(95.2)	3 760	(79.3)	982	(20.7)	241	(34.0)	338	(6.4)	5 321
Portugal	1720	(97.1)	1 272	(74.0)	1073	(84.4)	199	(15.6)	448	(26.0)	51	(0.4)	1771
Romania	11 083	(95.3)	9 528	(74.0)	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	(14.0)	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 4 4 9	(83.2)	494	(16.8)	1 128	(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 7 2 4	(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	.,	(******		(110)		(0.1.07		(,		()		(1.0)	
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 0 2 9	(91.9)	1931	(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)	1 749	(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
Kosovo ¹	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 4 2 9	(9.6)	3 160	(11.1)	28 539
Uzbekistan	16 272	(86.7)	10 570	(65.0)	6 328	<i>(59.9)</i>	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

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

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

 * 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/).

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		All la	boratory-co	nfirmed ca	sesª								
Country	Meeting or smear-posit nucleic aci positive cr	tive and d test-	Meeting o culture-p criter	ositive	Meeting criter		Confirme	d cases ⁶	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)	1 3 4 4
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)	1045	(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 7 9 7	(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 0 0 3	(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 0 2 2	(10.1)	11 362	(22.8)	49 752

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

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

		0	-4			5	-14			15	-24			25-	44		
Country/area	N	(%)	Rate per 100 000	M/F ratio	N	(%)	Rate per 100 000	M/F ratio	N	(%)	Rate per 100 000	M/F ratio	N	(%)	Rate per 100 000	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	1670	(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	1 1 3 6	(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 2 5 3	(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	1 3 2 4	(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 2 5 2	(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 Kosovo ¹	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	
Kosovo ¹	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	- 0.7	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	(42.7)	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	1.4	5 177	(31.8)	48.6	1.3	
Subtotal non-EU/EEA	1938	(1.2)	6.3	1.2	4 882	(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	(1.2)	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	
		(11.0)	7.0	1.0	~ ~ 14	(0,0)	و دو	1.0		(117)	1717	10 1	11313	(1141)	33.2		

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

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. ^b 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).

188 (31.1) 51.5 1.5 143 (23.6) 91.5 1.4 0 (0.0) 605 1.2 Kosovi 104 (25.9) 4.3 1.3 70 (17.4) 4.3 1.9 0 (0.0) 402 1.2 Switzerland 1205 (20.9) 91.3 1.0 523 (9.1) 181.8 0.9 0 (0.0) 402 1.2 Switzerland 3496 (31.1) 20.2 1.7 2320 (20.6) 31.9 1.3 0 (0.0) 11247 1.4 Turkey 666 (32.1) 64.5 1.9 165 (8.0) 60.5 0.9 0 (0.0) 2073 1.5 Turkmenistu 8871 (35.0) 74.2 3.3 2058 (8.1) 28.0 1.3 0 (0.0) 25379 2.4 Ukraine 4651 (28.6) 78.6 1.4 2381 (14.6) 157.1 0.9 0 (0.0) 16272	
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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 (1999).

Table 10. TB cases by	origin, European	Region, 2019
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Countryloroo	Origin	Nati	ve	Forei	gn	Unknown	origin	All TB cases
Country/area	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	(13.4)	3 3 4 6
Latvia	Birtilplace	-	(41.0)	-	(30.2)		(2.1)	5 540
Liechtenstein	_	-	_	-	_	-	_	-
	Pirthalaca		(09 5)		(1 5)		(0, 0)	1050
Lithuania	Birthplace	1 0 4 2	(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	1 3 5 0	(76.2)	419	(23.7)	2	(0.1)	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	65	(64.4)	36	(35.6)	0	(0.0)	101
Spain	Birthplace	2 2 4 7	(54.1)	1 5 3 9	(37.1)	364	(8.8)	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)	1 332	(2.7)	49 752
Non-EU/EEA								
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
	Birtilplace	- 100	(100.0)	-	(0.0)	_	_	560
Georgia	Distinutions		(12, 4)		(0(()	-	_	-
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
Serbia	-	1 18 4	(99.6)	5	(0.4)	-	-	1 189
Serbia excluding Kosovo ¹	Citizenship	569	(99.1)	5	(0.9)	-	-	574
Kosovo	Birthplace	615	(100.0)	0	(0.0)	-	-	615
Switzerland	Birthplace	148	(31.8)	318	(68.2)	-	-	466
Tajikistan	-	-	-	-	-	-	-	-
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	2ipiuce	192 741	(97.8)	4 270	(2.2)	0	(0.0)	197 011
Total European Region		223 980	(90.8)	21 451	(8.7)	1 332	(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).

Country/area	Source of data	Coverage	Bacteriologically co cases ^a	onfirmed	Cases with DST re least for RIF a		Cases with DST res least RIF		
country/area	Source or uata	Coverage	N	(%)	N N	(%)	N	(%)	
EU/EEA									
Austria	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)	
Hungary	TESSy	National	285	(53.3)	257	(90.2)	267	(93.7)	
Iceland	TESSy	National	4	(57.1)	4	(100.0)	4	(100.0)	
Ireland	TESSy	National	149	(87.1)	128	(85.9)	130	(87.2)	
Italy	NRL-TME ^d	Partial	2 134	(84.1)	1 7 3 7	(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)	
Norway	TESSy	National	100		87	(87.0)	89	(89.0)	
Poland	TESSy	National		(91.7)					
	,		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	TESSy	National	8 315	(82.6)	7 4 4 2	(89.5)	7 592	(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)	
Non-EU/EEA		N 41 - 1		(=====)		(10.0)		(10.0)	
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)	1 793	(97.4)	
Israel	NRL-TME	National	111	(69.8)	105	(94.6)	105	(94.6)	
Kazakhstan	NRL-TME	National	9 309	(79.4)	6 527	(70.1)	8 937	(96.0)	
Kyrgyzstan	NRL-TME	National	3 609	(67.1)	3 310	(91.7)	3 378	(93.6)	
Monaco	-	-	-	-	-	-	-	-	
Montenegro	NRL-TME	National	71	(94.7)	61	(85.9)	70	(98.6)	
North Macedonia	NRL-TME	National	140	(86.4)	120	(85.7)	140	(100.0)	
Republic of Moldova	NRL-TME	-	2 180	(73.5)	1 539	(70.6)	1 687	(77.4)	
Russian Federation	NRL-TME	National	54 751	(63.5)	50 476	(92.2)	50 476	(92.2)	
San Marino	-	National	0	-	-	-	-	-	
Serbia	NRL-TME	National	577	(61.4)	242	(41.9)	485	(84.1)	
Serbia excluding Kosovo ¹	NRL-TME	National	334	(67.3)	242	(72.5)	242	(72.5)	
Kosovo ¹	NRL-TME	National	243	(54.9)	0	(0.0)	243	(100.0)	
		Subnational	294	(86.5)	216	(73.5)	245	(73.8)	
	NRL-INF		2/7		2 002	(70.8)	2 828	(100.0)	
Switzerland	NRL-TME		2 8 2 8	(67.2)				(100.0/	
Switzerland Tajikistan	NRL-TME	National	2 828	(67.2)				(275)	
Switzerland Tajikistan Turkey	NRL-TME NRL-TME	National National	2 828 5 915	(67.2) (79.6)	5 087	(86.0)	5 178	(87.5)	
Switzerland Tajikistan Turkey Turkmenistan	NRL-TME NRL-TME -	National National –	5 915 -	(79.6) -	5 087 -	(86.0)	5 178 -	-	
Switzerland Tajikistan Turkey Turkmenistan Ukraine	NRL-TME NRL-TME - NRL-TME	National National – National	5 915 - 19 129	(79.6) - (73.5)	5 087 - 18 459	(86.0) - (96.5)	5 178 - 18 459	- (96.5)	
Switzerland Tajikistan Turkey Turkmenistan Ukraine Uzbekistan	NRL-TME NRL-TME - NRL-TME NRL-TME	National National – National National	5 915 - 19 129 7 394	(79.6) - (73.5) (61.6)	5 087 - 18 459 7 394	(86.0) - (96.5) (100.0)	5 178 - 18 459 7 394	- (96.5) (100.0)	
Switzerland Tajikistan Turkey Turkmenistan Ukraine	NRL-TME NRL-TME - NRL-TME	National National – National	5 915 - 19 129	(79.6) - (73.5)	5 087 - 18 459	(86.0) - (96.5)	5 178 - 18 459	- (96.5)	

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

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: isonizzid. MDR-TB: multidrug-resistant tuberculosis.

MDK-18: multiturg-resistant tuberculosis. N: no. 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	t to RIF	Cases resistan anti-TB dr	t to any ug ^b	MDR-TB cas	ses	All pulmonary TB cases	Reporting
N	(%)	N	(%)	N	(%)	N	completeness
	(, -)		(0, 0)	2	(1.2)	242	V
4	(1.5)	23	(8.8)	3	(1.2)	342 692	Y Y
13	(2.4)	31	(5.7)	12			Ϋ́
14	(3.1)	34	(7.6)	11	(2.5)	1.066	
2	(1.1)	7	(3.8)	2	(1.1)	239	Y Y
1	(2.0)	4	(8.2)	1	(2.0)	62	
8	(2.5)	35	(11.0)	8	(2.5)	426	Y
3	(1.6)	6	(3.2)	3	(1.6)	224	Y
29	(22.8)	50	(41.0)	27	(22.1)	139	Y
3	(2.4)	13	(10.4)	2	(1.6)	158	Y
60	(100.0)	60	(100.0)	60	(100.0)	3 476	Y
78	(3.0)	283	(11.1)	67	(2.6)	3 435	Y
7	(3.5)	36	(18.2)	6	(3.0)	396	Y
13	(4.9)	37	(14.4)	12	(4.7)	535	Y
0	(0.0)	0	(0.0)	0	(0.0)	7	Y
3	(2.3)	14	(10.9)	2	(1.6)	171	Y
45	(2.6)	-	-	38	(2.2)	2 537	N
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
170	(18.8)	291	(32.2)	157	(17.3)	982	Y
1	(3.8)	7	(26.9)	1	(3.8)	40	Y
0	(0.0)	2	(5.6)	0	(0.0)	76	Y
7	(2.3)	17	(5.7)	6	(2.0)	432	Y
2	(2.2)	10	(11.5)	2	(2.3)	109	Y
44	(1.2)	249	(7.0)	40	(1.1)	5 075	Y
9	(1.8)	60	(11.9)	5	(1.0)	1 311	Y
374	(4.9)	636	(8.5)	302	(4.1)	10 067	Ŷ
5	(4.7)	8	(7.5)	5	(4.7)	179	Y
0	(0.0)	2	(2.4)	0	(0.0)	89	Y
10	(1.6)	66	(10.7)	8	(1.3)	3 009	Y
6	(2.3)	30	(11.4)	4	(1.5)	301	Y
34	(1.6)	238	(11.0)	27	(1.3)	2 914	Y
945	(4.0)	2 249	(10.4)	811	(3.5)	38 489	
	(10.0)		(()		(1.)		
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	Ŷ
752	(18.4)	533	(14.2)	414	(11.0)	5 600	Y
874	(43.4)	561	(27.9)	808	(40.1)	2 115	Ŷ
1	(0.3)	3	(1.2)	0	(0.0)	502	Y
304	(17.0)	230	(16.3)	229	(16.2)	2 015	Ŷ
9	(8.6)	14	(13.3)	9	(8.6)	159	Y
2 980	(33.3)	2 013	(30.8)	1569	(24.0)	11 723	Y
1 303	(38.6)	1 000	(30.2)	1 0 9 7	(33.1)	5 378	Y
-	-	-	-	-	-	-	Ν
0	(0.0)	0	(0.0)	0	(0.0)	75	Y
1	(0.7)	1	(0.8)	1	(o.8)	162	Y
559	(33.1)	402	(26.1)	441	(28.7)	2 967	Ν
26 445	(52.4)	18 286	(36.2)	24 443	(48.4)	86 181	Y
-	-	-	-	-	-	-	-
2	(0.4)	2	(0.8)	2	(0.8)	939	Ŷ
2	(0.8)	4	(1.7)	2	(0.8)	496	У
0	(0.0)	0	(0.0)	0	(0.0)	443	Ŷ
9	(4.1)	13	(6.0)	7	(3.2)	340	N
878	(31.0)	473	(23.6)	308	(15.4)	4 209	Ŷ
150	(2.9)	487	(9.6)	121	(2.4)	7 433	Ŷ
-	(2.))	-	(9.0)	-	(2.4)	- 435	N
5 936	(32.2)	3 886	(21.1)	4 490	(24.3)	26 032	Y
1 082	(14.6)	1 665	(22.5)	4 490 978	(13.2)	12 008	Ŷ
41 354	(38.3)	29 656	(22.5)	9/8 34 975	(13.2)	12 008 168 693	-
	(30.3)	29 050	(20./)	24 9/3	(33.9)	100 093	
42 299	(32.2)	31 9 0 5	(25.2)	35 786	(28.3)	207 182	-

* 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. * For 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. * Data are considered complete when national coverage is 100% OR culture 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.

				New							Pr	eviously t	eated			
Country/area	cases wit results		RR/MDR-T	B cases	bacteriol confir pulmon cas	med ary TB	pulmona case		cases wi results		RR/MDR-T	B cases	bacteriolo confir pulmona case	med ary TB	pulmon; case	
	N	(%) '	N	(%) ^d	N	(%)°	N	(%) f	N	(%) '	N	(%) ⁴	N	(%)°	N	(%) f
U/EEA																
lustria	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)
Zechia	308	(91.4)	8	(2.6)	337	(82.8)	407	(95.5)	11	(78.6)	0	(0.0)	14	(73.7)	19	(4.5)
)enmark ^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)
stonia	101	(100.0)	16	(15.8)	101	(87.8)	115	(82.7)	20	(100.0)	10	(50.0)	20	(83.3)	24	(17.3)
inland	121	(96.0)	2	(1.7)	126	(85.7)	147	(95.5)	3	(100.0)	0	(0.0)	3	(42.9)	7	(4.5)
rance	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)
lungary	243	(95.3)	7	(2.9)	255	(53.1)	480	(89.7)	24	(80.0)	5	(20.8)	30	(54.5)	55	(10.3)
celand	4	(100.0)	0	(0.0)	4	(57.1)	7	(100.0)	0	-	0	-	0	-	0	(0.0)
reland ^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)
taly	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.iechtenstein	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ithuania	725	(100.0)	90	(12.4)	725	(90.4)	802	(81.7)	180	(100.0)	67	(37.2)	180	(100.0)	180	(18.3)
uxembourg	16	(76.2)	0	(0.0)	21	(87.5)	24	(96.0)	0	-	0	-	0	(0.0)	1	(4.0)
Malta	36	(97.3)	0	(0.0)	37	(48.7)	76	(100.0)	0	-	0	-	0	-	0	(0.0)
Vetherlands	286	(89.7)	6	(2.1)	319	(77.6)	411	(95.4)	13	(100.0)	0	(0.0)	13	(65.0)	20	(4.6)
lorway ^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 2 1 0	(92.3)	39	(56.5)	2	(5.1)	69	(68.3)	101	(7.7)
Romania	5 887	(93.3)	113	(1.9)	6 3 0 9	(80.2)	7 866	(78.1)	1 702	(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)
Jnited 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)
ion-EU/EEA			(1			
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	-		-
Irmenia				()						(400.0)	27	(40.9)				
ellim	233	(97.5)	38	(16.3)	239	(62.7)	381	(/1.8)	66	(100.0)	27		66	(44.0)	150	(28.2)
		(97.5) (100.0)	38	(16.3)				(71.8) (49.7)	66 2 183	(100.0) (98.4)						(28.2) (50.3)
zerbaijan	1 911	(100.0)	38 219	(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)
Azerbaijan Belarus	1 911 1 490	(100.0) (100.0)	38	(11.5) <i>(37.7)</i>	1 911 1 490	(68.7) (94.1)	2 783 1 584	(49.7) (74.9)	2 183 <i>523</i>	(98.4) (100.0)	533 <i>313</i>	(24.4) <i>(59.8)</i>	2 219 523	(78.8) (98.5)	2 817 <i>531</i>	(50.3) (25.1)
Azerbaijan Belarus Bosnia and Herzegovina	1 911	(100.0) (100.0) (95.9)	38 219 <i>561</i>	(11.5) (<i>37.7</i>) (0.3)	1 911	(68.7) (94.1) (69.5)	2 783 1 584 459	(49.7) (74.9) (91.4)	2 183 <i>523</i> 36	(98.4) (100.0) (100.0)	533 <i>313</i> 0	(24.4) (59.8) (0.0)	2 219 <i>523</i> 36	(78.8) (98.5) (83.7)	2 817 <i>531</i> 43	(50.3) (25.1) (8.6)
Azerbaijan Belarus Bosnia and Herzegovina Georgia	1 911 <i>1 490</i> 306	(100.0) (100.0)	38 219 <i>561</i> 1	(11.5) <i>(37.7)</i>	1 911 <i>1 490</i> 319	(68.7) (94.1)	2 783 1 584	(49.7) (74.9)	2 183 <i>523</i>	(98.4) (100.0)	533 <i>313</i>	(24.4) <i>(59.8)</i>	2 219 523	(78.8) (98.5)	2 817 <i>531</i>	(50.3) (25.1) (8.6) (25.5)
Azerbaijan Belarus Bosnia and Herzegovina Georgia srael	1 911 <i>1 490</i> 306 <i>1 360</i> 105	(100.0) (100.0) (95.9) (99.1) (94.6)	38 219 561 1 165 9	(11.5) (37.7) (0.3) (12.1) (8.6)	1 911 1 490 319 1 372 111	(68.7) (94.1) (69.5) (91.3) (72.5)	2 783 1 584 459 1 502 153	(49.7) (74.9) (91.4) (74.5) (96.2)	2 183 523 36 433 0	(98.4) (100.0) (100.0) (92.9) –	533 <i>313</i> 0 <i>139</i> 0	(24.4) (59.8) (0.0) (32.1) –	2 219 523 36 466 0	(78.8) (98.5) (83.7) (90.8) –	2 817 531 43 513 6	(50.3) (25.1) (8.6) (25.5) (3.8)
Azerbaijan Belarus Bosnia and Herzegovina Georgia srael Kazakhstan	1 911 1 490 306 1 360 105 5 687	(100.0) (100.0) (95.9) (99.1) (94.6) (98.2)	38 219 561 1 165 9 1534	(11.5) (37.7) (0.3) (12.1) (8.6) (27.0)	1 911 1 490 319 1 372 111 5 789	(68.7) (94.1) (69.5) (91.3) (72.5) (76.6)	2 783 1 584 459 1 502 153 7 562	(49.7) (74.9) (91.4) (74.5) (96.2) (64.5)	2 183 523 36 433 0 3 250	(98.4) (100.0) (100.0) (92.9) - (92.3)	533 313 0 139 0 1 446	(24.4) (59.8) (0.0) (32.1) - (44.5)	2 219 523 36 466 0 3 520	(78.8) (98.5) (83.7) (90.8) - (84.6)	2 817 531 43 513 6 4 161	(50.3) (25.1) (8.6) (25.5) (3.8) (35.5)
Azerbaijan Belarus Bosnia and Herzegovina Georgia srael Kazakhstan Kyrgyzstan	1 911 <i>1 490</i> 306 <i>1 360</i> 105	(100.0) (100.0) (95.9) (99.1) (94.6)	38 219 561 1 165 9	(11.5) (37.7) (0.3) (12.1) (8.6)	1 911 1 490 319 1 372 111	(68.7) (94.1) (69.5) (91.3) (72.5)	2 783 1 584 459 1 502 153	(49.7) (74.9) (91.4) (74.5) (96.2)	2 183 523 36 433 0	(98.4) (100.0) (100.0) (92.9) –	533 <i>313</i> 0 <i>139</i> 0	(24.4) (59.8) (0.0) (32.1) –	2 219 523 36 466 0	(78.8) (98.5) (83.7) (90.8) –	2 817 531 43 513 6	(50.3) (25.1) (8.6) (25.5) (3.8)
Azerbaijan Belarus Bosnia and Herzegovina Georgia srael Kazakhstan Kyrgyzstan Monaco	1 911 1 490 306 1 360 105 5 687 2 375 –	(100.0) (100.0) (95.9) (99.1) (94.6) (98.2) (93.2) -	38 219 561 1 165 9 1534 700 -	(11.5) (37.7) (0.3) (12.1) (8.6) (27.0) (29.5)	1 911 1 490 319 1 372 111 5 789 2 549 -	(68.7) (94.1) (69.5) (91.3) (72.5) (76.6) (66.4)	2 783 1 584 459 1 502 153 7 562 3 836 -	(49.7) (74.9) (91.4) (74.5) (96.2) (64.5) (71.3)	2 183 523 36 433 0 3 250 1 003 -	(98.4) (100.0) (100.0) (92.9) - (92.3) (94.6) -	533 313 0 139 0 1446 603 -	(24.4) (59.8) (0.0) (32.1) - (44.5) (60.1) -	2 219 523 36 466 0 3 520 1 060 -	(78.8) (98.5) (83.7) (90.8) - (84.6) (68.7) -	2 817 531 43 513 6 4 161 1 542 -	(50.3) (25.1) (8.6) (25.5) (3.8) (35.5) (28.7)
Azerbaijan Belarus Bosnia and Herzegovina Georgia Srael Kazakhstan Kyrgyzstan Jonaco Aontenegro	1 911 1 490 306 1 360 105 5 687 2 375 – 62	(100.0) (100.0) (95.9) (99.1) (94.6) (98.2) (93.2) - (100.0)	38 219 561 1 165 9 1534 700 - 0	(11.5) (37.7) (0.3) (12.1) (8.6) (27.0) (29.5) - (0.0)	1 911 1 490 319 1 372 111 5 789 2 549 - 62	(68.7) (94.1) (69.5) (91.3) (72.5) (76.6) (66.4) - (95.4)	2 783 1 584 459 1 502 153 7 562 3 836 - 65	(49.7) (74.9) (91.4) (74.5) (96.2) (64.5) (71.3) – (86.7)	2 183 523 36 433 0 3 250 1 003 - 8	(98.4) (100.0) (100.0) (92.9) - (92.3) (94.6) - (88.9)	533 313 0 139 0 1446 603 - 0	(24.4) (59.8) (0.0) (32.1) - (44.5) (60.1) - (0.0)	2 219 523 36 466 0 3 520 1 060 - 9	(78.8) (98.5) (83.7) (90.8) - (84.6) (68.7) - (90.0)	2 817 531 43 513 6 4 161 1 542 - 10	(50.3) (25.1) (8.6) (25.5) (3.8) (35.5) (28.7) – (13.3)
Azerbaijan Belarus Bosnia and Herzegovina Georgia Kazakhstan Kyrgyzstan Aonaco Aontenegro Iorth Macedonia	1 911 1 490 306 1 360 105 5 687 2 375 - 62 126	(100.0) (100.0) (95.9) (99.1) (94.6) (98.2) (93.2) - (100.0) (100.0)	38 219 561 1 165 9 1534 700 - 0 1	(11.5) (37.7) (0.3) (12.1) (8.6) (27.0) (29.5) - (0.0) (0.8)	1 911 1 490 319 1 372 111 5 789 2 549 - 62 126	(68.7) (94.1) (69.5) (91.3) (72.5) (76.6) (66.4) - (95.4) (86.9)	2 783 1 584 459 1 502 153 7 562 3 836 - 65 145	(49.7) (74.9) (91.4) (74.5) (96.2) (64.5) (71.3) – (86.7) (89.5)	2 183 523 36 433 0 3 250 1 003 - 8 8 14	(98.4) (100.0) (100.0) (92.9) - (92.3) (94.6) - (88.9) (100.0)	533 313 0 139 0 1446 603 - 0 0	(24.4) (59.8) (0.0) (32.1) - (44.5) (60.1) - (0.0) (0.0)	2 219 523 36 466 0 3 520 1 060 - 9 14	(78.8) (98.5) (83.7) (90.8) - (84.6) (68.7) - (90.0) (82.4)	2 817 531 43 513 6 4 161 1 542 - 10 10 17	(50.3) (25.1) (8.6) (25.5) (3.8) (35.5) (28.7) - (13.3) (10.5)
Azerbaijan Belarus Bosnia and Herzegovina Georgia Srael (azakhstan (yrgyzstan Aonaco Aontenegro Nontenegro North Macedonia Republic of Moldova	1 911 1 490 306 1 360 105 5 687 2 375 - 62 126 1 342	(100.0) (100.0) (95.9) (99.1) (94.6) (98.2) (93.2) - (100.0) (100.0) (96.3)	38 219 561 1 165 9 1534 700 - 0 1 441	(11.5) (37.7) (0.3) (12.1) (8.6) (27.0) (29.5) - (0.0) (0.8) (32.9)	1 911 1 490 319 1 372 111 5 789 2 549 - 62 126 1 393	(68.7) (94.1) (69.5) (91.3) (72.5) (76.6) (66.4) - (95.4) (86.9) (70.2)	2 783 1 584 459 1 502 153 7 562 3 836 - 65 145 1 983	(49.7) (74.9) (91.4) (74.5) (96.2) (64.5) (71.3) - (86.7) (89.5) (66.8)	2 183 523 36 433 0 3 250 1 003 - 8 14 345	(98.4) (100.0) (100.0) (92.9) - (92.3) (94.6) - (88.9) (100.0) (43.8)	533 313 0 139 0 1446 603 - 0 0 0 118	(24.4) (59.8) (0.0) (32.1) - (44.5) (60.1) - (0.0) (0.0) (34.2)	2 219 523 36 466 0 3 520 1 060 - 9 14 787	(78.8) (98.5) (83.7) (90.8) - (84.6) (68.7) - (90.0) (82.4) (80.0)	2 817 531 43 513 6 4 161 1 542 - 10 10 17 984	(50.3) (25.1) (8.6) (25.5) (3.8) (35.5) (28.7) - (13.3) (10.5) (33.2)
ezerbaijan Belarus Bosnia and Herzegovina Georgia Gazakhstan Gazakhstan Gyrgyzstan Aonaco Aontenegro Lorth Macedonia Bepublic of Moldova Bussian Federation	1 911 1 490 306 1 360 105 5 687 2 375 - 62 126 1 342 26 189	(100.0) (100.0) (95.9) (99.1) (94.6) (98.2) (93.2) - (100.0) (100.0) (96.3) (89.1)	38 219 561 1 165 9 1534 700 - 0 1 441 9246	(11.5) (37.7) (0.3) (12.1) (8.6) (27.0) (29.5) - (0.0) (0.8) (32.9) (35.3)	1 911 1 490 319 1 372 111 5 789 2 549 - 62 126	(68.7) (94.1) (69.5) (91.3) (72.5) (76.6) (66.4) - (95.4) (86.9) (70.2) (52.9)	2 783 1 584 459 1 502 153 7 562 3 836 - 65 145	(49.7) (74.9) (91.4) (74.5) (96.2) (64.5) (71.3) – (86.7) (89.5)	2 183 523 36 433 0 3 250 1 003 - 8 14 345 24 287	(98.4) (100.0) (100.0) (92.9) - (92.3) (94.6) - (88.9) (100.0) (43.8) (95.8)	533 313 0 139 0 1446 603 - 0 0	(24.4) (59.8) (0.0) (32.1) - (44.5) (60.1) - (0.0) (0.0) (34.2) (70.8)	2 219 523 36 466 0 3 520 1 060 - 9 14	(78.8) (98.5) (83.7) (90.8) (84.6) (68.7) - (90.0) (82.4) (80.0) (82.7)	2 817 531 43 513 6 4 161 1 542 - 10 10 17	(50.3) (25.1) (8.6) (25.5) (3.8) (35.5) (28.7) - (13.3) (10.5)
Azerbaijan Relarus Itosnia and Herzegovina Georgia Gazakhstan (azakhstan (azakhstan (azakhstan (azakhstan (azakhstan Aonaco Aonaco Aonaco Oth Macedonia Republic of Moldova Russian Federation Gan Marino	1 911 1 490 306 1 360 105 5 687 2 375 - 62 126 1 342 26 189 -	(100.0) (100.0) (95.9) (99.1) (94.6) (98.2) (93.2) - (100.0) (100.0) (100.0) (96.3) (89.1)	38 219 561 1 165 9 1534 700 - 0 1 441 9246 -	(11.5) (37.7) (0.3) (12.1) (8.6) (27.0) (29.5) - (0.0) (0.8) (32.9) (35.3) -	1911 1 490 319 1 372 111 5 789 2 549 - 62 126 1 393 29 389 -	(68.7) (94.1) (69.5) (91.3) (72.5) (76.6) (66.4) - (95.4) (86.9) (70.2) (52.9) -	2 783 1 584 459 1 502 153 7 562 3 836 - 65 145 1 983 55 532 -	(49.7) (74.9) (91.4) (74.5) (96.2) (64.5) (71.3) - (86.7) (89.5) (66.8) (64.4) -	2 183 523 36 433 0 3 250 1 003 - 8 14 345 24 287 -	(98.4) (100.0) (100.0) (92.9) - (92.3) (94.6) - (88.9) (100.0) (43.8) (95.8) -	533 313 0 139 0 1446 603 - 0 0 1446 146 603 - 0 0 118 17 199 -	(24.4) (59.8) (0.0) (32.1) - (44.5) (60.1) - (0.0) (0.0) (34.2) (70.8)	2 219 523 36 466 0 3 520 1 060 - 9 14 787 25 362 -	(78.8) (98.5) (83.7) (90.8) (84.6) (68.7) - (90.0) (82.4) (80.0) (82.7) -	2 817 531 43 513 6 4161 1542 - 10 17 984 30 649 -	(50.3) (25.1) (8.6) (25.5) (3.8) (35.5) (28.7) - (13.3) (10.5) (33.2) (35.6) -
Izerbaijan Relarus Iosnia and Herzegovina Georgia Gazakhstan (azakhstan (yrgyzstan Aontenegro Iorth Macedonia Eupublic of Moldova Iussian Federation Gan Marino Georgia	1911 1490 306 1360 105 5687 2375 - 62 126 1342 26189 - 440	(100.0) (100.0) (95.9) (99.1) (94.6) (98.2) (93.2) - (100.0) (100.0) (100.0) (96.3) (89.1) - (84.3)	38 219 561 1 165 9 1534 700 - 0 1 441 9246 - 2	(11.5) (37.7) (0.3) (12.1) (8.6) (27.0) (29.5) - (0.0) (0.8) (32.9) (35.3) - (0.5)	1911 1 490 319 1 372 111 5 789 2 549 - 62 126 1 393 29 389 - 522	(68.7) (94.1) (69.5) (91.3) (72.5) (76.6) (66.4) - (95.4) (86.9) (70.2) (52.9) - (66.2)	2 783 1 584 459 1 502 1 502 3 836 - - - - - - - - - - - - - - - - - - -	(49.7) (74.9) (91.4) (74.5) (96.2) (64.5) (71.3) - (86.7) (89.5) (66.8) (64.4) - (89.7)	2 183 523 36 433 0 3 250 1 003 - 8 8 14 345 24 287 - 45	(98.4) (100.0) (100.0) (92.9) (92.3) (94.6) - (88.9) (100.0) (43.8) (95.8) - (84.9)	533 313 0 139 0 1446 603 - 0 0 0 118 17 199 - 0	(24.4) (59.8) (0.0) (32.1) - (44.5) (60.1) - (0.0) (0.0) (34.2) (70.8) - (0.0)	2 219 523 36 466 0 3 520 1 060 - 9 14 787 25 362 - 53	(78.8) (98.5) (83.7) (90.8) - (84.6) (68.7) - (90.0) (82.4) (80.0) (82.7) - (58.2)	2 817 531 43 513 6 4161 1542 - 10 17 984 30 649 - 91	(50.3) (25.1) (8.6) (25.5) (3.8) (35.5) (28.7) - (13.3) (10.5) (33.2) (35.6) - (10.3)
Azerbaijan Relarus Iosnia and Herzegovina Georgia Srael Gazakhstan (yrgyzstan Aontenegro Iorth Macedonia Iorth Macedonia Iorth Macedonia Iorth Macedonia Lepublic of Moldova Lussian Federation Gan Marino Gerbia Serbia excluding Kosovo ¹	1911 1490 306 1360 105 5687 2375 - 62 2675 - 26189 - 440 226	(100.0) (100.0) (95.9) (99.1) (94.6) (98.2) (98.2) (93.2) - (100.0) (100.0) (100.0) (96.3) (89.1) - (84.3) (73.4)	38 219 561 1 165 9 1534 700 - 0 1 441 9246 - 2 2 2	(11.5) (37.7) (0.3) (12.1) (8.6) (27.0) (29.5) - (0.0) (0.8) (32.9) (35.3) - (0.5) (0.9)	1911 1490 319 1372 1111 5789 2549 - - 62 126 1393 29389 - 522 308	(68.7) (94.1) (69.5) (91.3) (72.5) (76.6) (66.4) - (95.4) (86.9) (70.2) (52.9) - (66.2) (77.8)	2 783 1 584 459 1 502 1 502 3 836 - - - - - - - - 789 396	(49.7) (74.9) (91.4) (74.5) (96.2) (64.5) (71.3) - (86.7) (89.5) (66.8) (64.4) - (89.7) (90.6)	2 183 523 36 433 0 3 250 1 003 - 8 8 14 345 24 287 - 45 16	(98.4) (100.0) (100.0) (92.9) (92.3) (94.6) - (88.9) (100.0) (43.8) (95.8) - (84.9) (66.7)	533 313 0 139 0 1446 603 - 0 0 0 148 17199 - 0 0 0	(24.4) (59.8) (0.0) (32.1) - (44.5) (60.1) - (0.0) (34.2) (70.8) - (0.0) (0.0)	2 219 523 36 466 0 3 520 1 060 - 9 9 14 787 25 362 - 53 24	(78.8) (98.5) (83.7) (90.8) - (84.6) (68.7) - (90.0) (82.4) (80.0) (82.7) - (58.2) (58.5)	2 817 531 43 513 6 4161 1 542 - 10 17 984 30 649 - 91 41	(50.3) (25.1) (8.6) (25.5) (3.8) (35.5) (28.7) (10.5) (10.5) (33.2) (35.6) (10.3) (9.4)
Izerbaijan Belarus Ioosnia and Herzegovina Georgia Iorada Iorada Iorada Iorada Iorada Iorth Macedonia Iorth Macedonia Iorth Macedonia Iorth Macedonia Iorth Macedonia Iorada Iora	1 911 1 490 306 1 360 105 5 687 2 375 - 62 126 1 342 2 6189 - 440 226 214	(100.0) (100.0) (95.9) (99.1) (94.6) (98.2) (98.2) (98.2) (98.2) (93.2) (93.2) (93.2) (93.2) (93.2) (93.2) (94.3) (84.3) (73.4) (100.0)	38 219 561 1 165 9 1534 700 - 0 1 441 9246 - 2 2 2 2 0	(11.5) (37.7) (0.3) (12.1) (8.6) (27.0) (29.5) - (0.0) (0.8) (32.9) (35.3) - (0.5) (0.9) (0.0)	1911 1490 319 1372 111 5789 2549 - 62 126 126 1393 29389 - 522 308 214	(68.7) (94.1) (69.5) (91.3) (72.5) (76.6) (66.4) - (95.4) (86.9) (70.2) (52.9) - (66.2) (77.8) (54.5)	2 783 1 584 459 1 502 153 7 562 3 836 - 65 1 983 55 532 - 7 89 396 393	(49.7) (74.9) (91.4) (74.5) (96.2) (64.5) (71.3) - (86.7) (89.5) (66.8) (64.4) - (89.7) (90.6) (88.7)	2 183 523 36 433 0 3 250 1 003 - 8 14 345 24 287 - 45 16 29	(98.4) (100.0) (100.0) (92.9) - (92.3) (94.6) - (88.9) (100.0) (43.8) - (88.9) (66.7) (100.0)	533 313 0 139 0 1446 603 - 0 0 118 17199 - 0 0 0 0 0 0 0 0	(24.4) (59.8) (0.0) (32.1) - (44.5) (60.1) - (0.0) (0.0) (34.2) (70.8) - (0.0) (0.0) (0.0) (0.0)	2 219 523 36 466 0 3 520 1 060 - 9 14 787 25 362 - 53 24 29	(78.8) (98.5) (83.7) (90.8) - (84.6) (68.7) - (90.0) (82.4) (80.0) (82.7) - (58.2) (58.5) (58.0)	2 817 531 43 513 6 4 161 1 542 - 10 7 7 84 30 649 - 91 41 50	(50.3) (25.1) (8.6) (25.5) (3.8) (35.5) (28.7) (13.3) (10.5) (33.2) (35.6) (10.3) (9.4) (11.3)
Izerbaijan Belarus Iosnia and Herzegovina Georgia Strael (azakhstan (yrgyzstan Jonaco Aontenegro Iorth Macedonia Iorth Macedonia Iorth Macedonia Iorth Macedonia Iorth Macedonia Iorth Macedonia Iorth Macedonia Sarbia Sarbia Serbia excluding Kosovo ¹ Kosovo ¹ Witzerland	1911 1490 306 1360 105 5687 2375 - 62 126 1342 26189 - 440 226 214 193	(100.0) (100.0) (95.9) (99.1) (94.6) (98.2) (98.2) (93.2) (93.2) (93.2) (100.0) (100.0) (96.3) (89.1) - (84.3) (73.4) (100.0) (95.5)	38 219 561 1 165 9 1534 700 - 0 1 441 9246 - 2 2 2 0 5	(11.5) (37.7) (0.3) (12.1) (8.6) (27.0) (29.5) (0.0) (0.8) (32.9) (35.3) (0.5) (0.5) (0.9) (0.0) (2.6)	1911 1490 319 1372 111 5789 - 62 126 1393 29389 - 522 308 214 202	(68.7) (94.1) (69.5) (91.3) (72.5) (76.6) (66.4) (95.4) (86.9) (70.2) (52.9) (52.9) (52.9) (52.9) (52.9) (52.5) (77.8) (54.5) (73.2)	2 783 1 584 459 1 502 3 836 - 65 145 1 983 55 532 - 789 396 393 276	(49.7) (74.9) (91.4) (74.5) (96.2) (64.5) (71.3) (89.5) (66.8) (64.4) (64.4) (89.7) (90.6) (88.7) (81.2)	2 183 523 36 433 0 3 250 1 003 - 8 14 345 24 287 - 5 16 29 24	(98.4) (100.0) (100.0) (92.9) - (92.3) (94.6) - (88.9) (100.0) (43.8) (95.8) - (84.9) (66.7) (100.0) (72.7)	533 313 0 139 0 1446 603 - 0 0 118 17199 - 0 0 0 0 0 0 0 4	(24.4) (59.8) (0.0) (32.1) - (44.5) (60.1) (0.0) (34.2) (70.8) - (0.0) (0.0) (0.0) (0.0) (0.0) (0.0)	2 219 523 36 466 0 3 520 1060 - 9 14 787 25 362 - 53 24 29 33	(78.8) (98.5) (83.7) (90.8) - (84.6) (68.7) - (90.0) (82.4) (80.0) (82.4) (80.0) (82.4) (80.0) (82.5) (58.5) (58.5) (58.6) (51.6)	2 817 531 43 513 6 4 161 1 542 - 10 17 984 30 649 - 91 41 50 64	(50.3) (25.1) (8.6) (25.5) (3.8) (35.5) (28.7) - (13.3) (10.5) (33.2) (33.2) (33.2) (10.3) (9.4) (11.3) (18.8)
Azerbaijan Belarus Bosnia and Herzegovina Georgia Srael (azakhstan (yrgyzstan Aonaco Aontenegro North Macedonia Republic of Moldova Lorth Macedonia Republic of Moldova Lussian Federation Gan Marino Gerbia Serbia excluding Kosovo ¹ Kosovo ¹ Gwitzerland Tajikistan	1911 1490 306 1360 105 5687 - 62 126 1342 26189 - 440 226 214 193 2318	(100.0) (100.0) (95.9) (99.1) (94.6) (98.2) (93.2) (93.2) (100.0) (100.0) (100.0) (96.3) (89.1) - (84.3) (73.4) (100.0) (95.5) (100.0)	38 219 561 1 165 9 1534 700 - 0 1 441 9246 - 2 2 2 0 5 672	(11.5) (37.7) (0.3) (12.1) (8.6) (27.0) (29.5) (0.0) (0.8) (32.9) (35.3) - (0.5) (0.5) (0.5) (0.0) (2.6) (29.0)	1911 1490 319 1372 111 5789 - 62 126 1393 29389 - 522 308 24 202 2318	(68.7) (94.1) (69.5) (91.3) (72.5) (76.6) (66.4) (95.4) (86.9) (70.2) (52.9) - (66.2) (77.8) (54.5) (73.2) (65.5)	2 783 1 584 459 1 502 1 502 3 836 - - - - - - - - - - - - - - - - - - -	(49.7) (74.9) (91.4) (74.5) (96.2) (64.5) (71.3) - (86.7) (89.5) (66.8) (64.4) - (89.7) (90.6) (88.7) (91.2) (84.1)	2 183 523 36 433 0 3 250 1 003 - - 8 14 345 24 287 - 45 16 6 29 24 510	(98.4) (100.0) (100.0) (92.9) - (92.3) (94.3) (94.3) (100.0) (43.8) (95.8) - (84.9) - (84.9) (100.0) (72.7) (100.0)	533 313 0 139 0 1446 603 - 0 0 1188 17199 - 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(24.4) (59.8) (0.0) (32.1) - (44.5) (60.1) (0.0) (0.0) (34.2) (70.8) - (0.0) (0.0) (0.0) (0.0) (0.0) (16.7) (40.4)	2 219 523 36 466 0 3 520 1 060 - 9 14 787 25 362 - 5 362 - 5 32 24 29 33 510	(78.8) (98.5) (83.7) (90.8) - (84.6) (68.7) - (90.0) (82.4) (80.0) (82.7) - (58.2) (58.2) (58.0) (51.6) (76.3)	2 817 531 43 513 6 4 161 1 542 - 10 17 984 30 649 - 981 41 50 64 668	(50.3) (25.1) (8.6) (25.5) (3.8) (35.5) (28.7) - (13.3) (10.5) (33.2) (33.2) (33.2) (33.2) (10.3) (9.4) (11.3) (18.8) (15.9)
ezerbaijan Relarus tosnia and Herzegovina eeorgia (azakhstan (yrgyzstan Aonaco Aontenegro Iorth Macedonia Republic of Moldova Lussian Federation an Marino Serbia excluding Kosovo' Kosovo' witzerland ajikistan urkey	1 911 1 490 306 1 360 105 5 687 - 62 126 1 342 26 189 - 440 226 189 - 440 226 193 2 318 4 797	(100.0) (100.0) (95.9) (99.1) (94.6) (98.2) (98.2) (98.2) (98.2) (100.0) (100.0) (100.0) (96.3) (89.1) - (84.3) (73.4) (73.4) (73.0,0) (95.5) (100.0) (88.0)	38 219 561 1 165 9 1534 700 - 0 1 441 9246 - 2 2 2 0 5 672 113	(11.5) (37.7) (0.3) (12.1) (8.6) (27.0) (29.5) (0.0) (0.8) (32.9) (35.3) (0.5) (0.5) (0.9) (0.0) (2.6)	1911 1490 319 1372 111 5789 2589 - 62 126 1393 29389 - 522 308 214 202 2318 5451	(68.7) (94.1) (69.5) (91.3) (72.5) (76.6) (66.4) (95.4) (86.9) (70.2) (52.9) - (66.2) (77.8) (74.8) (74.8) (54.5) (73.2) (65.5) (79.5)	2 783 1 584 459 1 502 1 502 3 836 - - - 65 1 45 1 983 55 532 - - 789 396 393 2276 3 541 6 857	(49.7) (74.9) (91.4) (74.5) (96.2) (64.5) (71.3) (89.5) (66.8) (64.4) (64.4) (89.7) (90.6) (88.7) (81.2)	2 183 523 36 433 0 3 250 1 003 7 - 8 14 345 24 287 - 45 16 29 24 2510 381	(98.4) (100.0) (100.0) (92.9) - (92.3) (94.6) - (88.9) (100.0) (43.8) (95.8) - (84.9) (66.7) (100.0) (72.7) (100.0) (82.1)	533 313 0 139 0 1446 603 - 0 0 0 118 17199 - 0 0 0 0 0 0 0 4 206 37	(24.4) (59.8) (0.0) (32.1) - (44.5) (60.1) (0.0) (0.0) (34.2) (70.8) - (0.0) (0.0) (0.0) (0.0) (0.0) (16.7) (40.4) (9.7)	2 219 523 36 466 0 3 520 1060 - 9 14 787 25 362 - 53 24 29 33	(78.8) (98.5) (83.7) (90.8) - (84.6) (68.7) - (90.0) (82.4) (80.0) (82.7) - (58.2) (58.2) (58.5) (58.5) (51.6) (76.3) (80.6)	2 817 531 43 513 6 4 161 1 542 - 10 17 984 30 649 - 91 41 50 64 668 576	(50.3) (25.1) (8.6) (25.5) (3.8) (35.5) (28.7) - (13.3) (10.5) (33.2) (33.2) (33.2) (10.3) (9.4) (11.3) (18.8)
Azerbaijan Belarus Bosnia and Herzegovina Georgia Srael (Azakhstan (Ayrgyzstan Aonaco Aontenegro North Macedonia Bepublic of Moldova Bepublic of Moldova Besian Federation Serbia Serbia excluding Kosovo ¹ Kosovo ¹ Witzerland Gikistan Gurkey Curkmenistan	1 911 1 490 306 1 360 105 5 687 2 375 - 62 126 1 342 26 189 - 440 226 289 - 440 226 2318 4 797 -	(100.0) (100.0) (95.9) (99.1) (94.6) (98.2) (93.2) (93.2) (93.2) (100.0) (100.0) (100.0) (96.3) (89.1) - (84.3) (73.4) (100.0) (95.5) (100.0) (95.5) (100.0) (95.5) (100.0) (95.5) (100.0) (95.5) (100.0) (95.5) (100.0) (95.5) (100.0) (95.5) (100.0) (95.5) (100.0) (95.5) (100.0) (38 219 561 1 165 9 1534 700 - 0 1 441 9246 - 2 2 2 2 0 5 672 113 -	(11.5) (37.7) (0.3) (12.1) (8.6) (27.0) (29.5) (0.0) (0.8) (32.9) (35.3) - (0.5) (0.9) (0.5) (0.9) (0.0) (2.6) (29.0) (2.4) -	1 911 1 490 319 1 372 111 5 789 2 549 - 62 126 1 393 29 389 - 522 308 214 202 2 318 5 451 -	(68.7) (94.1) (69.5) (91.3) (72.5) (76.6) (66.4) (70.2) (52.9) (70.2) (52.9) (77.8) (54.5) (77.8) (54.5) (73.2) (65.5) (79.5) (79.5)	2 783 1 584 459 1 502 153 7 562 3 836 - - 65 1 983 55 532 - 789 396 393 276 3 541 6 857 -	(49.7) (74.9) (91.4) (74.5) (96.2) (64.5) (71.3) (89.7) (89.5) (66.8) (64.4) - (89.7) (90.6) (88.7) (81.2) (84.1) (92.3) -	2 183 523 36 433 0 3 250 1 003 7 - 8 14 345 24 287 - 45 16 29 24 510 381 -	(98.4) (100.0) (100.0) (92.9) - (92.3) (94.6) - (88.9) (100.0) (43.8) (95.8) - (84.9) (66.7) (100.0) (72.7) (100.0) (82.1) -	533 313 0 139 0 1446 603 - 0 0 0 118 17 199 - 0 0 0 0 0 0 0 4 206 37 -	(24.4) (59.8) (0.0) (32.1) - (44.5) (60.1) (0.0) (0.0) (34.2) (70.8) - (0.0) (0.0) (0.0) (0.0) (0.0) (16.7) (40.4) (9.7) -	2 219 523 36 466 0 3 520 1 060 - 9 14 787 25 362 - 53 24 29 33 510 464 -	(78.8) (98.5) (83.7) (90.8) - (84.6) (68.7) - (90.0) (82.4) (80.0) (82.7) - (58.2) (58.2) (58.5) (58.5) (58.5) (58.5) (51.6) (76.3) (80.6) -	2 817 531 43 513 6 4 161 1 542 - 10 17 984 30 649 - 91 41 50 64 668 576 -	(50.3) (25.1) (8.6) (25.5) (3.8) (35.5) (10.3) (10.5) (33.2) (35.6) - (10.3) (9.4) (11.3) (11.3) (11.3) (15.9) (7.7)
Azerbaijan Belarus Bosnia and Herzegovina Seorgia Srael Kazakhstan Kyrgyzstan Wontaco Wontenegro North Macedonia Republic of Moldova Republic of Moldova Republic of Moldova Ressian Federation San Marino Serbia Serbia excluding Kosovo ¹ Kosovo ¹ Switzerland Tajikistan Linkey Furkmenistan	1 911 1 490 306 1 360 105 5 687 2 375 - 62 126 1 342 26 189 - 440 226 193 2 318 4 797 - 12 632	(100.0) (100.0) (95.9) (99.1) (94.6) (98.2) (98.2) (98.2) (98.2) (100.0) (100.0) (100.0) (96.3) (89.1) - (84.3) (73.4) (100.0) (95.5) (100.0) (95.5) (100.0) (95.9) (96.9)	38 219 561 1 165 9 1534 700 - 0 1 441 9246 - 2 2 2 2 2 2 0 5 5 672 113 - 3 438	(11.5) (37.7) (0.3) (12.1) (8.6) (27.0) (29.5) (0.0) (0.8) (32.9) (35.3) (0.5) (0.9) (0.0) (2.6) (29.0) (2.4) (27.2)	1911 1490 319 1372 111 5789 2549 - 62 126 1393 29389 - 522 308 2138 2138 2138 2138 2138 2138 2138 213	(68.7) (94.1) (69.5) (91.3) (72.5) (76.6) (66.4) (70.2) (52.9) (70.2) (52.9) (70.2) (52.9) (77.8) (54.5) (73.2) (65.5) (79.5) (79.5) (70.6)	2 783 1 584 459 1 502 153 7 562 3 836 - - 65 145 1 983 55 532 - 789 396 393 276 3 541 6 857 - 18 475	(49.7) (74.9) (91.4) (74.5) (96.2) (64.5) (71.3) (89.7) (89.5) (66.8) (64.4) - (89.7) (90.6) (88.7) (81.2) (81.2) (84.1) (92.3) - (71.0)	2 183 523 36 433 0 3 250 1 003 7 - - 8 14 345 24 287 - 45 16 29 24 25 16 29 24 510 381 - 5 827	(98.4) (100.0) (100.0) (92.9) - (92.3) (94.6) - (88.9) (100.0) (43.8) (95.8) - (84.9) (66.7) (100.0) (72.7) - (100.0) (82.1) - (95.7)	533 313 0 139 0 1446 603 - 0 0 0 118 17 199 - 0 0 0 0 0 0 0 4 206 37 - 2 498	(24.4) (59.8) (0.0) (32.1) - (44.5) (60.1) - (0.0) (0.0) (34.2) (70.8) - (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (16.7) (40.4) (9.7) - (42.9)	2 219 523 36 466 0 3 520 1060 - 9 14 787 25 362 - 53 24 29 33 3510 464 - 6 090	(78.8) (98.5) (83.7) (90.8) - (84.6) (68.7) - (90.0) (82.4) (80.0) (82.7) - (58.2) (58.2) (58.5) (58.5) (58.5) (58.6) (76.3) (80.6)	2 817 531 43 513 6 4 161 1 542 - 10 17 984 30 649 - 91 41 50 64 668 576 - 7 557	(50.3) (25.1) (8.6) (25.5) (3.8) (35.5) (10.3) (10.5) (33.2) (35.6) (10.3) (9.4) (11.3) (18.8) (15.9) (7.7) (29.0)
Azerbaijan Belarus Belarus Sosnia and Herzegovina Seorgia Srael Kazakhstan Kyrgyzstan Wontenegro Vorth Macedonia Republic of Moldova Republic of Moldova Republic of Moldova Ressian Federation San Marino Serbia Serbia excluding Kosovo ¹ Kosovo ¹ Switzerland Tajikistan Iurkey Turkmenistan Ukraine	1 911 1 490 306 1 360 105 5 687 2 375 - 62 126 1 342 26 189 - 4400 226 214 193 2 318 4 797 - 12 632 5 249	(100.0) (100.0) (95.9) (99.1) (94.6) (98.2) (98.2) (98.2) (98.2) (100.0) (100.0) (100.0) (96.3) (89.1) - (84.3) (73.4) (100.0) (95.5) (100.0) (96.9) (100.0)	38 219 561 1 165 9 1534 700 - 0 1 441 9246 - 2 2 2 2 2 2 0 5 5 5 72 113 - 3438 615	(11.5) (37.7) (0.3) (12.1) (8.6) (27.0) (29.5) (0.0) (0.8) (32.9) (35.3) (0.5) (0.9) (0.0) (2.6) (29.0) (2.4) (27.2) (11.7)	1911 1 490 319 1 372 111 5 789 2 549 - 62 126 1 393 29 389 - 522 308 214 202 2 318 214 202 2 318 2 5451 - 13 039 5 249	(68.7) (94.1) (69.5) (91.3) (72.5) (76.6) (66.4) (70.2) (52.9) (70.2) (52.9) (70.2) (52.9) (70.2) (54.5) (73.2) (54.5) (73.2) (54.5) (73.2) (57.5) (70.6) (57.7)	2 783 1 584 459 1 502 153 7 562 3 836 - - 65 145 1 983 55 532 - 789 3966 3933 2766 3 541 6 857 - 18 475 9 099	(49.7) (74.9) (91.4) (74.5) (96.2) (64.5) (71.3) (88.7) (89.7) (90.6) (88.7) (81.2) (84.1) (92.3) (71.0) (75.8)	2 183 523 36 433 0 3 250 1 003 - - 8 14 345 24 287 - 45 16 29 24 45 16 29 24 50 381 - 5 827 2 145	(98.4) (100.0) (100.0) (92.9) - (92.3) (94.6) - (88.9) (100.0) (43.8) (95.8) - (84.9) (66.7) (100.0) (72.7) (100.0) - (95.7) (100.0)	533 313 0 139 0 1446 603 - 0 0 0 118 17 199 - 0 0 0 0 0 0 0 4 4 206 37 - 2 498 467	(24.4) (59.8) (0.0) (32.1) - (44.5) (60.1) - (0.0) (0.0) (34.2) (70.8) - (0.0) (0.0) (0.0) (0.0) (0.0) (16.7) (40.9) (21.8)	2 219 523 36 466 0 3 520 1 060 - 9 14 787 25 362 - 53 24 29 33 510 464 - 6 090 2 145	(78.8) (98.5) (83.7) (90.8) - (84.6) (68.7) - (90.0) (82.4) (80.0) (82.7) - (58.2) (58.5) (58.0) (51.6) (51.6) (76.3) (80.6) (73.7)	2 817 531 43 513 6 4 161 1 542 - 10 17 984 30 649 - 91 41 50 64 668 6576 - 7 557 2 909	(50.3) (25.1) (8.6) (25.5) (3.8) (35.5) (28.7) (10.3) (10.5) (33.2) (35.6) (10.3) (9.4) (11.3) (18.8) (15.9) (7.7) (29.0) (24.2)
Azerbaijan Belarus Bosnia and Herzegovina Georgia Srael (azakhstan (xyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Republic of Moldova Republic of Moldova Ressian Federation San Marino Serbia Serbia excluding Kosovo ¹ Kosovo ¹ Switzerland Gijikistan (urkey Furkmenistan Jkraine	1 911 1 490 306 1 360 105 5 687 2 375 - 62 126 1 342 26 189 - 440 226 193 2 318 4 797 - 12 632	(100.0) (100.0) (95.9) (99.1) (94.6) (98.2) (98.2) (98.2) (98.2) (98.2) (100.0) (100.0) (100.0) (96.3) (89.1) - (84.3) (73.4) (100.0) (95.5) (100.0) (88.0) - (96.9)	38 219 561 1 165 9 1534 700 - 0 1 441 9246 - 2 2 2 2 2 2 0 5 5 672 113 - 3 438	(11.5) (37.7) (0.3) (12.1) (8.6) (27.0) (29.5) (0.0) (0.8) (32.9) (35.3) (0.5) (0.9) (0.0) (2.6) (29.0) (2.4) (27.2)	1911 1490 319 1372 111 5789 2549 - 62 126 1393 29389 - 522 308 2138 2138 2138 2138 2138 2138 2138 213	(68.7) (94.1) (69.5) (91.3) (72.5) (76.6) (66.4) (70.2) (52.9) (70.2) (52.9) (70.2) (52.9) (77.8) (54.5) (73.2) (65.5) (79.5) (79.5) (70.6)	2 783 1 584 459 1 502 153 7 562 3 836 - - 65 145 1 983 55 532 - 789 396 393 276 3 541 6 857 - 18 475	(49.7) (74.9) (91.4) (74.5) (96.2) (64.5) (71.3) (89.7) (89.5) (66.8) (64.4) - (89.7) (90.6) (88.7) (81.2) (81.2) (84.1) (92.3) - (71.0)	2 183 523 36 433 0 3 250 1 003 7 - - 8 14 345 24 287 - 45 16 29 24 25 16 29 24 510 381 - 5 827	(98.4) (100.0) (100.0) (92.9) - (92.3) (94.6) - (88.9) (100.0) (43.8) (95.8) - (84.9) (66.7) (100.0) (72.7) - (100.0) (82.1) - (95.7)	533 313 0 139 0 1446 603 - 0 0 0 118 17 199 - 0 0 0 0 0 0 0 4 206 37 - 2 498	(24.4) (59.8) (0.0) (32.1) - (44.5) (60.1) - (0.0) (0.0) (34.2) (70.8) - (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (16.7) (40.4) (9.7) - (42.9)	2 219 523 36 466 0 3 520 1060 - 9 14 787 25 362 - 53 24 29 33 3510 464 - 6 090	(78.8) (98.5) (83.7) (90.8) - (84.6) (68.7) - (90.0) (82.4) (80.0) (82.7) - (58.2) (58.2) (58.5) (58.5) (58.5) (58.6) (76.3) (80.6)	2 817 531 43 513 6 4 161 1 542 - 10 17 984 30 649 - 91 41 50 64 668 576 - 7 557	(50.3) (25.1) (8.6) (25.5) (3.8) (35.5) (10.3) (10.5) (33.2) (35.6) (10.3) (9.4) (11.3) (18.8) (15.9) (7.7) (29.0)

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

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. * Proportion of bacteriologically confirmed pulmonary TB cases with DST results with the respective previous TB treatment history. * If references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).
			Total								
cases wi results		RR/MDR-	lB cases	Al bacteriolo confir pulmon case	ogically med ary TB	All pulmo case		Country/area			
N	(%) ^s	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)	Belgium ^k			
453	(73.5)	11	(2.4)	616	(57.8)	1066	(79.3)	Bulgaria			
11	(73.3)	1	(9.1)	15	(100.0)	15	(5.0)	Croatia			
48	(100.0)	0	(0.0)	48	(80.0)	60	(87.0)	Cyprus			
319	(90.9)	8	(2.5)	351	(82.4)	426	(91.8)	Czechia			
185	(98.9)	3	(1.6)	187	(83.9)	223	(79.4)	Denmark ^k			
121	(100.0)	26	(21.5)	121	(87.1)	139	(92.7)	Estonia			
124	(96.1)	2	(1.6)	129	(83.8)	154	(68.4)	Finland			
38	(4.7)	38	(100.0)	813	(40.9)	1989	(38.9)	France			
1865	(91.6)	47	(2.5)	2 0 3 6	(81.4)	2 501	(52.2)	Germany			
192	(80.0)	6	(3.1)	240	(63.2)	380	(82.8)	Greece			
267	(93.7)	12	(4.5)	285	(53.3)	535	(96.9)	Hungary			
4	(100.0)	0	(0.0)	4	(57.1)	7	(53.8)	Iceland			
102	(95.3)	2	(2.0)	107	(84.9)	126	(47.4)	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)	Norway ^k			
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 3 1 1	(74.0)	Portugal			
7 589	(93.0)	302	(4.0)	8 161	(81.1)	10 067	(86.5)	Romania			
100	(100.0)	5	(5.0)	100	(58.8)	170	(79.4)	Slovakia			
82	(100.0)	0	(0.0)	82	(92.1)	89	(88.1)	Slovenia			
619	(44.7)	8	(1.3)	1384	(76.0)	1820		Spain			
234	(99.2)	4	(1.7)	236	(89.1)	265	(55.3)				
2 028 22 220	(98.9) (86.4)	25 763	(1.2) (3.4)	2 050 25 713	(74.9) (76.0)	2 737 33 822	(68.0)	United Kingdom ^k Subtotal EU/EEA			
22.220	(00.4)	105	(25715	(70.0)	55022	(00.0)	Non-EU/EEA			
29	(12.9)	4	(13.8)	225	(70.3)	320	(777)	Albania			
2	(50.0)	0	(0.0)	4	(100.0)	4	(80.0)	Andorra			
-								Armenia			
299	(98.0)	65	(21.7)	305	(57.4)	531	(79.3)				
299 4 094	(98.0) (99.1)	65 752	(21.7) (18.4)	305 4 130	(57.4) (73.8)	531 5 600	(79.3) (85.7)				
299 4 094 2 013	(98.0) (99.1) (100.0)	65 752 <i>87</i> 4	(21.7) (18.4) (43.4)	305 4 130 <i>2 013</i>	(57.4) (73.8) (95.2)	531 5 600 <i>2 115</i>	(79.3) (85.7) (80.9)	Azerbaijan Belarus			
4 094	(99.1)	752	(18.4)	4 130	(73.8)	5 600	(85.7)	Azerbaijan			
4 094 2 013	(99.1) (100.0)	752 874	(18.4) (43.4)	4 130 <i>2 013</i>	(73.8) <i>(95.2)</i>	5 600 <i>2 115</i>	(85.7) (80.9)	Azerbaijan Belarus			
4 094 <i>2 013</i> 342	(99.1) (100.0) (96.3)	752 <i>87</i> 4 1	(18.4) (43.4) (0.3)	4 130 <i>2 013</i> 355	(73.8) (95.2) (70.7)	5 600 <i>2 115</i> 502	(85.7) (80.9) (86.6) (82.2)	Azerbaijan <i>Belarus</i> Bosnia and Herzegovina			
4 094 2 013 342 1 793	(99.1) (100.0) (96.3) (97.6)	752 874 1 304	(18.4) (43.4) (0.3) (17.0) (8.6)	4 130 <i>2 013</i> 355 <i>1 838</i>	(73.8) (95.2) (70.7) (91.2) (69.8)	5 600 2 115 502 2 015	(85.7) (80.9) (86.6) (82.2) (73.3)	Azerbaijan Belarus Bosnia and Herzegovina Georgia			
4 094 2 013 342 1 793 105	(99.1) (100.0) (96.3) (97.6) (94.6)	752 874 1 304 9	(18.4) (43.4) (0.3) (17.0)	4 130 2 013 355 1 838 111	(73.8) (95.2) (70.7) (91.2)	5 600 2 115 502 2 015 159	(85.7) (80.9) (86.6) (82.2) (73.3) (90.2)	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel			
4 094 2 013 342 1 793 105 8 937	(99.1) (100.0) (96.3) (97.6) (94.6) (96.0)	752 874 1 304 9 2 980	(18.4) (43.4) (0.3) (17.0) (8.6) (33.3)	4 130 2 013 355 1 838 111 9 309	(73.8) (95.2) (70.7) (91.2) (69.8) (79.4)	5 600 2 115 502 2 015 159 11 723	(85.7) (80.9) (86.6) (82.2) (73.3) (90.2)	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan			
4 094 2 013 342 1 793 105 8 937	(99.1) (100.0) (96.3) (97.6) (94.6) (96.0)	752 874 1 304 9 2 980	(18.4) (43.4) (0.3) (17.0) (8.6) (33.3)	4 130 2 013 355 1 838 111 9 309	(73.8) (95.2) (70.7) (91.2) (69.8) (79.4)	5 600 2 115 502 2 015 159 11 723	(85.7) (80.9) (86.6) (82.2) (73.3) (90.2)	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan			
4 094 2 013 342 1 793 105 8 937 3 378 -	(99.1) (100.0) (96.3) (97.6) (94.6) (96.0) (93.6) –	752 874 1 304 9 2980 1303 -	(18.4) (43.4) (0.3) (17.0) (8.6) (33.3) (38.6)	4 130 2 013 355 1 838 111 9 309 3 609 -	(73.8) (95.2) (70.7) (91.2) (69.8) (79.4) (67.1)	5 600 2 115 502 2 015 159 11 723 5 378 -	(85.7) (80.9) (86.6) (82.2) (73.3) (90.2) (76.4)	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco			
4 094 2 013 342 1 793 105 8 937 3 378 - 70	(99.1) (100.0) (96.3) (97.6) (94.6) (96.0) (93.6) - (98.6)	752 874 1 304 9 2980 1303 - 0	(18.4) (43.4) (0.3) (17.0) (8.6) (33.3) (38.6) - (0.0)	4 130 2 013 355 1 838 111 9 309 3 609 - 71	(73.8) (95.2) (70.7) (91.2) (69.8) (79.4) (67.1) - (94.7)	5 600 2 115 502 2 015 159 11 723 5 378 - 75	(85.7) (80.9) (86.6) (82.2) (73.3) (90.2) (76.4) – (91.5)	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro			
4 094 2 013 342 1 793 105 8 937 3 378 - 70 140	(99.1) (100.0) (96.3) (97.6) (94.6) (96.0) (93.6) - (98.6) (100.0)	752 874 1 304 9 2980 1303 - 0 1	(18.4) (43.4) (0.3) (17.0) (8.6) (33.3) (38.6) - (0.0) (0.7)	4 130 2 013 355 1 838 111 9 309 3 609 - 71 140	(73.8) (95.2) (70.7) (91.2) (69.8) (79.4) (67.1) - (94.7) (86.4)	5 600 2 115 502 2 015 159 11 723 5 378 - 75 162	(85.7) (80.9) (86.6) (82.2) (73.3) (90.2) (76.4) - (91.5) (81.4)	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia			
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4 094 2 013 342 1 793 105 8 937 3 378 - 70 140 1 687 50 476 - 485 242	(99.1) (100.0) (96.3) (97.6) (94.6) (96.0) (93.6) - (98.6) (100.0) (77.4) (92.2) - (84.3) (72.9)	752 874 1 304 9 2980 1303 - 0 1 303 - 0 1 559 26445 - 2 2 2	(18.4) (43.4) (0.3) (17.0) (8.6) (33.3) (38.6) - (0.0) (0.7) (33.1) (52.4) - (0.4) (0.8)	4 130 2 013 355 1 838 111 9 309 3 609 - 71 140 2 180 54751 - 575 332	(73.8) (95.2) (70.7) (91.2) (69.8) (79.4) (67.1) - (94.7) (86.4) (73.5) (63.5) - (65.3) (76.0)	5 600 2 115 502 2 015 159 11 723 5 378 - 75 162 2 967 86 181 0 880 437	(85.7) (80.9) (86.6) (82.2) (73.3) (90.2) (76.4) - (91.5) (81.4) (91.2) (82.9) - (74.6) (77.1)	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo			
4 094 2 013 342 1793 105 8 937 3 378 - 70 140 1 687 50 476 - 485 242 243	(99.1) (100.0) (96.3) (97.6) (94.6) (94.6) (93.6) (93.6) (100.0) (77.4) (98.6) (100.0) (77.4) (98.4) (72.9) (100.0)	752 874 1 304 9 2980 1303 - 0 1 559 26445 - 2 2 2 2 0	(18.4) (43.4) (0.3) (17.0) (8.6) (33.3) (38.6) - (0.0) (0.7) (52.4) - (0.4) (- (0.4) (0.8) (0.0)	4 130 2 013 355 1 838 111 9 309 3 609 - 71 140 2 180 54 751 - 575 332 2 43	(73.8) (95.2) (70.7) (91.2) (69.8) (79.4) (67.1) - (94.7) (86.4) (73.5) (63.5) - (65.3) (76.0) (54.9)	5 600 2 115 502 2 015 159 11 723 5 378 - 75 162 2 967 86 181 0 880 437 443	(85.7) (80.9) (86.6) (82.2) (73.3) (90.2) (76.4) - (91.5) (81.4) (91.2) (82.9) (82.9) (77.1) (72.4)	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo Kosovo ¹			
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4 094 2 013 342 1 793 1 05 8 937 3 378 9 937 - 70 140 1 687 50 476 - 485 242 243 243 217 2 828	(99.1) (100.0) (96.3) (97.6) (94.6) (96.0) (93.6) (100.0) (77.4) (92.2) - (84.3) (72.9) (100.0) (92.3) (100.0)	752 874 1 304 9 2980 1303 - 0 1 559 26445 - 2 2 2 0 9 878	(18.4) (43.4) (0.3) (17.0) (8.6) (33.3) (38.3) (38.3) (33.1) (52.4) - (0.4) (0.8) (0.0) (0.0) (0.0) (4.1) (31.0)	4 130 2 013 355 1 838 111 9 309 3 609 - 71 140 2 180 54 751 - 575 3322 2 43 2 35 2 828	(73.8) (95.2) (70.7) (91.2) (69.8) (79.4) (67.1) (94.7) (86.4) (73.5) (63.5) (63.5) (63.5) (65.3) (76.0) (54.9) (69.1) (67.2)	5 600 2 115 502 2 015 159 11 723 5 378 - 75 162 2 967 86 181 0 880 437 443 340 4 209	(85.7) (80.9) (86.6) (82.2) (73.3) (90.2) (76.4) (91.5) (81.4) (91.2) (82.9) - (74.6) (72.4) (72.4) (78.2) (70.4)	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo Kosovo ¹ Switzerland Tajikistan			
4 094 2 013 342 1 793 1 05 8 937 3 378 - 70 1 40 1 687 50 476 - 50 476 242 243 2 243 2 17	(99.1) (100.0) (96.3) (97.6) (94.6) (93.6) (93.6) (100.0) (77.4) (92.2) (84.3) (72.9) (100.0) (92.3)	752 874 1 304 9 2980 1303 - 0 1 559 26445 - 2 2 2 2 0 9	(18.4) (43.4) (0.3) (17.0) (8.6) (33.3) (38.6) - (0.0) (0.7) (52.4) - (0.4) (0.8) (0.0) (0.8) (0.0) (4.1)	4 130 2 013 355 1 838 111 9 309 - 71 140 2 180 54 751 - 575 3322 243 235	(73.8) (95.2) (70.7) (91.2) (69.8) (79.4) (67.1) - (94.7) (86.4) (73.5) (65.3) (76.0) (54.9) (69.1)	5 600 2 115 502 2 015 159 11 723 5 378 - 75 162 2 967 86 181 0 880 437 443 340	(85.7) (80.9) (86.6) (82.2) (73.3) (90.2) (76.4) - (91.5) (81.4) (91.5) (81.4) (91.2) (82.2) (77.1) (72.4) (78.2)	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo Kosovo ¹ Switzerland Tajikistan Turkey			
4 094 2 013 342 1 793 105 8 937 3 378 - - 70 140 1 687 50 476 - 485 242 243 241 242 243 217 7 2 828 5 178	(99.1) (100.0) (96.3) (97.6) (94.6) (96.0) (93.6) (100.0) (77.4) (92.2) - (84.3) (72.9) (100.0) (92.3) (100.0) (87.5) -	752 874 1 304 9 2980 1303 - 0 1 559 26445 - 2 2 2 2 0 9 9 878 150 -	(18.4) (43.4) (0.3) (17.0) (8.6) (33.3) (38.6) (0.0) (0.7) (33.1) (52.4) (0.4) (0.8) (0.0) (0.8) (0.0) (4.1) (31.0) (2.9) -	4 130 2 013 355 1 838 111 9 309 3 609 - 71 140 2 180 54 751 - 575 332 243 235 2 828 5 915 -	(73.8) (95.2) (70.7) (91.2) (69.8) (79.4) (67.1) (94.7) (86.4) (73.5) (63.5) (63.5) (76.0) (54.9) (69.1) (67.2) (79.6) -	5 600 2 115 502 2 015 159 11 723 5 378 - - 75 162 2 967 86 181 0 880 437 443 340 4209 7 433 -	(85.7) (80.9) (86.6) (82.2) (73.3) (90.2) (76.3) (91.5) (81.4) (91.2) (82.9) - (74.6) (77.1) (72.4) (78.2) (70.4) (65.2)	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo Kosovo ¹ Switzerland Turkey Turkmenistan			
4 094 2 013 342 1 793 105 8 937 3 378 - 70 140 1 687 50 476 - 485 242 243 217 2 828 5 178 - 18 459	(99.1) (100.0) (96.3) (97.6) (94.6) (96.0) (93.6) (100.0) (77.4) (92.2) - (84.3) (72.9) (100.0) (87.5) - (96.5)	752 874 1 304 9 2980 1303 - 0 1 559 26445 - 2 2 0 9 9 878 150 - 5936	(18.4) (43.4) (0.3) (17.0) (8.6) (33.3) (38.6) (0.0) (0.7) (33.1) (52.4) (0.4) (0.8) (0.0) (4.1) (31.0) (2.9) (32.2)	4 130 2 013 355 1 838 111 9 309 3 609 - 71 140 2 180 54 751 - 575 332 243 235 2 828 5 915 - 19 129	(73.8) (95.2) (70.7) (91.2) (69.8) (79.4) (67.4) (69.4) (79.4) (69.4) (79.4) (64.7) (63.5) (65.3) (76.0) (54.9) (69.1) (67.2) (79.6) (73.5)	5 600 2 115 502 2 015 159 11 723 5 378 - - 75 162 2 967 86 181 0 880 437 443 340 4209 7 433 - 26 032	(85.7) (80.9) (86.6) (82.2) (73.3) (90.2) (76.3) (91.5) (81.4) (91.2) (82.9) (74.6) (77.1) (72.4) (78.2) (70.4) (65.2) (70.4)	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo Kosovo ¹ Switzerland Turkey Turkmenistan Ukraine			
4 094 2 013 342 1 793 105 8 937 3 378 - 70 140 1 687 50 476 - 485 242 243 217 2 828 217 2 828 5178 - 18 459 7 394	(99,1) (100.0) (96.3) (97.6) (94.6) (96.0) (93.6) (100.0) (77.4) (92.2) - (84.3) (72.9) (100.0) (92.3) (100.0) (87.5) (96.5) (100.0)	752 874 1 304 9 2980 1303 - 0 1 559 26445 - 2 2 0 9 9 878 150 - 5936 1082	(18.4) (43.4) (0.3) (17.0) (8.6) (33.3) (38.6) (0.0) (0.7) (33.1) (52.4) (0.4) (0.8) (0.0) (4.1) (31.0) (31.0) (31.0) (31.0) (31.2) (32.2) (14.6)	4 130 2 013 355 1 838 111 9 309 3 609 - 71 140 2 180 54 751 - 575 332 2 433 2 355 2 828 2 829 19 129 7 394	(73.8) (95.2) (70.7) (91.2) (69.8) (79.4) (67.4) (79.4) (79.4) (79.4) (79.4) (79.4) (79.4) (63.5) (63.5) (76.0) (54.9) (65.1) (67.6) (77.5) (61.6)	5 600 2 115 502 2 015 159 11 723 5 378 - - 75 162 2 967 86 181 0 880 437 443 340 4 209 7 043 - 26 032 12 008	(85.7) (80.9) (86.6) (82.2) (73.3) (90.2) (76.3) (91.5) (81.4) (91.2) (82.9) (74.6) (77.1) (72.4) (78.2) (70.4) (65.2) (91.2) (64.0)	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo Kosovo' Switzerland Tajikistan Turkey Turkmenistan Ukraine Uzbekistan			
4 094 2 013 342 1 793 105 8 937 3 378 - 70 140 1 687 50 476 - 485 242 243 217 2 828 5 178 - 18 459	(99.1) (100.0) (96.3) (97.6) (94.6) (96.0) (93.6) (100.0) (77.4) (92.2) - (84.3) (72.9) (100.0) (87.5) - (96.5)	752 874 1 304 9 2980 1303 - 0 1 559 26445 - 2 2 0 9 9 878 150 - 5936	(18.4) (43.4) (0.3) (17.0) (8.6) (33.3) (38.6) (0.0) (0.7) (33.1) (52.4) (0.4) (0.8) (0.0) (4.1) (31.0) (2.9) (32.2)	4 130 2 013 355 1 838 111 9 309 3 609 - 71 140 2 180 54 751 - 575 332 243 235 2 828 5 915 - 19 129	(73.8) (95.2) (70.7) (91.2) (69.8) (79.4) (67.4) (69.4) (79.4) (69.4) (79.4) (64.7) (63.5) (65.3) (76.0) (54.9) (69.1) (67.2) (79.6) (73.5)	5 600 2 115 502 2 015 159 11 723 5 378 - - 75 162 2 967 86 181 0 880 437 443 340 4209 7 433 - 26 032	(85.7) (80.9) (86.6) (82.2) (73.3) (90.2) (76.3) (91.5) (81.4) (91.2) (82.9) (74.6) (77.1) (72.4) (78.2) (70.4) (78.2) (70.4) (64.0) (81.3)	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo Kosovo ¹ Switzerland Turkey Turkmenistan Ukraine			

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

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

 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:
 nitional 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.

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

 * Data 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.

					Cases with D				
Country/area	Source of data	Coverage	Bacteriolog confirmed pu MDR-TB ca	lmonary	for an fluoroquir and any sec injectable	olone ond-line	XDR-TB ca	ases	Reporting completeness ^t
			N	(%)	N	(%)	N	(%)	
EU/EEA									
Austria	TESSy	National	3	(1.2)	3	(100.0)	0	(0.0)	Y
Belgium	TESSy	National	12	(2.2)	11	(91.7)	0	(0.0)	Y
Bulgaria	TESSy	National	11	(2.5)	11	(100.0)	0	(0.0)	Y
Croatia	TESSy	National	2	(1.1)	1	(50.0)	1	(100.0)	Y
Cyprus	TESSy	National	1	(2.0)	1	(100.0)	0	(0.0)	Ŷ
Czechia	TESSy	National	8	(2.5)	3	(37.5)	0	(0.0)	Ŷ
Denmark	TESSy	National	3	(1.6)	3	(100.0)	0	(0.0)	Ŷ
Estonia	TESSy	National	26	(21.3)	24	(100.0)	4	(0.0)	Ŷ
Finland	TESSy	National	20		1		0		Y
				(1.6)		(50.0)		(0.0)	
France	TESSy	National	60	(100.0)	59	(98.3)	8	(13.6)	Y
Germany	TESSy	National	66	(2.6)	49	(74.2)	7	(14.3)	Y
Greece	TESSy	National	6	(3.0)	3	(50.0)	0	(0.0)	Y
Hungary	TESSy	National	12	(4.7)	5	(41.7)	3	(60.0)	Y
Iceland	TESSy	National	0	-	0	-	0	-	Y
Ireland	TESSy	National	2	(1.6)	2	(100.0)	0	(0.0)	Y
Italy	NRL-TME	Partial	38	(2.2)	31	(81.6)	2	(6.5)	Ν
Latvia	-	-	-	-	-	-	-	-	-
Liechtenstein	-	-	-	-	-	-	-	-	-
Lithuania	TESSy	National	157	(17.3)	157	(100.0)	57	(36.3)	Y
Luxembourg	TESSy	National	1	(3.8)	0	(0.0)	0	_	Y
Malta	TESSy	National	0	(510)	0	-	0	-	Ŷ
Netherlands	TESSy	National	6	(2.0)	6	(100.0)	1	(16.7)	Ŷ
Norway	TESSy	National	2	(2.3)	1	(50.0)	0	(0.0)	Y
Poland	TESSy	National	40	(2.5)	31	(77.5)	4	(12.9)	Y
	,								
Portugal	TESSy	National	5	(1.0)	2	(40.0)	0	(0.0)	Y
Romania	TESSy	National	302	(4.1)	123	(40.7)	38	(30.9)	Ŷ
Slovakia	TESSy	National	5	(4.7)	5	(100.0)	0	(0.0)	Y
Slovenia	TESSy	National	0	-	0	-	0	-	Y
Spain	TESSy	National	8	(1.3)	2	(25.0)	0	(0.0)	Y
Sweden	TESSy	National	4	(1.5)	4	(100.0)	0	(0.0)	Y
United Kingdom	TESSy	National	27	(1.3)	25	(92.6)	1	(4.0)	Y
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	-	Y
Andorra	NRL-TME	National	0	(0.0)	0	-	0	-	Y
Armenia	NRL-TME	National	56	(18.9)	22	(39.3)	12	(54.5)	Ŷ
Azerbaijan	NRL-TME	National	414	(11.0)	367	(88.6)	89	(24.3)	Ŷ
Belarus	NRL-TME	National	808	(40.1)	807	(99.9)	185	(22.9)	Ŷ
Bosnia and Herzegovina	-	-	-	(0.0)	-	-	-	(22.))	N
•	NRL-TME	– National				(00 ()			Ŷ
Georgia Israel			229	(16.2)	203 9	(88.6)	31	(15.3) (0.0)	Ŷ
	NRL-TME	National	9	(8.6)	У	(100.0)	0		
Kazakhstan	-	-	-	-	-	-	-	-	N
Kyrgyzstan	NRL-TME	National	1 097	(33.1)	887	(80.9)	93	(10.5)	Ŷ
Monaco	-	-	-	-	-	-	-	-	N
Montenegro	NRL-TME	National	0	(0.0)	0	-	0	-	Y
North Macedonia	NRL-TME	National	1	(0.8)	0	(0.0)	0	-	Y
Republic of Moldova	NRL-TME	National	441	(28.7)	441	(100.0)	49	(11.1)	Y
Russian Federation	NRL-TME	National	24 443	(48.4)	23 646	(96.7)	5 559	(23.5)	Y
San Marino	-	National	0	-	0	-	0	-	Y
Serbia	-	-	-	-	-	-	-	-	-
Serbia excluding Kosovo ¹	-	-	-	-	-	-	-	-	N
Kosovo ¹	-	-	-	-	-	-	-	-	N
Switzerland	NRL-TME	National	7	(3.2)	7	(100.0)	0	(0.0)	Y
Tajikistan	NRL-TME	National	308	(15.4)	287	(100.0)	75	(26.1)	Ŷ
Turkey		National	121				75 8		Y
	NRL-TME	National _		(2.4)	76	(62.8)		(10.5)	
Turkmenistan	-		-	(0,1,0)	-	((00 0))	-	-	N
Ukraine	NRL-TME	National	4 490	(24.3)	4 490	(100.0)	853	(19.0)	Ŷ
Uzbekistan	NRL-TME	National	978	(13.2)	515	(52.7)	179	(34.8)	Ŷ
	NRL-TME -	National 	978 33 404 34 213	(13.2) (34.5) (28.5)	31 757 32 320	(95.1) (94.5)	7 133 7 259	(34.8) (22.5) (22.5)	-

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

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-15: Extensively drug-resistant tuberculous. * 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).

Country/area	TB cases with first-line DST ^b	MDR-TB among all first-line		MDR-TB with sec	cond-line DST ^c	XDR-TB c	ases
	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	225	4	(1.8)	4	(100.0)	0	(0.0)
Estonia	127	26	(20.5)	24	(92.3)	4	(16.7)
Finland	169	2	(1.2)	1	(50.0)	0	(0.0)
France	75	75	(100.0)	74	(98.7)	9	(12.2)
Germany	3 336	86	(2.6)	63	(73.3)	8	(12.7)
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	-	0	-
Ireland	175	3	(1.7)	3	(100.0)	0	(0.0)
Italy	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-
Liechtenstein	-	-	-	-	-	-	-
Lithuania	935	159	(17.0)	159	(100.0)	58	(36.5)
Luxembourg	32	1	(17.0)	0	(100.0)	0	(50.5)
Malta	46	0	(0.0)	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	(1.3)	32	(78.0)	5	(0.0)
Portugal	572	5	(0.9)	2	(40.0)	0	(0.0)
Romania	7 694	304	(0.9)	123	(40.0)	38	(0.0)
Slovakia	113	5	(4.0)	5	(40.5)	0	(0.0)
Slovenia	93	0	(4.4)	0	(100.0)		(0.0)
	811	9	(0.0)	2	(22.2)	0	(0.0)
Spain			(1.1) (1.8)		(100.0)		(0.0)
Sweden	396	7		7		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	20	2	((0)	0	-	0	
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)	-	-	-	-
Georgia	1 412	229	(16.2)	203	(88.6)	31	(15.3)
Israel	105	9	(8.6)	9	(100.0)	0	(0.0)
Kazakhstan	-	-	-	-	-	-	-
Kyrgyzstan	3 310	1 0 97	(33.1)	887	(80.9)	93	(10.5)
Monaco	-	-	-	-	-	-	-
Montenegro	61	0	(0.0)	0	-	0	-
North Macedonia	120	1	(0.8)	0	(0.0)	0	-
Republic of Moldova	1 5 3 9	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	-	-	-	-	-	-
Serbia	242	2	(0.8)	0	(0.0)	-	-
Serbia excluding Kosovo ¹	242	2	(0.8)	0	(0.0)	-	-
Kosovo ¹	-	-	-	-	-	-	-
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	-	-	(2.4)	, , , , , , , , , , , , , , , , , , , ,	(02.0)	-	(10.3)
Ukraine	18 459	4 490	(24.3)	4 490	(100.0)	853	(19.0)
Uzbekistan	7 394	4 490 978	(24.3) (13.2)	4 490 515	(100.0)	179	(19.0) (34.8)
ULUCNIJIUII	/ 374	7/0	(15.2)	212	(32./)	1/7	(54.8)
	06 76 3	22 //04	(24 5)	31 757	(05.1)	7 132	(22 5)
Subtotal non-EU/EEA Total European Region	96 762 121 574	33 406 34 238	(34.5) (28.2)	31 757 32 341	(95.1) (94.5)	7 133 7 261	(22.5) (22.5)

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

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.
 YDR-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 (so the 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).

Country/area	Total number of RR/MDR-TB cases detected	RR/MDR-TB cases e treatment ^a		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	(100.0)		
Malta	0	0	(100.0)	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					37	(07.4)		
	304	297	(97.7)	38		(97.4)		
Slovakia	5	5	(100.0)	0	0	-		
Slovenia	0	0	(100.0)	0	0	-		
Spain	9	9	(100.0)	0	0	-		
Sweden	7	7	(100.0)	0	0	(10.0.0)		
United Kingdom	37	36	(97.3)	1	1	(100.0)		
Subtotal EU/EEA	894	815	(98.0)	128	127	(99.2)		
Non-EU/EEA		0	(22.2)	0	0			
Albania	6	2	(33.3)	0	0	-		
Andorra	0	0	-	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)		
Bosnia and Herzegovina	1	0	(0.0)	0	0	-		
Georgia	319	270	(84.6)	31	24	(77.4)		
Israel	10	10	(100.0)	1	1	(100.0)		
Kazakhstan	5 073	5 404	(106.5)	375	403	(107.5)		
Kyrgyzstan	1 359	1 173	(86.3)	109	97	(89.0)		
Monaco	-	-	-	-	-	-		
Montenegro	0	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 Kosovo ¹	2	3	(150.0)	0	0	-		
Kosovo1	0	0	-	0	0	-		
Switzerland	12	12	(100.0)	0	0	-		
			(67.0)	75	68	(90.7)		
Taiikistan	878	200						
Tajikistan Turkev	878 158	588 155		8	8	(100.0)		
Turkey	158	155	(98.1)	8 55	8 55			
Turkey Turkmenistan	158 649	155 649	(98.1) (100.0)	55	55	(100.0)		
Turkey Turkmenistan Ukraine	158 649 6 051	155 649 7 265	(98.1) (100.0) (120.1)	55 895	55 1 540	(100.0) (172.1)		
Turkey Turkmenistan Ukraine Uzbekistan	158 649 6 051 2 060	155 649 7 265 2 060	(98.1) (100.0) (120.1) (100.0)	55 895 602	55 1 540 602	(100.0) (100.0) (172.1) (100.0)		
Turkey Turkmenistan Ukraine	158 649 6 051	155 649 7 265	(98.1) (100.0) (120.1)	55 895	55 1 540	(100.0) (172.1)		

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

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: retarnistely drug-resistant tuberculosis. * For countries that do not provide information on treatment start, all reported cases are used as proxy. * For countries that do not provide information where 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).

Country/area	New and relapse TB cases ^b	TB cases with HIV	status	HIV-positive TB cas	es	HIV-positive cases started ART ^c		
country/area	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	1006	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	1 166	(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	-	-	(/ 1)	-	(1.4)	-	(100.0)	
Sweden	-	-	-	-	-	-	-	
United Kingdom ^d	-	-	-	-	-	_	-	
Subtotal EU/EEA	19 701	15 355	(77.9)	454	(3.0)	197	(85.7)	
Non-EU/EEA	17 / 11	15 555	(11.7)		(3.0)	177	(05.7)	
Albania	412	368	(89.3)	8	(2.2)	8	(100.0)	
Andorra	5	0	(0.0)	-	(2.2)	-	(100.0)	
Armenia	621	591	(95.2)	62	(10.5)	62	(100.0)	
Azerbaijan	4 823	4 534	(94.0)	71	(10.5)	71	(100.0)	
Belarus	2 207	2 207	(100.0)	157	(7.1)	149	(100.0) (94.9)	
Bosnia and Herzegovina	580	18	(700.0)	-	(7.1)	147	(74.7)	
Georgia	2 169	1 841	(84.9)	33	(1.8)	33	(100.0)	
Israel	2109	217	(100.0)	8	(1.8)	8	(100.0)	
Kazakhstan	12 501	12 375	(99.0)	666 131	(5.4)	637	(95.6)	
Kyrgyzstan Monaco	6 138	5 810	(94.7)	- 131	(2.3)	94	(71.8)	
Monaco	-	-	(05.0)		(0, 0)		-	
Montenegro	80	76	(95.0)	0	(0.0)	0	(400.0)	
North Macedonia	199	152	(76.4)	1	(0.7)		(100.0)	
Republic of Moldova	2 809	2 792	(99.4)	295	(10.6)		(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 Kosovo ¹	501	39	(7.8)	3	(7.7)		(100.0)	
Kosovo ¹	-	-	-	-	-	-	-	
Switzerland	-	-	-	-	-	-	-	
Tajikistan	5 755	5 660	(98.3)	167	(3.0)		(76.0)	
Turkey	11 247	8 814	(78.4)	104	(1.2)		(80.8)	
Turkmenistan	-	-	-	-	-	-	-	
Ukraine	25 379	25 210	(99.3)	5 800	(23.0)		(83.8)	
Uzbekistan	16 272	16 272	(100.0)	647	(4.0)		(74.3)	
Subtotal non-EU/EEA	165 243	157 586	(95.4)	24 606	(15.6)		(75.7)	
Total European Region	184 944	172 941	(93.5)	25 060	(14.5)	18 836	(75.8)	

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

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. * Data 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).

Country	All TB cases ^a	TB cases	with known HIV status	HIV-positive TB cases			
	N	N	(%)	N	(%)		
EU/EEA							
Austria	-	-	-	-	-		
Belgium	968	505	(52.2)	44	(8.7)		
Bulgaria	1 3 4 4	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 0 2 0	(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)		

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

Note: WHO European Region TB high-priority countries presented in italics. * Countries are only included in this analysis if the total number of cases tested for HIV is more than zero.

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 0 4 8	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 0 6 0	0	0	(0.0)	0.0		
Spain	-	-	-	-	-		
Sweden	-	-	-	-	-		
United Kingdom	-	-	-	_	-		
Subtotal EU/EEA	208 215	386	185	(1.7)	15.8		
Non EU/EEA				()			
Albania	6 200	6	97	(1.5)	6.8		
Andorra	-	0	-	-	-		
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		
Bosnia and Herzegovina	52 500	-	-	(2.7)	-		
Georgia	10 000	28	280	(1.3)	5.2		
Israel	10 000	-	- 200	-	5.2		
Kazakhstan	29 403	243	826	(1.9)	12.2		
	7 260	243 164	2 2 5 9	(1.9)	12.3 23.6		
Kyrgyzstan	- / 260		- 2 239	(2.7)	23.0		
Monaco		-			- 70		
Montenegro	1070	1	93	(1.3)	7.3		
North Macedonia	2 600	2	77	(1.0)	8.1		
Republic of Moldova	6 722	84	1 250	(3.0)	18.0		
Russian Federation	539 618	6 555	1 215	(8.9)	24.2		
San Marino	-	-	-	-	-		
Serbia	31 832	3	9	(0.3)	0.7		
Serbia excluding Kosovo ¹	30 000	2	7	(0.4)	0.9		
Kosovo ¹	1 832	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		

Table 19. TB in prisons,^a European Region, 2019

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. ^c In the calculation of summary results, only countries/areas reporting data on prison population and TB notification in prisons are included. ⁱ All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

Country/area	TB cases notified in	Succe	SS	Died		Failed		Lost to follow-up ^a		Still on treatment		Not eval	uated⁵
	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 0 9 2	533	(10.5)	67	(1.3)	0	(0.0)	47	(0.9)	9	(0.2)	4 4 3 6	(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	-	-	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-	-	-
Portugal	1 9 0 5	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 0 3 6	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)	1 6 2 3	(3.8)	1 705	(4.0)	8 995	(21.0)
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	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 4 4 3	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													
Kosovo	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)
Switzerland	420	338	(80.5)	8	(1.9)	0	(0.0)	5	(1.2)	-	-	69	(16.4)
Tajikistan	5 150	4 579	(88.9)	213	(4.1)	66	(1.3)	227	(4.4)	-	-	65	(1.3)
Turkey	11 595	9 803	(84.5)	895	(7.7)	43	(0.4)	250	(2.2)	-	-	604	(5.2)
Turkmenistan	2 636	2 151	(81.6)	101	(3.8)	202	(7.7)	120	(4.6)	-	-	62	(2.4)
Ukraine	23 193	17 443	(75.2)	2 379	(10.3)	1804	(7.8)	1 502	(6.5)	-	-	65	(0.3)
Uzbekistan	15 648	14 168	(90.5)	558	(3.6)	198	(1.3)	371	(2.4)	-	-	353	(2.3)
Subtotal non-EU/EEA	155 599	116 940	(75.2)	13 103	(8.4)	8 514	(5.5)	8 755	(5.6)	0	(0.0)	8 2 8 7	(5.3)
Total European Region	198 410	144 217	(72.7)	15 956	(8.0)	8 872	(4.5)	10 378	(5.2)	1 705	(0.9)	17 282	(8.7)
Subtotal 18 HPCs	166 990	126 260	(75.6)	14 288	(8.6)	8 798	(5.3)	9 480	(5.7)	471	(0.3)	7 693	(4.6)

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

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. ^a In previous reports defined as "defaulted". ^b In previous reports defined as "transferred out and unknown". ^a All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

Country/area	New and relapse TB cases notified	Succ	ess	Die	i	Faile	d	Lost to follow-up ^c		Still on treatment		Not evaluated ^d	
	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	1268	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)
Denmark ^e	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 7 2 4	(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 0 6 5	(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 Kingdom ^e	4 6 8 4	3724	(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)	1 308	(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 2 5 0	(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 0 3 2	(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)
Kosovo	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	11 407	9 691	(85.0)	885	(7.8)	34	(0.3)	225	(2.0)	-	-	572	(5.0)
Turkmenistan	2 157	1780	(82.5)	76	(3.5)	172	(8.0)	84	(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)	-	-	255	(1.8)
Subtotal non-EU/EEA	137 742	106 631	(77.4)	11 401	(8.3)	6 540	(4.7)	6 500	(4.7)	0	(0.0)	6 670	(4.8)
Total European Region	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)
Subtotal 18 HPCs	147 992	115 692	(78.2)	12 419	(8.4)	6 691	(4.5)	7 032	(4.8)	68	(0.0)	6 0 9 0	(4.1)

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

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. ^a Cases with unknown previous TB history are included among new TB cases. ^b 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. ^c In previous reports defined as "defaulted". ^d In previous reports defined as "transferred out and unknown". ^e Previous TB history is defined by previous diagnosis. ^s All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

Country/area	New and relapse TB cases	Succ	Success		Died		Failed		Lost to follow-up ^c		Still on treatment		Not evaluated ^d	
	reported in 2018 ^b	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)	
Belgium ^e	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	-	-	-	-	-	-	-	-	-	-	-	-	-	
Germany	212	164	(77.4)	1	(0.5)	0	(0.0)	5	(2.4)	4	(1.9)	38	(17.9)	
Greece	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hungary	3	1	(33.3)	1	(33.3)	0	(0.0)	0	(0.0)	0	(0.0)	1	(33.3)	
Iceland	0	0	-	0	-	0	-	0	-	0	-	0	-	
Ireland ^e	7	3	(42.9)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	4	(57.1)	
Italy	-	-	-	-	-	-	-	-	-	-	-	-	_	
Latvia	-	-	-	-	-	-	-	-	-	-	-	-	-	
Liechtenstein	-	-	-	-	-	-	-	-	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	
Netherlands	20	19	(95.0)	0	(0.0)	0	(0.0)	1	(5.0)	0	(0.0)	0	(0.0)	
Norway ^e	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 29 1	(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	-	-	-	-	-	-	-	-	-	-	-	-	
Serbia	29	29	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	-	-	0	(0.0)	
Serbia excluding	5	5	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	-	-	0	(0.0)	
Kosovo ¹										-	-			
Kosovo¹ Switzerland	24	24	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	-		0	(0.0)	
	19	15	(78.9)	0	(0.0)	0	(0.0)	0	(0.0)		-	4	(21.1)	
Tajikistan Turkov	302	278	(92.1)	2	(0.7)	4	(1.3)	13	(4.3)	-	-	5	(1.7)	
Turkey Turkey	598	511	(85.5)	13	(2.2)	2	(0.3)	4	(0.7)	-	-	68	(11.4)	
Turkmenistan	-	-	-	-	(4 7)	-	(2.0)	-	(0, 0)	-	-	-	(0.0	
Ukraine Uzhabieten	458	437	(95.4)	8	(1.7)	9	(2.0)	4	(0.9)	-	-	0	(0.0)	
Uzbekistan	-	-	-	-	-	-	-	-	-	-	-	-	-	
													(3.4)	
Subtotal non-EU/EEA Total European Region	4 090 5 653	3 808 5 099	(93.1) (90.2)	41 54	(1.0)	55 55	(1.3) (1.0)	46 72	(1.1) (1.3)	40	(0.0)	140 333	(5.9)	

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

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. ^a Cases with unknown previous TB history are included among new TB cases. ^b 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. ^c In previous reports defined as "transferred out and unknown". ^e Previous TB history is defined by previous diagnosis. ^a All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

	New and	Succ	ess	Die	d	Fai	led	Lost to fo	llow-up ^c	Still on tr	eatment	Not eva	uated ^d
Country/area	relapse TB cases of foreign origin notified in 2018 ^b	N	(%)	N	(%)	N	(%)	N	(%)	N	(%)	N	(%)
EU/EEA													
Austria ^e	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 7 3 8	2 7 3 6	(73.2)	132	(3.5)	6	(0.2)	83	(2.2)	67	(1.8)	714	(19.1)
Greece	-	-	-	-	-	-	-	-	-	-	-	-	-
Hungary ^e	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	130	55	(42.3)	5	(3.8)	0	(0.0)	1	(0.8)	4	(3.1)	65	(50.0)
Italy	-	_	(42.)	_	(5.6)	-	(0.0)	-	(0.0)	-	(,,,)	-	(50.0)
Latvia	_	_	_	_	-	-	-	_	_	_		-	-
Liechtenstein	_	-	_	_	_	-	-	_	_	_	-	-	-
Lithuania	5	4	(80.0)	1	(20.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
	33	4		0	(20.0)	0	(0.0)	0		0	(0.0)		(100.0)
Luxembourg	-	-	(0.0)	-	(0.0)	-	(0.0)	-	(0.0)	-	(0.0)	33	(100.0)
Malta							-		(2, 0)				(7.2)
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	1 6 4 1	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	-	-	-	-	-	-	-	-	-	-	-	-	-
Belarus	-	-	-	-	-	-	-	-	-	-	-	-	-
Bosnia and Herzegovina	-	-	-	-	-	-	-	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	-	-	-	-	-	-
Israel	245	189	(77.1)	23	(9.4)	5	(2.0)	9	(3.7)	-	-	19	(7.8)
Kazakhstan	108	94	(87.0)	8	(7.4)	4	(3.7)	2	(1.9)	-	-	0	(0.0)
Kyrgyzstan	-	-	-	-	-	-	-	-	-	-	-	-	-
Monaco	-	-	_	-	_	-	_	-	-	-	-	-	-
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	5	(100.0)	0	(0.0)	0	(0.0)	1	(5.6)	-	-	6	(33.3)
Russian Federation	1705	388	(22.8)	31	(0.0)	41	(0.0)	22	(5.0)	-	-	1 2 2 3	(71.7)
San Marino	0		(22.0)		(1.8)	- 41	(2.4)		(1.3)	-	-		(/1./)
		-	((0,0))	-			(0, 0)	-	((0.0)			-	(0, 0)
Serbia	5	3	(60.0)	0	(0.0)	0	(0.0)	2	(40.0)	-	-	0	(0.0)
Serbia excluding Kosovo ¹		3	(60.0)	0	(0.0)	0	(0.0)	2	(40.0)		-	0	(0.0)
Kosovo ¹	0	-	-	-	-	-	-	-	-	-	-	-	-
Switzerland	285	235	(82.5)	3	(1.1)	0	(0.0)	1	(0.4)	-	-	46	(16.1)
Tajikistan	0	-	-	-	-	-	-	-	-	-	-	-	-
Turkey	1 203	956	(79.5)	48	(4.0)	6	(0.5)	67	(5.6)	-	-	126	(10.5)
Turkmenistan	-	-	-	-	-	-	-	-	-	-	-	-	-
Ukraine	34	21	(61.8)	0	(0.0)	2	(5.9)	2	(5.9)	-	-	9	(26.5)
Uzbekistan	0	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal non-EU/EEA	3 614	1 907	(52.8)	114	(3.2)	58	(1.6)	106	(2.9)	0	(0.0)	1 429	(39.5)
Total European Region	15 310	10 090	(65.9)	472	(3.1)	78	(0.5)	520	(3.4)	502	(3.3)	3 648	(23.8)
Subtotal 18 HPCs	3 144	1 536	(48.9)	92	(2.9)	54	(1.7)	96	(3.1)	0	(0.0)	1 366	(43.4)

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

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. C 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).

Country/area	HIV-positive TB cases	Succ	ess	Die	d	Faile	d	Lost to fol	low-up ^c	Still on tr	eatment	Not eval	uated ^d
	notified in 2018 ^b	N	(%)	N	(%)	N	(%)	N	(%)	N	(%)	N	(%)
EU/EEA													
Austria	-	-	-	-	-	-	-	-	-	-	-	-	-
Belgium ^e	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)
Denmark ^e	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	(/ 0.2)	0	(1).0)	0	(4.0)	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)
Norway ^e	7	6	(85.7)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	1	(14.3)
Poland	-	-	(0).7)	_	(0.0)	-	(0.0)	-	(0.0)	-	(0.0)	-	(14.)
Portugal	146	62	(42.5)	10	(6.8)	0	(0.0)	13	(8.9)	56	(38.4)	5	(3.4)
Romania	216	125	(42.3)		(20.4)	3	(0.0)	35	(16.2)	8	(38.4)	1	(0.5)
Slovakia	210		(100.0)	44	(20.4)	0	(0.0)		(0.0)	0	(0.0)	0	(0.0)
	0	2	(100.0)	0	(0.0)		(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Slovenia	29	0	-	0	(0, 0)	0	(0, 0)	0	(0, 0)		(0, 0)	27	(02.1)
Spain	29		(6.9)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	27	(93.1)
Sweden	-	-	-	-	-	-	-	-	-	-	-	-	-
United Kingdom ^e		-		-	-	-		-		-		-	-
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		2	(22.2)	2	(22.2)	0	(0, 0)	1	(1(7)			1	(1(7)
Albania	6	2	(33.3)	2	(33.3)	0	(0.0)	1	(16.7)	-	-	1	(16.7)
Andorra	-	-	-	-	-	-	(2.2)	-	-	-	-	-	-
Armenia	61	39	(63.9)	16	(26.2)	2	(3.3)	4	(6.6)	-	-	0	(0.0)
Azerbaijan	-	-	-	-	-	-	-	-	-	-	-	-	-
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 Kosovo ¹	8	7	(87.5)	0	(0.0)	1	(12.5)	0	(0.0)	-	-	0	(0.0)
Kosovo ¹	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	-		-	-	(1713)		(3.1)	_	(7.0)	-	-	_	(0.1)
Subtotal non-EU/EEA	17 427	8 972	(51.5)	3 714	(21.3)	1 4 3 0	(8.2)	1 5 4 1	(8.8)	0	(0.0)	1770	(10.2)
Total European Region	17 928	9 247	(51.6)	3 776	(21.3)	1 434	(8.0)	1592	(8.9)	66	(0.4)	1 813	(10.2)
	1/ 740	/ 471	(21.0)	2110	1+1/		(0.0)	: 376	(0.7)	00	(0.7/		(10.1)

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

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. ^a Cases with unknown previous TB history are included among new TB cases. ^b Rifampicin-resistant TB cases are excluded. ^c In previous reports defined as "defaulted". ^d In previous reports defined as "defaulted". ^e Previous TB history is defined by previous diagnosis. ^a All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

Country/area	New and relapse TB cases in prisons notified	Succ	ess	Died		Faile	d	Lost to fol	low-up ^c	Not eval	uated⁴
	in 2018 ⁶	N	(%)	N	(%)	N	(%)	N	(%)	N	(%)
EU/EEA										<u> </u>	
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	40	0	(00.4)	0	(2.2)	0	(0.0)	4	(0.7)	4	(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)
	0	0		0	(0.0)	0	(0.0)	0	(0.0)	0	(40.0)
Norway			-		-		-		-		-
Poland	- 46	- 20	(43.5)	- 0	-	-	-	- 2	(4.3)	-	
Portugal Romania					(0.0)		-			24	(52.2)
	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			(100.0)	0	(0, 0)	0	(0, 0)	0	(0, 0)	0	(0, 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	-	-	-	-	-	-	-	-	-	-	-
Georgia	34	28	(82.4)	0	(0.0)	2	(5.9)	3	(8.8)	1	(2.9)
Israel	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-
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)	1887	(29.6)
San Marino	0	-	-	-	-	-	-	-	-	-	-
Serbia	3	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)
Kosovo ¹	-	-	-	-	-	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	_	-		-	-	-	-
Ukraine	475	361	(76.0)	20	(4.2)	46	(9.7)	46	(9.7)	2	(0.4)
Uzbekistan		-	(/0.0)	-	-	-	().))	-	-	-	(01-1)
Subtotal non-EU/EEA	7 723	4 4 4 0	(57.5)	249	(3.2)	723	(9.4)	408	(5.3)	1 903	(24.6)
Total European Region	8 338	4 676	(56.1)	262	(3.1)	726	(8.7)	434	(5.2)	2 240	(24.0)
	0,000		(2011)		(200)	,	(0.1)	7.77	(3.2)		(=0.7)

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

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. C In previous reports defined as "defaulted". A In previous reports defined as "transferred out and unknown". "Not evaluated" includes "transferred out", "still on treatment" and any other registered case where the treatment outcome has not been evaluated. * All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

Country/area	RR/MDR-TB cases started on second-	Succ	ess	Die	d	Faile	ed	Lost to fol	low up ^b	Still on tre	atment	Not eval	uated
Country/area	line treatment	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	1067	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)
Kosovo ¹	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 3 38	(5.5)
Total European Region	43 720	25 611	(58.6)	6 0 2 9	(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)

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

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. ^a 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. ^b In previous reports defined as "transferred out and unknown". ^c All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

Country	All MDR-TB cases notified	Succe	ess	Die	d	Faile	d	Lost to fol	low up ⁵	Still on tre	atment	Not eval	uated
	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)

Table 27. Treatment outcome after 24 months among laboratory-confirmed^a MDR-TB cases notified in 2017, EU/EEA, 2019

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

I	XDR-TB cases started on	Succ	ess	Die	d	Fail	ed	Lost to fol	low up⁵	Still on tre	eatment	Not eval	uated
Country/area	second-line treatment in 2017ª	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	-	-	(5010)	_	()	-	(.5.5)	-	(.5.1)	-	-	_	(0.0)
Montenegro	1	1	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	-	-	0	(0.0)
North Macedonia	-	-	(100.0)	-	(0.0)	_	(0.0)	-	(0.0)	-	-	_	(0.0)
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	(22.0)	-	-	378	(1.0)
San Marino	0	-	(41.5)	-	-	-	(22.7)	-	().))	-	-	-	().1)
Serbia	0	-	-	-	-	-	-	-	-	-	-	-	-
Serbia excluding Kosovo ¹	0	-	-	-	-	-	-	-	-	-	-	-	-
Kosovo ¹	0	-	-	-	-	-	-	-	-	-	-	-	-
Switzerland	0	-	-	-	-	-	-	-	-	-	-	-	-
Tajikistan	250	155	(62.0)	43	(17.2)	11	(4.4)	20	(8.0)	_	_	21	(8.4)
Turkey	230	0	(0.0)	45	(0.0)	0	(0.0)	0	(0.0)	_	_	21	(100.0)
Turkmenistan	5	2	(40.0)	1	(20.0)	2	(40.0)	0	(0.0)	_	-	0	(100.0)
Ukraine	1 376	473	(34.4)	241	(17.5)	519	(40.0)	140	(10.2)	-	-	3	
Uzbekistan										-	-		(0.2)
	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)	61	(0.0)	419	(5.8)
Total European Region	7 396	3 179	(43.0) (43.0)	1 237 1 231	(16.7) <i>(16.7)</i>	1 742 1 742	(23.6)	749 747	(10.1)	59	(0.8) (0.8)	428 420	(5.8)

Table 28. Treatment outcome after 24 months among XDR-TB cases started on second-line treatment in 2017, European Region, 2019

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. ^a For EU/EEA countries cases diagnosed postmortem are excluded, and cases with no treatment enrolment data reported are assumed to be enrolled to treatment. ^b In previous reports defined as "transferred out and unknown". ^c All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

Country	XDR-TB cases reported in	Succe	:55	Die	d	Fai	led	Lost to fo	llow upª	Not ev	aluated⁵
	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)

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

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



	20	10	20	011	20	12	20	13	20	14	20	15	
Country	N	Rate per 100000	N	Rate per 100000	N	Rate per 100000	N	Rate per 100 000	N	Rate per 100 000	N	Rate per 100 000	
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	(0.4)	
Latvia	91	(4.3)	80	(3.8)	62	(3.0)	100	(5.0)	67	(3.3)	96	(4.8)	
Liechtenstein	-	(7.7)		(5.0)	- 02	(5.0)		(5.0)		()		(+.0)	
Lithuania	220	(7.2)	220	(7.2)	260	(8.6)	220	(7.2)	230	(7.8)	190	(6.6)	
Luxembourg	1	(0.2)	220	(7.2)	200	(0.2)	1	(7.2)	250	(7.8)	190	(0.0)	
Malta	3	(0.2)	3	(0.4)	1	(0.2)	3	(0.2)	1	(0.2)	2	(0.2)	
Netherlands	56	(0.3)	37	(0.7)	35	(0.2)	40	(0.7)	35	(0.2)	37	(0.2)	
Norway	29	(0.5)	30	(0.2)	22	(0.2)	21	(0.2)	13	(0.2)	12	(0.2)	
Poland	630	(0.6)	690	(0.8)	680	(0.4)	580	(0.4)	580	(0.5)	580	(0.2)	
	230	(1.0)	230	(1.8)	230	(1.8)	230	(1.3)	220	(1.3)	220	(1.3)	
Portugal		(2.1)		(2.2)		(2.2)		(2.2)	1 100	(2.1)		(5.4)	
Romania Slovakia	1 500 35	(0.7)	1 300 26	(0.4)	1 300	(0.2)	1 100 20	(0.4)	35	(0.6)	1 100 35	(0.6)	
					17								
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	(0.2)	0	(0, 2)	0	(0, 2)	0	(0, 2)	0	(0, 2)	0	(0, 2)	
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	230	(5.5)	230	(5.6)	230 22	(5.7)	210	(5.1)	190	(4.6)	160	(4.0)	
Israel Kazakhstan	28	(0.4)	22	(0.3)		(0.3)	15	(0.2)	15	(0.2)	15	(0.2)	
Kazakhstan	2 100	(13.0)	1 900	(12.0)	1800	(11.0)	1 200	(6.9)	1 000	(6.0)	820	(4.7)	
Kyrgyzstan	650	(12.0)	680	(12.0)	650	(12.0)	650	(11.0)	540	(9.3)	480	(8.1)	
Monaco	0	(0.3)	0	(0.2)	0	(0.1)	0	(0.1)	0	(0.0)	0	(0.0)	
Montenegro	1	(0.2)	1	(0.2)	1	(0.2)	1	(0.2)	1	(0.2)	1	(0.2)	
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	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	
Serbia	170	(1.9)	150	(1.6)	150	(1.7)	140	(1.5)	110	(1.3)	83	(0.9)	
Switzerland	28	(0.4)	25	(0.3)	23	(0.3)	20	(0.2)	13	(0.2)	17	(0.2)	
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	(1.2)	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)	

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

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.

20	16	20	17	201	۱8	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
								201) 2019	2010 2019	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%		Bulgaria
58	(1.4)	59	(1.4)	45	(1.1)	40	(1.0)	-3.3%	-7.3%	5
3	(0.3)	3	(0.3)	3	(0.3)	3	(0.3)	2.0%		Cyprus
43	(0.5)	36	(0.3)	36	(0.3)	36	(0.3)	-10.9%	-1.2%	Czechia
43	(0.4)	18	(0.3)	18	(0.3)	18	(0.3)	0.0%	-7.7%	Denmark
28	(0.3)	23	(0.3)	13	(0.3)	13	(0.3)		-12.0%	Estonia
28	(0.5)	35	(0.6)	26	(0.5)	23	(0.4)	-11.5% -8.9%		Finland
420	(0.5)	370	(0.6)	330	(0.5)	290	(0.4)	-10.1%	-8.5%	France
	(0.7)			300	(0.5)					
300		290	(0.4) (0.5)			300	(0.4) (0.5)	-2.0%	-2.4%	
49	(0.5)	49	(0.5)	49	(0.5)	48	(0.5)	2.3%	-4.9%	Greece
66	(0.7)	62	(0.6)	43	(0.4)	27	(0.3)	-29.0%	-17.6%	• /
2	(0.6)	2	(0.6)	2	(0.6)	1	(0.4)	-10.0%	-10.6%	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%	
72	(3.7)	62	(3.2)	51	(2.7)	42	(2.2)	-17.7%		Latvia
-	-	-	-	-	-	-	-	-	-	Liechtenstein
180	(6.1)	160	(5.6)	120	(4.2)	110	(4.0)	-11.8%		Lithuania
1	(0.2)	1	(0.2)	1	(0.2)	1	(0.2)	0.0%	-1.2%	
3	(0.7)	3	(0.7)	3	(0.7)	3	(0.7)	12.5%	-0.7%	Malta
30	(0.2)	24	(0.1)	24	(0.1)	24	(0.1)	-10.7%	-9.4%	Netherlands
18	(0.3)	18	(0.3)	18	(0.3)	19	(0.3)	11.5%	-5.8%	Norway
600	(1.6)	540	(1.4)	500	(1.3)	460	(1.2)	-5.4%	-3.1%	Poland
200	(1.9)	200	(1.9)	190	(1.8)	180	(1.8)	-3.8%	-1.7%	Portugal
980	(5.0)	920	(4.7)	860	(4.4)	790	(4.1)	-6.7%	-6.2%	Romania
35	(0.6)	35	(0.6)	35	(0.6)	35	(0.6)	0.0%	-0.3%	Slovakia
7	(0.4)	7	(0.3)	7	(0.3)	7	(0.3)	-10.9%	-11.2%	Slovenia
260	(0.6)	240	(0.5)	240	(0.5)	240	(0.5)	-0.9%	-5.4%	Spain
26	(0.3)	22	(0.2)	23	(0.2)	23	(0.2)	-2.1%		Sweden
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%		Subtotal EU/EEA
	(0.0)		(,		(,)		(,			Non-EU/EEA
8	(0.3)	8	(0.3)	8	(0.3)	8	(0.3)	0.0%	0.0%	Albania
0	(0.5)	0	(0.1)	0	(0.3)	0	(0.6)	6.2%	-2.7%	
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%		Azerbaijan
390	(4.1)	330	(3.5)	270	(2.8)	270	(2.8)	-12.6%	-12.9%	
120	(3.5)	110	(3.2)	100	(2.0)	93	(2.8)	-6.1%		Bosnia and Herzegovin
120	(3.5)	170	(3.2)	160	(3.0)	95 150	(2.8)	-0.1%		Georgia
15	(0.2)	13	(4.2)	13	(0.2)	130	(0.2)	-5.7%	-4.0%	
		670							-20.8%	
720	(4.0)		(3.7)	440	(2.4)	290	(1.6)	-23.6%		
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)	-	-	monaco
1	(0.2)	1	(0.2)	1	(0.2)	1	(0.2)	0.0%		Montenegro
20	(1.0)	20	(1.0)	20	(1.0)	20	(1.0)	0.0%		North Macedonia
300	(7.3)	250	(6.2)	240	(5.9)	200	(4.9)	-12.1%		Republic of Moldova
12 000	(8.3)	11 000	(7.2)	9 400	(6.5)	8 400	(5.8)	-12.5%		Russian Federation
0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	-		San Marino
95	(1.1)	86	(1.0)	59	(0.7)	44	(0.5)	-14.2%	-13.6%	
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%	-3.6%	Tajikistan
610	(0.8)	500	(0.6)	400	(0.5)	300	(0.4)	-17.6%	-14.7%	Turkey
640	(11.0)	630	(11.0)	610	(11.0)	600	(10.0)	-4.5%	-2.9%	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)	1 700	(5.1)	1 500	(4.7)	-7.8%		Uzbekistan
22 000	(5.4)	21 000	(5.2)	18 000	(4.4)	17 000	(4.1)	-9.8%		Subtotal non-EU/EEA
		24 000	(2.6)	22 000	(2.4)	20 000	(2.2)	-10.0%		Total European Region
 27 000	(2.9)	24 000	(2.0)	22 000	(2.9)	20 000				IOLAL CUTOPEAN REZION

	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 100 000							
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)	1 100	(9.5)	
Bulgaria	3 0 0 0	(41.0)	2 700	(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 0 0 0	(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 0 0 0	(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)	1900	(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	1 2 0 0	(7.1)	1100	(6.7)	1 100	(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 0 0 0	(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													
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)	7 200	(76.0)	6 800	(71.0)	
Belarus	6 4 0 0	(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)	1400	(40.0)	
Georgia	5 200	(127.0)	5 0 0 0	(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	1	(3.2)	1	(2.5)	1	(1.5)	0	(0.6)	0	(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	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	
Serbia	2 700	(30.0)	2 500	(28.0)	2 200	(24.0)	2 400	(27.0)	2 100	(23.0)	1900	(21.0)	
Switzerland	580	(7.5)	600	(7.6)	480	(6.0)	540	(6.6)	490	(5.9)	610	(7.4)	
Tajikistan	9 600	(128.0)	9 0 0 0	(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	50 000	(110.0)	48 000	(105.0)	46 000	(101.0)	44 000	(96.0)	43 000	(94.0)	41 000	(91.0)	
Uzbekistan	28 000	(97.0)	27 000	(93.0)	26 000	(89.0)	26 000	(86.0)	25 000	(82.0)	25 000	(79.0)	
Subtotal non-EU/EEA	295 000	(76.1)	284 000	(72.8)	269 000	(68.5)	259 000	(65.5)	246 000	(61.7)	235 000	(58.6)	
Total European Region	376 000	(42.0)	362 000	(40.2)	343 000	(38.0)	330 000	(36.4)	313 000	(34.3)	300 000	(32.8)	
Subtotal 18 HPCs	316 000	(81.4)	304 000	(77.9)	288 000	(73.3)	277 000	(70.1)	263 000	(66.1)	251 000	(62.7)	

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

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.

201	.6	201	17	201	.8	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
1 100	(10.0)	1100	(9.2)	1000	(9.1)	1000	(8.9)	-1.6%	-2.3%	Belgium
1900	(27.0)	1800	(25.0)	1600	(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)	290	(15.0)	170	(13.0)	170	(13.0)	-7.8%	-7.0%	Estonia
260	(4.7)	270	(4.9)	260	(4.8)	260	(15.0)	-4.3%	-3.7%	Finland
5 700		5 900	(4.9)	5 800		5 700	(4.7)	0.9%	-0.6%	France
	(8.7)				(8.9)					
6 0 0 0	(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%	-6.3%	Iceland
340	(7.2)	350	(7.3)	340	(7.0)	280	(5.8)	-5.6%	-5.7%	Ireland
4 300	(7.2)	4 4 0 0	(7.3)	4 300	(7.2)	4 300	(7.1)	1.8%	-2.4%	Italy
740	(37.0)	620	(32.0)	560	(29.0)	490	(26.0)	-10.2%	-7.0%	Latvia
-	-	-	-	-	-	-	-	-	-	Liechtenstein
1 500	(54.0)	1 500	(51.0)	1200	(44.0)	1200	(42.0)	-6.5%	-4.6%	Lithuania
33	(5.8)	37	(6.2)	48	(8.0)	55	(9.0)	10.2%	3.5%	Luxembourg
58	(13.0)	48	(11.0)	63	(14.0)	60	(14.0)	13.3%	6.3%	Malta
1000	(5.9)	890	(5.2)	910	(5.3)	860	(5.0)	-3.6%	-3.8%	Netherlands
320	(6.1)	270	(5.1)	220	(4.1)	180	(3.3)	-14.9%	-7.9%	Norway
7 100	(19.0)	6 400	(17.0)	6 0 0 0	(16.0)	5 700	(15.0)	-5.7%	-3.7%	Poland
2 100	(20.0)	2 0 0 0	(20.0)	2 100	(21.0)	2 0 0 0	(19.0)	-4.7%	-4.2%	Portugal
15 000	(74.0)	14 000	(72.0)	13 000	(68.0)	13 000	(66.0)	-5.3%	-4.9%	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%	-6.1%	Slovenia
5 400	(12.0)	5 0 0 0	(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%	-3.4%	
6 500	(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
04400	(12.3)	00 300	(11.7)	57 000	(11.1)	55 000	(10.0)			Non-EU/EEA
480	(17.0)	580	(20.0)	510	(18.0)	470	(16.0)	-1.5%	-0.7%	
480	(17.0)	1	(20.0)	2	(18.0)	470	(10.0)	6.2%	-2.6%	Andorra
		1 100	(36.0)						-2.6%	Armenia
1 300	(44.0)	1100		920	(31.0)	780	(26.0)	-15.1%	-9.0%	Allienia
6 400							((0.0)	1 101	F 00/	
	(66.0)	6 500	(66.0)	6 300	(63.0)	6 0 0 0	(60.0)	-4.1%	-5.9%	Azerbaijan
4 000	(42.0)	3 500	(37.0)	2 900	(31.0)	2 800	(29.0)	-12.7%	-9.0%	Azerbaijan Belarus
<i>4 000</i> 1 100	(42.0) (33.0)	<i>3 500</i> 960	<i>(37.0)</i> (29.0)	<i>2 900</i> 830	<i>(31.0)</i> (25.0)	<i>2 800</i> 900	(29.0) (27.0)	-12.7% -9.4%	<i>–9.0%</i> –5.5%	Azerbaijan Belarus Bosnia and Herzegovina
4 000 1 100 <i>3 700</i>	(42.0) (33.0) (92.0)	3 500 960 3 400	(37.0) (29.0) (86.0)	2 900 830 3 200	(31.0) (25.0) (80.0)	2 800 900 3 000	(29.0) (27.0) (74.0)	-12.7% -9.4% -7.0%	-9.0% -5.5% -5.8%	Azerbaijan Belarus Bosnia and Herzegovina Georgia
4 000 1 100 <i>3 700</i> 290	(42.0) (33.0) (92.0) (3.5)	3 500 960 3 400 270	(37.0) (29.0) (86.0) (3.3)	2 900 830 3 200 340	(31.0) (25.0) (80.0) (4.0)	2 800 900 3 000 250	(29.0) (27.0) (74.0) (2.9)	-12.7% -9.4% -7.0% -7.7%	-9.0% -5.5% -5.8% -6.5%	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel
4 000 1 100 3 700 290 13 000	(42.0) (33.0) (92.0) (3.5) (73.0)	3 500 960 3 400 270 12 000	(37.0) (29.0) (86.0) (3.3) (69.0)	2 900 830 3 200 340 12 000	(31.0) (25.0) (80.0) (4.0) (67.0)	2 800 900 3 000 250 13 000	(29.0) (27.0) (74.0) (2.9) (68.0)	-12.7% -9.4% -7.0% -7.7% -4.3%	-9.0% -5.5% -5.8% -6.5% -8.0%	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan
4 000 1100 3 700 290 13 000 8 100	(42.0) (33.0) (92.0) (3.5) (73.0) (133.0)	3 500 960 3 400 270 12 000 7 700	(37.0) (29.0) (86.0) (3.3) (69.0) (124.0)	2 900 830 3 200 340 12 000 7 300	(31.0) (25.0) (80.0) (4.0) (67.0) (116.0)	2 800 900 3 000 250 13 000 7 100	(29.0) (27.0) (74.0) (2.9) (68.0) (110.0)	-12.7% -9.4% -7.0% -7.7%	-9.0% -5.5% -5.8% -6.5% -8.0% -1.0%	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan
4 000 1 100 3 700 290 13 000	(42.0) (33.0) (92.0) (3.5) (73.0) (133.0) (0.0)	3 500 960 3 400 270 12 000	(37.0) (29.0) (86.0) (3.3) (69.0) (124.0) (0.0)	2 900 830 3 200 340 12 000 7 300 0	(31.0) (25.0) (80.0) (4.0) (67.0) (116.0) (0.0)	2 800 900 3 000 250 13 000 7 100 0	(29.0) (27.0) (74.0) (2.9) (68.0) (110.0) (0.0)	-12.7% -9.4% -7.0% -7.7% -4.3% -5.2%	-9.0% -5.5% -5.8% -6.5% -8.0% -1.0%	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan
4 000 1100 3 700 290 13 000 8 100	(42.0) (33.0) (92.0) (3.5) (73.0) (133.0) (0.0) (16.0)	3 500 960 3 400 270 12 000 7 700	(37.0) (29.0) (86.0) (3.3) (69.0) (124.0) (0.0) (14.0)	2 900 830 3 200 340 12 000 7 300	(31.0) (25.0) (80.0) (4.0) (67.0) (116.0) (0.0) (15.0)	2 800 900 3 000 250 13 000 7 100	(29.0) (27.0) (74.0) (2.9) (68.0) (110.0)	-12.7% -9.4% -7.0% -7.7% -4.3% -5.2%	-9.0% -5.5% -5.8% -6.5% -8.0% -1.0%	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan
4 000 1 100 3 700 290 13 000 8 100 0	(42.0) (33.0) (92.0) (3.5) (73.0) (133.0) (0.0)	3 500 960 3 400 270 12 000 7700 0 86 270	(37.0) (29.0) (86.0) (3.3) (69.0) (124.0) (0.0)	2 900 830 3 200 340 12 000 7 300 0	(31.0) (25.0) (80.0) (4.0) (67.0) (116.0) (0.0)	2 800 900 3 000 250 13 000 7 100 0	(29.0) (27.0) (74.0) (2.9) (68.0) (110.0) (0.0)	-12.7% -9.4% -7.0% -7.7% -4.3% -5.2%	-9.0% -5.5% -5.8% -6.5% -8.0% -1.0% - -3.1%	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco
4 000 1 100 3 700 290 13 000 8 100 0 100	(42.0) (33.0) (92.0) (3.5) (73.0) (133.0) (0.0) (16.0)	3 500 960 3 400 270 12 000 7 700 0 86	(37.0) (29.0) (86.0) (3.3) (69.0) (124.0) (0.0) (14.0)	2 900 830 3 200 340 12 000 7 300 0 97	(31.0) (25.0) (80.0) (4.0) (67.0) (116.0) (0.0) (15.0)	2 800 900 3 000 250 13 000 7 100 0 92	(29.0) (27.0) (74.0) (2.9) (68.0) (110.0) (0.0) (15.0)	-12.7% -9.4% -7.0% -7.7% -4.3% -5.2% - 0.0%	-9.0% -5.5% -5.8% -6.5% -8.0% -1.0% - -3.1% -7.0%	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro
4 000 1100 3 700 290 13 000 8 100 0 100 330	(42.0) (33.0) (92.0) (3.5) (73.0) (133.0) (0.0) (16.0) (16.0)	3 500 960 3 400 270 12 000 7700 0 86 270	(37.0) (29.0) (86.0) (3.3) (69.0) (124.0) (0.0) (14.0) (13.0)	2 900 830 3 200 340 12 000 7 300 0 97 270	(31.0) (25.0) (80.0) (4.0) (67.0) (116.0) (0.0) (15.0) (13.0)	2 800 900 3 000 250 13 000 7 100 0 92 250	(29.0) (27.0) (74.0) (2.9) (68.0) (110.0) (0.0) (15.0) (12.0)	-12.7% -9.4% -7.0% -7.7% -4.3% -5.2% - 0.0% -8.3%	-9.0% -5.5% -5.8% -6.5% -8.0% -1.0% - -3.1% -7.0% -4.0%	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia
4 000 1 100 3 700 290 13 000 8 100 0 100 330 4 100	(42.0) (33.0) (92.0) (3.5) (73.0) (133.0) (0.0) (16.0) (16.0) (101.0)	3 500 960 3 400 270 12 000 7 700 0 86 270 3 900	(37.0) (29.0) (86.0) (3.3) (69.0) (124.0) (0.0) (14.0) (13.0) (95.0)	2 900 830 3 200 340 12 000 7 300 0 97 270 3 500	(31.0) (25.0) (80.0) (4.0) (67.0) (116.0) (0.0) (15.0) (13.0) (86.0)	2 800 900 3 000 250 13 000 7 100 0 92 250 3 200	(29.0) (27.0) (74.0) (2.9) (68.0) (110.0) (0.0) (15.0) (12.0) (80.0)	-12.7% -9.4% -7.0% -7.7% -4.3% -5.2% - 0.0% -8.3% -5.9%	-9.0% -5.5% -5.8% -6.5% -8.0% -1.0% - -3.1% -7.0% -7.0% -4.0% -5.7%	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova
4 000 1100 3 700 290 13 000 8 100 0 100 330 4 100 91 000	(42.0) (33.0) (92.0) (3.5) (73.0) (133.0) (16.0) (16.0) (16.0) (101.0) (63.0) (0.0)	3 500 960 3 400 270 12 000 7 700 0 86 270 3 900 86 000 0	(37.0) (29.0) (86.0) (3.3) (69.0) (124.0) (14.0) (14.0) (13.0) (95.0) (59.0) (0.0)	2 900 830 3 200 12 000 7 300 0 97 270 3 500 79 000	(31.0) (25.0) (80.0) (4.0) (67.0) (116.0) (15.0) (15.0) (13.0) (86.0) (54.0) (0.0)	2 800 900 3 000 250 13 000 7 100 0 92 250 3 200 73 000	(29.0) (27.0) (74.0) (2.9) (68.0) (110.0) (0.0) (15.0) (12.0) (80.0) (50.0)	-12.7% -9.4% -7.0% -7.7% -4.3% -5.2% - 0.0% -8.3% -5.9% -7.1%	-9.0% -5.5% -5.8% -6.5% -8.0% -1.0% -3.1% -7.0% -7.0% -4.0% -5.7%	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation
4 000 1100 3 700 290 13 000 8 100 0 100 330 4 100 91 000 0 1700	(42.0) (33.0) (92.0) (3.5) (73.0) (133.0) (0.0) (16.0) (16.0) (101.0) (63.0) (0.0) (19.0)	3 500 960 3 400 270 12 000 7 700 0 86 270 3 900 86 000 0 1 700	(37.0) (29.0) (86.0) (3.3) (69.0) (124.0) (14.0) (13.0) (95.0) (59.0) (0.0) (19.0)	2 900 830 3 200 340 7 300 0 97 270 3 500 79 000 0 1 500	(31.0) (25.0) (80.0) (4.0) (67.0) (116.0) (15.0) (13.0) (86.0) (54.0) (0.0) (17.0)	2 800 900 3 000 250 13 000 7 100 0 92 250 3 200 73 000 0 1 300	(29.0) (27.0) (74.0) (2.9) (68.0) (110.0) (15.0) (12.0) (80.0) (50.0) (0.0) (14.0)	-12.7% -9.4% -7.0% -7.7% -4.3% -5.2% - - - - - - - - - - - - - - - - - - -	-9.0% -5.5% -5.8% -6.5% -8.0% -1.0% -3.1% -7.0% -4.0% -5.7% -8.1%	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino
4 000 1100 3 700 290 13 000 8 100 0 100 330 4 100 91 000 0 1700 660	(42.0) (33.0) (92.0) (3.5) (73.0) (133.0) (0.0) (16.0) (16.0) (101.0) (63.0) (0.0) (19.0) (7.9)	3 500 960 3 400 270 12 000 7 700 0 86 270 3 900 86 000 0 1 700 610	(37.0) (29.0) (86.0) (3.3) (69.0) (124.0) (0.0) (14.0) (13.0) (95.0) (59.0) (0.0) (19.0) (7.2)	2 900 830 3 200 7 300 0 97 270 3 500 79 000 0 1 500 540	(31.0) (25.0) (80.0) (4.0) (67.0) (116.0) (15.0) (15.0) (13.0) (86.0) (54.0) (0.0) (17.0) (6.4)	2 800 900 3 000 250 13 000 7 100 0 92 250 3 200 73 000 0 1 300 460	(29.0) (27.0) (74.0) (2.9) (68.0) (110.0) (0.0) (15.0) (12.0) (80.0) (50.0) (0.0) (14.0) (5.4)	-12.7% -9.4% -7.0% -7.7% -4.3% -5.2% - 0.0% -8.3% -5.9% -7.1% - 9.6% -7.6%	-9.0% -5.5% -5.8% -6.5% -8.0% -1.0% -3.1% -7.0% -7.0% -4.0% -5.7% -8.1% -3.6%	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Switzerland
4 000 1100 3 700 290 13 000 8 100 0 100 330 4 100 91 000 0 1700 660 7 400	(42.0) (33.0) (92.0) (3.5) (73.0) (133.0) (0.0) (16.0) (16.0) (101.0) (63.0) (0.0) (19.0) (7.9) (85.0)	3 500 960 3 400 270 12 000 7 700 0 86 270 3 900 86 000 0 1 700 610 7 500	(37.0) (29.0) (86.0) (3.3) (69.0) (124.0) (0.0) (14.0) (13.0) (95.0) (59.0) (0.0) (19.0) (7.2) (85.0)	2 900 830 3 200 7 300 0 97 270 3 500 79 000 0 1 500 540 7 600	(31.0) (25.0) (80.0) (4.0) (67.0) (116.0) (0.0) (15.0) (13.0) (86.0) (54.0) (0.0) (17.0) (6.4) (84.0)	2 800 900 3 000 250 13 000 7 100 0 92 250 3 200 73 000 0 1 300 460 7 700	(29.0) (27.0) (74.0) (2.9) (68.0) (110.0) (0.0) (15.0) (12.0) (80.0) (50.0) (0.0) (14.0) (5.4) (83.0)	-12.7% -9.4% -7.0% -7.7% -4.3% -5.2% - 0.0% -8.3% -5.9% -7.1% - -9.6% -7.6% -0.9%	-9.0% -5.5% -5.8% -6.5% -8.0% -1.0% -3.1% -7.0% -4.0% -5.7% - -8.1% -3.6% -4.7%	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Switzerland Tajikistan
4 000 1100 3 700 290 13 000 8 100 0 100 330 4 100 91 000 0 1700 660 7 400 14 000	(42.0) (33.0) (92.0) (3.5) (73.0) (133.0) (0.0) (16.0) (16.0) (16.0) (101.0) (63.0) (0.0) (19.0) (7.9) (85.0) (18.0)	3 500 960 3 400 270 12 000 7700 0 86 270 3 900 86 000 0 1700 610 7 500 14 000	(37.0) (29.0) (86.0) (3.3) (69.0) (124.0) (0.0) (14.0) (13.0) (95.0) (59.0) (59.0) (19.0) (19.0) (7.2) (85.0) (17.0)	2 900 830 3 200 12 000 7 300 0 97 270 3 500 79 000 0 1 500 540 7 600 13 000	(31.0) (25.0) (80.0) (4.0) (16.0) (16.0) (15.0) (13.0) (86.0) (54.0) (0.0) (17.0) (6.4) (84.0) (16.0)	2 800 900 3 000 250 13 000 0 92 250 3 200 73 000 0 1 300 460 7 700 13 000	(29.0) (27.0) (74.0) (2.9) (68.0) (110.0) (0.0) (15.0) (12.0) (80.0) (50.0) (50.0) (14.0) (5.4) (83.0) (16.0)	-12.7% -9.4% -7.0% -4.3% -5.2% - 0.0% -8.3% -5.9% -7.1% - -9.6% -7.6% -0.9% -2.9%	-9.0% -5.5% -5.8% -6.5% -8.0% -1.0% -3.1% -7.0% -4.0% -5.7% -8.1% -3.6% -4.7% -4.8%	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Switzerland Tajikistan Turkey
4 000 1100 3 700 290 13 000 8 100 0 100 330 4 100 91 000 0 1700 660 7 400 14 000 2 600	(42.0) (33.0) (92.0) (3.5) (73.0) (0.0) (16.0) (16.0) (101.0) (63.0) (0.0) (19.0) (7.9) (85.0) (18.0) (46.0)	3 500 960 3 400 270 12 000 0 86 270 3 900 86 000 0 1700 610 7 500 14 000 2 500	(37.0) (29.0) (86.0) (13.3) (69.0) (124.0) (0.0) (14.0) (13.0) (95.0) (59.0) (59.0) (59.0) (19.0) (7.2) (85.0) (17.0) (43.0)	2 900 830 3 200 340 12 000 0 97 270 3 500 79 000 0 1 500 540 7 600 13 000 2 700	(31.0) (25.0) (80.0) (4.0) (67.0) (16.0) (0.0) (15.0) (13.0) (86.0) (54.0) (17.0) (6.4) (84.0) (16.0) (46.0)	2 800 900 3 000 250 13 000 0 92 250 3 200 73 000 0 1 300 460 7 700 13 000 2 600	(29.0) (27.0) (74.0) (2.9) (68.0) (110.0) (10.0) (15.0) (12.0) (80.0) (50.0) (0.0) (14.0) (5.4) (83.0) (16.0) (45.0)	12.7% -9.4% -7.0% -4.3% -5.2% - 0.0% -8.3% -5.9% -7.1% - 9.6% -7.6% -0.9% -2.9% -2.1%	-9.0% -5.5% -5.8% -6.5% -8.0% -1.0% -3.1% -7.0% -4.0% -5.7% -8.1% -3.6% -4.7% -4.8% -4.7% -4.8% -6.1%	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Switzerland Tajikistan Turkey Turkmenistan
4 000 1100 3 700 290 13 000 8 100 0 100 330 4 100 91 000 0 1700 660 7 400 14 000 2 600 39 000	(42.0) (33.0) (92.0) (3.5) (73.0) (133.0) (0.0) (16.0) (16.0) (16.0) (16.0) (101.0) (63.0) (0.0) (19.0) (19.0) (7.9) (85.0) (88.0) (46.0) (87.0)	3 500 960 3 400 270 12 000 0 86 270 3 900 86 000 0 1 700 610 7 500 14 000 2 500 37 000	(37.0) (29.0) (86.0) (3.3) (69.0) (124.0) (0.0) (14.0) (13.0) (95.0) (59.0) (59.0) (59.0) (19.0) (19.0) (17.2) (85.0) (17.0) (43.0) (84.0)	2 900 830 3 200 340 12 000 0 97 270 3 500 79 000 0 1500 540 7 600 13 000 2 700 36 000	(31.0) (25.0) (80.0) (4.0) (67.0) (16.0) (0.0) (15.0) (13.0) (86.0) (54.0) (0.0) (17.0) (6.4) (84.0) (76.0) (46.0) (80.0)	2 800 900 3 000 250 13 000 0 92 250 3 200 73 000 0 1 300 460 7 700 13 000 2 600 34 000	(29.0) (27.0) (74.0) (2.9) (68.0) (110.0) (15.0) (12.0) (80.0) (50.0) (50.0) (0.0) (14.0) (5.4) (83.0) (16.0) (45.0) (77.0)	-12.7% -9.4% -7.0% -7.7% -4.3% -5.2% - 0.0% -8.3% -5.9% -7.1% - 9.6% -0.9% -2.0% -2.2% -2.1% -4.1%	-9.0% -5.5% -5.8% -6.5% -8.0% -1.0% -3.1% -7.0% -4.0% -5.7% - - -8.1% -3.6% -4.7% -4.8% -6.1% -3.9%	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Switzerland Tajikistan Turkey Turkmenistan Ukraine
4 000 1100 3 700 290 13 000 8 100 0 100 330 4 100 91 000 0 1700 660 7 400 14 000 2 600 39 000 24 000	(42.0) (33.0) (92.0) (13.5) (73.0) (133.0) (0.0) (16.0) (16.0) (16.0) (16.0) (101.0) (63.0) (0.0) (19.0) (7.9) (85.0) (18.0) (46.0) (87.0) (76.0)	3 500 960 3 400 270 12 000 0 86 270 3 900 86 000 0 1700 610 7 500 14 000 2 500 37 000 23 000	(37.0) (29.0) (86.0) (124.0) (0.0) (14.0) (13.0) (95.0) (59.0) (59.0) (19.0) (7.2) (85.0) (17.0) (43.0) (84.0) (73.0)	2 900 830 3 200 340 12 000 7 300 0 97 270 3 500 79 000 0 1500 540 7 600 13 000 2 700 36 000 23 000	(31.0) (25.0) (80.0) (4.0) (67.0) (116.0) (0.0) (15.0) (13.0) (86.0) (54.0) (0.0) (17.0) (6.4) (84.0) (16.0) (16.0) (46.0) (80.0) (70.0)	2 800 900 3 000 250 13 000 7 100 0 92 250 3 200 73 000 0 1 300 460 7 700 1 3 000 2 600 34 000 22 000	(29.0) (27.0) (74.0) (2.9) (68.0) (110.0) (0.0) (15.0) (12.0) (80.0) (50.0) (0.0) (14.0) (54.0) (16.0) (45.0) (45.0) (77.0) (67.0)	-12.7% -9.4% -7.0% -7.7% -4.3% -5.2% - 0.0% -8.3% -5.9% -7.1% - -9.6% -7.6% -0.9% -2.9% -2.1% -2.1% -2.1% -2.1% -2.1%	-9.0% -5.5% -5.8% -6.5% -8.0% -1.0% -3.1% -7.0% -4.0% -3.1% -7.0% -4.7% -4.7% -4.7% -4.7% -6.1% -3.9% -4.0%	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Switzerland Tajikistan Turkay Turkmenistan Ukraine Uzbekistan
4 000 1100 3 700 290 13 000 8 100 0 100 330 4 100 91 000 0 1700 660 7 400 14 000 2 600 39 000	(42.0) (33.0) (92.0) (3.5) (73.0) (133.0) (0.0) (16.0) (16.0) (16.0) (16.0) (101.0) (63.0) (0.0) (19.0) (19.0) (7.9) (85.0) (88.0) (46.0) (87.0)	3 500 960 3 400 270 12 000 0 86 270 3 900 86 000 0 1 700 610 7 500 14 000 2 500 37 000	(37.0) (29.0) (86.0) (3.3) (69.0) (124.0) (0.0) (14.0) (13.0) (95.0) (59.0) (59.0) (59.0) (19.0) (19.0) (17.2) (85.0) (17.0) (43.0) (84.0)	2 900 830 3 200 340 12 000 0 97 270 3 500 79 000 0 1500 540 7 600 13 000 2 700 36 000	(31.0) (25.0) (80.0) (4.0) (67.0) (16.0) (0.0) (15.0) (13.0) (86.0) (54.0) (0.0) (17.0) (6.4) (84.0) (76.0) (46.0) (80.0)	2 800 900 3 000 250 13 000 0 92 250 3 200 73 000 0 1 300 460 7 700 13 000 2 600 34 000	(29.0) (27.0) (74.0) (2.9) (68.0) (110.0) (15.0) (12.0) (80.0) (50.0) (50.0) (0.0) (14.0) (5.4) (83.0) (16.0) (45.0) (77.0)	-12.7% -9.4% -7.0% -7.7% -4.3% -5.2% - 0.0% -8.3% -5.9% -7.1% - 9.6% -0.9% -2.0% -2.2% -2.1% -4.1%	-9.0% -5.5% -5.8% -6.5% -8.0% -1.0% -7.0% -3.1% -7.0% -4.0% -5.7% -8.1% -4.8% -6.1% -3.9% -4.0% -5.3%	Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Switzerland Tajikistan Turkey Turkmenistan Ukraine

		2015			2016			2017			2018	1		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 <i>Lithuania</i>	0 36	(0.0)	0.0 <i>8.5</i>	0	(0.0) <i>(3.3)</i>	0.0 11.1	0	(0.0) (3.2)	0.0	0	(0.0)	0.0 4.5	- 27	(2.6)	-
	2	(2.4)		47			44		10.4	19 0			0	(2.6)	6.4 0.0
Luxembourg Malta	0	(0.0)	2.1	1	(3.4)	1.1 0.0	0	(3.1)	1.0	1	(0.0) (1.8)	0.0	2	(0.0)	
Netherlands	42	(0.0)	1.5	49	(0.0)	1.8	34	(0.0) (4.3)	1.2	20	(1.8)	1.5 0.7	47	(6.2)	3.0 1.7
Norway	20	(6.4)	2.1	13	(4.4)	1.0	17	(4.5)	1.2	7	(3.4)	0.7	47	(2.4)	0.4
Poland	81	(0.4)	1.4	103	(4.4)	1.4	68	(0.5)	1.0	52	(0.9)	0.9	81	(2.4)	1.4
Portugal	43	(1.)	2.9	36	(1.9)	2.5	45	(1.2)	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	(20.0)	1.0	2	(1.8)	0.6	1	(14.2)	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
Kosovo ¹	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
,	0	(0.0)	0.0	5	(0.2) (2.0)	0.3	39	(1.7)	2.2	37	(1.4)	2.1	44	(1.5)	2.4
Turkmenistan	F / 0				(2.0)	8.3	611	(1.9)	8.8	580	(1.9)	8.3	585	(2.0)	8.3
Turkmenistan Ukraine	568	(1.9)	8.3	571						2 222	(44.0)		2 400		
Turkmenistan Ukraine Uzbekistan	1 795	(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
Turkmenistan Ukraine									21.8 8.6 5.8	2 029 6 947 8 998	(11.0) (3.2) (3.3)	21.8 7.9 5.4	2 190 6 864 8 819	(11.7) (3.3) (3.4)	23.1 7.8 5.2

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

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).

(2015							2016							2017				
	Forei	ign	Nativ	ive	Unkno origi			Forei	ign	Nativ	ve		nown igin		Forei	gn	Nativ	ve	Unkn orig			
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	_	(12.10)	210	(27.6)	0	(0.0)	E 02	121	(((0)	210	(22.1)	C	(0.0)	(2)	272	U.S. I	107	1246		(0.0)	5.45	
Austriaª Belgiumª	- 512	(0211)																				_
Belgium ^a Bulgaria	512																					_
Croatia	75																	()				_
Cyprus	52												1 1									
Czechia	110										1 .											
Denmark	242																			1 (0.4)		
Estonia	38																	1 1				
Finland	114																					
France	2 655	(56.0)	1 8 2 6	6 (38.5)	263	(5.5)) 4 744		(52.3)	2 368	8 (41.3)) 365	(6.4)) 5 735	5 O	(0.0)) 0	0.0)) 5 015 (6 (100.0)	5 015	
Germany	4 085																					_
Greece ^a	189					(****)														()		
Hungary ^a	27																	1 1				
Iceland	6	()		1 (14.3)					((()		_
Ireland	129																					
Italy Latvia	1764																			()		
<i>Latvia</i> Liechtenstein	45					(0.0) (100.0)			8 <i>(6.5)</i> 2 (100.0)													
Liechtenstein Lithuania	0 15	(010)																1 (100.0) 2 <i>(98.9)</i>		(0.0)		7
Lithuania Luxembourg	20																					
Luxembourg Malta	20																					
Netherlands	625																					_
Norway	277																			1		
Polanda	52																					
Portugal	367												(0.0)							1 (0.1)		
Romania	36																					
Slovakia	11																			()		_
Slovenia	50	(38.5)	80			(0.0)) 130		36.4)) 75						(40.2)) 67	1 1		(0.0)	112	2
Spain	1562	(31.1)	3 291	1 (65.6)	167	(3.3)) 5 0 2 0	1 454	(28.7)	2 922	. (57.6)) 694	(13.7)) 5 070	2 0 4 4	(36.1)) 3 285	5 (58.0)) 331	1 (5.8)	5 660	0
Sweden	729					(****)														()		
United Kingdom	4 358																					
Subtotal EU/EEA	18 543	(30.3)	40 795	5 (66.7)	1 800	(2.9)) 61 138	19 844	(33.1)	38 539	(64.3)) 1591	(2.7)) 59 974	16 118	(28.6)) 34 504	(61.2)) 5754	(10.2)	56 376	4
Non-EU/EEA		(1.0)	411	(22.0)			615		(2.0)	415	(122.0)			415		(2.0)	5.05	(100.0)			501	
Albania	4			1 (99.0)		-	1.10				5 (100.0)		-	1.5				3 (100.0) 1 (100.0)		-	503	4
Andorra Armenia	0	(010)		4 (100.0) 6 (99.9)		-	4	-			(100.0) (100.0)		-	4		1 1		1 (100.0) 9 (99.2)		-	92(
Armenia Azerbaijan	15	(0.1)					1 185 7 501) (100.0) 5 (99.8)		-	1 080 6 707		' (0.8) _		9 (99.2) –			926	
Azerbaijan Belarus	15			7 (100.0)		-					3 (100.0)			3 598		(0.0)	3 052	- 2 (100.0)) _	-	3 052	2
Bosnia and Herzegovina	0			5 (100.0)			1 0 9 5				7 (100.0)		-	907				3 (100.0)			768	_
Georgia		-	-	-	-	-		-	-	-	-	-	-		-	(0.0)			-	-	-	_
Israel	233	(83.2)		7 (16.8)		-			2 (80.8)		3 (19.2)									-	234	_
Kazakhstan	78					-								12 658				2 (100.0)		-	12 942	
Kyrgyzstan	-		-7	(-)	- /	-	-7	-	-		<u> </u>	-	-		-7		-/	<u> </u>	-	-	7	
Monaco	-	-	-	-	-	-		-		-	-				-	-				-		÷Ĺ.
Montenegro	3	(/				-								0,						-	77	_
North Macedonia	10					-	201							207							>	
Republic of Moldova	37					-														-		
Russian Federation	-	-	-	-	-	-		2 797	7 (2.3)) 118 249	9 (97.7) _	-		121 040				9 (97.8)		-		
San Marino Serbia	- 7	- (0.4)	- 1651	- 1 (99.6)	-	-		- 5	(0.3)	1 / 83	(00.7)	-		-		-		(400.0)	-		1466	
Serbia Serbia excluding	')	(0.4)) 1651	(99.0,					5 (0.3)) 1483	8 (99.7)			1400				6 (100.0)			1466	
Kosovo ¹					-	-	-	-				-	-	· _	-	-			-	-		
Kosovo1			-			-	-	-	I	-				-	-							Ē,
Switzerland	428					-)	564						-	609						-	555	_
Tajikistan	0	(0.0)	6 232	2 (100.0)		-	0252				(100.0)		-	6 241		(0.0)) 6 279	9 (100.0)		-	6 279	9
Turkey	872) (93.2)		-	12 772	904	(7.3)	11 513	8 (92.7)		-	12 417	7 1107	r (9.2)	10 939	9 (90.8)		- 1	12 046	J
Turkmenistan	-	-	-		-	-							-							-		4
Ukraine	10			4 (100.0)		-	55 504							34 088				8 <i>(99.9)</i>		-	31 584	_
Uzbekistan	47			3 (99.8) (99.1)		-	17 0 5 5				(100.0)			18 441				9 (100.0)		-	19 329	
Subtotal non-EU/EEA	1745		107 703							219 809) 203 802					_
	20 288		148 498		1800) 170 586) 284 411) 237 908) 5754			-
Subtotal 18 HPCs	1 204		123 150		2	A) 124 356	4 051	1 (1.7)	233 857	· · · · · · · · · · · · · · · · · · ·) 0		777	A 8 444	(1.7)) 217 003	10x sr	1 10-	/ 10.ur	220 777	1-

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

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	ve	Unkr ori			Forei	gn	Nati	ve	Unkn orig			
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	Austriaª
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	Bulgaria
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	Czechia
198	(68.0)	93	(32.0)	0	(0.0)	291	204	(72.6)	77	(27.4)	0	(0.0)	281	Denmark
32	(21.8)	115	(78.2)	0	(0.0)	147	36	(24.0)	114	(76.0)	0	(0.0)	150	Estonia
92	(40.9)	125	(55.6)	8	(3.6)	225	96	(42.7)	125	(55.6)	4	(1.8)	225	Finland
3 142	(61.7)	1645 1397	(32.3)	305 109	(6.0)	5 092 5 492	3 102 3 362	(60.6)	1 455 1 308	(28.4) (27.3)	559 121	(10.9)	5 116	France Germany
3 986 216	(72.6) (50.0)	215	(25.4) (49.8)	109	(0.2)	5 492 432	257	(70.2) (56.0)	202	(27.3)	0	(2.5) (0.0)	4 791 459	Greece ^a
216	(3.6)	617	(49.8)	0	(0.2)	640	43	(7.8)	509	(92.2)	0	(0.0)	459	Hungary ^a
8	(100.0)	01/	(96.4)	0	(0.0)	8	45	(84.6)	2	(92.2)	0	(0.0)	13	Iceland
142	(45.8)	143	(46.1)	25	(8.1)	310	119	(44.7)	106	(39.8)	41	(15.4)	266	Ireland
2 313	(59.1)	1509	(38.6)	90	(2.3)	3 912	1882	(56.2)	1 3 9 3	(41.6)	71	(2.1)	3 346	
-	-	-	(3010)	-	-	-	-	-	-	-	-	-	-	Latvia
1	(100.0)	0	(0.0)	0	(0.0)	1	0	-	-	-	-	-	-	Liechtenstein
12	(1.1)	1 1 3 0	(98.9)	0	(0.0)	1 142	16	(1.5)	1 0 4 2	(98.5)	0	(0.0)	1 058	Lithuania
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	Malta
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	Poland ^a
409	(21.5)	1 493	(78.4)	3	(0.2)	1905	419	(23.7)	1 350	(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 2 4 7	(54.1)	364	(8.8)	4 150	Spain
422 3 519	(86.3) (69.9)	67 1 456	(13.7) (28.9)	0 61	(0.0) (1.2)	489 5 036	415 3 612	(86.6) (70.4)	64 1362	(13.4) (26.5)	0 158	(0.0) (3.1)	479 5 122	Sweden United Kingdom
18 329	(34.8)	33 295	(63.1)	1 116	(1.2)	5050 52 740	17 181	(70.4) (34.5)	31 239	(62.8)	1332	(2.7)		Subtotal EU/EEA
10 527	(34.0)	55275	(05.1)	1110	(2.1)	52 140	1, 101	(34.3)	51257	(02.0)	1552	(2.17)	47152	Non-EU/EEA
0	(0.0)	440	(100.0)	-	-	440	0	(0.0)	412	(100.0)	-	-	412	Albania
0	(0.0)	2	(100.0)	-	-	2	1	(20.0)	4	(80.0)	-	-		Andorra
10	(1.3)	786	(98.7)	-	-	796	12	(1.8)	658	(98.2)	-	-	670	Armenia
-	(0.0)	6 896	(100.0)	-	-	6.896	-	-	-	-	-	-	-	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)	-	-	580	Bosnia and Herzegovin
-	-	-	-	-	-	-	-	-	-	-	-	-	-	Georgia
245	(83.9)	47	(16.1)	-	-	292	188	(86.6)	29	(13.4)	-	-	217	Israel
200	(1.5)	13 161	(98.5)	-	-	13 361	161	(1.2)	12 829	(98.8)	-	-	12 990	Kazakhstan
-	(0.0)	7 585	(100.0)	-	-	7.585	0	(0.0)	7 039	(100.0)	-	-	7 039	Kyrgyzstan
-	-	-	-	-	-	-	-	-	-	-	-	-	-	Monaco
4	(4.8)	80	(95.2)	-	-	84	4	(4.9)	78	(95.1)	-	-	82	Montenegro
1	(0.5)	216	(99.5)	-	-	217	2	(1.0)	197	(99.0)	-	-	199	North Macedonia
17	(0.5)	3 4 4 8	(99.5)	-	-	3 465	19	(0.6)	3 2 3 6	(99.4)	-	-	3 255	Republic of Moldova
2 066	(1.9)	104 847	(98.1)	-	-	106 913	2070	(2.0)	101 909	(98.0)	-	-	103 979	Russian Federation
-	-	-	-	-	-	1 25 0	-	-	-	-	-			San Marino
5	(0.4)	1 353	(99.6)	-	-	1358	5	(0.4)	1 174	(99.6)	-	-	11/9	Serbia Serbia excluding
-	-	-	-	-	-	-	-	-	-	-	-	-	-	Kosovo ¹ Kosovo ¹
352	(68.2)	164	(31.8)	-	-	516	318	(73.1)	117	(26.9)	-	-		Switzerland
0	(0.0)	5 975	(100.0)	-	-	5 975	-	-	-	(2017)	-	-	-	Tajikistan
1 278	(10.8)	10 508	(89.2)	-	-	11 786	1454	(12.8)	9 947	(87.2)	-	-	11 401	Turkey
-	-	-	-	-	-	-	0	(0.0)	2 863	(100.0)	-	-	2.863	Turkmenistan
47	(0.2)	30 331	(99.8)	-	-	30 378	36	(0.1)	28 503	(99.9)	-	-	28 539	
0	(0.0)	18 496	(100.0)	-	-	18 496	0	(0.0)	18 774	(100.0)	-	-	18 774	Uzbekistan
	(2.0)	207 546	(98.0)	0	-	211 771	4 270	(2.2)	190 964	(97.8)	0	-	195 234	Subtotal non-EU/EEA
4 225	(8.5)	201 240	(90.0)	1 116	(0.4)		1 = 7 *	(8.8)			1 3 3 2	(0.5)		Total European Region

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).

		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																2019
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	-
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 [♭]	4	(1.9)	0.1	3	(1.7)	0.1	1	(0.6)	0.0	4	(2.5)	0.1	3	(1.8)	0.1	-7.5%
Estonia	18	(13.5)	1.4	17	(12.9)	1.3	26	(22.0)	2.0	22	(22.0)	1.7	16	(15.8)	1.2	-3.1%
Finland	7	(4.5)	0.1	2	(1.6)	0.0	4	(2.9)	0.1	4	(3.1)	0.1	2	(1.7)	0.0	-27.0%
France	-	-	-	33	(1.4)	0.0	-	-	-	21	(100.0)	0.0	20	(100.0)	0.0	-
Germany	40	(1.8)	0.0	50	(2.3)	0.1	51	(2.4)	0.1	55	(2.5)	0.1	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)	0.1	19.3%
Hungary	6	(1.8)	0.1	12	(4.1)	0.1	7	(2.5)	0.1	8	(2.7)	0.1	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	-
Ireland ^b	1	(1.0)	0.0	4	(3.1)	0.1	2	(1.9)	0.0	3	(3.2)	0.1	1	(1.1)	0.0	-1.2%
Italy	18	(2.3)	0.0	24	(3.1)	0.0	45	(2.4)	0.1	32	(1.8)	0.1	34	(2.0)	0.1	17.4%
Latvia	36	(7.9)	1.8	32	(7.6)	1.6	28	(7.7)	1.4	-	-	-	-	-	-	-
Liechtenstein	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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		(0.0)			(0.0)			(0, 0)			(1 -			(0, 0)		
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 Kazalıbatar	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 Monoco	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	-	(0, 0)	-	-	(0, 0)	-	-	(0, 0)	-	- 0	(0, 0)	-	- 0	(0, 0)	-	
Montenegro	0	(0.0)	0.0	0	(0.0) (1.5)	0.0	0	(0.0)	0.0		(0.0)	0.0		(0.0)	0.0	-100.0%
North Macedonia	3	(1.8)	0.1	2	(1.5)	0.1	0	(0.0)	0.0	2	(1.6)	0.1	200	(0.0)	0.0	
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 4 6 3	(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 Serbia	-	(1.0)	-	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	-15 70/
Serbia excluding Kosovo ¹	4	(1.0) (0.9)	0.0	3	(0.8)	0.0	1	(0.3)	0.0	2	(0.7) (0.7)	0.0	2	(0.8)	0.0	-15.7%
Kosovo ¹	2		0.0	3	(0.8) (0.0)	0.0	0	(0.3)	0.0	2		0.0	2	(0.8) (0.0)	0.0	-100.0%
Switzerland	2	(1.0) (3.2)	0.1	12		0.0	6	(0.0)	0.0	3	(0.0)	0.0	5		0.0	
				495	(4.3)				0.1					(2.6)		-8.9%
Tajikistan Turkey	484	(24.2)	5.7		(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		(21.2)	-	-	(22.0)	-	-	(21 4)	-	-	(22.2)	-	2 500	(20 E)	-	1.00
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%
Uzbekistan	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%
Subtotal non-EU/EEA	15 523 16 010	(22.9) (18.2)	3.9	14 813	(22.9)	3.7	14 077	(23.1)	3.5 1.7	14 589	(23.8) (17.9)	3.6	14 511	(22.9)	3.6 1.6	-2.3%
Total European Region		110.2	1.9	15 368	(17.8)	1.7	14 590	(17.6)	I I./	15 059	117.31	1.6	14 931	(18.1)	1.0	-3.9%

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

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. ^a 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. ^b Previous TB history is defined as previous diagnosis. ⁱ All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

		2015			2016			2017			2018			2019		Mean
Country/area	N	%	Rate per 100 000	N	%	Rate per 100000	N	%	Rate per 100000	N	%	Rate per 100000	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	-	(10 1)	-	18	(6.8)	0.0	-	(10 F)	-	16	(100.0)	0.0	18	(100.0)	0.0	11 70/
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 11	(0.0) (14.7)	0.0	0 10	(0.0)	0.0	1	(11.1)	0.0	-26.8%
Italy Latvia	14 26	(12.5) <i>(29.9)</i>	0.0 1.3	21	(9.3) <i>(23.3)</i>	1.1	17	(14.7)	0.0	-	(14.9)	0.0	4	(12.9)	0.0	-20.8%
Liechtenstein	20	(29.9)	0.0	0	(23.3)	0.0	0	(28.8)	0.9	-	(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	- 154	(40.5)	4.0	125	(45.0)	4.5	- 150	(51.5)	4.0	02	(37.0)	2.9	- 07	(37.2)	2.4	15.0%
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	(0.0)	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	(10.7)	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	
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)	0.1	604	(13.3)	0.1	521	(13.2)	0.1	423	(13.1)	0.1	343	(12.0)	0.1	-16.2%
Non-EU/EEA																
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)	0.0	-
Armenia	47	(87.0)	1.6	60	(57.7)	2.0	41	(38.0)	1.4	33	(40.2)	1.1	23	(35.4)	0.8	-16.6%
Azerbaijan	711	(29.7)	7.4	616	(39.3)	6.3	495	(29.0)	5.0	478	(19.0)	4.8	303	(15.5)	3.0	-20.1%
Belarus	597	(68.4)	6.3	568	(71.6)	6.0	459	(65.6)	4.9	425	(69.4)	4.5	305	(58.3)	3.2	-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	-
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	(16.7)	0.0	0	(0.0)	0.0	1	(50.0)	0.0	0	(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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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. <i>9</i>)	10.0	15 155	(62.9)	10.4	15 858	(65.3)	10.9	16.6%
San Marino	-	(2.2)	-	0	- (12 5)	0.0	0	-	0.0	0	-	0.0	0	-	0.0	400.000
Serbia Serbia excluding	1	(2.8)	0.0	5	(12.5)	0.1	4	(13.3)	0.0	1	(3.7) (3.7)	0.0	0	(0.0)	0.0	-100.0%
Kosovo ¹ Kosovo ¹	-	(2.0)	- 0.0	2	(7.5)	0.0	4	(0.0)	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	-	(-	-	(15.7)	-	-	(11.2)	-	-	(10.0)	-	-	(0.)	-	
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%
																3.3%
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	2.3%

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

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 or resistance prediction. The resistance priority country. MDR-TB: multidrug-resistant tuberculosis. ^a 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. ^b Previous TB history is defined as previous diagnosis. ^a All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

		2015			2016			2017			2018			2019		Mean
Country	N	%	Rate per 100 000	N	%	Rate per 100000	N	%	Rate per 100 000	N	%	Rate per 100 000	N	%	Rate per 100 000	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	1043	(3.1)	0.2	878	(3.1)	0.2	-11.4%

Table VII. MDR-TB notification among all bacteriologically confirmed^a TB cases with available DST results, EU/EEA, 2015-2019

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.

		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)	KDR-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	~		<u>a.</u>	~		<u>.</u>	~		<u>.</u>	~		<u>.</u>	~		<u>a.</u>
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)	.5	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	-	(0.0)	0	-	(4.5)	1	0	(0.0)	1	1	(100.0)
Cyprus	0	-	(0.0)	0	-	-	1	0	(0.0)	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	(20.0)	23	7	(30.4)	34	10	(29.4)	30	9	(30.0)	24	4	(0.0)
Finland	8	1	(12.5)	3	/	(33.3)	5	1	(29.4)	4	9	(25.0)	1	4	(0.0)
	76										8			8	
France		8	(10.5)	69	6	(8.7)	79	10	(12.7)	61		(13.1)	59		(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	-	-	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	-	-	0	-	-	0	-	-	0	-	-	0	-	-
Ireland	0	-	-	5	0	(0.0)	5	1	(20.0)	4	0	(0.0)	2	0	(0.0)
Italy	31	6	(19.4)	43	5	(11.6)	45	5	(11.1)	37	4	(10.8)	31	2	(6.5)
Latvia	62	16	(25.8)	53	20	(37.7)	45	17	(37.8)	-	-	-	-	-	-
Liechtenstein	0	-	-	0	-	-	0	-	-	0	-	-	-	-	-
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)	225	40	(0.0)	5	0	(0.0)
Slovenia	0	-	(0.0)	0	-	(0.0)	1	0	(0.0)	0	-	(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)
	999	204				(14.0)	907				160	(20.0)			
Subtotal EU/EEA	999	204	(20.4)	915	201	(22.0)	907	215	(23.7)	777	100	(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. <i>9</i>)	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	-	-	0	-	-	0	-	-
Republic of Moldova	-	-	-	514	42	(8.2)	475	30	(6.3)	616	74	(12.0)	441	49	(11.1)
Russian Federation	-	-	-	25 258	3 402	(13.5)	20 477	3 562	(17.4)	23 997	4 970	(20.7)	23 646	5 559	(23.5)
San Marino	-	-	-	0	-	-	0	-	-	0	-	-	0	-	()
Serbia	_	-	-	14	1	(7.1)	-	-	-	0	-	-	-	-	-
Serbia excluding Kosovo ¹	-	-	-	-	-	(7.1)	-	-	-	-	-	-	-	-	-
Kosovo ¹	_	-	_	-	-	-	_	_	_	_	-	-	_	_	
Switzerland	11	2	(18.2)	13	0	(0.0)	-	_	-	4	1	(25.0)	7	0	(0.0)
				697											
Tajikistan Turkov	561	54	(9.6)		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	-	-	-	-	-	(2, 2)	-	-	(20.0)	-	-	-	-	-	-
Ukraine	-	-	-	7 519	247	(3.3)	5 008	1 0 0 1	(20.0)	5 054	972	(19.2)	4 490	853	(19.0)
Uzbekistan	-	-	-	1986	184	(9.3)	-	-	-	-	-	-	515	179	(34.8)
Subtotal non-EU/EEA	3 332	752	(22.6)	38 142	4 6 4 8	(12.2)	28 345	5 403	(19.1)	32 262	6 436	(19.9)	31 757	7 133	(22.5)
Total European Region	4 331	956	(22.1)	39 057	4 849 <i>4 797</i>	(12.4)	29 252	5 618	(19.2)	33 039	6 596	(20.0)	32 320	7 259	(22.5)
Subtotal 18 HPCs	3 983	903	(22.7)	38 658		(12.4)	28 885	5 574	(19.3)	32 693	6 5 4 1	(20.0)	32 056	7 232	(22.6)

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

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. a Includes only countries reporting second-line anti-TB drug-susceptibility testing for at least one fluoroquinolone (ciprofloxacin, gatifloxacin, levofloxacin, moxifloxacin and ofloxacin) and one injectable drug (amikacin, capreomycin and kanamycin). b All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

	1		2015					2016					2017		
Countryland	cases (N)	Cases with HIV sta		HIV po	sitive	es (N)	Cases wit HIV st		HIV po	sitive	cases (N)	Cases wit HIV s		HIV po	sitive
Country/area	All TB cas	N	%	N	%⁵	All TB cases (N)	N	%	N	% ^b	All TB cas	N	%	N	%⁵
U/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)
inland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				-	-	_		-		-			-	-	_
Germany	-	-	-		-		-	-	-		-	-			
Greece	482	343	(71.2)	22	(6.4)	440	296	(67.3)	8	(2.7)	467	389	(83.3)	13	(3.3)
lungary	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Latvia	721	449	(62.3)	78	(17.4)	660	507	(76.8)	57	(11.2)	552	471	(85.3)	52	(11.0)
	/21	449	(02.3)	/0	(17.4)	000	- 507	(70.0)	- 27	(11.2)	552	4/1	(0).5/	52	(11.0)
Liechtenstein	4 505		(74.0)		(2.4)	-		(70.0)			4 005				(2 -
Lithuania	1 507	1 082	(71.8)	39	(3.6)	1442	1 138	(78.9)	41	(3.6)	1 387	1 125	(81.1)	42	(3.7)
Luxembourg	-	-	-	-	-	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)
Vetherlands	862	637	(73.9)	36	(5.7)	887	646	(72.8)	20	(3.1)	783	602	(76.9)	23	(3.8)
Vorway	313	260	(83.1)	8	(3.1)	295	255	(86.4)	10	(3.9)	261	228	(87.4)	7	(3.1)
Poland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Portugal	2 195	1984	(90.4)	232	(11.7)	1936	1697	(87.7)	183	(10.8)	1914	1744	(91.1)	149	(8.5)
Romania	15 183		(76.0)	308	(2.7)	13 601	10 844	(79.7)	305	(2.8)	12 997	10 890	(83.8)	232	(2.1)
		11 533													
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 0 2 0	3 156	(62.9)	223	(7.1)	5 070	3 0 2 1	(59.6)	243	(8.0)	5 6 6 0	2845	(50.3)	266	(9.3)
Sweden	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
United Kingdom	6 2 2 9	5 211	(83.7)	219	(4.2)	6 117	5 2 4 4	(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	01 710	-1 0 10	(1=10)		(110)			()=,		(11.57	51001		(1117)		(2.27)
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)	-	-	4	0	(0.0)	-	-	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 4 5 6	6 964	(127.6)	112	(1.6)	5 159	4 722	(91.5)	99	(2.1)	5 2 3 1	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)	2 705	2 000	(100.0)	18	(7.2)	234	2 442	(100.0)	12	(5.1)
Kazakhstan 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)
(yrgyzstan	7 027	6 745	(96.0)	206	(3.1)	7 026	6 2 5 4	(89.0)	210	(3.4)	6 687	5 966	(89.2)	216	(3.6)
Nonaco	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nontenegro	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 4 0 7	(9.8)	92 407	79 935	(86.5)	16 570	(20.7)	84 510	81 443	(96.4)	15 695	(19.3)
San Marino	-	0,00	(0).9)	0 407	(9.0)		17955	(00.)	10 570	(20.7)		01440	(70.4)	15 075	(17.)
		-			-	0	-	(44 4)	-		0	-	(1.0)	-	(44.0)
Serbia	879	91	(10.4)	4	(4.4)	755	84	(11.1)	5	(6.0)	1 450	71	(4.9)	8	(11.3)
Serbia excluding Kosovo ¹	879	91	(10.4)	4	(4.4)	755	84	(11.1)	5	(6.0)	738	91	(12.3)	8	(8.8)
Kosovo1	-	-	-	-	-	-	-	-	-	-	712	0	(0.0)	-	-
Switzerland	-	-	-	-	-	0	-	-	-	-	-	-	-	-	-
Tajikistan	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)
Furkey	12 550	8 759	(69.8)	59	(0.7)	12 186	8 5 4 9	(70.2)	56	(0.7)	11 821	8 423	(71.3)	65	(0.8)
	12 550		(09.0)	57	(0.7)	12 100	0 549	(/0.2)	50	(0.7)	11 021	0 423	(71.3)		(0.8)
Turkmenistan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ukraine	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)
Jzbekistan	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	162 424	(79.0)	15 499	(9.5)	193 640	173 793	(89.8)	25 018	(14.4)	183 486	172 391	(94.0)	24 235	(14.1)
Total European Region	243 695	189 769	(77.9)	16 747	(8.8)	229 895	200 212	(87.1)	26 148	(13.1)	218 290	198 375	(90.9)	25 256	(12.7)
Subtotal 18 HPCs	221 973	175 988	(79.3)	15 926	(9.0)	208 457	186 902	(89.7)	25 413	(13.6)	196 815	185 445	(94.2)	24 554	(13.2)

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

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. ^a 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. ^b Proportion calculated from TB cases with known HIV test results. ⁱ 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 with I stat		HIV po	sitive	(N)	Cases wit HIV st		HIV pos	sitive	
All TB cases (N)	SLAL	us %	N	% ^b	All TB cases (N)	N	w	N	%⁵	Country/area
	, it	,0		70	AILT		70			
										EU/EEA
-	-	-	-	-	-	-	-	-	-	Austria
977	502	(51.4)	35	(7.0)	968	505	(52.2)	44	(8.7)	Belgium
1 358	1 118	(82.3)	0	(0.0)	1 344	1 104	(82.1)	1	(0.1)	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	(3.1)	Denmark
147	137	(93.2)	13	(9.5)	150	141	(94.0)	16	(11.3)	Estonia
-	-	-	-	-	-	-	-	-	-	Finland
-	-	-	-	-	-	-	-	-	-	France
-	-	-	-	(2.0)	-	-		-	-	Germany
432 640	362 23	(83.8) (3.6)	11 3	(3.0)	459 552	408 32	(88.9) (5.8)	19 3	(4.7)	Greece
8	8	(100.0)	2 1	(13.0) (12.5)	13	52 11	(84.6)	0	(9.4)	Hungary Iceland
310	160	(51.6)	13	(12.5)	266	106	(39.8)	10	(9.4)	Ireland
510	100	(31.0)	-	(0.1)	200	100	(39.0)	-	(9.4)	Italy
-	-	-	-	-	-	-	-	-	-	Latvia
_	_	_	-	-	-	_	-	-	-	Liechtenstein
1 1 4 2	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	(0.0)	Luxembourg
-	-	-	-	(0.0)	-	-	-	-	(0.0)	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)	Norway
	-	-	-	-	-	-	-	-	-	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	(2.0)	Romania
281	238	(84.7)	2	(0.8)	214	148	(69.2)	4	(2.7)	Slovakia
99	80	(80.8)	0	(0.0)	101	73	(72.3)	1	(1.4)	Slovenia
4 6 4 8	2 4 4 8	(52.7)	275	(11.2)	-	-	-	-	-	Spain
-	-	-	-	-	-	-	-	-	-	Sweden
5 075	4 323	(85.2)	123	(2.8)	-	-	-	-	-	United Kingdom
31 426	23 598	(75.1)	956	(4.1)	20 620	16 088	(78.0)	502	(3.1)	Subtotal EU/EEA
										Non-EU/EEA
440	215	(48.9)	6	(2.8)	412	368	(89.3)	8	(2.2)	
2	0	(0.0)	-	-	5	0	(0.0)	-	-	Andorra
734	699	(95.2)	72	(10.3)	621	591	(95.2)	62	(10.5)	Armenia
5 038	6 4 8 3	(128.7)	87	(1.3)	4 823	4 534	(94.0)	71	(1.6)	
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	(3.7)	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
-	-	-	-	-	-	-	-	-	-	Monaco
84	43	(51.2)	0	(0.0)	80	76	(95.0)	0	(0.0)	0
217	126	(58.1)	3	(2.4)	199	152	(76.4)	1	(0.7)	
3 022	2 893	(95.7)	248	(8.6)	2 809	2 792	(99.4)	295	(10.6)	
78 258	74 075	(94.7)	14 797	(20.0)	73 328	70 610	(96.3)	16 453	(23.3)	
0	-	(0.7)	-	(14.2)	0	-	-	-	-	
641 641	56 56	(8.7) (8.7)	8 8	(14.3) (14.3)	501 501	39 39	(7.8) (7.8)	3	(7.7)	Serbia Serbia excluding Kosove
041	56	(8.7)	8 -	(14.3)	501	39	(7.8)	3	(/./)	Kosovo ¹
_	-	-	-	-	-	-	-	-		Switzerland
5 726	5 545	- (96.8)	- 227	(4.1)	- 5 755	- 5 660	(98.3)	- 167	(3.0)	
11 576	5 545 8 234	(96.8)	67	(4.1)	5755 11247	5 660 8 814	(98.3)	107	(3.0)	
11 5/6	8 2 3 4	(/1.1)	6/	(0.8)	11 247	8 814	(/8.4)	104	(1.2)	Turkey Turkmenistan
26 512	26 312	(99.2)	6 053	(23.0)	25 379	25 210	(99.3)	5 800	(23.0)	
16 413	16 413	(100.0)	736	(4.5)	16 272	16 272	(100.0)	647	(25.0)	
173 466	163 926	(100.0) (94.5)	23 447	(14.3)	165 243	157 586	(100.0) (95.4)	24 606		Subtotal non-EU/EEA
1/3400						173 674	(93.4)			
 204 892	187 524	(91.5)	24 403	(13.0)	185 863	1/46/4	144 41	25 108	(14.5)	Total Filluneau Region

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).

		2014			2015			2016			2017			2018	
Country/area	Cases	Succ	ess	Cases	Succ	ess	Cases	Succ	ess	Cases	Succ	ess	Cases	Succ	ess
	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	867	700	(80.7)	905	719	(79.4)	973	793	(81.5)	905	718	(79.3)	902	737	(81.7)
Bulgaria	1 789	1 530	(85.5)	1 598	1 350	(84.5)	1 510	1 2 9 1	(85.5)	1 386	1 167	(84.2)	1 268	1 0 8 5	(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 5 2 5	3 590	(65.0)	5 635	3 926	(69.7)	5 2 3 8	3 711	(70.8)	5 216	3 7 2 4	(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	288	162	(56.3)	265	191	(72.1)	285	168	(58.9)	277	163	(58.8)	284	110	(38.7)
Italy		-	(2012)		-	-		-		-	-	-	-	-	(==)
Latvia	675	561	(83.1)	642	540	(84.1)	592	505	(85.3)	-	-	-	-	-	-
Liechtenstein	-	-	(00.1)	1	0	(0.0)	2	2	(100.0)	1	1	(100.0)	-	-	-
Lithuania	1 2 8 2	1 033	(80.6)	1 219	975	(80.0)	1 152	958	(83.2)	1 086	905	(83.3)	926	807	(87.1)
Luxembourg	1202	-	(00.0)	-	-	(00.0)	- 1152	-	(03.2)	31	905	(0.0)	41	0	(0.0)
Malta	-	_	-	-	_	-		_		-	-	(0.0)	- 41	-	(0.0)
Netherlands	797	708	(88.8)	838	732	(87.4)	864	- 758	(87.7)	762	665	(87.3)	775	- 664	(85.7)
Norway	292	251		277	244	(88.1)	262	226		228	214		182		
,			(86.0)						(86.3)		214	(93.9)		153	(84.1)
Poland	6 500	3 783	(58.2)	6 196	3 293	(53.1)	6 099	3 300	(54.1)	-			-		((74)
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 7 2 1	(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 6 6 9	(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	104	050	(00.0)	(00	05.4	(0(()	(0.0	057	(07.0)	(00	(05	(07.0)	101	224	(00.0)
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)	1464	1 2 2 5	(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)	1 792	1 587	(88.6)	1 418	1 250	(88.2)
Bosnia and Herzegovina	1 196	923	(77.2)	1 0 9 2	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	5 7 3 1	4 837	(84.4)	6 139	5 0 6 3	(82.5)	6 072	4 968	(81.8)	5 752	4 728	(82.2)	5 333	4 321	(81.0)
Monaco	0	-	-	-	-	-	0	-	-	-	-	-	-	-	-
Montenegro	113	101	(89.4)	80	74	(92.5)	87	70	(80.5)	75	65	(86.7)	81	77	(95.1)
North Macedonia	281	244	(86.8)	282	243	(86.2)	263	232	(88.2)	219	193	(88.1)	214	187	(87.4)
Republic of Moldova	3 459	2 724	(78.8)	2 992	2 379	(79.5)	3 048	2 515	(82.5)	2 715	2 187	(80.6)	2 312	1 954	(84.5)
Russian Federation	77 136	53 266	(69.1)	80 424	57 060	(70.9)	73 137	52 335	(71.6)	67 593	46 938	(69.4)	59 850	41 154	(68.8)
San Marino	-	-	-	0	-	-	0	-	-	0	-	-	0	-	-
Serbia	1 2 8 1	1042	(81.3)	1647	1 471	(89.3)	1 4 4 3	1 191	(82.5)	1440	1 2 3 9	(86.0)	1 2 6 5	1 0 3 2	(81.6)
Serbia excluding Kosovo ¹	1045	828	(79.2)	882	733	(83.1)	733	590	(80.5)	738	616	(83.5)	579	459	(79.3)
Kosovo ¹	236	214	(90.7)	765	738	(96.5)	710	601	(84.6)	702	623	(88.7)	686	573	(83.5)
Switzerland	-	-	-	-	-	-	565	384	(68.0)	518	406	(78.4)	376	309	(82.2)
Tajikistan	5 149	4 606	(89.5)	5 298	4 734	(89.4)	5 324	4 751	(89.2)	5 259	4 789	(91.1)	4 995	4 4 5 2	(89.1)
Turkey	12 933	11 245	(86.9)	12 362	10 735	(86.8)	12 017	10 462	(87.1)	11 638	10 014	(86.0)	11 407	9 691	(85.0)
Turkmenistan	2 122	1797	(84.7)	1 669	1 451	(86.9)	2 068	1738	(84.0)	1968	1 676	(85.2)	2 157	1 780	(82.5)
Ukraine	22 294	16 109	(72.3)	23 892	17 939	(75.1)	22 615	17 234	(76.2)	21 165	16 189	(76.5)	20 221	15 607	(77.2)
Uzbekistan	16 328	14 215	(87.1)	15 220	13 536	(88.9)	14 743	12 906	(87.5)	15 167	13 554	(89.4)	14 423	13 217	(91.6)
	10 20	1721)		15220	טרר כי	(00.7)	(+/+)	12 700	(07.3)						
	169 640	120 000	(74 4)	172 520	125 220	(77 0)	156 000	121 004	(77 7)	150 210	116 209	(77 5)	127 762	106 421	
Subtotal non-EU/EEA Total European Region	169 649 213 802	130 009 163 769	(76.6)		135 230 171 468	(77.9)	156 898 202 321	121 896 156 035	(77.7) (77.1)	150 219 187 209	116 398 145 044	(77.5) (77.5)	137 742 173 058	106 631 132 440	(77.4) (76.5)

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

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. ^a For EU/EEA countries, cases with unknown TB history are considered as new cases. ^b Excluding rifampicin-resistant cases. ^c Previous TB history is defined as previous diagnosis. ^a All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

		2014			2015			2016			2017			2018	
Country/area	Cases	Succe		Cases	Succ		Cases	Succ	ess	Cases	Succ		Cases	Suco	
	reported	N	(%)	reported	N	(%)	reported	N	(%)	reported	N	(%)	reported	N	(%)
EU/EEA						()						<i>(</i>)			
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 8 8 8	2 592	(53.0)	4 744	2 535	(53.4)	5 7 3 5	2 625	(45.8)	5 015	2 4 4 6	(48.8)	5 0 9 2	533	(10.5)
Germany	4 524	2 819	(62.3)	5 837	3 717	(63.7)	5 925	4 0 4 6	(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 4 4 2	982	(68.1)	1 387	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 4 4 4	3 432	(53.3)	-	-	(0).)	-		(02.7)
Portugal	2 278	1 6 2 5	(71.3)	2 195	1579	(71.9)	1936	1347	(69.6)	1 914	1 3 7 2	(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 6 6 0	3 554	(62.8)	4 766	2 134	(44.8)
Sweden	659	570	(86.5)	815	688	(84.4)	714	630	(88.2)	519	439	(84.6)	4700	372	(76.1)
United Kingdom		5 675	(80.7)	6 228	4 9 4 4	(79.4)	6 116		(80.6)	5 531		(84.6)	5 036	3 943	(78.3)
•	7 029 57 313	40 430	(80.7)	56 634	4 944	(79.4) (70.7)	55 423	4 931 38 857	(80.8)	45 584	4 485 32 811	(72.0)	42 811	27 277	(78.5) (63.7)
Subtotal EU/EEA	5/ 515	40 430	(70.5)	20 024	40 030	(/0./)	33 423	20 02/	(70.1)	42 204	32 011	(72.0)	42 011	21 211	(03.7)
Non-EU/EEA	406	25.0	(00.2)	600	25.4	(0(()	600	257	(07.2)	600	625	(07.2)	62.6	206	(00.0)
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	1 242	966	(77.8)	923	731	(79.2)	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 4 4 4	(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 4 4 1	(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 6 4 6	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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 4 4 3	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 2 9 5	1049	(81.0)	1669	1484	(88.9)	1464	1 2 0 3	(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)
Kosovo	-	-	-	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)		147 506	(76.2)	176 179	133 284	(75.7)	169 221	127 640	(75.4)	155 599	116 940	(75.2)
	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)
Total European Region															

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

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).

		2013			2014			2015	-		2016			2017	
Country/area	Cases	Suco	cess	Cases	Suco	ess	Cases	Suco	cess	Cases	Succ	ess	Cases	Succ	ess
	reported	N	(%)	reported	N	(%)	reported	N	(%)	reported	N	(%)	reported	N	(%)
EU/EEA															
Austria	16	12	(75.0)	21	13	(61.9)	13	12	(92.3)	17	11	(64.7)	19	10	(52.6)
Belgium	14	11	(78.6)	13	7	(53.8)	16	16	(100.0)	12	10	(83.3)	8	6	(75.0)
Bulgaria	37	17	(45.9)	44	22	(50.0)	28	17	(60.7)	22	12	(54.5)	29	18	(62.1)
Croatia	0	-	-	1	0	(0.0)	1	1	(100.0)	0	-	-	0	-	-
Cyprus	-	-	-	0	-	-	0	-	-	-	-	-	-	-	-
Czechia	0	-	-	7	3	(42.9)	9	3	(33.3)	5	2	(40.0)	8	3	(37.5)
Denmark	2	1	(50.0)	2	1	(50.0)	7	0	(0.0)	5	3	(60.0)	2	1	(50.0)
Estonia	54	34	(63.0)	51	32	(62.7)	40	25	(62.5)	25	18	(72.0)	35	28	(80.0)
Finland	-	-	(05.0)	7	2	(28.6)	9	4	(44.4)	6	4	(66.7)	5	20	(40.0)
France	-	-	-	-	_	(20.0)	-	-	(++++)	-	-	(00.7)	_	_	(40.0)
Germany	114	41	(36.0)	105	35	(33.3)	131	54	(41.2)	121	45	(37.2)	135	75	(55.6)
Greece	114	41	(30.0)	-	-	(55.5)	101	54	(41.2)	121	4)	(37.2)	(()	75	(55.0)
	- 11		(36.4)			(100.0)	9	2	(22.2)	20	8	(40.0)	- 13	6	(46.2)
Hungary		4	(36.4)	4	4	(100.0)			(22.2)			(40.0)	-	0	(46.2)
Iceland	0	-	(75.0)	0	-	(50.0)	0	-	(0, 0)	0	-	(74 ()	0	-	(22.2)
Ireland	4	3	(75.0)	2	1	(50.0)	1	0	(0.0)	7	5	(71.4)	6	2	(33.3)
Italy	-	-	((2, ()	-	-	(70.0)	-	-	((()	-	-	-	-	-	-
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 4 4 4	628	(43.5)	1 3 7 9	601	(43.6)	1 3 3 4	629	(47.2)	1 180	589	(49.9)	1 142	519	(45.4)
Non-EU/EEA			1										-		
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)		58	(49.2)	104	52	(50.0)
Azerbaijan	647	382	(59.0)	745	441	(59.2)	800	473	(59.1)	798	480	(60.2)	858	509	(59.3)
Belarus	2 136	1 152	(53.9)	1 472	872	(59.2)	1 400	899	(64.2)	1 180	796	(67.5)	1 067	752	(70.5)
Bosnia and Herzegovina	1	1	(100.0)	3	2	(66.7)	1 400	1	(100.0)	-	-	(07.5)	-	-	(/ 0.)/
Georgia	411	176	(42.8)	411	201	(48.9)	412	231	(56.1)	339	222	(65.5)	316	203	(64.2)
Israel	7	4	(42.0)	16	12	(75.0)	10	251	(80.0)	9	6	(66.7)	7	205	(71.4)
		4 4 730		6 320	4 813		6 482			6 2 6 0			5 338	5 4 340	
Kazakhstan	6 527		(72.5)			(76.2)		5 0 6 3	(78.1)		4 979	(79.5)			(81.3)
Kyrgyzstan	1064	611	(57.4)	1 157	650	(56.2)	1 162	624	(53.7)	1 232	655	(53.2)	1166	643	(55.1)
Monaco	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Montenegro	0	-	-	2	0	(0.0)	1	1	(100.0)	0	-	-	0	-	-
North Macedonia	2	1	(50.0)	3	1	(33.3)	5	2	(40.0)	2	1	(50.0)	1	0	(0.0)
Republic of Moldova	943	538	(57.1)	919	457	(49.7)	996	487	(48.9)		518	(52.9)	962	537	(55.8)
Russian Federation	18 213	8 802	(48.3)	20 089	10 170	(50.6)	22 607	12 117	(53.6)		12 141	(53.7)	22 901	12 629	(55.1)
San Marino	-	-	-	-	-	-	-	-	-	0	-	-	0	-	-
Serbia	19	15	(78.9)	19	12	(63.2)	10	9	(90.0)		9	(75.0)	10	7	(70.0)
Serbia excluding Kosovo ¹	13	10	(76.9)	13	7	(53.8)	5	4	(80.0)	10	7	(70.0)	6	4	(66.7)
Kosovo1	6	5	(83.3)	6	5	(83.3)	5	5	(100.0)	2	2	(100.0)	4	3	(75.0)
Switzerland	-	-	-	12	9	(75.0)	16	7	(43.8)	17	8	(47.1)	12	10	(83.3)
Tajikistan	625	375	(60.0)	804	398	(49.5)	682	398	(58.4)	681	440	(64.6)	546	352	(64.5)
Turkey	228	149	(65.4)	257	163	(63.4)	230	156	(67.8)	211	131	(62.1)	202	139	(68.8)
Turkmenistan	81	0	(0.0)	213	143	(67.1)	210	142	(67.6)	557	303	(54.4)	343	226	(65.9)
Ukraine	7 633	2 948	(38.6)	7 174	3 2 9 7	(46.0)	7 592	3 855	(50.8)	7 277	3 590	(49.3)	6 685	3 407	(51.0)
Uzbekistan	2 647	1 390	(52.5)	3 602	2 216	(61.5)	2 149	1 2 5 9	(58.6)	1 986	1 140	(57.4)	2 265	1 372	(60.6)
	41 288	21 319	(51.6)	43 336	23 925	(55.2)	44 863	25 775	(57.5)		25 478	(57.6)	42 783	25 183	(58.9)
Subtotal non-EU/EEA															
Subtotal non-EU/EEA Total European Region	42 732	21 947	(51.4)	44 715	24 526	(54.8)	46 197	26 404	(57.2)		26 067	(57.4)	43 925	25 702	(58.5)

Table XII. Treatment success after 24 months among RR/MDR-TB cases started on treatment,^a European Region, 2013-2017

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. ^a For EU/EEA countries, cases diagnosed postmortem were excluded, and cases with no data on treatment enrolment were assumed to be enrolled to treatment. 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).
		2013			2014			2015			2016			2017	
		Suco	cess		Succ	ess		Suco	ess		Succ	ess		Succ	ess
Country/area	ca ses)			ca se:			ca se:			ca se:			case		
country/area	XDR-TB c (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	-	-	0	-	-	0	-	-	0	-	-	0	-	-
Ireland	1	1	(100.0)	0	-	-	0	-	-	0	-	-	1	1	(100.0)
Italy	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Latvia	15	11	(73.3)	13	10	(76.9)	16	8	(50.0)	-	-	-	-	-	-
Liechtenstein	0	-	-	0	-	-	0	-	-	0	-	-	-	-	-
Lithuania	47	0	(0.0)	61	0	(0.0)	59	0	(0.0)	58	0	(0.0)	87	0	(0.0)
Luxembourg	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-
Malta	1	0	(0.0)	0	-	-	0	-	-	0	-	-	0	-	-
Netherlands	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	-	-
Romania	56	9	(16.1)	57	9	(15.8)	71	28	(39.4)	68	23	(33.8)	57	0	(0.0)
Slovakia	0	-	-	0	-	-	0	-	-	0	-	-	2	0	(0.0)
Slovenia	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)	-	-	-	-	-	-	-	-	-	-	-	(400.0)
Montenegro	0	-	-	0	-	-	0	-	-	1	1	(100.0)	1	1	(100.0)
North Macedonia	0	-	-	0	-	(22.2)	0	-	(45 ()	0	-	-	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 0 9 4	(37.6)	4 140	1 710	(41.3)
San Marino	-	-	-	-	-	-	-	-	-	0	-	-	0	-	-
Serbia	0	-	-	0	-	-	0	-	-	1	0	(0.0)	0	-	-
Serbia excluding Kosovo ¹	-	-	-	-	-	-	-	-	-	-	-	-	0	-	-
Kosovo ¹	-	-	-	-	-	-	-	-	-	-	-	-	0	-	-
Switzerland	-	-	-	1	0	(0.0)	0	-	-	0	-	-	0	-	-
Tajikistan	4	3	(75.0)	-	-	-	-	-	-	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)	2	0	(0.0)
Turkmenistan	-	-	-	1.007	-	(25.0)	-	-	(25.2)	-	-	(27.0)	1 276	2	(40.0)
Ukraine	-	-	-	1 0 9 7	278	(25.3)	1206	424	(35.2)	1 353	501	(37.0)	1 376	473	(34.4)
												(AO E)	750	162	(62.8)
Uzbekistan	-	-	-	-	-	(20.0)	147	34	(23.1)	184	91	(49.5)	258		
	2 614 2 767	- 713 745	(27.3) (26.9)	4 236 4 406	1 267 1 295	(29.9) (29.4)	5 291 5 486	1868 1922	(35.3) (35.0)	5 528 5 692	2 189 2 228	(39.6) (39.1)	7 216 7 397	3 165 3 179	(43.9) (43.0)

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

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. ^a For EU/EEA countries, cases diagnosed postmortem are excluded, and cases with no treatment enrolment data reported are assumed to be enrolled to treatment. 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).

		2012			2013			2014			2015			2016	
	es	Suco	cess	es	Suc	cess	es	Suco	ess	es	Suco	ess:	es	Suco	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)

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

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.

		2015			2016			2017			2018			2019	
Country/area	New and relapse TB cases	Cases test WHO-recor rapid diag	nmended	New and relapse TB cases	Cases test WHO-recon rapid diag	ımended	New and relapse TB cases	Cases test WHO-recom rapid diag	nmended	New and relapse TB cases	WHO-reco	ted using mmended gnostics	New and relapse TB cases	Cases test WHO-recor rapid dia	nmended
	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)	1 2 9 0	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 4 4 6	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)	5739	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 0	(42.7)	417	168	(40.3)	434	204	(47.0)	406	181	(44.6)	434	219	(50.5)
Hungary	858	6	(0.0)	737	0	(0.0) (83.3)	650	0	(0.0) (92.3)	602 8	0	(0.0) (100.0)	528 13	0	(0.0) (92.3)
Iceland Ireland ^d	266	84	(85.7)	290	118	(40.7)	13 283	12	(43.8)	290	0 140	(48.3)	247	12 114	(46.2)
Italy	3 476	84 0	(31.6) (0.0)	3 778	0	(40.7)	3 828	124 0	(43.8)	3 777	0	(48.3)	3 185	0	(46.2)
Latvia	697	0	(0.0)	641	0	(0.0)	543	178	(32.8)	- 3777	-	(0.0)	5 105	-	(0.0)
Liechtenstein	1	0	(0.0)	2	0	(0.0)	1	1	(100.0)	1	1	(100.0)	-	-	-
Lithuania	1 395	0	(0.0)	1 347	0	(0.0)	1 268	0	(100.0)	1063	0	(100.0)	1 006	0	(0.0)
Luxembourg	30	0	(0.0)	29	0	(0.0)	32	0	(0.0)	42	0	(0.0)	48	0	(0.0)
Malta	32	2	(6.3)	50	17	(34.0)	42	13	(31.0)	55	0	(0.0)	98	0	(0.0)
Netherlands	846	634	(74.9)	875	588	(67.2)	772	576	(74.6)	781	579	(74.1)	746	573	(76.8)
Norway ^d	282	252	(89.4)	273	204	(74.7)	237	183	(77.2)	188	150	(79.8)	153	130	(85.0)
Poland	6 237	743	(11.9)	6 143	888	(14.5)	5 535	1 0 3 7	(18.7)	5 196	1054	(20.3)	4 983	1 0 9 4	(22.0)
Portugal	2 154	333	(15.5)	1891	349	(18.5)	1870	404	(21.6)	1 856	454	(24.5)	1720	479	(22.0)
Romania	14 215	1	(0.0)	12 774	846	(6.6)	12 303	3 214	(21.0)	11 581	2 757	(24.5)	11 083	2 808	(25.3)
Slovakia	308	68	(22.1)	281	58	(20.6)	228	56	(20.1)	273	66	(24.2)	214	60	(28.0)
Slovenia	129	109	(84.5)	118	96	(81.4)	112	95	(84.8)	98	81	(82.7)	98	84	(85.7)
Spain	4 818	997	(20.7)	3 973	976	(24.6)	4 522	1 2 2 8	(27.2)	4 614	1 181	(25.6)	4 071	1 2 0 5	(29.6)
Sweden	776	551	(71.0)	691	461	(66.7)	487	412	(84.6)	475	326	(68.6)	478	386	(80.8)
United Kingdom ^d	5844	328	(5.6)	5726	377	(6.6)	5 219	416	(8.0)	4 723	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															
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	1 0 9 2	1092	(100.0)	907	0	(0.0)	-	-	-	-	-	-	-	-	-
Georgia	3 152	2 008	(63.7)	2 983	2 421	(81.2)	2 597	2 000	(80.8)	2 316	1940	(83.8)	2 169	1 824	(84.1)
Israel			(- ,		(+=)	2 371	2 099	(00.0)	2 510					
Kazakhstan	-	-	-	-	-	-	- 2 397	2 099	-	-	-	-	-	-	-
Kyrgyzstan	- 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)
	– 14 006 7 027	-	-	-	-	-	- 12 449 6 687	-	-	-	- 11 454 3 910	- (89.3) (61.7)	- 12 501 6 138	-	- (92.1) (74.5)
Monaco	7 027	- 11 631 1 502 -	- (83.0) (21.4) -	- 12 322 7 026 -	- 10 505 2 533 -	- (85.3) (36.1) -	- 12 449 6 687 -	- 10 226 4 330 -	- (82.1) (64.8) -	- 12 832 6 338 -	3 910 -	(61.7)	6 138 -	- 11 513 4 575 -	(74.5)
Monaco Montenegro	7 027	- 11 631 1 502	- (83.0)	- 12 322 7 026 - 87	- 10 505 2 533 - 25	- (85.3) (36.1) - (28.7)	- 12 449 6 687 - 75	- 10 226 4 330 - 48	- (82.1) (64.8) - (64.0)	- 12 832 6 338 - 84	<i>3 910</i> - 64	(61.7) - (76.2)	6 138 - 80	- 11 513 4 575 - 57	(74.5) - (71.3)
Monaco Montenegro North Macedonia	7 027 - 80 -	- 11 631 1 502 - 0 -	- (83.0) (21.4) - (0.0) -	- 12 322 7 026 - 87 263	- 10 505 2 533 - 25 0	- (85.3) (36.1) - (28.7) (0.0)	- 12 449 6 687 - 75 216	- 10 226 4 330 - 48 152	- (82.1) (64.8) - (64.0) (70.4)	- 12 832 6 338 - 84 217	3 910 - 64 147	(61.7) - (76.2) (67.7)	6 138 - 80 199	- 11 513 4 575 - 57 0	(74.5) - (71.3) (0.0)
Monaco Montenegro North Macedonia Republic of Moldova	7 027 - 80 - 3 608	- 11 631 1 502 -	- (83.0) (21.4) -	- 12 322 7 026 - 87 263 3 571	- 10 505 2 533 - 25 0 1 813	- (85.3) (36.1) - (28.7) (0.0) (50.8)	- 12 449 6 687 - 75 216 3 358	- 10 226 4 330 - 48 152 3 129	- (82.1) (64.8) - (64.0) (70.4) (93.2)	- 12 832 6 338 - 84 217 3 022	3 910 - 64 147 2 857	(61.7) - (76.2) (67.7) (94.5)	6 138 - 80 199 2 809	- 11 513 4 575 - 57 0 2 809	(74.5) - (71.3) (0.0) (100.0)
Monaco Montenegro North Macedonia Republic of Moldova Russian Federation	7 027 	- 11 631 1 502 - 0 - 3 054 -	- (83.0) (21.4) - (0.0) -	- 12 322 7 026 - 87 263	- 10 505 2 533 - 25 0 1 813 64 512	- (85.3) (36.1) - (28.7) (0.0) (50.8) (69.8)	- 12 449 6 687 - 75 216	- 10 226 4 330 - 48 152 3 129 65 843	- (82.1) (64.8) - (64.0) (70.4) (93.2) (77.9)	- 12 832 6 338 - 84 217	3 910 - 64 147 2 857 57 344	(61.7) - (76.2) (67.7)	6 138 - 80 199	- 11 513 4 575 - 57 0	(74.5) - (71.3) (0.0)
Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino	7 027 	- 11 631 1 502 - 0 - 3 054 - -	- (83.0) (21.4) - (0.0) - (84.6) -	- 12 322 7 026 - 87 263 3 571 92 407 -	- 10 505 2 533 - 25 0 1 813 64 512 -	- (85.3) (36.1) - (28.7) (0.0) (50.8) (69.8) -	- 12 449 6 687 - 75 216 3 358 84 510 -	- 10 226 4 330 - 48 152 3 129 65 843 -	- (82.1) (64.8) - (64.0) (70.4) (93.2) (77.9) -	- 12 832 6 338 - 84 217 3 022 78 258 -	3 910 - 64 147 2 857 57 344 -	(61.7) - (76.2) (67.7) (94.5) (73.3)	6 138 80 199 2 809 73 328 	- 11 513 4 575 - 57 0 2 809 58 300 -	(74.5) - (71.3) (0.0) (100.0) (79.5) -
Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia	7 027 	- 11 631 - 0 - 3 054 - - -	- (83.0) (21.4) - (0.0) - (84.6) - -	- 12 322 7 026 - 87 263 3 571 92 407 - -	- 10 505 2 533 - 25 0 1 813 64 512 - -	- (85.3) (36.1) - (28.7) (0.0) (50.8) (69.8) - -	- 12 449 6 687 - 75 216 3 358 84 510 - 1 450	- 10 226 4 330 - 48 152 3 129 65 843 - 275	- (82.1) (64.8) - (64.0) (70.4) (93.2) (77.9) - (19.0)	- 12 832 6 338 - 84 217 3 022 78 258 - 1 330	3 910 - 64 147 2 857 57 344 - 399	(61.7) - (76.2) (67.7) (94.5) (73.3) - (30.0)	6 138 - 80 199 2 809 73 328 - 1106	- 11 513 4 575 - 57 0 2 809 58 300 - 414	(74.5) - (71.3) (0.0) (100.0) (79.5) - (37.4)
Monaco Montenegro North Macedonia <i>Republic of Moldova</i> <i>Russian Federation</i> San Marino Serbia Serbia excluding Kosovo ¹	7 027 	- 11 631 - 0 - 3 054 - - - -	- (83.0) (21.4) - (0.0) - (84.6) - -	- 12 322 7 026 - 87 263 3 571 92 407 - - -	- 10 505 2 533 - 25 0 1 813 64 512 - - - -	- (85.3) (36.1) - (28.7) (0.0) (50.8) (69.8) - -		- 10 226 4 330 - 48 152 3 129 65 843 - 275 0	- (82.1) (64.8) - (64.0) (70.4) (93.2) (77.9) - (19.0) (0.0)	- 12 832 6 338 - 84 217 3 022 78 258 - 1 330 641	3 910 - 64 147 2 857 57 344 - 399 0	(61.7) (76.2) (67.7) (94.5) (73.3) - (30.0) (0.0)	6 138 - 80 199 2 809 73 328 - 1106 501	- 11 513 4 575 - 57 0 2 809 58 300 - 414 0	(74.5) - (71.3) (0.0) (100.0) (79.5) - (37.4) (0.0)
Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo' Kosovo'	7 027 	- 11 631 1 502 - 0 - 3 054 - - - - - - - -	- (83.0) (21.4) - (0.0) - (84.6) - - -	- 12 322 7 026 - 87 263 3 571 92 407 - - - -	- 10 505 2 533 - 25 0 1 813 64 512 - - - - - - -	- (85.3) (36.1) - (28.7) (0.0) (50.8) (69.8) - - -			- (82.1) (64.8) - (64.0) (70.4) (93.2) (77.9) - (19.0) (0.0) (38.6)		3 910 - 64 147 2 857 57 344 - 399 0 399	(61.7) (76.2) (67.7) (94.5) (73.3) - (30.0) (0.0) (57.9)	6 138 - 80 199 2 809 73 328 - 1 106 501 605		(74.5) - (71.3) (0.0) (100.0) (79.5) - (37.4) (0.0) (68.4)
Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo ¹ Kosovo ¹ Switzerland	7 027 	- 11 631 1 502 - 0 - 3 054 - - - - - - - -	- (83.0) (21.4) - (0.0) - (84.6) - - - - -		- 10 505 2 533 - 25 0 1 813 64 512 - - - -	- (85.3) (36.1) - (28.7) (0.0) (50.8) (69.8) - - - - -		- 10 226 4 330 - 48 152 3 129 65 843 - 275 0 275 354	- (82.1) (64.8) - (64.0) (70.4) (93.2) (77.9) - (19.0) (0.0) (38.6) (66.9)		3 910 - 64 147 2 857 57 344 - 399 0 399 -	(61.7) (76.2) (67.7) (94.5) (73.3) - (30.0) (0.0) (57.9) -	6 138 - 80 199 2 809 73 328 - 1106 501 605 402		(74.5) (71.3) (0.0) (100.0) (79.5) - (37.4) (0.0) (68.4) (75.6)
Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo ¹ Kosovo ¹ Switzerland Tajikistan	7 027 			- 12 322 7 026 - 87 263 3 571 92 407 - - - -	- 10 505 2 533 - 25 0 1 813 64 512 - - - - 4 368	- (85.3) (36.1) - (28.7) (0.0) (50.8) (69.8) - - - - - - - (73.2)			- (82.1) (64.8) - (64.0) (70.4) (93.2) (77.9) - (19.0) (0.0) (38.6) (66.9) (52.2)		3 910 - 64 147 2 857 57 344 - 3999 0 3999 - 4 235	(61.7) (76.2) (67.7) (94.5) (73.3) - (30.0) (0.0) (57.9)	6 138 - 80 199 2 809 73 328 - 1 106 501 605		(74.5) - (71.3) (0.0) (100.0) (79.5) - (37.4) (0.0) (68.4)
Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo ¹ Kosovo ¹ Switzerland Tajikistan Turkey	7 027 				- 10 505 2 533 - 25 0 1 813 64 512 - - - 4 368 -			- 10 226 4 330 - 48 152 3 129 65 843 - 275 0 275 0 275 354 3 075 -			3 910 - 64 147 2 857 57 344 - 399 0 399 - 4 235 -	(61.7) (76.2) (67.7) (94.5) (73.3) - (30.0) (0.0) (57.9) - (74.0) -	6 138 80 199 2 809 73 328 - 1106 501 605 402 5 755 -	- 11 513 4 575 - 57 0 2 809 58 300 - 414 0 414 304 4 915 -	(74.5) - (71.3) (0.0) (100.0) (79.5) - (37.4) (0.0) (68.4) (75.6) (85.4) -
Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo' Kosovo' Switzerland Tajikistan Turkey Turkmenistan	7 027 80 				- 10 505 2 533 - 25 0 1 813 64 512 - - - 4 368 - - - - - - - - - - - - -			- 10 226 4 330 - 48 152 3 129 65 843 - 275 0 275 354 3 075 - 1 488			3 910 - 64 147 2 857 57 344 - 399 0 399 - 4 235 - 1 611	(61.7) (76.2) (67.7) (94.5) (73.3) - (30.0) (0.0) (57.9) - (74.0) - (74.0) - (74.7)	6 138 	- 11 513 4 575 - 57 0 2 809 58 300 - 414 0 414 304 4 915 - 1 650	(74.5) - (71.3) (0.0) (100.0) (79.5) - (37.4) (0.0) (68.4) (75.6) (85.4) - (77.9)
Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo ¹ Kosovo ¹ Switzerland Tajikistan Turkey Turkmenistan Ukraine	7 027 				- 10 505 2 533 - 25 0 1 813 64 512 - - - 4 368 - - - - - - - - - - - - -	- (85.3) (36.1) - (28.7) (0.0) (50.8) (69.8) - - - - - - - - - - - - - - - - - - -		- 10 226 4 330 - 48 152 3 129 65 843 - 275 0 275 3 574 3 075 - 1 488 -	- (82.1) (64.8) - (64.0) (70.4) (93.2) (77.9) - (19.0) (0.0) (38.6) (66.9) (52.2) - (75.6)		3 910 - 64 147 2 857 57 344 - 3999 0 3999 - 4 235 - 1 611 23 093	(61.7) (76.2) (67.7) (94.5) (73.3) - (30.0) (0.0) (5.7) - (74.0) - (74.7) (87.1)	6 138 	- 11 513 4 575 - 57 0 2 809 58 300 - 414 0 414 304 4 915 - 1 650 22 537	(74.5) - (71.3) (0.0) (70.0) (79.5) - (37.4) (0.0) (68.4) (75.6) (85.4) - (77.9) (88.8)
Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo ¹ Kosovo ¹ Switzerland Turkey Turkmenistan Ukraine Uzbekistan	7 027 		- (83.0) (21.4) - (84.6) - - - - - - - - - - - - - - - - - - -		- 10 505 2 533 - 25 0 1 813 64 512 - - - 4 368 - - 12 270			- 10 226 4 330 - 48 152 3 129 65 843 - 275 0 275 3 54 3 075 - 1 488 - 11 368	- (82.1) (64.8) - (64.0) (70.4) (77.9) - (19.0) (0.0) (38.6) (66.9) (52.9) - (75.6) - (67.5)		3 910 - 64 147 2 857 57 344 - 3999 0 3999 - 4 235 - 1 611 23 093 14 390	(61.7) (76.2) (67.7) (94.5) (73.3) - (30.0) (0.0) (5.7) - (74.0) - (74.7) (87.1) (87.7)	6 138 		(74.5) - (71.3) (0.0) (70.0) (79.5) - (37.4) (0.0) (68.4) (75.6) (85.4) - (77.9) (88.8) (74.2)
Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo ¹ Kosovo ¹ Switzerland Tajikistan Turkey Turkmenistan Ukraine	7 027 				- 10 505 2 533 - 25 0 1 813 64 512 - - - 4 368 - - - - - - - - - - - - -	- (85.3) (36.1) - (28.7) (0.0) (50.8) (69.8) - - - - - - - - - - - - - - - - - - -		- 10 226 4 330 - 48 152 3 129 65 843 - 275 0 275 3 574 3 075 - 1 488 -	- (82.1) (64.8) - (64.0) (70.4) (93.2) (77.9) - (19.0) (0.0) (38.6) (66.9) (52.2) - (75.6)		3 910 - 64 147 2 857 57 344 - 3999 0 3999 - 4 235 - 1 611 23 093	(61.7) (76.2) (67.7) (94.5) (73.3) - (30.0) (0.0) (5.7) - (74.0) - (74.7) (87.1)	6 138 	- 11 513 4 575 - 57 0 2 809 58 300 - 414 0 414 304 4 915 - 1 650 22 537	(74.5) - (71.3) (0.0) (70.0) (79.5) - (37.4) (0.0) (68.4) (75.6) (85.4) - (77.9) (88.8)

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

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/iris/handle/10665/112472, accessed 8 February 2021). ^d Previous TB history is defined as previous diagnosis. ⁱ 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
ТВ	tuberculosis
XDR-TB	extensively drug-resistant tuberculosis

Albania

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

TB cases, 2019

Notifications		
Total number of cases		412
Notification rate per 100000		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 [low-high]	470	[410-550]

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a		No
Completeness of HIV data ^b	,	/es
Case-linked data-reporting	,	/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 ≥ 90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA ≥ 95%.
 ^b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

Geographical coverage	Nat	ional			
Outcome cohort	TB case	d relapse s notified 2018ª	All RR/MDR-TB cases enrolled into second-line treatment 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.

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





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

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^a



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

TB/HIV coinfection, 2010–2019^a



^a Data up to 2014 include all TB cases.

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



Α orra

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

TB cases, 2019

Notifications		
Total number of cases		5
Notification rate per 100000		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]

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a		No
Completeness of HIV data ^b		No
Case-linked data-reporting		Yes
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 > 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	Na	tional			
Outcome cohort	TB cas	nd relapse es notified 2018ª	All RR/MDR-TB cases enrolled in second-line treatm in 2017 ^b		
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.

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

TB notification rates by previous treatment history, 2010–2019



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

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^a



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

TB/HIV coinfection, 2010–2019^a



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



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]

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a	١	íes 🛛
Completeness of HIV data ^b	١	íes 🛛
Case-linked data-reporting	١	íes 🛛
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 ≥ 90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA ≥ 95%. ^b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring Geographical Natio

coverage	Nat	ional		
Outcome cohort	TB case	d relapse s notified 2018ª	cases e second-li	/MDR-TB prolled into ne treatment 2017 ^b
Case-linked data-reporting	Yes		-	
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.

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

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.

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^a



° Data up to 2012 includes new TB cases only.

TB/HIV coinfection, 2010–2019^a



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



Austria

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

TB cases, 2019

474	
	5.4
	464
5.2	
342	(72.2%)
92	(26.9%)
265	(77.5%)
342	(72.2%)
54.5 years	
35.	2 years
263	(55.5%)
345	(72.8%)
560	[480-650]
	342 92 265 342 54. 35. 263 345

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a	Yes	
Completeness of HIV data ^b	-	
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	-	-

^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.

Treatment outcome monitoring

Geographical coverage	Na	tional		
Outcome cohort	New culture-positive pulmonary TB cases notified in 2018ª Yes			
Case-linked data-reporting				
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.

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

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



Azerbaijan

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

TB cases, 2019

Notifications			
Total number of cases		6 533	
Notification rate per 100000	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, best [low-high]	6 0 0 0	[4 600-7 600]	

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a	Yes	
Completeness of HIV data ^b	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 > 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	TB case	d relapse s notified 1018ª	cases er second-lir	/MDR-TB irolled into treatment 2017 ⁶
Case-linked data-reporting	Ŷ	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.

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

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.

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



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

TB/HIV coinfection, 2010–2019^a



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



Belarus

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]

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a	Yes	
Completeness of HIV data ^b	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 ≥ 90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA ≥ 95%.
 ^b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

Geographical coverage	Nat	ional		
Outcome cohort	TB case	d relapse s notified 2018ª	cases er second-li	/MDR-TB prolled into ne treatment 2017 ^b
Case-linked data-reporting	Yes		-	
Cases notified	1	1 418		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.

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

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.

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







° Data up to 2012 includes new TB cases only.

TB/HIV coinfection, 2010–2019^a



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



Belgium

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

TB cases, 2019

Notifications Total number of cases 968 Notification rate per 100000 85 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 (76.1%) 737 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 (55.9%) 541 New (not previously treated) (78.0%) 755 Estimates Estimated new and relapse cases N, 1000 [880-1200] best [low-high]

Drug-resistance surveillance and TB/HIV coinfection, 2019

,,		
Completeness of DRS data ^a	Yes	
Completeness of HIV data ^b	Yes	
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.

Treatment outcome monitoring

Geographical coverage	Nat	tional		
Outcome cohort	New culture-positive pulmonary TB cases notified in 2018ª Yes		All MDR-TB cases notified in 2017 ^b –	
Case-linked data-reporting				
Cases notified	440		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.

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

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





Bosnia and Herzegovina

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

TB cases, 2019

Notifications Total number of cases 580 Notification rate per 100000 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. 900 [690-1100] best [low-high]

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a	No	
Completeness of HIV data ^b	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	-	-

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

Treatment outcome monitoring

Geographical coverage	Nat	ional		
Outcome cohort	TB case	d relapse s notified 2018ª	All RR/MDR-TB cases enrolled int second-line treatme in 2017 ^b	
Case-linked data-reporting	١	′es		
Cases notified	(566	()
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.

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

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



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

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



0-14 15-44 45-64 -> 64 120 100 Cases/100 000 80 60 40 20 0 2011 2013 2015 2017 2019 ^a Data up to 2012 includes new TB cases only

TB/HIV coinfection, 2010–2019^a



^a Data up to 2014 include all TB cases.

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



Bulgaria

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

TB cases, 2019

Notifications			
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	4	9.1 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, best [low-high]	1400	[1 100-1 800]	

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a	Yes	
Completeness of HIV data ^b	Yes	
Case-linked data-reporting	Yes	
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			R-TB cases d in 2017⁵
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.

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

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





Croatia

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]	

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	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	-	-

Treatment outcome monitoring

Geographical coverage	Nat	ional		
Outcome cohort	New culture-positive pulmonary TB cases notified in 2018ª		All MDR-TB case notified in 2017	
Case-linked data-reporting	Yes		-	
Cases notified	241		0	
Success	75	(31.1%)	-	-
Died	30	(12.4%)	-	-
Failed	0	(0.0%)	-	-
Lost to follow up	2	(0.8%)	-	-
Still on treatment	5	(2.1%)	-	-
Not evaluated	129	(53.5%)	-	-

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

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

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

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



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

TB/HIV coinfection, 2010-2019





prus

Total population 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]	

Drug-resistance surveillance and TB/HIV coinfection, 2019

1		
Completeness of DRS data ^a	Yes Yes	
Completeness of HIV data ^b		
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	-	-

^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 ^a Yes 33		All MDR-TB cases notified in 2017 ^t –	
Case-linked data-reporting				
Cases notified			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.

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

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





Czechia

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]

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a	Yes	
Completeness of HIV data ^b	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

Geographical coverage	Nat	ional		
Outcome cohort	pulmona	ure-positive ary TB cases d in 2018 ^a All MDR-TB cas notified in 201		
Case-linked data-reporting	١	'es		-
Cases notified	301		8	
Success	195	(64.8%)	3	(37.5%)
Died	38	(12.6%)	0	(0.0%)
Failed	0	(0.0%)	1	(12.5%)
Lost to follow up	37	(12.3%)	1	(12.5%)
Still on treatment	10	(3.3%)	1	(12.5%)
Not evaluated	21	(7.0%)	2	(25.0%)

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

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

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





enma k

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

TB cases, 2019

Notifications	
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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	Yes	
Completeness of HIV data ^b	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	-	-

^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 Case-linked data-reporting	New culture-positive pulmonary TB cases notified in 2018ª Yes		All MDR-TB cases notified in 2017 ^b –	
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





Estonia

Total population at 25 June 2020 by EUROSTAT: 1324 820

TB cases, 2019

Notifications

Notifications		
Total number of cases		150
Notification rate per 100000		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]

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a	Yes	
Completeness of HIV data ^b	Yes	
Case-linked data-reporting	Yes	
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	New culture-positive pulmonary TB cases notified in 2018ª		All MDR-TB cases notified 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.

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

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



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



TB/HIV coinfection, 2010-2019





Fi าland

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

TB cases, 2019

Notifications		
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]

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a	Yes	
Completeness of HIV data ^b	Yes	
Case-linked data-reporting	Yes	
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	-	-

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

Treatment outcome monitoring

Geographical coverage	Na	tional		
Outcome cohort	pulmona	ure-positive ry TB cases d in 2018ª		R-TB cases ed in 2017 ⁶
Case-linked data-reporting		Yes		-
Cases notified		132		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.

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

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



France

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

TB cases, 2019

Notifications

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	47.8 years		
Mean age of new foreign TB cases	37.5 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]	

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a		Yes
Completeness of HIV data ^b		-
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	-	-

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.

Treatment outcome monitoring

Geographical coverage	Nat	tional		
Outcome cohort	pulmona	ure-positive ry TB cases d 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.

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

s TB history included in new cases. More than 50% of IB G

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







TB/HIV coinfection, 2010-2019





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	41.9 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	[2 500-3 500]	

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a	Yes	
Completeness of HIV data ^b	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 ≥ 90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA ≥ 95%.
 ^b More than 50% of TB cases with reported HIV status.

Geographical coverage

Treatment outcome monitoring

Outcome cohort	New and relapse All RR/MD TB cases notified second-line tr in 2018 ^a in 2017		nrolled into ne treatment	
Case-linked data-reporting	Yes			-
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%)

National

All RR/MDR-TB

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

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

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

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



TB/HIV coinfection, 2010-2019^a



^a Data up to 2014 include all TB cases.

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



All MDR-TB cases

notified in 2017^b

121

(66.9%)

(3.3%)

(0.0%)

(3.3%)

(7.4%)

(19.0%)

81

0

23

Germany

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

TB cases, 2019

Notifications	
Nothications	

NULIILALIUIIS			
Total number of cases	4 791		
Notification rate per 100000	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 7 3 1	(50.4%)	
of which laboratory-confirmed	2 802	(81.6%)	
Laboratory-confirmed TB cases	3 701	(77.2%)	
Mean age of new native TB cases	53.0 years		
Mean age of new foreign TB cases	36.4 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.

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



Drug-resistance surveillance and TB/HIV coinfection, 2019

ib/inv connection, 2019		
Completeness of DRS data ^a	Yes	
Completeness of HIV data ^b	-	
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	-	-

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

Treatment outcome monitoring

National New culture-positive pulmonary TB cases notified in 2018ª

Yes

2 254

(73.9%)

(8.1%)

(0.2%)

(1.7%)

(3.0%)

(13.1%)

1666

183

5

38

67

295

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

Geographical coverage

Outcome cohort

Case-linked

Success

Died

Failed

data-reporting Cases notified

Lost to follow up

Still on treatment

Not evaluated





TB/HIV coinfection, 2010-2019

Data not reported



Greece

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

TB cases, 2019

|--|

Total number of cases	459		
Notification rate per 100000	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]	

Drug-resistance surveillance and TB/HIV coinfection, 2019

,,			
Completeness of DRS data ^a	Yes		
Completeness of HIV data ^b	Yes		
Case-linked data-reporting	Yes		
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					
Case-linked data-reporting	Yes		ng Yes			_
Cases notified	15	159		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.

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

previous TB history included in new cases. "More cliait 50%

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, 2009–2018

Data not reported

Hungary

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

TB cases, 2019

552		
5.6		
	528	
	5.4	
535	(96.9%)	
196	(36.6%)	
285	(53.3%)	
287	(52.0%)	
53	.1 years	
34	.1 years	
43	(7.8%)	
496	(89.9%)	
610	[520-700]	
	196 285 287 53 34 43 496	

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	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	-	-

^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	New culture-positive pulmonary TB cases notified in 2018 ^a All MDR-TB				
Case-linked data-reporting	Yes		,	-	
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.

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

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





Iceland

Total population at 25 June 2020 by EUROSTAT: 356 991

TB cases, 2019

Notifications

NULIIILALIUIIS			
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 data ^b	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	-	-

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

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



Treatment outcome monitoring

Geographical coverage	Na	itional		
Outcome cohort	pulmona	ure-positive ary TB cases ed in 2018ª	All MDR- notified	TB cases in 2017 ^b
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.

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



TB/HIV coinfection, 2010-2019





Ireland

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

TB cases, 2019

Notifications		
Total number of cases		266
Notification rate per 100000		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]

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

Geographical coverage	Na	tional		
Outcome cohort	pulmona	ture-positive ary TB cases ed in 2018 ^a All MDR-TB cas		
Case-linked data-reporting	Yes		-	
Cases notified	108		5	
Success	43	(39.8%)	2	(40.0%)
Died	6	(5.6%)	0	(0.0%)
Failed	0	(0.0%)	0	(0.0%)
Lost to follow up	1	(0.9%)	0	(0.0%)
Still on treatment	4	(3.7%)	0	(0.0%)
Not evaluated	54	(50.0%)	3	(60.0%)

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

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

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





Israel

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

TB cases, 2019

Notifications			
Total number of cases	217		
Notification rate per 100000		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]	

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a	Yes	
Completeness of HIV data ^b	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 ≥ 90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA ≥ 95%.
 ^b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

Geographical coverage	Nat	ional		
Outcome cohort	TB case	New and relapse TB cases notified in 2018 ^a All RR/MD cases enrollo second-line tr in 2017		, nrolled into ne treatment
Case-linked data-reporting	١	′es		-
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.

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

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



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

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^a



TB/HIV coinfection, 2010–2019^a



^a Data up to 2014 includes all TB cases.

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



All MDR-TB cases notified in 2017^b

0

Italy

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

TB cases, 2019

Notifications

Notifications			
Total number of cases	3 346		
Notification rate per 100000	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 0 3 3	(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	3	7.2 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, best [low-high]	4 300	[3 700-5 000]	

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

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



Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a	No	
Completeness of HIV data ^b	_	
Case-linked data-reporting		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	-	-

^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.

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

Treatment outcome monitoring

National New culture-positive pulmonary TB cases notified in 2018ª

Yes

1508

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

Geographical coverage

Outcome cohort Case-linked

data-reporting Cases notified

Success Died Failed Lost to follow up Still on treatment Not evaluated



TB/HIV coinfection, 2010-2019

Data not reported

Treatment outcome, new culture-confirmed pulmonary TB cases, 2009-2018

Data not reported

122

Kazakhstan

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

TB cases, 2019

Notifications		
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 7 2 3	(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	1	0.9 years
Mean age of new foreign TB cases		-
Foreign origin of all TB cases	161	(1.2%)
New (not previously treated)	8 6 8 7	(66.9%)
Estimates		
Estimated new and relapse cases N, best [low-high]	13 000	[8 200-18 000]

Drug-resistance surveilla TB/HIV coinfection, 2019		ıd
Completeness of DRS data ^a		No
Completeness of HIV data ^b		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 ≥ 90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA ≥ 95%.
 ^b More than 50% of TB cases with reported HIV status.

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Treatment outcome monitoring

Geographical coverage	Nat	ional		
Outcome cohort	TB case	d relapse s notified 1018ª	cases en second-lir	'MDR-TB rolled into e treatment 2017 ⁶
Case-linked data-reporting	Ŷ	es		-
Cases notified	7	859	5	338
Success	7 0 9 3	(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.

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

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



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

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^a



TB/HIV coinfection, 2010–2019^a



^a Data up to 2014 include all TB cases.

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



Kyrgyzstan

Total population estimate 2019 by United Nations Statistical Database: 6 415 851

TB cases, 2019

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 0 9 6	(72.4%)	
Estimates			
Estimated new and relapse cases N, best [low-high]	7 100	[6 000-8 200]	

Drug-resistance surveillance and

IB/HIV connection, 2019		
Completeness of DRS data ^a		Yes
Completeness of HIV data ^b		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 ≥ 90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA ≥ 95%.
 ^b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

Geographical coverage	Nat	ional		
Outcome cohort	TB case	d relapse s notified :018ª	cases er second-li	/MDR-TB irolled into ne treatment 2017 ⁶
Case-linked data-reporting	Y	es		-
Cases notified	5	333	1	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.

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

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

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, 2009–2018ª



TB/HIV coinfection, 2010-2019^a



^a Data up to 2014 include all TB cases.

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



Total population at 25 June 2020 by EUROSTAT: 1919 968

TB cases, 2019

Notifications		
Total number of cases		-
Notification rate per 100000		-
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]	490	[420-570]

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a	N	0
Completeness of HIV data ^b	-	-
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	New culture-positive pulmonary TB cases notified in 2018 ^a All MDR-TB case			
Case-linked data-reporting	Ν	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.

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

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





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]	-	-

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a	N	0
Completeness of HIV data ^b	-	-
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	New cultur pulmonary notified	/ TB cases	All MDR-TB case notified in 201;	
Case-linked data-reporting	Ye	Yes		_
Cases notified	1	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.

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

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, 2009-2018



TB/HIV coinfection, 2010-2019

Data not reported



Total population at 25 June 2020 by EUROSTAT: 2 794 184

TB cases, 2019

Notifications

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	4	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]	1 200	[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 data ^b		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	-	-

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

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



Treatment outcome monitoring

Geographical coverage	Na	tional		
Outcome cohort	New culture-positive pulmonary TB cases notified in 2018ª Yes		All MDR-TB cases notified in 2017 ^b –	
Case-linked data-reporting				
Cases notified		751		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.

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



TB/HIV coinfection, 2010-2019





uxem ourg D

Total population at 25 June 2020 by EUROSTAT: 613 894

TB cases, 2019

Notifications	
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NULIIILALIUIIS		
Total number of cases		50
Notification rate per 100000		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]

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a	1	Yes
Completeness of HIV data ^b	,	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 90% of TB cases with reported HIV status.
^c Cases with unknown previous TB treatment history included in new cases.

Treatment outcome monitoring

Geographical coverage	Nati	onal		
Outcome cohort	New culture-positive pulmonary TB cases notified in 2018 ^a All MDR-TB case			
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.

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

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







TB/HIV coinfection, 2010-2019




Total population at 25 June 2020 by EUROSTAT: 493 559

TB cases, 2019

Notifications	
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NULIIICALIUIIS			
Total number of cases		98	
Notification rate per 100000		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		Yes	
Completeness of HIV data ^b		-	
Case-linked data-reporting	Yes		
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	-	-	

^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	Nati	onal		
Outcome cohort	New culture-positive pulmonary TB cases notified in 2018ª		All MDR- notified	TB cases in 2017 ^b
Ca se-linked data-reporting	Yes		-	_
Cases notified	2	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.

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

TB notification rates by previous treatment history, 2010–2019



TB cases by geographical origin, 2010-2019



^a By nationality for 2000–2006

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





Montenegro

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

TB cases, 2019

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	

Drug-resistance surveillance and TB/HIV coinfection, 2019

TB/HIV connection, 2019		
Completeness of DRS data ^a		Yes
Completeness of HIV data ^b		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	-	-

^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.

2010-2019^a

Treatment outcome monitoring Geographical National

coverage				
Outcome cohort	TB case	New and relapse TB cases notified in 2018ª		MDR-TB rolled into e treatment 017 ^b
Case-linked data-reporting	Yes		-	
Cases notified		81		D
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.

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

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



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.

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





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

TB/HIV coinfection, 2010–2019^a



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



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	.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]	

Drug-resistance surveillance and TB/ HIV coinfection. 2019

Completeness of DRS data ^a	Yes		
Completeness of HIV data ^b	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%)	

^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.
^c 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 2018ª			R-TB cases ed in 2017 ⁶
Case-linked data-reporting	Yes			-
Cases notified	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.

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

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

Notifications			
Total number of cases	199		
Notification rate per 100000		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	4	5.2 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]	

Drug-resistance surveillance and TB/HIV coinfection, 2019

IB/III connection, 2019		
Completeness of DRS data ^a		Yes
Completeness of HIV data ^b		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 ≥ 90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA ≥ 95%.
 ^b More than 50% of TB cases with reported HIV status.

Geographical

Nat	ional		
New and relapse TB cases notified in 2018ª		All RR/MDR-TB cases enrolled into second-line treatme in 2017 ^b	
Y	'es		-
214			1
187	(87.4%)	0	(0.0%)
14	(6.5%)	1	(100.0%)
1	(0.5%)	0	(0.0%)
12	(5.6%)	0	(0.0%)
0	(0.0%)	0	(0.0%)
	New an TB case in 2 187 14 1 12	TB cases notified in 2018° Yes 214 187 (87.4%) 14 (6.5%) 1 (0.5%) 12 (5.6%)	New and relapse TB cases notified in 2018 ^a All RF cases e second-li in Yes 214 187<(87.4%)

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

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

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.

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



^a Data up to 2014 include all TB cases.

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



Norway

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

TB cases, 2019

Notificati	ons
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Notifications			
Total number of cases	165		
Notification rate per 100000	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]	

Drug-resistance surveillance and TB/HIV coinfection, 2019

-,,		
Completeness of DRS data ^a	,	Yes
Completeness of HIV data ^b	Yes	
Case-linked data-reporting	Yes	
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	-	-

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			R-TB cases ed in 2017 ⁶	
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.

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

Cases with

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





Poland

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

TB cases, 2019

No	+161	cat	ions	
NO	UIII	cat	IONS	

Notifications			
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	5	3.9 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.

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



Drug-resistance surveillance and TB/HIV coinfection, 2019

ib/inv connection, 2019		
Completeness of DRS data ^a	Y	es
Completeness of HIV data ^b	-	
Case-linked data-reporting	Yes	
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	-	-

^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.

New culture-positive

Geographical coverage

Treatment outcome monitoring

Outcome cohort	pulmonary TB cases notified in 2018ª		All MDR-TB case notified in 2017	
Case-linked data-reporting	Yes			_
Cases notified	3 4	¥51	4	4
Success	-	-	-	-
Died	-	-	-	-
Failed	-	-	-	-
Lost to follow up	-	-	-	-
Still on treatment	-	-	-	-
Not evaluated	_	-	-	-

National

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

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



TB/HIV coinfection, 2010-2019

Data not reported



Portugal

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

TB cases, 2019

Notifications

NULIIILALIUIIS			
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 3 1 1	(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, best [low-high]	2 0 0 0	[1700-2300]	

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a	١	/es
Completeness of HIV data ^b	Yes	
Case-linked data-reporting	Yes	
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	1 16 6	(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.
^c Cases with unknown previous TB treatment history included in new cases.

Treatment outcome monitoring

Geographical coverage	Na	tional		
Outcome cohort			R-TB cases ed in 2017 ⁶	
Case-linked data-reporting	Yes		-	
Cases notified	1 0 2 2			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.

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

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







TB/HIV coinfection, 2010-2019





Republic of Moldova

Total population estimate 2019 by United Nations Statistical Database: 4 043 258

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	4	2.7 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, best [low-high]	3 200	[2 800-3 700]

Drug-resistance surveillance and TB/HIV coinfection, 2019

ib/iiiv connection, 2019		
Completeness of DRS data ^a		No
Completeness of HIV data ^b		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 ≥ 90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA ≥ 95%.
 ^b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

Geographical coverage	Nat	ional		
Outcome cohort	TB case	d relapse s notified :018ª	cases er second-li	/MDR-TB prolled into ne treatment 2017 ^b
Case-linked data-reporting	Y	es		-
Cases notified	2	312	ç	962
Success	1954	(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.

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

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.

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 $^{\rm s}$



TB/HIV coinfection, 2010-2019^a



^a Data up to 2014 include all TB cases.

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



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

TB cases, 2019

N	tifications	

Nothitations		
Total number of cases		11 633
Notification rate per 100 000		59.6
New ^a and relapse		11 0 8 3
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	L	5.9 years
Mean age of new foreign TB cases	3	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]

Drug-resistance surveillance and TB/HIV coinfection, 2019

ib/inv connection, 2019		
Completeness of DRS data ^a		Yes
Completeness of HIV data ^b		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%)

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

Treatment outcome monitoring

Geographical coverage	Nat	ional		
Outcome cohort	pulmonai	re-positive y TB cases l in 2018ª		R-TB cases d in 2017 ⁶
Case-linked data-reporting	Ŷ	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.

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

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





Russian Federation

Total population estimate 2019 by United Nations Statistical Database: 145 872 260

TB cases, 2019

Notifications		
Total number of cases		103 979
Notification rate per 100000		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]

Drug-resistance surveillance and

Completeness of DRS data ^a		Yes
Completeness of HIV data ^b		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 ≥ 90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA ≥ 95%.
 ^b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

Geographical coverage	Nat	ional		
Outcome cohort	TB case	d relapse s notified 1018ª	cases en second-lin	MDR-TB rolled into e treatment 2017 ^b
Case-linked data-reporting	Ŷ	es		-
Cases notified	59	850	22	901
Success	41 15 4	(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%)	1927	(8.4%)

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

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

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



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

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, $2010-2019^a$



TB/HIV coinfection, 2010–2019^a



^a Data up to 2014 include all TB cases.

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



Serbia

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 100000		13.4
New ^a and relapse		1 106
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	4	6.9 years
Mean age of new foreign TB cases		-
Foreign origin of all TB cases	5	(0.4%)
New (not previously treated)	1 0 1 7	(86.3%)
Estimates		
Estimated new and relapse cases N, best [low-high]	1300	[1100-1500]
Foreign origin of all TB cases New (not previously treated) Estimates Estimated new and relapse cases N,	1 017	(86.3%)

Drug-resistance surveillance and

Completeness of DRS data ^a		Yes
Completeness of HIV data ^b		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 ≥ 90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA ≥ 95%.
 ^b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

Geographical coverage	Nat	ional		
Outcome cohort	TB case	d relapse s notified :018ª	cases e second-li	/MDR-TB nrolled into ne treatment 2017 ⁶
Case-linked data-reporting	Y	es		-
Cases notified	1	265		10
Success	1 0 3 2	(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.

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

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, 2009-2018^a



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	4	5.4 years
Mean age of new foreign TB cases	2	5.0 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]

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a	,	Yes
Completeness of HIV data ^b	Yes	
Case-linked data-reporting	Yes	
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	Na	tional		
Outcome cohort	pulmona	ure-positive ry TB cases d in 2018ª		R-TB cases ed in 2017 ⁶
Case-linked data-reporting	,	Yes		-
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.

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

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





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	7.0 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]

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a	Yes		
Completeness of HIV data ^b	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%)	

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

Treatment outcome monitoring

Geographical coverage	Na	tional		
Outcome cohort	pulmona	ure-positive ry TB cases d in 2018ª		R-TB cases ed in 2017 ⁶
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.

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

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





All MDR-TB cases

notified in 2017^b

29

Spain

Total population at 25 June 2020 by EUROSTAT: 46 937 060

TB cases, 2019

Notifications	

Total number of cases		4 150
Notification rate per 100000		8.9
New ^a and relapse		4 071
New ^a and relapse notification rate per 100 000		8.7
Pulmonary	3 0 0 9	(72.5%)
of which microscopy-positive	1362	(45.3%)
of which laboratory-confirmed	2 236	(74.3%)
Laboratory-confirmed TB cases	2 7 9 7	(67.4%)
Mean age of new native TB cases	5	0.0 years
Mean age of new foreign TB cases	3	7.2 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.

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



[°] In 2013, 2015 and 2016, only pulmonary MDR-TB cases were reported.

Drug-resistance surveillance and TB/HIV coinfection, 2019

-,,		
Completeness of DRS data ^a	Yes	
Completeness of HIV data ^b	-	
Case-linked data-reporting	Yes	
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	-	-

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

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

Treatment outcome monitoring

National New culture-positive pulmonary TB cases notified in 2018ª

Yes

1700

(59.7%)

(7.2%)

(0.1%)

(0.4%)

(3.4%)

(29.2%)

1 0 1 5

123

1

6

58

497

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

Geographical coverage

Outcome cohort

Case-linked

Success

Died

Failed

data-reporting Cases notified

Lost to follow up

Still on treatment

Not evaluated



TB/HIV coinfection, 2010-2019





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	4	8.7 years
Mean age of new foreign TB cases	3	5.7 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]

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a	1	Yes
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	-	-

Treatment outcome monitoring

Geographical coverage	Na	tional		
Outcome cohort	pulmona	ure-positive ry TB cases d in 2018ª		R-TB cases d in 2017 ⁶
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.

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

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



^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. 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 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]

Drug-resistance surveillance and TB/HIV coinfection, 2019

15/111 connection, 2019		
Completeness of DRS data ^a		No
Completeness of HIV data ^b		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 ≥ 90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA ≥ 95%.
 ^b More than 50% of TB cases with reported HIV status.

Geographical National

Treatment outcome monitoring

coverage				
Outcome cohort	pulmona	ire-positive ry TB cases d in 2018ª		R-TB cases d in 2017 ⁶
Case-linked data-reporting	١	'es		-
Cases notified		376		12
Success	309	(82.2%)	10	(83.3%)
Died	6	(1.6%)	0	(0.0%)
Failed	0	(0.0%)	0	(0.0%)
Lost to follow up	2	(0.5%)	0	(0.0%)
Not evaluated	59	(15.7%)	2	(16.7%)

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

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

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.

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^a



TB/HIV coinfection, 2010-2019



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



Tajikistan

Total population estimate 2019 by United Nations Statistical Database: 9 321 023

TB cases, 2019

Notifications		
Total number of cases		5 976
Notification rate per 100000		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	3	3.9 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]	7 700	[6 000-9 700]

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a		No
Completeness of HIV data ^b		Yes
Case-linked data-reporting		Yes
Cases with DST results	2 0 0 2	(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%)

of these on ART 127 (76.0 National coverage 100% or culturing ≥ 90%, C+/all TB

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

Treatment outcome monitoring

Geographical coverage	Nat	ional		
Outcome cohort	TB case	d relapse s notified 1018ª	cases er second-li	/MDR-TB prolled into ne treatment 2017 ⁶
Case-linked data-reporting	Y	es		-
Cases notified	4	995	5	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	(4.3%)	67	(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.

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

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.

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, $2010-2019^a$



TB/HIV coinfection, 2010–2019^a



^a Data up to 2014 include all TB cases.

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



Turkey

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%)
Laboratory-confirmed TB cases	-	-
Mean age of new native TB cases	4	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		
Estimated new and relapse cases N, best [low-high]	13 000	[11 000-15 000]

Drug-resistance surveillance and TB/HIV coinfection, 2019

ID/IIIV connection, 2019		
Completeness of DRS data ^a		Yes
Completeness of HIV data ^b		Yes
Case-linked data-reporting		Yes
Cases with DST results	5 0 8 7	(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 ≥ 90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA ≥ 95%.
 ^b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

Geographical coverage	Nat	ional		
Outcome cohort	TB case	d relapse s notified 1018ª	cases er second-li	/MDR-TB prolled into ne treatment 2017 ^b
Case-linked data-reporting	Y	es		-
Cases notified	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	(2.0%)	20	(9.9%)
Not evaluated	572	(5.0%)	14	(6.9%)

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

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

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.

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, $2010-2019^a$



TB/HIV coinfection, 2010–2019^a



^a Data up to 2014 include all TB cases.

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



Turkmenistan

Total population estimate 2019 by United Nations Statistical Database: 5 942 094

TB cases, 2019

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, best [low-high]	2 600	[2 000-3 300]

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a		No
Completeness of HIV data ^b		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 > 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 2018ª			
Case-linked data-reporting	Yes			-
Cases notified	2 157		3	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.

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

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.

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^a



TB/HIV coinfection, 2006–2014



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



Ukraine

Total population estimate 2019 by United Nations Statistical Database: 43 993 643

TB cases, 2019

28 539		
	64.9	
	25 379	
57.7		
26 032	(91.2%)	
-	-	
19 129	(73.5%)	
-	-	
42.9 years		
	-	
36	(0.1%)	
20 632	(72.3%)	
34 000	[22 000-48 000]	
	19 129 - 36 20 632	

Drug-resistance surveillance and

TB/HIV connection, 2019			
Completeness of DRS data ^a	Yes		
Completeness of HIV data ^b	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 4 9 0	-	
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 ≥ 90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA ≥ 95%.
 ^b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

Geographical coverage	Nat	ional		
Outcome cohort	New and relapse TB cases notified in 2018ª			
Case-linked data-reporting	Yes			-
Cases notified	20 221		6	685
Success	15 607	(77.2%)	3 407	(51.0%)
Died	1993	(9.9%)	1014	(15.2%)
Failed	1446	(7.2%)	1196	(17.9%)
Lost to follow up	1 114	(5.5%)	1 0 3 7	(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.

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

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



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

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, $2010-2019^a$



TB/HIV coinfection, 2010–2019^a



^a Data up to 2014 include all TB cases.

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



United Kingdom Total population at 25 June 2020 by EUROSTAT: 66 647 112

TB cases, 2019

Notifi	cations

Notifications			
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 1 4 1	(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]	

Drug-resistance surveillance and TB/HIV coinfection, 2019

Completeness of DRS data ^a	Yes _	
Completeness of HIV data ^b		
Case-linked data-reporting	Yes	
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	New culture-positive pulmonary TB cases notified in 2018 ^a All MDR-TE			
Case-linked data-reporting	Y	'es		-
Cases notified	1	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.

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

* 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.

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





Uzbekistan

Total population estimate 2019 by United Nations Statistical Database: 32 981 715

TB cases, 2019

Notifications			
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, best [low-high]	22 000	[15 000-30 000]	

Drug-resistance surveillance and TB/HIV coinfection, 2019

ID/IIIV connection, 2019		
Completeness of DRS data ^a		Yes
Completeness of HIV data ^b		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 ≥ 90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA ≥ 95%.
 ^b More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

Geographical coverage	Nat	ional		
Outcome cohort	New and relapse TB cases notified in 2018ª		All RR/MDR-TE cases enrolled in second-line treatr in 2017 ^b	
Case-linked data-reporting	Yes			-
Cases notified	14	14 423		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.

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

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.

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, $2010-2019^a$



TB/HIV coinfection, 2010-2019^a



^a Data up to 2014 include all TB cases.

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





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