





Tuberculosis surveillance and monitoring in Europe



2020 data

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2022

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Abstract

This report provides an overview of the latest tuberculosis (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 a sharp 24% drop in notified new and relapse TB cases between 2019 and 2020 which is due, in part, to decreased case detection and reporting as a result of the public health and social measures introduced by countries in response to the COVID-19 pandemic. Despite the potential issues of underdiagnosis and underreporting in 2020, 163 602 incident TB cases were notified in the European Region. The epidemic patterns and trends vary widely, with European Union/European Economic Area countries approaching the low incidence level of below 10 per 100 000 population, while the Region has nine of the 30 countries with the highest multidrug-resistant TB burden in the world.

Keywords TUBERCULOSIS – EPIDEMIOLOGY TB – EPIDEMIOLOGY TB SURVEILLANCE

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Abbreviations

ART	antiretroviral therapy
CI	confidence interval
DRS	drug-resistance surveillance
DST	drug-susceptibility testing
(E)	European (indicator)
ECDC	European Centre for Disease Prevention and Control
EEA	European Economic Area
EQA	external quality assessment
ERLTB-Net	European Reference Laboratory Network for Tuberculosis
EU	European Union
EU/EEA	European Union/European Economic Area
(G)	global (indicator)
HPCs	high-priority countries (Armenia, Azerbaijan, Belarus, Bulgaria, Estonia, Georgia, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, the Republic of Moldova, Romania, the Russian Federation, Tajikistan, Turkey, Turkmenistan, Ukraine and Uzbekistan)
ICD	International Classification of Diseases
LTBI	latent tuberculosis infection
MDR	multidrug resistance
MDR-TB	multidrug-resistant tuberculosis
MTB/RIF	Mycobacterium tuberculosis (MTB) and resistance to rifampin (RIF)
PLHIV	people living with HIV
pre-XDR	pre-extensive drug resistance
pre-XDR-TB	pre-extensively drug-resistant tuberculosis
RR	relative risk
RR-TB	rifampicin-resistant tuberculosis
RR/MDR	rifampicin resistance/mutidrug resistance
RR/MDR-TB	rifampicin-resistant or multidrug-resistant tuberculosis
ТВ	tuberculosis
TESSy	The European Surveillance System
TME	(WHO) Tuberculosis Monitoring and Evaluation (platform)
WRD	WHO-recommended rapid diagnostics (tests)
XDR	extensive drug resistance
XDR-TB	extensively drug-resistant tuberculosis



The WHO European Region

The data in this report present tuberculosis (TB) notifications through to the end of 2020, the period of the global COVID-19 pandemic. Although 2020 data are compared to those for previous years, the rates and trends should be interpreted with caution due to the potential impact of the public health and social measures introduced by countries in response to the COVID-19 pandemic on TB detection and reporting.

TB burden

The estimated number of TB cases in the WHO European Region has been decreasing consistently since 2000. During the period 2011–2020, the average annual decline in the TB incidence rate was 5.2%, with 6.4% achieved between 2019 and 2020, which is notably higher than the global rate of decline for TB incidence (1.9%) and the fastest decline in the world compared to other regions. The cumulative reduction for the period 2015–2020 was 25%, indicating that the Region exceeded the 2020 End TB Strategy milestone to reduce the TB incidence rate in 2020 by 20% against the 2015 baseline, and achieved the regional action plan target of a 25% reduction in the TB incidence rate (1).

An estimated 21 000 TB deaths occurred among HIV-negative people in the European Region in 2020, equivalent to 2.3 deaths per 100 000 population (range 2.2–2.4). Between 2011 and 2020, the TB mortality rate at regional level fell cumulatively by 54%, from 4.9 to 2.3 deaths per 100 000 population, which on average is a decline of 8.3% per year. TB mortality in the Region plateaued for the first time over the last two decades between 2019 and 2020 as a consequence of undiagnosed and untreated TB and associated increased death due to disruptions to TB services caused by the COVID-19 pandemic. As a result, the reduction in the absolute numbers of TB deaths in 2020 compared to 2015 was only 26% versus the 35% target of the regional action plan.

In 2020, there was an estimated 69 000 new cases of rifampicin-resistant or multidrug-resistant TB (RR/MDR-TB) in the Region, with 37 000 estimated among notified bacteriologically confirmed pulmonary TB patients. The proportion of RR/MDR-TB among new and previously treated TB cases in the Region also significantly exceeds the global average, with 18% in new and 53% in previously treated cases compared to 4% and 21% respectively (2).

HIV prevalence in incident TB cases was estimated to be 12% in 2020, another year of halted growth after an unprecedented increase from 4% to 12% during the period 2007–2016. There was an estimated 29 000 HIV-positive TB cases in the Region, with almost 80% of cases estimated in the Russian Federation (55%) and Ukraine (24%).

TB disease notification and treatment outcomes

In 2020, 163 602 incident TB cases were notified in 51 of the 53 countries in the Region,² amounting to 71% of the estimated new and relapse cases. A sharp 24% drop in notified new and relapse TB cases between 2019 and 2020 represents clear discontinuity in the downward trend in TB notifications (reflecting an underlying decline in TB incidence) in the Region and is due to the impact of the COVID-19 pandemic on the detection and reporting of TB cases.

The impact was more severe in the early days of the pandemic, when countries introduced strict public health and social measures in response to COVID-19. A survey conducted by the WHO Regional Office for Europe showed an average 36% decrease in TB notifications observed in April–June 2020 compared to the same period in 2019, with a correlation between the level of stringency of domestic movement restrictions implemented by countries and the decrease in TB notifications (3).

A total of 135 521 patients with pulmonary TB (82.8%) were notified among incident TB cases, 66.8% of which were laboratory-confirmed. Among bacteriologically confirmed pulmonary TB cases, 92% were tested for rifampicin resistance.

Overall, 34.3% of pulmonary TB patients who were reported as having tested for drug susceptibility had RR/MDR-TB. Prevalence of RR/MDR-TB among new and previously treated bacteriologically confirmed pulmonary TB cases was 23.1% and 55.2% respectively.

Data on drug-susceptibility testing (DST) to fluoroquinolones were available for 94.3% of all notified pulmonary RR-TB cases. Overall, 32.9% of pulmonary RR/MDR-TB cases with DST results to fluoroquinolones had preextensively drug-resistant TB (pre-XDR-TB) in 2020. Among pre-XDR-TB patients tested for any other Group A drugs, the prevalence of extensively drug-resistant TB (XDR-TB) was 6.5% at regional level.

Of new and relapse TB patients notified from countries reporting HIV testing data, 92.6% were screened for HIV. A total of 19 663 TB cases were detected with HIV-positive status, which is 15% of those tested, representing an increase compared to 2019 (when it was 14.3%).

A total of 14 351 (74.3%) 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.

² Latvia and San Marino did not report any data.

The treatment success rate in the Region remains below the respective regional targets of 85% and 75%. Successful treatment outcome for both incident TB and RR/MDR-TB cohorts were 76.5% and 55.9% respectively, which is comparable with the previous year's results.

Conclusions

The remarkable progress in containing the burden of TB in the Region observed between 2015 and 2019 was halted in 2020 by the COVID-19 pandemic. As a result, in 2020, the downward trend in TB mortality and incidence slowed, far fewer people were diagnosed and treated for TB and, consequently, fewer people were tested for drug resistance and enrolled into RR/MDR-TB treatment. Despite these challenges, progress made before the pandemic was good enough to enable the regional action plan target of a 25% reduction in TB incidence rate in 2020 compared to 2015 to be reached, meaning the Region overachieved the End TB Strategy milestone of a 20% reduction of TB incidence compared to the 2015 baseline.

For the first time in over two decades, the downward trend in number of TB deaths was halted in 2020 as a consequence of delay in, or lack of, TB diagnosis due to disruption to TB services, leading to increased severity of disease and an associated increase in deaths. This compromised the achievement of the End TB Strategy milestone on reduction of number of TB deaths. The actual reduction in absolute number of TB deaths. The actual reduction in absolute of the COVID-19 pandemic in the Region included a 17.7% reduction in the number of RR/MDR-TB patients detected and enrolled into treatment in 2020 compared to 2019. The treatment outcomes for new and relapse TB patients remained comparable with previous years, with no evidence of significant reduction in treatment success rates.

Although slow improvement has been seen, 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 remains 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 2020, 33 148 cases of TB were reported in 29 European Union and European Economic Area (EU/EEA) countries (Latvia did not report any case-based data), resulting in a notification rate of 7.3 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. The rates for 2020 should be interpreted with caution due to the potential impact of measures implemented to mitigate the COVID-19 pandemic on data collection and access to health services. Of all notified TB cases, 24 139 (72.8%) were newly diagnosed and 22 301 (67.3%) were confirmed by culture, or smear and nucleic acid amplification test. In 2020, adults aged between 25 and 64 years accounted for 64.8% of all new and relapse TB cases, while children under 15 years made up 3.8%. Malta reported the highest notification rates among children, with 16.7 cases per 100 000 population aged between 0 and 4 years. In 2020, new and relapse TB cases were more frequently reported in males than females, with a male-to-female ratio of 2 : 1. One third (33%) of TB cases reported in the EU/EEA in 2020 were of foreign origin.

Of 14 997 cases with DST results for at least rifampicin, 649 (4.3%) were RR-TB and 566 (3.8%) had MDR-TB. The countries with the highest proportion of MDR-TB cases among those with DST results (excluding France) were Estonia (19.4%) and Lithuania (16.7%). Pre-XDR-TB was reported for 115 (27.6%) of the 417 RR/MDR-TB cases tested for fluoroquinolone susceptibility. Among pre-XDR cases, 82 (71.3%) were tested for susceptibility to any other Group A drug and 37 (45.1%) met the XDR-TB definition.

In 2020, 19 countries reported data on HIV coinfection. The number of countries reporting data on HIV coinfection peaked at 23 in 2016 and 2017, decreased to 21 in 2018 and dropped again to 19 in 2019. Of the 12 327 TB cases with known HIV status, 515 (4.2%) were reported as HIV-positive.

TB in prisons remains poorly reported. For the 13 EU/EEA countries reporting data, the notification rate was 137 new and relapse TB cases per 100 000 prison population, and prisoners had a relative risk of 9.3 compared to the general population in the same countries.

Of all 28 985 TB cases notified in 2019 with a treatment outcome reported in 2020, 71.8% were treated successfully, 7.6% died and 0.8% experienced treatment failure. Of 927 RR/MDR-TB cases notified in 2018 with a treatment outcome reported in 2020, 52.4% were treated successfully, 14.5% died and 10.5% experienced treatment failure. Treatment success was reported only for 10 (38.5%) of the 26 XDR-TB cases notified in 2017, while 15.4% of cases were reported to have died and 3.8% experienced treatment failure.

Conclusions

In 2020, 29 of 30 EU/EEA countries reported TB notification data. There was a further decline in the overall TB notification rate (7.3 per 100 000 population), continuing the trend observed since 2002, but the decline between 2019 and 2020 data must be interpreted with caution due to the possible impact of measures implemented to mitigate COVID-19. Significant work needs to be done 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 2020 and accounted for a very small proportion of all reported TB cases in 2020.

Across all cohorts, reported treatment success remains well below WHO targets. Of all TB cases notified in 2019 with a treatment outcome reported in 2020, only 71.8% were treated successfully. Treatment success was lower for RR/MDR-TB cases at 24 months (52.4%) and lower still among XDR-TB cases at 36 months (38.5%), while the proportion of deaths for these cohorts was 14.5% and 15.4% respectively.

Across the EU/EEA, further efforts are needed to improve reporting of HIV coinfection and TB in prisons, and for treatment outcomes.

Monitoring progress towards TB elimination

The final year covered by the *Tuberculosis action plan for* the WHO European Region 2016–2020 (4) was 2020. Twenty of 26 WHO regional action plan indicators were effectively monitored and evaluated using routine surveillance data. Nine of the 20 targets monitored were achieved at regional level. Progress in reducing the TB incidence rate was particularly impressive, with most high-priority countries and the Region as a whole achieving the 2020 milestone of the global End TB Strategy and the regional action plan target. The Region was very close to reaching the target for reduction in number of TB deaths by 35% against the 2015 baseline, but the existing downward trend in TB mortality halted in 2020 due to the COVID-19 pandemic, which ultimately compromised achievement of the target. Additional achievements include a substantial increase in HIV testing and ART coverage over the past few years and an increase in coverage with WHO-recommended rapid diagnostics.

Unfortunately, the Region fell short of achieving 11 targets, including those for the TB case-detection rate, the percentage of RR/MDR-TB among new and previously treated TB cases, prevalence of HIV among new and relapse TB cases, TB preventive treatment (TPT) coverage among

children under 5 years, and treatment success rate among new and relapse TB patients and among cohorts of RR/MDR-TB and TB patients in prison. Despite the efforts made, the burden related to RR-TB and TB/HIV continues to increase, indicating the need to introduce more innovative and effective approaches to address the issues. The treatment success rate of new and relapse TB cases and RR/MDR-TB cases are still below the global and regional targets, but when data collected between 2016 and 2020 are compared, a slow but sustainable increase can be seen among both cohorts. Prevention efforts, including contact tracing, coverage with TPT and ART among people living with HIV, need to be intensified.

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³ All references were accessed on 12 February 2022.

Европейский регион ВОЗ

Данные, представленные в этом отчете, отражают ситуацию с регистрацией случаев туберкулеза (ТБ) за период до конца 2020 г. – время глобальной пандемии COVID-19. Хотя данные за 2020 г. сравниваются с данными за предыдущие годы, показатели и тенденции следует интерпретировать с осторожностью из-за потенциального влияния на деятельность по выявлению и регистрации ТБ со стоны мер общественного здравоохранения и социальных мер, введенных странами в ответ на пандемию COVID-19.

Бремя туберкулеза

Расчетное число случаев заболевания ТБ в Европейском регионе ВОЗ последовательно сокрашается с 2000 г. В период с 2011 по 2020 гг. среднегодовое снижение уровня заболеваемости ТБ составило 5,2%, а в 2019-2020 гг. – 6,4%, что значительно превышает глобальные темпы снижения заболеваемости ТБ (1,9%) и является примером самых быстрых темпов снижения в мире по сравнению с другими регионами. Совокупное сокращение за период 2015 – 2020 гг. составило 25%, что свидетельствует о том, что Регион превысил контрольный показатель Стратегии по ликвидации туберкулеза 2020 г., предусматривающий снижение уровня заболеваемости туберкулезом в 2020 г. на 20% по сравнению с исходным уровнем 2015 г., и достиг целевого ориентира Регионального плана действий по снижению уровня заболеваемости туберкулезом на 25% (1).

Согласно оценкам, в 2020 г. в Европейском регионе ВОЗ число смертей от ТБ среди ВИЧ-отрицательных людей составило 21 000, что соответствует показателю в 2,3 смертей на 100 000 населения (диапазон 2,2–2,4). В период с 2011 по 2020 гг. показатель смертности от ТБ на региональном уровне в совокупности снизился на 54,0% – с 4,9 до 2,3 смертей на 100 000 населения, что в среднем составляет сокращение на 8,3% в год. Смертность от ТБ в Регионе впервые за последние два десятилетия вышла на плато в период с 2019 по 2020 гг. Такая ситуация стала результатом наличия недиагностированных и нелеченных случаев ТБ и связанного с этим роста смертности из-за перебоев в работе противотуберкулезных служб на фоне пандемии COVID-19. Таким образом, снижение абсолютного числа смертей от ТБ в 2020 г. по сравнению с 2015 г. составило всего 26% против 35%, предусмотренных Региональным планом действий.

В 2020 г. в Регионе было зарегистрировано 69 000 расчетных новых случаев ТБ с устойчивостью к рифампицину и множественной лекарственной устойчивостью возбудителя (РР/МЛУ-ТБ), в том числе 37 000 расчетных случаев среди зарегистрированных больных легочным ТБ с бактериологически подтвержденным диагнозом. Доля РР/МЛУ-ТБ среди новых и ранее леченных случаев ТБ в Регионе также значительно превышает среднемировой показатель: 18% среди новых и 53% среди ранее леченных случаев по сравнению с 4% и 21% соответственно (2).

Распространенность ВИЧ-инфекции среди больных ТБ, по оценкам, составила 12% в 2020 г. – это еще один год приостановленного роста после беспрецедентного увеличения с 4% до 12% в период с 2007 по 2016 гг. Расчетное число ВИЧ-положительных случаев ТБ в Регионе составило 29 000, причем почти 80% случаев приходилось на Российскую Федерацию (55%) и Украину (24%).

Регистрация случаев и результаты лечения ТБ

В 2020 г. было зарегистрировано 163 бо2 новых случая и рецидивов ТБ в 51 из 53 стран Региона⁴, что составляет 71% от предполагаемых новых и рецидивных случаев. Резкое сокращение на 24% числа зарегистрированных новых случаев и рецидивов ТБ в период с 2019 по 2020 гг. является явным отражением прерывания отрицательной динамики регистрации случаев ТБ (свидетельство базового снижения заболеваемости ТБ) в Регионе и объясняется влиянием пандемии COVID-19 на деятельность по выявлению и регистрации случаев ТБ.

Это воздействие было более значительным в первые дни пандемии, когда страны ввели строгие меры в области общественного здравоохранения и социальной защиты в ответ на распространение COVID-19. Исследование, проведенное Европейским региональным бюро ВОЗ, показало, что в апреле – июне 2020 г. наблюдалось сокращение регистрации случаев ТБ в среднем на 36% по сравнению с тем же периодом 2019 г., при этом прослеживалась корреляция между уровнем строгости ограничений на передвижение внутри страны и сокращением регистрации случаев ТБ (3).

Среди новых случаев и рецидивов ТБ было зарегистрировано в общей сложности 135 521 случай ТБлегких (82,8%), из которых 66,8% имелилабораторное подтверждение диагноза. Среди бактериологически подтвержденных случаев ТБ легких 92,0% были протестированы на устойчивость к рифампицину.

В целом 34,3% больных ТБ легких, у которых, по имеющимся данным, были проведены тесты на лекарственную чувствительность, имели РР/МЛУ-ТБ. Распространенность РР/МЛУ-ТБ среди новых и ранее

⁴ Латвия и Сан-Марино не предоставили данных.

леченных бактериологически подтвержденных случаев легочного ТБ составила 23,1% и 55,2% соответственно.

Данные о тестировании на лекарственную чувствительность (ТЛЧ) к фторхинолонам были в наличии для 94,3% всех зарегистрированных случаев легочного PP-TБ. В целом 32,9% легочных случаев PP/МЛУ-ТБ с результатами ТЛЧ к фторхинолонам имели ТБ с предширокой лекарственной устойчивостью (пред-ШЛУ-ТБ) в 2020 г. Среди пациентов с пред-ШЛУ-ТБ, прошедших тестирование лекарственной устойчивости к любым другим препаратам группы А, распространенность ШЛУ-ТБ на региональном уровне составила 6,5%.

Среди новых случаев и рецидивов ТБ, зарегистрированных в странах, предоставивших данные отестировании на ВИЧ, 92,6% были обследованы на ВИЧ. Всего было выявлено 19 663 случая ТБ с ВИЧ-положительным статусом, что составило 15,0% от числа прошедших тестирование – это прирост по сравнению с 2019 г. (когда эта доля составляла 14,3%).

В общей сложности 14 351 (74,3%) ВИЧ-положительных пациентов получили антиретровирусную терапию (АРТ). За последние пять лет охват АРТ увеличился, но еще остается значительно ниже целевого ориентира ВОЗ по всеобщему охвату пациентов с сочетанной инфекцией ТБ/ВИЧ антиретровирусной терапией.

Показатель успешного лечения в Регионе остается ниже соответствующих региональных целевых ориентиров в 85% и 75%. Успешные результаты лечения в когортах новых случаев и рецидивов ТБ и РР/МЛУ-ТБ составили 76,5% и 55,9% соответственно, что сопоставимо с результатами предыдущего года.

Выводы

Заметный прогресс в сдерживании роста бремени ТБ в Регионе, наблюдавшийся в период с 2015 по 2019 гг., был приостановлен в 2020 г. пандемией COVID-19. В результате в 2020 г. тенденция снижения смертности и заболеваемости ТБ замедлилась, гораздо меньшее число людей проходили диагностику и лечение ТБ и, соответственно, меньшее число людей проходило тестирование на лекарственную устойчивость и было включено в программу лечения РР/МЛУ-ТБ. Несмотря на эти проблемы, успехи, достигнутые до пандемии, были достаточно значительными для достижения целевого ориентира Регионального плана действий снижения уровня заболеваемости ТБ на 25% в 2020 г. по сравнению с 2015 г., что означает, что Регион перевыполнил задачу Стратегии по ликвидации туберкулеза по сокращению заболеваемости ТБ на 20% по сравнению с исходным уровнем 2015 г.

Впервые за более чем два десятилетия тенденция снижения числа смертей от ТБ приостановилась в 2020 г. вследствие задержки или отсутствия диагностики ТБ из-за нарушения работы противотуберкулезных служб, что привело к увеличению тяжести заболевания и соответствующему увеличению числа смертей. Это поставило под угрозу достижение важной задачи Стратегии по ликвидации туберкулеза – сокращения числа смертей от ТБ. Фактическое снижение абсолютного числа смертей от ТБ в 2020 г. по сравнению с 2015 г. составило лишь 26% против запланированных 35%. Другие заметные последствия пандемии COVID-19 в Регионе включают сокращение на 17,7% числа пациентов с РР/МЛУ-ТБ, выявленных и включенных в программу лечения в 2020 г., по сравнению с 2019 г. Результаты лечения новых случаев и рецидивов ТБ оставались сопоставимыми с предыдущими годами, без признаков значительного снижения показателей успешного лечения.

Несмотря на медленное улучшение ситуации, показатели успешного лечения новых случаев и рецидивов ТБ, а также случаев с РР/МЛУ-ТБ все еще ниже региональных и глобальных целевых ориентиров. Несмотря на предпринимаемые усилия, бремя РР-ТБ и ТБ/ВИЧ остается значительным, что подчеркивает необходимость внедрения более инновационных и эффективных подходов в сферу диагностики и лечения ТБ и МЛУ-ТБ.

Европейский Союз и страны Европейской экономической зоны

Эпидемиологическая ситуация и результаты лечения

В 2020 г. в 29 странах Европейского союза и Европейской экономической зоны (EC/EЭЗ) было зарегистрировано 33 148 случаев заболевания туберкулезом (Латвия не предоставила данных о случаях заболевания), таким образом, показатель заболеваемости составил 7,3 на 100 000 населения в EC/EЭЗ. Общий показатель регистрации и показатели в большинстве стран снижались в течение последних пяти лет. Показатели за 2020 г. следует интерпретировать с осторожностью из-за потенциального влияния мер, предпринятых для смягчения последствий пандемии COVID-19, на процессы сбора данных и доступность услуг здравоохранения.

Из всех зарегистрированных случаев ТБ, 24 139 (72,8%) были впервые диагностированными случаями заболевания, а 22 301 (67,3%) имели подтверждение диагноза результатами исследования посева или мазка и теста на амплификацию нуклеиновых кислот. В 2020 г. взрослые в возрасте от 25 до 64 лет составили 64,8% всех новых случаев и рецидивов ТБ, а дети до 15 лет – 3,8%. Мальта сообщила о самых высоких показателях регистрации среди детей: 16,7 случаев на 100 000 населения в возрасте от 0 до 4 лет. В 2020 г. новые случаи и рецидивы ТБ чаще регистрировались среди мужчин, чем у женщин, соотношение мужчин и женщин составило 2,0. Одна треть (33,0%) случаев ТБ, зарегистрированных в ЕС/ЕЭЗ в 2020 г., была иностранного происхождения. Из 14 997 случаев с результатами ТЛЧ как минимум к рифампицину, 649 (4,3%) имели РР-ТБ и 566 (3,8%) – МЛУ-ТБ. Странами с самой высокой долей случаев МЛУ-ТБ среди больных с результатами ТЛЧ (за исключением Франции) были Эстония (19,4%) и Литва (16,7%). Пред-ШЛУ-ТБ был зарегистрирован у 115 (27,6%) из 417 случаев РР/МЛУ-ТБ, протестированных на чувствительность к фторхинолонам. Среди случаев пред-ШЛУ-ТБ 82 (71,3%) были протестированы на чувствительность к любому другому препарату группы А, а 37 (45,1%) соответствовали определению ШЛУ-ТБ.

В 2020 г. данные о сочетанной инфекции ВИЧ предоставили 19 стран. Число стран, предоставивших данные о сочетанной инфекции ВИЧ, достигло максимума в 2016 и 2017 гг. – 23, за которым последовало снижение до 21 в 2018 г., а затем до 19 в 2019 г. Из 12 327 случаев ТБ с известным ВИЧ-статусом, 515 (4,2%) были зарегистрированы как ВИЧ-положительные.

О туберкулезе в тюрьмах по-прежнему сообщается мало. В 13 странах EC/EЭЗ, предоставивших свои данные, показатель регистрации составил 137 новых случаев и рецидивов ТБ на 100 000 заключенных, а относительный риск для заключенных в тех же странах составил 9,3 по сравнению с населением в целом.

Из всех 28 982 случаев ТБ, зарегистрированных в 2019 г. с результатами лечения, полученными в 2020 г., 71,8% были успешно пролечены, 7,6% умерли и 0,8% имели безуспешный результат лечения. Из 927 случаев РР/МЛУ-ТБ, зарегистрированных в 2018 г., о результатах лечения которых было сообщено в 2020 г., 52,4% были пролечены успешно, 14,5% умерли и 10,5% имели безуспешный результат лечения. Успешный результат терапии был достигнут лишь у 10 (38,5%) из 26 случаев ШЛУ-ТБ, зарегистрированных в 2017 г., в то время как в 15,4% случаев сообщалось о смерти, а в 3,8% – о неудачном лечении.

Выводы

В 2020 г. 29 из 30 стран ЕС/ЕЭЗ предоставили данные о регистрации случаев ТБ. Наблюдалось дальнейшее снижение общего показателя регистрации ТБ (7,3 на 100 000 населения) с продолжением тенденции. наблюдаемой с 2002 г., однако снижение, отмеченное междуданными 2019 и 2020 гг., следует интерпретировать с осторожностью из-за возможного влияния мер, принятых для смягчения последствий COVID-19. Необходимо проделать значительную работу, чтобы к 2030 г. достичь целевого ориентира по показателям регистрации, установленного ООН в рамках задачи з Целей в области устойчивого развития, на уровне ЕС/ЕЭЗ – 2,4 на 100 000 населения. Обнадеживает то, что в 2020 г. число зарегистрированных случаев МЛУ-ТБ и ШЛУ-ТБ в странах ЕС/ЕЭЗ продолжало снижаться и составило очень небольшую долю от всех зарегистрированных случаев ТБ в 2020 г.

Во всех когортах зарегистрированные результаты лечения остаются значительно ниже целевых ориентиров ВОЗ. Из всех случаев ТБ, зарегистрированных

в 2019 г., о результатах лечения которых было сообщено в 2020 г., успех в лечении был достигнут лишь у 71,8%. Показатель успешного лечения был ниже для случаев РР/МЛУ-ТБ на 24 месяце (52,4%) и еще ниже для случаев ШЛУ-ТБ на 36 месяце (38,5%), а доля смертей для этих когорт составила 15,2% и 15,4% соответственно.

Во всех странах ЕС/ЕЭЗ необходимы дальнейшие усилия для улучшения отчетности о случаях сочетанной инфекции ВИЧ и ТБ в тюрьмах, а также о результатах лечения.

Мониторинг прогресса на пути к ликвидации ТБ

Последним годом, охваченным мероприятиями Плана действий по борьбе с туберкулезом для Европейского *региона ВОЗ на 2016–2020 гг. (4),* был 2020 г. Двадцать из 26 индикаторов Регионального плана действий ВОЗ были эффективно отслежены и оценены с использованием данных регулярного эпиднадзора. Девять из 20 отслеживаемых целевых ориентиров были достигнуты на региональном уровне. Особенно впечатляющим был прогресс в снижении уровня заболеваемости ТБ: большинство стран высокого приоритета в отношении ТБ и Регион в целом достигли контрольного уровня 2020 г. глобальной Стратегии по ликвидации туберкулеза и целевого ориентира Регионального плана действий. Регион был очень близок к достижению целевого ориентира по снижению числа смертей от ТБ на 35% по сравнению с базовым уровнем 2015 г., однако существующая тенденция снижения смертности от ТБ остановилась в 2020 г. из-за пандемии COVID-19, что, в конечном итоге, поставило под угрозу достижение поставленной цели. Дополнительные достижения включают значительное увеличение охвата тестированием на ВИЧ и АРТ за последние несколько лет, а также увеличение охвата тестированием с использованием быстрых методов, рекомендованных ВОЗ.

К сожалению, Региону не удалось достичь 11 целевых ориентиров, в том числе в отношении показателя выявления случаев ТБ, процента РР/МЛУ-ТБ среди новых и ранее лечившихся больных ТБ, распространенности ВИЧ среди новых случаев и рецидивов ТБ, охвата профилактическим лечением ТБ (ПЛТ) детей в возрасте до 5 лет, а также показателей успешного лечения среди новых случаев и рецидивов ТБ, когорт больных РР/МЛУ-ТБ и больных ТБ в тюрьмах. Несмотря на предпринимаемые усилия, бремя, связанное с РР-ТБ и ТБ/ВИЧ, продолжает расти, что указывает на необходимость внедрения более инновационных и эффективных подходов для решения этих проблем. Показатели успешного лечения новых случаев и рецидивов ТБ и случаев РР/МЛУ-ТБ остаются ниже глобальных и региональных целевых ориентиров, однако при сравнении данных, собранных в период с 2016 по 2020 гг., можно отметить медленный, но устойчивый рост в обеих когортах. Необходимо активизировать усилия, направленные профилактику,

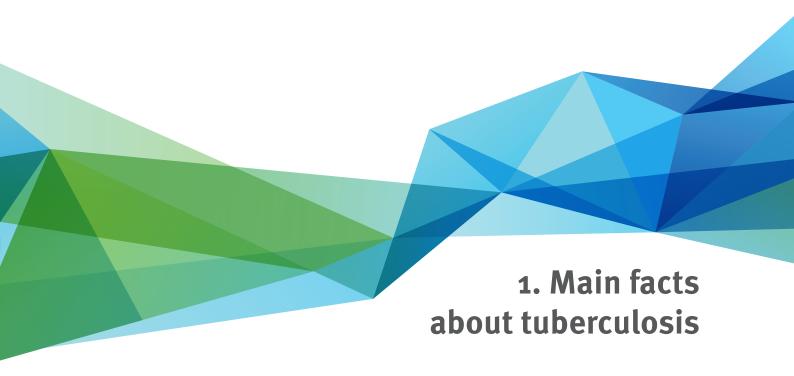
в том числе на отслеживание контактов, увеличение охвата ПЛТ и АРТ среди людей, живущих с ВИЧ.

Библиография⁵

 Дорожная карта по реализации плана действий по борьбе с туберкулезом для Европейского региона ВОЗ на 2016-2020 гг. На пути к ликвидации туберкулеза и туберкулеза с множественной лекарственной устойчивостью. Копенгаген: Европейское региональное бюро ВОЗ; 2016 г. (https://apps.who.int/iris/handle/10665/329487).

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⁵ Все веб-ссылки были просмотрены 12 февраля 2022.



Tuberculosis (TB) is an infectious disease caused by a group of *Mycobacterium* species called the *Mycobacterium tuberculosis* (*M. tuberculosis*) complex (*1*). Globally, TB is the leading cause of death by an infectious disease (*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 infected with TB (\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), preextensively drug-resistant TB (pre-XDR-TB) and extensively drug-resistant TB (XDR-TB) require longer treatments with more drugs and are associated with lower success rates.

WHO estimated that 9.9 million people fell ill with TB in 2020. Most cases were thought to have occurred in the WHO South-East Asia Region (43%), 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%) and the WHO Region of the Americas (3%). The WHO European Region accounted for 2% of all cases (4).

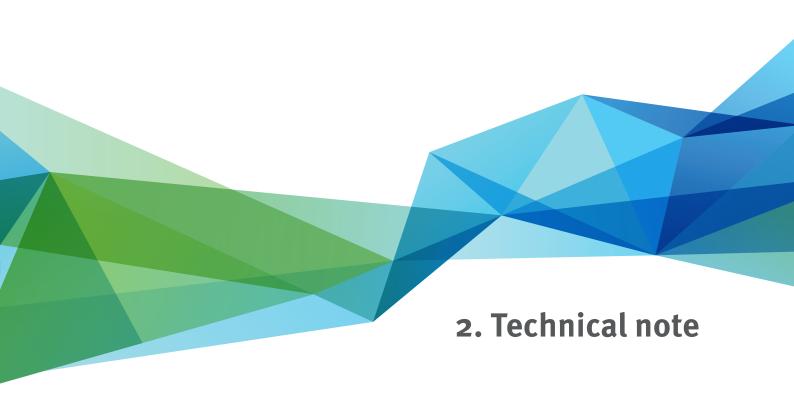
Overall, this report shows that in countries of the European Union/European Economic Area (EU/EEA), TB remains a public health issue. Most EU/EEA countries, however, are low-incidence countries (with a notification rate below 10 per 100 000) in which TB predominantly affects vulnerable populations such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

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

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

Since 1 January 2008, the European Centre for Disease Prevention and Control (ECDC) and the WHO Regional Office for Europe have jointly coordinated the collection and analysis of TB surveillance data in Europe, aiming to ensure data 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, 2). In the EU/EEA, reporting follows European Union (EU) case definitions (3).

The report covers the 53 countries of the WHO European Region and Liechtenstein. These are collectively referred to as the European Region. Although the United Kingdom was part of the EU/EEA until 31 January 2020, for ease of reporting the 2020 United Kingdom data and historical data are shown in the non-EU/EEA section of the tables.

Data published in the report may differ from figures in national reports due to variations in reporting periods and the deadlines for data collection. The deadline for updating the data used in this report was 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 2020 electronically to the ECDC/WHO Regional Office for Europe Joint TB Information System via a common portal (4). 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 all, 29 of 30 EU/EEA Member States reported case-based data. All countries in the European Region were also asked to provide updates for 2017, 2018 and 2019 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 2020 data (Annex 2) has not undergone changes compared to the previous year.

Reporting completeness (Annexes 3 and 4) varied among countries and areas due to differences in legislation, specifics of national surveillance systems and TB case ascertainment. Readers should be cautious when making comparisons across countries and areas, even though the quality and comparability of reported data have improved in recent years and the reporting completeness is generally high in the EU/EEA, with a few exceptions, such as HIV status and 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 (5). Population denominators were obtained from United Nations Population Division statistics (6) for the calculation of rates in these tables.

For the calculation of notification rates, country total population denominators by age group and gender were obtained from Eurostat (7) (9 April 2021) 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 and patient origin) and case management (history of previous anti-TB treatment, localization of disease, laboratory results, HIV status and treatment outcome) variables. If indicated, associations between variables were 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 2020 was reported by Belgium, Bulgaria, Croatia, Cyprus, Czechia, Denmark, Estonia, Greece, Hungary, Ireland, Lithuania, Luxembourg, the Netherlands, Norway, Portugal, Romania, Slovakia, Slovenia and Spain. The proportion of TB/HIV 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 2020, start or continuation on antiretroviral therapy (ART) was reported by six EU/EEA Member States.

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 79% of EU/EEA countries reporting the latter for the last six years (2015–2020). 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/TME since 2009. Data on ciprofloxacin are no longer collected in TESSy (since 2017), as ciprofloxacin is no longer recommended for treatment of drug-susceptible 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/ areas where DST results are linked to TB case notifications (28 of 29 countries in 2020).

Where individual DST data are not available, data have been obtained from WHO's TME platform 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. Since 2019, when collecting data to report resistance to anti-TB drugs, EU/EEA Member States have been 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-/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 Reference Laboratory Network for Tuberculosis (ERLTB-Net) (8). The EQA test results for 2020 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 only for MDR-TB cases.

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 rifampicin-resistant or multidrug-resistant TB (RR/MDR-TB) and pre-XDR-TB treatment outcome for cases reported two years earlier and XDR-TB treatment outcome for cases reported three years earlier. As part of the 2021 data call, for 2020 data, outcome data were collected for TB cases reported in 2019, rifampicin-resistant, multidrug-resistant and pre-XDR-TB cases in 2018 and XDR-TB cases in 2017. Non-EU/EEA countries and areas have reported aggregated treatment outcome data following the same principle since 2013.

If enrolment for treatment is taken into account for treatment outcome monitoring 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 treatment outcome monitoring 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 30 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 2020), Luxembourg, Liechtenstein, Lithuania, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain and Sweden.

The 24 remaining (non-EU/EEA) countries in the WHO European Region are Albania, Andorra, Armenia, Azerbaijan, Belarus, Bosnia and Herzegovina, Georgia, Israel, Kazakhstan, Kyrgyzstan, the Republic of Moldova, Monaco, Montenegro, North Macedonia, the Russian Federation, San Marino, Serbia, Switzerland, Tajikistan, Turkey, Turkmenistan, Ukraine, the United Kingdom and Uzbekistan.

Data from Serbia include TB cases reported from Kosovo⁷ and these are also stratified in tables to reflect United Nations Security Council Resolution 1244 (1999).

Data from the 18 high-priority countries (HPCs) identified in the *Plan to stop TB in 18 high-priority countries in the WHO European Region, 2007–2015 (9)* 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 2020), 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.

⁷ All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

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 (3). 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 by microscopy; detection of *M. tuberculosis* complex by nucleic acid amplification testing; or histological appearance of granulomata. In addition to meeting clinical criteria, confirmed cases require isolation of *M. tuberculosis* complex by culture or detection of both acid-fast bacilli by microscopy and *M. tuberculosis* complex by nucleic acid amplification testing.

Data from all countries and areas in the European Region also follow the WHO-recommended definitions (2013 revision) (1). These 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 (*Mycobacterium tuberculosis* (MTB) and resistance to rifampin (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, which 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 who 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 is 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, relapses are included in notifications from all countries, but 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 geographical origin of a TB case is classified according to the place of birth of a person with TB disease (that is, 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 (did not report case-based data for 2020), 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, the Republic of Moldova, Montenegro, Poland, 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 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.

Pre-extensive drug resistance (pre-XDR) refers to resistance to: (i) at least rifampicin (that is, rifampicin resistance/mutidrug resistance (RR/MDR)) and (ii) any fluoroquinolone.

Extensive drug resistance (XDR) refers to resistance to: (i) at least rifampicin (that is, rifampicin resistance/mutidrug resistance (RR/MDR)); (ii) a fluoroquinolone; and (iii) at least one additional Group A drug (1,2). The drugs currently included in Group A are levofloxacin, moxifloxacin, bedaguiline and linezolid.

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, pre-XDR 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 RR/MDR-TB and pre-XDR-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".⁸ 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".⁹ 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 EU/EEA Member States. The categories are as follows.

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

Treatment completed – treatment completed but does not meet the criteria to be classified as cured or treatment failed.

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

Treatment failed for MDR-TB, pre-XDR-TB and XDR-TB case – treatment terminated or the need for permanent regimen change of at least two anti-TB drugs because of:

⁸ The degree of adherence to the 12-month limit is unknown, and a number of countries are known to exceed it.

⁹ The degree of adherence to the 24-month limit is unknown.

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

Lost to follow-up – 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 treatment¹⁰ – 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 – 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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- Definitions and reporting framework for tuberculosis

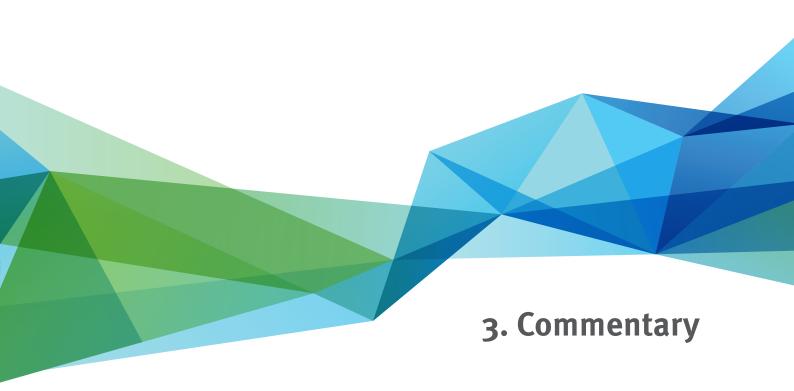
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 $^{^{\}scriptscriptstyle 10}$ This definition is applicable to EU/EEA countries only.

¹¹ All references accessed on 16 February 2022.



3.1 The WHO European Region

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

An estimated 231 000 new and relapse TB cases (range 201 000–264 000) occurred in countries and areas of the WHO European Region in 2020, equivalent to an average incidence of 25 cases (range 22–28) per 100 000 population. This represents about 2.3% of the total burden of TB in the world.

The absolute number of incident TB cases in the WHO European Region fell by 16 000 in 2020 compared to the previous year. About 84% of the estimated TB cases in the Region occurred in the 18 HPCs, where estimated TB incidence was 47 cases per 100 000 population, which is 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 (68 000), Ukraine (32 000), Uzbekistan (22 000), Turkey and Kazakhstan (13 000 each), and Romania (12 000). The number relative to population (incidence rate) was highest in Kyrgyzstan (105 per 100 000 population), followed by Tajikistan (84 cases), the Republic of Moldova (74 cases). Ukraine (73 cases) and Georgia (70 cases) (Table II).

The estimated number of TB cases in the Region has been decreasing consistently since 2000. During the period 2011–2020, the average annual decline in the TB incidence rate was 5.2%, with 6.4% between 2019 and 2020, which is notably higher than the global rate of decline for TB incidence (1.9%) and the fastest decline in the world compared to other regions (1). The cumulative reduction for the period 2015–2020 was 25%, indicating that the Region exceeded the 2020 End TB Strategy milestone to reduce the TB incidence rate in 2020 by 20% against the 2015 baseline, and also achieved the regional action plan target of a 25% reduction in the TB incidence rate. This was mostly driven by the decline in the Russian Federation, where incidence fell by 6% per year between 2011 and 2020. It should nevertheless be emphasized that most of the HPCs in the Region have also experienced a decline in the TB incidence rate. During the period 2011–2020, the HPCs with the highest annual rate of decline were Estonia (-9.7%), Armenia (-9.2%), Belarus (-9.2%), Lithuania (-8.6%), Azerbaijan (-8.2%), Latvia (-7.6%) and Kazakhstan (-7.2%).

An estimated 21 000 TB deaths occurred among HIV-negative people in the European Region in 2020, equivalent to 2.3 deaths per 100 000 population (range 2.2–2.4). Between 2011 and 2020, the TB mortality rate at regional level fell cumulatively by 54%, from 4.9 to 2.3 deaths per 100 000 population, which on average is a decline of 8.3% per year (Table I). TB mortality in the Region plateaued between 2019 and 2020 for the first time in the last two decades. This was a consequence of undiagnosed and untreated TB and an associated increase in deaths due to disruptions to TB services caused by the COVID-19 pandemic. As a result, the reduction in the absolute numbers of TB deaths in 2020 compared to 2015 was only 26% versus the 35% target of the regional action plan and the End TB Strategy (1). Considerable variation was seen across the Region, ranging from fewer 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 deaths per 100 000), followed by Tajikistan (9.6) and Ukraine (9.4). Together, the 18 HPCs accounted for over 86% of TB deaths in the Region.

An estimated 12% (range 9.2–16%) of incident TB cases in 2020 were coinfected with HIV (Table 2). The proportion of TB cases coinfected with HIV was highest in the Russian Federation (24%), Turkmenistan and Ukraine (22% each), followed by the Republic of Moldova (13%) and Armenia (11%). The top five countries with the highest absolute number of TB/HIV coinfection cases were the Russian Federation (16 000) and Ukraine (7000), representing 79% of the total number of cases, followed by Kazakhstan (850), Uzbekistan (690) and Turkmenistan (630).

Nine of the 30 countries with the highest RR/MDR-TB burden in the world are in the WHO European Region.¹² In 2020, the WHO European Region had an estimated 37 000 incident cases of RR/MDR-TB among notified bacteriologically confirmed pulmonary TB cases, with MDR-TB accounting for 88% (Table 2). An estimated 18% (95% CI: 17–20%) of newly diagnosed patients and 53% (95% CI: 45–60%) of previously treated patients had RR/MDR-TB. Overall, an estimated 69 000 (range 54 000–86 000) incident cases of RR/MDR-TB occurred in the Region in 2020.

3.1.2 TB notification and trends

In 2020, 199 700 TB patients were reported from 51 countries and areas¹³ in the WHO European Region. Of these, 163 602 were incident TB patients (Table 3, Table III). This represents an unprecedented 24.4% drop in the number of notified TB patients compared to 2019, due to the impact of the COVID-19 pandemic on access to TB diagnostic and treatment services. This translates into TB treatment coverage of 71% (95% CI: 62–81%) in 2020 (approximated as notifications divided by incidence), down from 88% (95% CI: 77–100%) in 2019. Among the HPCs, the sharpest drop was observed in Armenia and the Republic of Moldova (37% each), Romania (35%), Belarus (31%), Kyrgyzstan

¹² The nine countries from the WHO European Region included in the global list of 30 countries with highest RR/MDR-TB burden are (in alphabetical order): Azerbaijan, Belarus, Kazakhstan, Kyrgyzstan, the Republic of Moldova, the Russian Federation, Tajikistan, Ukraine and Uzbekistan.

 $^{^{\}scriptscriptstyle 13}$ Latvia and San Marino did not report, and Monaco reported zero cases in 2020.

and Lithuania (32% each), and Ukraine and Tajikistan (30% each).

The notification rate of new and relapse cases in 2020 varies widely among countries, from zero (Monaco) to 65 (Kyrgyzstan) per 100 000 population (Map 1 and Table III). Thirty-eight countries, mainly located in the western and central part of the Region, had low notification of new and relapse cases (fewer than 20 cases per 100 000) in 2020. Twelve reported new and relapse case rates of between 20 and 50 per 100 000 population and two reported over 50 cases per 100 000 population (Kyrgyzstan (65) and Kazakhstan (51.1)). The new and relapse case notifications from the 18 HPCs account for about 83% of the regional burden. Over a third of new and relapse cases (58 723) come from the Russian Federation, even though the Russian Federation accounts for only 16% of the Region's population.

The notification rate of new and relapse cases in the 18 HPCs is almost twice as high as for the Region overall (33 cases per 100 000, compared to 18 for the Region) and almost five times higher than the rate in the EU/EEA (seven cases per 100 000 population) (Fig. 3.1.1).

3.1.3 Previous treatment history

In 2020, previously treated cases represented 10.4% and 34.3% in the EU/EEA and non-EU/EEA, respectively (Table 4). The average in the 18 HPCs was 34.5%, which is above

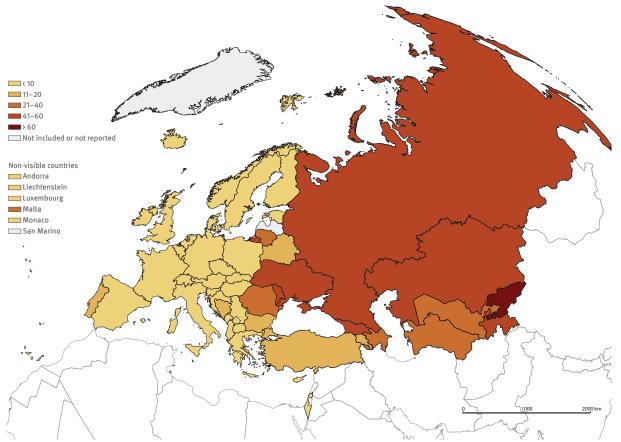
the pan-European average of 30.3%. Previously treated cases accounted for 15% or more of all TB cases in 13 countries: Azerbaijan (48.7%), the Russian Federation (44.2%), Turkmenistan (38.6%), Belarus (34.1%), Kazakhstan (30.8%), Kyrgyzstan (27.7%), Ukraine (27.5%), the Republic of Moldova (27.3%), Uzbekistan (22.9%), Romania (21.8%), Georgia (19.4%), Lithuania (18.6%) and Armenia (16.9%). Reasons for the high percentage of previously treated cases include clinical failure or poor treatment adherence in previous treatment episodes, and possible reinfection and misclassification during the current treatment episode.

3.1.4 Disease localization

Pulmonary localization was notified in 82.8% of the incident TB cases in the Region in 2020 (Table 6). 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 17.2% of all incident TB cases in the Region. Thirteen countries reported more than 30% of their TB cases having extrapulmonary localization: Andorra, Belgium, Finland, France, Lichtenstein, the Netherlands, Norway, Portugal, Sweden, Tajikistan, Turkey, the United Kingdom and Uzbekistan.

3.1.5 Bacteriological confirmation

Bacteriological confirmation of TB diagnosis was reported for 90 549 (66.8%) of all 135 521 new and relapse pulmonary



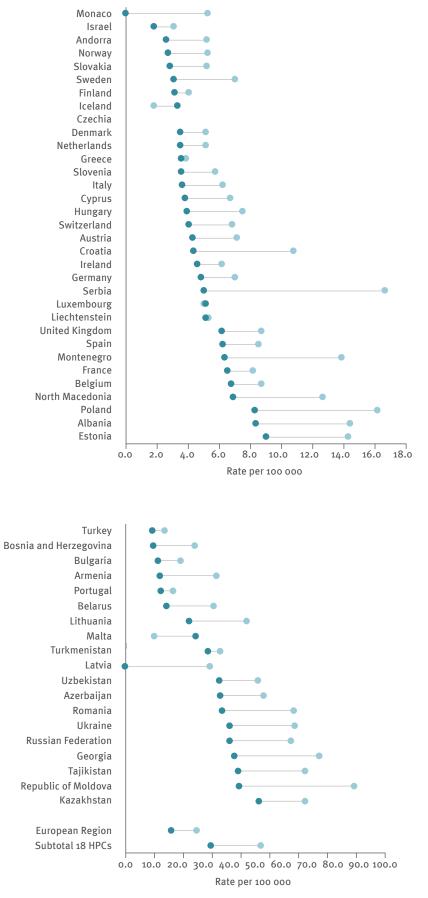
Map 1. TB notification rates of new TB cases and relapses per 100 000 population, European Region, 2020

Sources: 2020 data from the European Surveillance System (TESSy) and 2020 data from the WHO global TB data-collection system. Map production: © WHO.

2016

2020

Fig. 3.1.1. Trend of TB notification rate per 100 000 between 2016 and 2020 in countries below 10 cases per 100 000 (upper panel) and 10 cases and over per 100 000 (lower panel) in the WHO European Region



Note: Latvia did not report data in 2020 and is excluded.

cases in the Region (Table 6). Testing of patients using WRD (such as Xpert MTB/RIF) was much lower in the EU/EEA countries (33.7%) than in the non-EU/EEA countries and areas (82.3%). The five-year trend nevertheless shows a continuing increase in usage of WRDs across the Region, from 55.5% in 2016 to 72.3% in 2020 (Fig. 3.1.2 and Table XIV). Testing also varied considerably among countries and areas, from 0.2% in Bulgaria to 96% in Kazakhstan. Bacteriological confirmation of new and relapse pulmonary cases was below 60% in seven countries, underlining the need to strengthen diagnostics: Serbia (45.7%), Turkmenistan (46.9%), Malta (52.5%), Hungary (53%), the Russian Federation (53.4%), Iceland (55.6%) and Slovakia (56.9%). In 34 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 sexspecific notification rates across countries and areas (Table 8). Notification rates in eastern European countries are highest in young adults (25–44 years) and subsequently decline with increasing age, while in central Asia and in Turkey, the notification rates either increase with age or are relatively constant across adult age groups.

In the group of 18 HPCs, the rate of TB in children under 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, Czechia and Estonia) to 22.9% (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 4%.

There were about 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 and the Republic of Moldova. The exceptions were Norway and Serbia, 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 seem more similar in children and younger adults (o-14 and 15-24 years). This gender difference in TB case notification most probably reflects the overrepresentation of males in the various TB risk groups, notably homeless people, prisoners, seasonal migrant workers and people living with HIV (PLHIV).

3.1.7 Drug resistance

Fifty countries in the Region reported test results for rifampicin resistance in 2020. Overall, DST coverage in the Region, at least for rifampicin among bacteriologically confirmed pulmonary TB cases, was 92%, with 41 countries achieving coverage of 85% or higher. Only in two countries was the coverage less than 50% (Spain (46.8%) and France (3.4%)). The percentage of confirmed RR-TB cases among 64 608 new pulmonary TB cases tested for rifampicin resistance in the Region was 23.1% (Map 2, Fig. 3.1.3, Table 11 and Table V). While 18 countries reported no RR-TB or less than 1% among new TB cases, the rate was over 20% in eight countries (Table 11). Overall, for EU/EEA countries, the prevalence of RR-TB cases among all confirmed new pulmonary TB cases tested for rifampicin resistance was 2.8%, but among previously treated pulmonary cases, the RR-TB proportion was higher at 12.8% (Fig. 3.1.4).

Six HPCs had an RR/MDR-TB prevalence ranging from 10% to 19% among new cases tested for rifampicin resistance: Uzbekistan (18.3%), Estonia (18%), Armenia (14.1%), Lithuania (12.4%), Azerbaijan (12%) and Georgia (10.7%). Four had 20–29% RR/MDR-TB among new cases (Ukraine (28.6%), Kyrgyzstan (28.3%), the Republic of Moldova (26%) and Tajikistan (24.2%)) and three had an RR/MDR-TB prevalence over 30% (Belarus (39.5%), the Russian Federation (36.3%) and Kazakhstan (36.2%)). The percentage of RR/MDR-TB reported for France is misleading, as DST results are documented for RR-TB cases only.

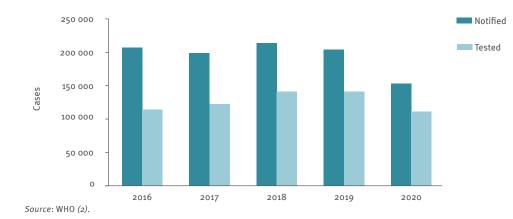
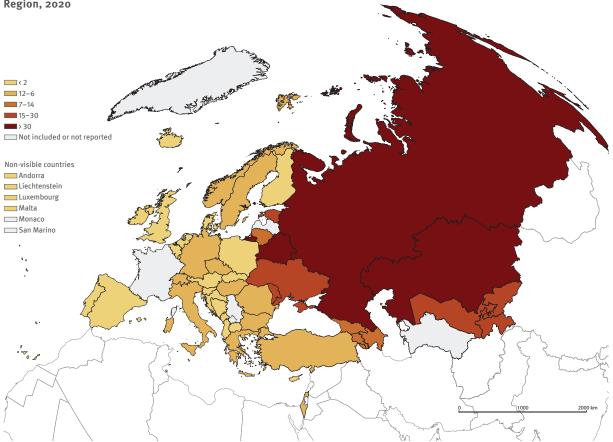


Fig. 3.1.2. New and relapse TB cases tested using WRD such as Xpert MTB/RIF, European Region, 2016–2020

18



Map 2. Percentage of notified TB cases with MDR among new pulmonary laboratory-confirmed TB cases, European Region, 2020

Sources: 2020 data from the European Surveillance System (TESSy) and 2020 data from the WHO global TB data-collection system. Map production: © WHO.

The percentage of confirmed RR/MDR-TB cases among 35 961 previously treated pulmonary bacteriologically confirmed TB cases whose isolates were tested for first-line DST was 55.2% (Fig. 3.1.3, Table 11 and Table VI).

Fourteen 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: Belarus (74.5%), the Russian Federation (68.4%), Kyrgyzstan (54%), the Republic of Moldova (53.1%) and Armenia (50%) (Fig. 3.1.5, Table 11).

The rates of RR/MDR-TB notification among new and previously treated patients in 2020 at regional level was 1.6 and 2.2 per 100 000 respectively (Table V, Table VI). A sharp decline in RR/MDR-TB notifications compared to the previous year is the result of the overall drop in TB notifications due to the COVID-19 pandemic.

Trends in the rifampicin-resistant percentage among new bacteriologically confirmed pulmonary TB cases and trends in the notification rate per 100 000 population have differed by country in recent years (Table V). At subregional level, the proportion of rifampicin resistance among new pulmonary TB cases remained stable in the EU/EEA over the last five years, ranging between 2.6% and 2.8%. Similarly, the rate of notified RR/MDR-TB cases remained stable at around 0.1 case per 100 000 population. The rifampicin-resistant

percentage among new bacteriologically confirmed pulmonary TB cases in the non-EU/EEA countries and areas increased slightly from 25.7% to 27.8%. Before the pandemic, the RR/MDR-TB notification rate among new TB patients ranged between 3.8 and 4.0 per 100 000 population, with no sign of a decreasing trend. In 2020, the RR/MDR-TB notification rate per 100 000 population declined to 3.1 per 100 000 population during the same period.

Forty-four countries reported on DST data to fluoroquinolones among pulmonary RR/MDR-TB patients in 2020. Data on DST to fluoroquinolones were available for about 94.3% of all notified pulmonary RR/MDR-TB cases. Of the 32 851 pulmonary RR/MDR-TB cases subjected to DST to fluoroquinolones, 10 819 (32.9%) were pre-XDR-TB (Table 12).

Nineteen countries additionally reported DST results for any other Group A drugs among the pre-XDR-TB patients. Of 3898 pre-XDR-TB patients tested for resistance against any other Group A drugs, the prevalence of XDR-TB was 6.5% at regional level (Table 12). In EU/EEA countries, where 71.3% of pre-XDR-TB cases were tested for Group A drugs, the prevalence of XDR among pre-XDR cases was 45.1%, while in non-EU/EEA countries and areas where DST coverage to other Group A drugs was only 35.7%, the XDR prevalence among pre-XDR patients was 5.7%. Among

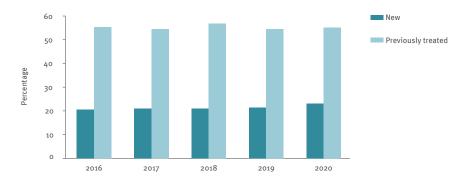
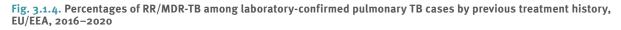


Fig. 3.1.3. Percentages of RR/MDR-TB among laboratory-confirmed pulmonary TB cases, European Region, 2016–2020



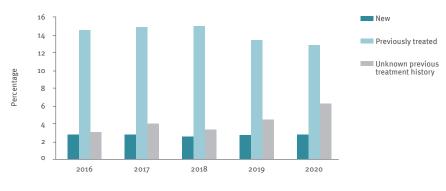
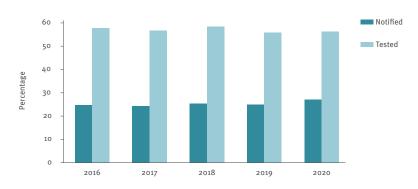


Fig. 3.1.5. Percentages of RR/MDR-TB among laboratory-confirmed pulmonary TB cases, 18 HPCs, 2016–2020



countries and areas reporting at least 30 pre-XDR cases with Group A DST results, three reported over 20% XDR prevalence among pre-XDR-TB cases: Lithuania (35.3%), Georgia (28.6%) and Tajikistan (25.6%).

There is no clear trend in relation to pre-XDR-TB prevalence in countries and areas with a long history of DST surveillance for fluoroquinolones among pulmonary RR/MDR-TB cases. In most, the pre-XDR percentage varies widely from year to year, but at regional level, pre-XDR prevalence among RR/MDR-TB cases slightly increased over the past four years, from 25.6 in 2017 to 32.9% (Table VIII). A total of 32 544 RR/MDR-TB and 11 979 pre-XDR-TB patients were enrolled in respective treatment programmes. The number of cases starting RR/MDR-TB treatment in 2020 exceeded the total number of patients notified during the same period, as many of the HPCs have reported higher numbers of cases enrolled than detected. The reasons for such discrepancies include incomplete reporting, backlogs of RR/MDR-TB patients, frequent treatment failures and treatment interruptions leading to re-enrolment of the same patients in the same yearly cohort, and weakness of surveillance. Four HPCs reported a gap of over 5% between the number of RR/MDR-TB patients diagnosed

and the number enrolled in RR/MDR-TB treatment (treatment coverage): Tajikistan (82%), Azerbaijan (89.3%), Kyrgyzstan (93.7%) and Belarus (94%) (Table 13).

In 2020, access to XDR-TB treatment at regional level was 83.5%. Seven HPCs (Azerbaijan, Belarus, Estonia, Georgia, Kyrgyzstan, the Russian Federation and Tajikistan) reported an over-5% gap in XDR-TB treatment coverage.

3.1.8 TB/HIV coinfection

Thirty-nine countries/areas provided surveillance data on TB/HIV coinfection (Table 14). Of the 141960 new and relapse TB patients notified in the reporting countries/areas, 131428 (92.6%) were screened for HIV. Twelve HPCs achieved a testing level above 90%: Armenia, Azerbaijan, Belarus, Estonia, Kazakhstan, Kyrgyzstan, Lithuania, the Republic of Moldova, the Russian Federation, Tajikistan, Ukraine and Uzbekistan. A total of 19663 TB cases were detected with HIV-positive status, representing 15% of those tested, compared with 14.3% recorded in 2019.

Among countries/areas reporting representative HIV testing (above 50% HIV testing coverage), four documented a significant overlap in the HIV and TB epidemics by exceeding 10% HIV prevalence among new and relapse TB cases (Table 14): the Russian Federation (24.2%), Ukraine (21.8%), the Republic of Moldova (12.9%) and Armenia (10.6%). Six countries with representative routine surveillance had 5–10% HIV prevalence among TB patients: Portugal (9.9%), Spain (9.7%), Estonia (9.7%), Israel (9.5%), Belarus (8.9%) and Kazakhstan (6.5%).

Twenty-six countries/areas in the Region provided information on ART enrolment among TB cases with HIV-positive status in 2020. Of 19 312 HIV-positive TB cases, 14 351 (74.3%) had received ART. This is slightly lower than in 2019 (75.8%) and still below the WHO target of universal ART coverage. Eight HPCs achieved ART coverage of over 90%: Azerbaijan, Belarus, Bulgaria, Estonia, Georgia, Kazakhstan, Tajikistan and Ukraine.

3.1.9 Country of origin

TB patients of foreign origin represent 9.4% of all TB cases notified Region-wide: 33% in EU/EEA countries and 4.3%

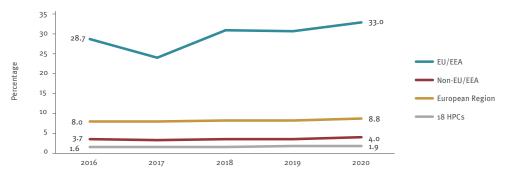
in non-EU/EEA countries and areas (Table 9, Fig. 3.1.6). TB patients of foreign origin represent a large majority in several countries: Liechtenstein (100%), Malta (97.9%), Iceland (91.7%), Sweden (86.6%), Cyprus (86.1%), Luxembourg (85.3%), Israel (84.8%), Norway (81.3%), the Netherlands (72.4%), Denmark (72.1%), Switzerland (71.3%) and the United Kingdom (70.1%).

3.1.10 TB in prisons

Twenty-three countries/areas in the Region provided information on TB case detection and treatment in prisons during 2020 (Table 15). Overall, 6887 (5.6%) of new and relapse TB cases in the Region were reported from prisons, with 6723 (97.6%) of these in the HPCs. The proportion of TB cases in prisons represented about 0.9% of the country total in EU/EEA countries; in non-EU/EEA countries and areas, the proportion was 6.2%. The notification rate in prisons in the non-EU/EEA countries and areas was 735 new TB cases per 100 000 population, which is over five times higher than in the EU/EEA subregion (137 per 100 000). The overall notification rate for new TB cases in prisons in the WHO European Region was 628 per 100 000 population. The TB notification rate exceeded 1000 cases per 100 000 detainees in three countries: 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 Ukraine (RR 27.6) followed by the Russian Federation (RR 27.1), the Republic of Moldova (RR 25.2) and Azerbaijan (RR 19.0).

3.1.11 Treatment outcome

The treatment success rate among 162 955 new and relapse TB cases having started treatment with first-line drugs in 2019 was 76.5% (Table 16). In the HPCs, the average rate of cases cured or for whom treatment was completed was 78.2%. The treatment success rate was lower in the EU/EEA countries than in non-EU/EEA countries and areas (71.8% versus 77.5%), both showing results comparable with the previous year. Only 13 countries achieved an 85% treatment success rate in this treatment cohort. Another 11 were close to the target, with success rates of 80–85%. Eight countries had treatment success rates below 60%, with a very high proportion of cases not being evaluated.





A total of 13 265 (8.1%) cases were reported to have died in the same cohort, 4.7% to have been lost to follow-up and 3.7% 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 – 0.8% in the EU/EEA versus 4.3% in non-EU/EEA countries and areas (Table 16). Countries reporting fatal outcomes in excess of 10% were Slovenia (22.4%), Andorra (20%), Estonia (16.7%), Hungary (13.2%), Croatia (11.9%), Czechia (11.2%) and the Russian Federation (10.9%).

The treatment success rate among the 5007 child TB cases (aged 0–14 years) in the 2019 cohort was 88.8% (Table 18). The treatment success rate in EU/EEA countries was remarkably lower than in the non-EU/EEA countries and areas (77% versus 92.8%). Among child TB cases in the Region, 1% died, another 1% failed and 1% were lost to follow-up.

Of the 17 490 TB/HIV coinfected patients who started treatment throughout the Region in 2019, only 9587 (54.8%) had a successful treatment outcome (Table 20).

In the 2018 cohort, treatment outcome was notified for 47 707 laboratory-confirmed RR/MDR-TB cases reported by 42 countries (Table 22). The treatment success rate for the whole Region was 55.9%, which is slightly lower than the 58.6% rate reported for the 2017 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 (56% versus 52.4%). In the Region as a whole, 14.5% of RR/MDR-TB cases died, 12.8% failed and 11.3% were lost to follow-up.

3.1.12 Conclusions for the WHO European Region

Analysis of 2020 routine surveillance data indicated that the remarkable progress in containing the burden of TB in the Region observed between 2015 and 2019 was halted in 2020 by the COVID-19 pandemic. As of December 2020, the WHO European Region has been the global epicentre of the COVID-19 pandemic, accounting for 31% of COVID-19 cases and deaths (3). TB services were disrupted because diagnostic and clinical services were repurposed and health workers reallocated to COVID-19. In addition, there were changes in patients' health-care-seeking behaviour influenced by the restrictions on movement imposed by authorities, concerns about the risks of going to health facilities during the pandemic and stigma associated with similarities in symptoms between TB and COVID-19. As a result, the pace of decline in TB mortality and TB incidence slowed, far fewer people were diagnosed and treated for TB and remarkably fewer people were tested for drug resistance and enrolled into RR/MDR-TB treatment.

Despite these challenges, the progress made over the first four years of the action plan were sufficient for the Region to achieve the regional action plan target of reducing the TB incidence rate in 2020 by 25% and achieving the End TB Strategy milestone of reduction of TB incidence by 20% against the 2015 baseline (4). For the first time in over two decades, the downward trend in the number of TB deaths was halted in 2020 as a consequence of delay in, or lack of, TB diagnosis due to disruption to TB services, leading to increased severity of disease and an associated increase in deaths. This compromised the achievement of the End TB Strategy milestone on reduction of number of TB deaths. The actual reduction in absolute number of TB deaths in 2020 compared to 2015 was only 26% against the targeted 35%. Modelling projections suggest that the impact of disruptions caused by the pandemic on the number of people developing TB and dying from the disease could be much worse in 2021 and 2022 (*5,6*). Detailed analysis of the status of the action plan indicators against the target is provided in Chapter 4.

Other impacts associated with the COVID-19 pandemic in the Region include a 17.7% reduction in the number of RR/MDR-TB patients detected and enrolled into treatment. On a more positive note, treatment outcome of new and relapse TB patients remained comparable in the 2019 cohort compared to the 2018 cohort and there was no evidence of a significant reduction in treatment success. This was enhanced by adaptation of service delivery modes to mitigate the pandemic impact, including reducing frequency of outpatient visits for treatment monitoring or collection of anti-TB drugs, allowing TB patients to take a one-month (or longer) supply of anti-TB drugs home, expanded use of remote advice and support, and home delivery of anti-TB drugs (7).

There is a need to introduce and/or scale up innovative and adaptive models of care to address the challenges posed by the COVID-19 pandemic and ensure quality and timely TB services are provided despite the ongoing pandemic. Actions and innovative solutions need to be implemented to reverse the impact of the COVID-19 pandemic to restore provision of diagnostic, treatment and preventive services to pre-pandemic levels. National health programmes and health authorities need to work with community representatives and partners to maintain TB diagnostic, treatment and preventive services and build synergies between COVID-19 and TB services. Revamping political commitment, allocating adequate national and international resources and implementing innovative approaches are crucial to avoiding losing the gains of the past decade.

3.2 EU/EEA countries

3.2.1 Data completeness

TB notification data for 2020 were reported by 29 of 30 countries (there were no data from Latvia for 2020). The reporting of non-mandatory variables in 2020 was complete or near complete (above 95%) for age, gender, TB site and variables defining the origin of a case (Annex 3). Overall, previous treatment history was available for 83.2% of cases reported in 2020, but completeness ranged from below 70% in six countries (Croatia 4.4%, France 54.2%, Iceland 0%, Ireland 52.1%, Liechtenstein 50% and Spain 64.9%) to 100% in 12 countries (Annex 3).

Among TB cases reported in 2020, 81% had culture results reported (Annex 3), which was a similar proportion to that reported in 2019 (81.1%). Eight countries had fewer than 75% of cases with culture results reported: France (52.7%), Iceland (50%), Ireland (74.6%), Italy (66%), Liechtenstein (50%), Malta (30.7%), Portugal (65.3%) and Spain (72.5%). Reporting completeness for microscopy in 2020 (82.8%) was comparable to 2019 data (83%) and ranged from 36.3% in Ireland to 100% in Lithuania and Liechtenstein. For 2020, drug-susceptibility reporting completeness was 71.4% for first-line drugs (isoniazid and rifampicin). Completeness of DST reporting for at least one second-line drug (including bedaquiline, moxifloxacin and levofloxacin) was 100% for the 22 countries that reported at least one RR/MDR-TB case (Annex 3).

The number of countries reporting HIV status remained constant, with only 19 (of 29) reporting HIV status in both 2020 and 2019. This is a decline compared to 2018, when there were 21 (of 30) reporting and 2017, when there were 23 (of 31). HIV status was available for only 39.3% of all TB cases reported in 2020, but 12 countries reported HIV status for more than 75% of their TB cases (Annex 3).

3.2.2 Time and place

In 2020, 33 148 cases of TB were reported in 29 EU/EEA countries (Table 3). The number of cases reported in Romania (7698) accounted for 23.2% of all TB cases reported in 2020.

The EU/EEA notification rate in 2020 was 7.3 per 100 000 population (Table 3), continuing the downward trend observed since the launch of European enhanced TB surveillance in 1996 (Fig. 3.2.1). During the period 2016–2020, the average annual decline in the notification rate was 11.6% (Table 3).

As reported for previous years, country-specific notification rates differed considerably in 2020, ranging from 2.9 per 100 000 population in Slovakia to 39.8 per 100 000 in Romania (Table 3). Rates were below 10 per 100 000 in 24 countries, but above 25 per 100 000 in three: Lithuania 26.0 per 100 000, Malta 27.2 and Romania 39.8.

Compared with 2016, notification rates have fallen in 26 countries (Table 3). The annual rate of decrease exceeded 10% in 16 countries, with the downward trend being particularly pronounced in Croatia, Hungary, Lithuania and Sweden, where the average annual rate of decrease exceeded 15%.

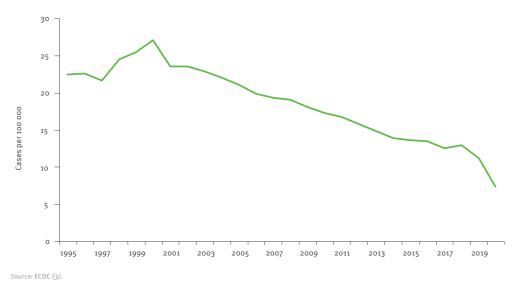
3.2.3 Previous treatment, laboratory confirmation and TB site

The distribution of cases by previous treatment history was similar in 2020 to that reported in previous years: 24 139 (72.8%) of 33 148 TB cases reported in 2020 were newly diagnosed, 3451 (10.4%) had previously been treated for TB and 5558 (16.8%) had unknown previous treatment status (Table 4). The proportion of previously treated cases was over 10% in eight countries: Bulgaria, Estonia, Hungary, Lithuania, Norway, Poland, Romania and Slovakia.

Of all 33 148 TB cases reported in 2020, 23 640 (71.3%) were diagnosed with pulmonary TB, 7117 (21.5%) with extrapulmonary TB, 2116 (6.4%) with a combination and 275 (0.8%) had no TB site reported (Table 5). The proportion of extrapulmonary TB was above 30% in eight countries: Belgium (30.8%), Finland (32.2%), France (30.9%), Liechtenstein (100%), the Netherlands (45.6%), Norway (38.1%), Portugal (30.2%) and Sweden (36.9%).

Of 24 618 new and relapse pulmonary TB cases reported in 2020, 20 191 (82%) were confirmed by culture and/or smear and nucleic acid amplification test (Table 6). Over 30% of reported new and relapse pulmonary TB cases were diagnosed clinically in five countries: Bulgaria (38.1%), Hungary (47%), Iceland (44.4%), Malta (47.5%) and Slovakia (43.1%).

According to the EU case definition, 22 301 (67.3%) of 33 148 TB cases reported in 2020 are classified as confirmed, 3691 (11.1%) as probable and 7156 (21.6%) as





possible cases (Table 7). The proportion of laboratoryconfirmed TB cases remained stable in 2020 compared to 2019 (67.1%) and 2018 (68.2%). Country-specific proportions of laboratory-confirmed cases ranged from 30.7% in Malta to 94.8% in Slovenia, but over 75% of reported cases were laboratory-confirmed in 15 countries. Conversely, six countries reported over 40% of their TB cases as possible cases (that is, only clinically diagnosed): Bulgaria (43.1%), France (40.8%), Hungary (48.3%), Iceland (50%), Malta (51.4%) and Slovakia (41.1%). The high proportion of clinically diagnosed cases may reflect underreporting of laboratory results to national surveillance systems in these countries, or could indicate that TB may be overdiagnosed in these countries.

3.2.4 Age and sex

Of 31 551 new and relapse TB cases reported in 2020, 20 448 (64.8%) were aged between 25 and 64 years and 6152 cases (19.5%) were in adults aged over 64 years (Table 8). Notification rates were similar among the 15–24 and 45–64 years age groups (7.8 and 7.9 per 100 000 population, respectively), slightly higher among the 25–44 years age group (9.0 per 100 000 population) and slightly lower among those aged over 64 years (6.6 per 100 000 population).

There was variation in the age distribution of cases between countries. In most, the cases were predominantly aged between 25 and 64 years, but cases were younger in Malta (42.9% were aged between 15 and 24 years) and older in Croatia, Estonia, Finland and Slovenia (where over 30% of cases were aged over 64 years (Table 8)).

Children under 15 years accounted for 1218 (3.8%) of 31 551 new and relapse TB cases reported in 2020 (Table 8). Children aged between 5 and 14 years had the lowest notification rate of all age groups, at 1.5 per 100 000 population. Malta reported the highest notification rates among children under 15 years: 16.7 cases per 100 000 children aged 0–4, and 6.6 cases per 100 000 aged between 5 and 14 (Table 8).

In 2020, the male-to-female ratio in new and relapse TB cases was 2 : 1. (Table 8), which was higher than the ratio reported in (male-to-female ratio was 1.8 : 1). In 26 of 29 EU/EEA Member States, more new and relapse TB cases were reported among males than females. Norway reported slightly more female than male cases (male-to-female ratio was 0.8 : 1), while Liechtenstein and Iceland reported an equal ratio. For children under 15 years, the male-to-female ratio among new and relapse cases was almost equal.

3.2.5 Origin of cases

Of the 33 148 TB cases notified in 2020, 20 991 (63.3%) were born in, or were citizens of, the reporting country (referred to as "native"), 10 942 (33%) were of foreign origin and 1215 (3.7%) were of unknown origin (Table 9). Of the 10 942 cases of foreign origin in 2020, 71.6% (7839) were reported by only four countries (France, Germany, Italy and Spain). Country-specific proportions of foreign-origin TB cases ranged from below 1% in three countries (Bulgaria, Croatia and Romania) to above 85% in six (Cyprus,

Iceland, Liechtenstein, Luxembourg, Malta and Sweden). The overall proportion of native TB cases increased slightly from 62.8% in 2019 to 63.3% in 2020 (Table 9).

3.2.6 Drug resistance

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

Of 19 190 bacteriologically confirmed TB cases notified in 2020, 14 997 (78.2%) had DST results reported for at least rifampicin (Table 10). The proportion of cases with DST results reported for at least rifampicin varied by country, ranging from 3.4% in France to 100% in nine countries (Cyprus, Denmark, Estonia, Iceland, Lithuania, Malta, Norway, Slovenia and Sweden). Among the pulmonary cases with rifampicin DST results, 649 (4.3%) were RR-TB and 566 (3.8%) were reported as MDR-TB.

The proportion of MDR-TB cases varied by country (Table 10). Eight countries reported no MDR-TB cases in 2020, while a further 11 reported that the proportion of MDR-TB cases (among cases with DST results) was below 2%. France reported 100% of cases with DST results as RR/MDR-TB, but DST results are only reported for RR/MDR-TB cases in France. The highest proportion of MDR-TB cases (among cases with DST results) was reported by Estonia and Lithuania, with 19.4% and 16.7% reported as MDR-TB, respectively.

The proportion of RR/MDR-TB among all bacteriologically confirmed pulmonary TB cases with DST results for rifampicin was 4.2% (595 of 14 134 (Table 11)). When the data were analysed by previous treatment history, the proportion of RR/MDR-TB was higher among previously treated cases (12.8%, 260 of 2035) than new cases (2.8%, 335 of 12 099).

In 2020, 64.3% of RR/MDR-TB cases (417 of 649) had DST results for any fluoroquinolone (Table 12). Among these, 115 (27.6%) met the definition for pre-XDR. Of all pre-XDR cases, the majority were reported by Lithuania (32.7%, 34 cases) and Romania (28.1%, 27 cases). The majority (71.3%, 82 of 115) of pre-XDR cases had DST results reported for at least one other Group A drug (Table 12). Among these cases, 37 (45.1%) met the new XDR case definition. All XDR-TB cases were reported by only eight EU/EEA countries: Belgium (2.7%, one case), Czechia (10.8%, four), Estonia (16.2%, six), Germany (16.2%, six), Lithuania (32.4%, 12), Poland (10.8%, four), Romania (5.4%, two) and Sweden (5.4%, two).

3.2.7 TB/HIV coinfection

HIV status was reported for 12 327 (73.4%) of 16 804 TB cases reported from the 19 countries that reported HIV status of TB cases (Table IX). Of the cases with known HIV status, 515 (4.2%) were reported as HIV-positive. Among the 15 countries with at least 50% reporting completeness for HIV status, the proportion of coinfected cases was highest in Estonia (9.7%), Hungary (11.8%) and Portugal (9.9%). The trend in the proportion of HIV-coinfected TB cases decreased from 4.5% in 2016 to 4.2% in 2020, but the proportion of coinfected cases in 2020 was higher than in 2019 (3.9% (Table IX)).

3.2.8 TB in prisons

For 2020, 13 EU/EEA countries reported 266 new and relapse TB cases in prisons, resulting in a notification rate of 137 per 100 000 prison population and a RR of 9.3 compared to the general population in the same countries (Table 15). Overall, TB cases in prisons accounted for 0.9% of all new and relapse cases notified in the 13 reporting EU/EEA countries, with the proportion being highest in Luxembourg (3.3%).

3.2.9 Treatment outcome

Of all 28 985 new and relapse TB cases notified in 2019 with a treatment outcome reported in 2020, 20 797 (71.8%) were treated successfully, 2192 (7.6%) died, 230 (0.8%) experienced treatment failure, 1069 (3.7%) were lost to follow-up, 667 (2.3%) were still on treatment in 2020 and 4030 cases (13.9%) were not evaluated (Table 16). Among the 23 countries that reported treatment outcome for the 2019 cohort, eight reported successful treatment for over 80% of cases: Belgium (80.8%), Bulgaria (81.8%), Iceland (100%), Lithuania (87.1%), the Netherlands (86.3%), Norway (84.6%), Romania (83.7%) and Slovakia (93.8%). In contrast, five countries reported death as the outcome for over 10% of cases: Croatia (11.9%), Czechia (11.2%), Estonia (16.7%), Hungary (13.2%), and Slovenia (22.4%) (Table 16).

Treatment success among the 1021 previously treated TB cases notified in 2019 was 51.2% (Table 17), which was lower than the treatment success among new and relapse cases. A higher proportion of previously treated cases were reported to have treatment failure (7%) or to have died (8.8%) compared to new and relapse cases.

Treatment outcome at 12 months was also reported for 639 HIV-positive TB cases who were notified in 2019 (Table 20). Of these, 352 (55.1%) were reported as success-fully treated, 59 (9.2%) died, four (0.6%) experienced treatment failure, 44 (6.9%) were lost to follow-up, 51 (8%) were still on treatment in 2020 and 129 (20.2%) were not evaluated (Table 20).

Of 927 RR/MDR-TB cases notified in 2018 with a treatment outcome reported in 2020, 486 (52.4%) were treated successfully, 134 (14.5%) died, 97 (10.5%) experienced treatment failure, 109 (11.8%) were lost to follow-up, 51 (5.5%) were still on treatment in 2020 and 66 (7.1%) were not evaluated (Table 22). Only five of the 18 countries that had reported RR/MDR-TB cases in 2018 and treatment outcomes in 2020 had treatment success above the target of 75%: Austria (83.3%), Belgium (77.8%), the Netherlands (83.3%), Norway (83.3%) and Sweden (100%). The 24-month treatment success rate for RR/MDR-TB was higher among the 2018 cohort (52.4%) than in previous cohorts: treatment success was below 50% for cases reported between 2014 and 2017 (Table XI).

Among the 211 cases categorized as pre-XDR-TB notified in 2018 with treatment outcome at 24 months reported in 2020, 70 cases (33.2%) were reported as having treatment success, while 42 (19.9%) were reported to have died and 43 (20.4%) had treatment failure (Table 23). Treatment success among the pre-XDR-TB cohort over the previous five years (2014–2018) had been below 35% each year (Table XII).

In 2020, treatment outcome at 36 months for XDR-TB cases notified in 2017 was reported by seven countries, with a total of 26 XDR-TB cases. Fourteen countries reported zero XDR-TB cases in 2017. Among the 26 XDR-TB cases, 10 (38.5%) were treated successfully, four (15.4%) died, one (3.8%) experienced treatment failure, two (7.7%) were lost to follow-up and nine (34.6%) were not evaluated (Table 24).

3.2.10 WHO disease burden estimates

According to WHO, the estimated TB incidence in the EU/EEA overall (excluding Liechtenstein) was 9.5 per 100 000 population in 2020 (Table 1 and Table II). Of the 29 countries with estimates, 22 had an estimated incidence of fewer than 10 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 3800 for the EU/EEA in 2020, the same as estimated for 2019 (3800) and a reduction of approximately 25% on the 5100 estimated for 2011 (Table I).

3.2.11 Conclusions for the European Union/ European Economic Area

In 2020, 29 of 30 EU/EEA countries reported TB notification data and a total of 33 148 TB cases. There was a further decline in the overall TB notification rate to 7.3 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 2020.

The decline in total case numbers and notification rates in 2020 should be interpreted with caution, given the potential impact of measures put in place to mitigate the COVID-19 pandemic on TB clinical services and surveillance across the EU/EEA. A survey was conducted alongside the 2020 TB data submission, asking EU/EEA Member States about the impact of the COVID-19 pandemic specifically on the 2020 TB surveillance data collection. Of the 26 EU/EEA Member States that responded, five countries indicated that there was, or may have been, a change in the representativeness of 2020 surveillance data within their countries due to the impact of lockdowns and other measures on TB clinical services. A reduction in completeness of TB data was reported by four countries in the survey. Three respondents indicated that TB data collection could not be prioritized over COVID-19 clinical work, which particularly impacted collection of treatment outcome variables. The analysis of data completeness (presented in Annex 3) indicated decreased completeness across 11 of the 17 variables in 2020 compared with 2019, most notably for previous treatment history, diagnosis antemortem, DST for first-line drugs, enrolment in treatment and outcome at 12 months.

The diversion of TB resources, whether clinical, laboratory or public health (including surveillance and contact tracing), to COVID-19 activities was the key issue identified in the survey when Member States were asked about the general impact of the pandemic on TB clinical services and surveillance data collection. It was suggested by some Member States that difficulties in patients accessing clinical services, either due to lockdown/movement restrictions or overburdened health services, alongside fear of contracting COVID-19, may have resulted in delayed presentation and/or diagnosis of some TB cases during 2020. Delayed diagnosis may have resulted in more severe illness at time of diagnosis for some cases. In addition, delayed treatment of pulmonary cases, along with decreased contact-tracing resources for TB, may have led to more TB transmission. As such, it is hypothesized that there may be an increase in the number and clinical severity of cases in the coming years.

If the decline in TB incidence during 2020 was real and not just an artefact of the COVID-19 pandemic, it would indicate ongoing progress towards reaching 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). The decline observed in 2020 would indicate progress is being made, but at the current rate of decline, most EU/EEA countries are still not on track to reach the 80% reduction target by 2030 or the elimination target by 2050 (8). Additional resources may be required to accelerate progress towards achieving these goals and to counteract any increase in TB cases resulting from the impact of the COVID-19 pandemic on TB services.

The number of drug-resistant TB cases in the EU/EEA continued to decrease in 2020, 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 only reported for approximately 70% of laboratoryconfirmed TB cases in 2020. This shows a decline from almost 75% of laboratory-confirmed TB cases in 2019, indicating considerable room for improvement in DST testing. The definitions of "drug-resistant TB" changed in 2020, with the introduction of a "pre-XDR-TB" definition and a change to that for "XDR-TB", although "MDR-TB" remained unchanged (9). Pre-XDR-TB is defined as TB that fulfils the definition of RR/MDR-TB (resistance to at least rifampicin) and which is also resistant to any fluoroquinolone. The new definition for XDR-TB includes cases that meet the definition for pre-XDR-TB (resistance to rifampicin and any fluoroquinolone) as well as having resistance to any other Group A drug. Changes to these definitions, along with the updated WHO treatment guidelines for drug-resistant TB (10), emphasize the need for DST against second-line drugs, particularly fluoroquinolones, bedaquiline and linezolid.

Overall, it is reassuring that TB incidence continued to decline across the EU/EEA in 2020 and that a low proportion of drug-resistant cases was reported, but there is still

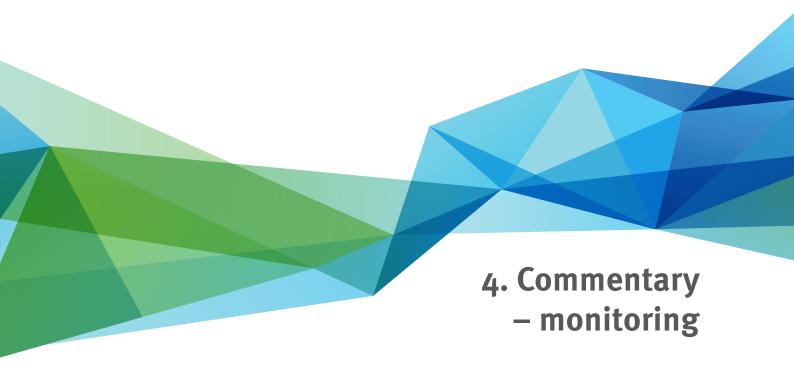
considerable work ahead to achieve the United Nations Sustainable Development Goals target. With the disruption caused by the COVID-19 pandemic during 2020, it is now critical that TB services are prioritized and appropriately resourced to support intensified public health measures against TB. ECDC remains committed to supporting EU/ EEA countries in ending the TB epidemic.

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4.1 WHO European Region

The final year covered by the Tuberculosis action plan for the WHO European Region 2016–2020 was 2020. The plan was developed by the WHO Regional Office for Europe in close consultation with representatives from countries, experts and communities and was endorsed at the 65th meeting of the WHO Regional Committee for Europe through resolution EUR/RC65/17 (1). The monitoring report summarizes the status of the indicators of the action plan according to the targets set by the monitoring and evaluation framework that was established to monitor the performance of the action plan's areas of intervention. A selection of indicators was harmonized with the End TB Strategy's recommended top 10 global indicators. The action plan will be superseded by the new TB action plan for the WHO European Region 2023–2030 that will be submitted to the 72nd session of the WHO Regional Committee for Europe in 2022.

4.1.1 Monitoring of indicators

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

The WHO global TB database collects information only on coverage of TB screening outcomes among the household contacts of bacteriologically confirmed TB cases. In 2020, 19 countries reported on coverage of TB screening among household contacts. Overall, 98% of household contacts were screened for TB. All 10 HPCs that provided data achieved the targeted 80% of screening coverage.

Indicator 1.B.1 Percentage of newly notified TB patients diagnosed using WHO-recommended rapid tests (G)¹⁵

No baseline data were available. The target was first set to 30% and later updated to 90%, based on the global targets for the End TB Strategy. In 2020, 45 countries reported data on the proportion of newly notified patients diagnosed using WRD. As is shown in Fig. 4.1.1, the target at regional level has not been achieved: only 72% of new and relapse cases were diagnosed using WRD. This figure was higher for the 18 HPCs, reaching 81%. Of these, five met the target, 11 did not meet the target and two (Latvia and Turkey) did not provide information. At EU/EEA subregional level, only 34% of cases were diagnosed using rapid tests (Fig. 4.1.1).

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

The action plan aimed to ensure provision of DST for all bacteriologically confirmed TB cases. In 2020, 50 countries/areas reported routine surveillance data on DST.

¹⁵ G (Global) indicates that this indicator belongs to the End TB Strategy's recommended top 10 global indicators.

Coverage of DST among all bacteriologically confirmed TB cases was 92%. In all, 14 of 16 HPCs had DST coverage above 90% (Fig. 4.1.2). Latvia and Turkmenistan did not report complete routine drug-resistance surveillance data.

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

In 2020, 34 832 RR/MDR-TB cases were detected among bacteriologically confirmed pulmonary TB patients notified in the WHO European Region. This is 94% of all estimated cases, indicating comprehensive RR/MDR case detection among notified patients at regional level. However, considering that on average 45 000 RR-TB/MDR-TB patients were enrolled in treatment annually in the WHO European Region between 2015 and 2019 without any sign of a decreasing trend, the substantial drop in the number of RR/MDR-TB patients is one of most worrying impacts of the COVID-19 pandemic on overall TB detection in the Region.

Indicator 1.B.4 TB notification rate per 100 000 population (E) $^{\rm 16}$

The regional action plan aims to reduce the TB incidence rate by 25% by 2020 against the 2015 baseline. Before 2020, the trend in TB notification rates was considered a good proxy of TB incidence in the Region. During the period 2015–2019, notification of new and relapse TB cases in the Region declined by 5.1% per year on average. This trend was in line with the annual decrease in the WHO estimated TB incidence for the Region (5.1%), resulting in a 19% reduction in the TB incidence rate between 2015 and 2019, which was the highest decline observed among all WHO regions and on target to meet the 2020 End TB Strategy milestone.

Due to severe disruption to health services caused by the COVID-19 pandemic, however, TB notifications at regional level dropped by 24.6% in 2020 compared to 2019, meaning that many people with TB were not detected by health systems or reported by surveillance systems. Among HPCs, the highest drop was observed in Armenia and the Republic of Moldova (37% each), followed by Romania (34.7%) (Fig. 4.1.3). In this context, the observed decline in TB notifications is no longer relevant for the assessment of performance against the target for this indicator. The impact of COVID-19 resulted in a slowing of the annual decline of TB burden and modelling studies suggested that negative impacts would become much worse in 2021 and beyond (2).

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

In 2020, 163 602 incident TB cases were notified in 52 countries/areas across the WHO European Region, compared with an estimated 231 000 cases (range: 201 000–264 000). This represents a case-detection rate of 71% (95% CI: 62–81%), which is remarkably lower than the 87%

¹⁶ (E) represents a European-level indicator.

Fig. 4.1.1. Percentage of new and relapse TB patients notified in 2020 who were diagnosed using WRD in 18 HPCs and WHO European Region, 2020

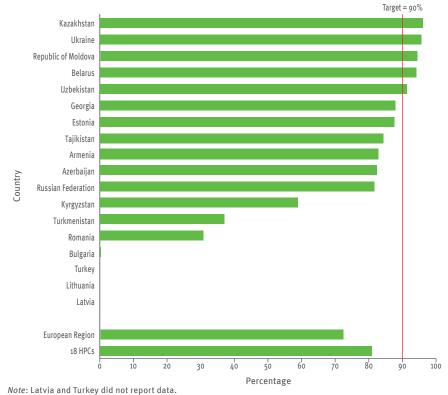
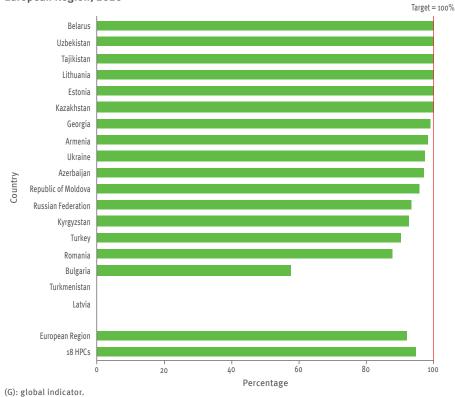


Figure 4.1.2. First-line DST coverage (%) among all bacteriologically confirmed TB cases (G) by 18 HPCs and WHO European Region, 2020



Note: Latvia and Turkmenistan did not report data.

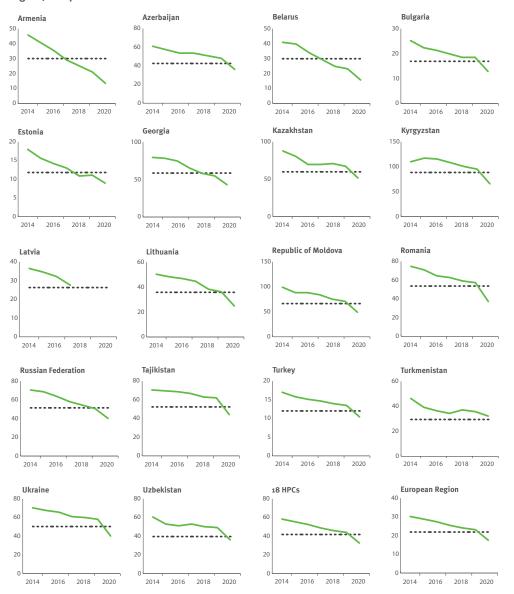


Fig. 4.1.3. Trend in new and relapse TB notification rate per 100 000 population (E) for 18 HPCs and WHO European Region, 2014–2020

Trend for new and relapse TB notification rates

(E): European indicator.

(95% CI: 72–100%) baseline measured in 2014. Before the COVID-19 pandemic, most of the countries had successfully improved case detection and were on track to increase the number of TB cases detected, but in 2020, the case-detection rate was above 75% in only three of the 18 HPCs.

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

The regional action plan aims to reduce RR/MDR prevalence among new TB cases. At regional level, the prevalence of RR/MDR-TB among 64 608 new pulmonary TB cases tested with DST results to rifampicin was 23.1%. This is higher than the 18.8% observed in 2015, suggesting that rifampicin resistance is still increasing in the Region. The Region therefore is not on track to reduce the percentage of rifampicin resistance among new TB patients. In 12 of the 16 HPCs reporting DST data, RR/MDR prevalence among new pulmonary TB cases was higher than, or comparable to, 2015 data. Armenia, Azerbaijan, Romania and Turkey have shown a declining trend in RR/MDR percentage over the past five years. Large year-to-year variation and missing data in several countries indicated that routine drug-resistance surveillance in these countries is challenging and that additional efforts are required to produce quality data (Fig. 4.1.4).

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

In 2020, the percentage of confirmed RR/MDR-TB cases among previously treated TB patients tested at least for rifampicin was 55.2%, which is higher than the 2015 rate



Fig. 4.1.4. Trend in RR/MDR percentage among new pulmonary TB cases (E) for 18 HPCs and WHO European Region, 2014–2020

(E): European indicator.

(46.3%), indicating that the Region is not on track to reduce the RR/MDR-TB burden among previously treated patients.

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

In 2020, 32 countries provided information on the percentage of hospitalization among TB patients enrolled in first- and second-line treatment. Hospitalization rates for first-line TB treatment ranged from 22% (Georgia) to 90% (Bulgaria and Uzbekistan). These data suggest that hospitalization remains high in most countries/areas in the Region and additional efforts are required to change the model of care (Fig. 4.1.5).

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

Achieving universal second-line treatment coverage for all detected RR/MDR-TB patients is a fundamental requirement for reducing TB transmission in the community and TB-related deaths. The number of cases starting RR/MDR-TB treatment in 2020 was computed to be above 100%, as many HPCs reported higher numbers of cases enrolled in treatment than detected. The reasons for such discrepancies include incomplete reporting, backlogs of RR/MDR-TB patients, frequent treatment failures and treatment interruptions leading to re-enrolment of the same patients in the same yearly cohort, and weakness of TB surveillance. At country level, only four HPCs reported a gap of over 5% between the number of patients enrolled and the number diagnosed: Azerbaijan (89.3%), Belarus (94%), Kyrgyzstan

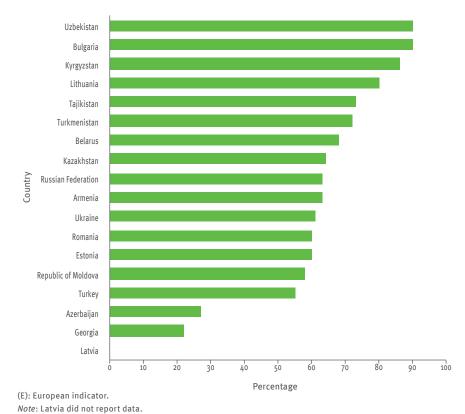


Fig. 4.1.5. Proportion of TB patients hospitalized (%) (E) for 18 HPCs, 2020

(93.7%) and Tajikistan (82%). The other 13 demonstrated

universal treatment coverage.

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

Effective TB treatment is essential to prevent death and cut transmission. The treatment success rate serves as a key indicator for monitoring progress towards the End TB Strategy. According to the action plan, the WHO European Region needs to increase the treatment success rate for new and relapse TB cases to at least 85%.

In 2019, the treatment success rate for new and relapse patients enrolled in treatment at regional level was 76.5%, compared to the baseline rate of 73%. Only six of the 17 HPCs reporting data achieved the targeted level of an 85% treatment success rate. Another six HPCs showed a trend towards improvement in treatment success (Fig. 4.1.6).

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

Treatment success rate is an indicator of high-quality TB care. Despite the treatment success rate having increased from 48.7 to 55.9% over the past five years, it remains far below the 75% target set in the action plan. Of the 18 HPCs, only Kazakhstan and Estonia achieved the benchmark of having a treatment success rate of at least 75% for RR/MDR-TB patients (Fig. 4.1.7.). Another 10 HPCs increased their RR/MDR-TB treatment success rate significantly but did not achieve the 2020 target (75% treatment success rate for RR/MDR-TB cases) (Fig. 4.1.7).

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

The TB action plan for the WHO European Region aimed to reduce the number of TB deaths in 2020 by 35% compared to 2015. As shown in Fig. 4.1.8, with the exception of Azerbaijan and Turkmenistan, the HPCs showed a rapid decline in TB mortality between 2015 and 2019. However, for the first time in recent decades, Georgia, Tajikistan and Ukraine reported an increase in TB mortality between 2019 and 2020, which was a consequence of the large drop in the number of people diagnosed with TB due to the COVID-19 pandemic. The sharp decline in TB mortality observed in the rest of the countries before the pandemic in 2020 either slowed or plateaued.

Despite the challenges in 2020, overall, the regional target has been achieved. In eight HPCs (Armenia, Belarus, Estonia, Kazakhstan, Kyrgyzstan, the Republic of Moldova, the Russian Federation and Uzbekistan), the action plan target set for 2020 of reducing the TB mortality rate by 35% has been achieved (Fig. 4.1.8). In another five countries, mortality was significantly reduced, but the target was not met.

Indicator 1.D.1 Percentage of detected cases among estimated incident TB/HIV coinfected cases

Consistent improvement has been observed over the past five years in detecting TB/HIV coinfected people, reaching over 84% at regional level. In 2020, however, only 67.8% of the estimated number of TB/HIV coinfected people were

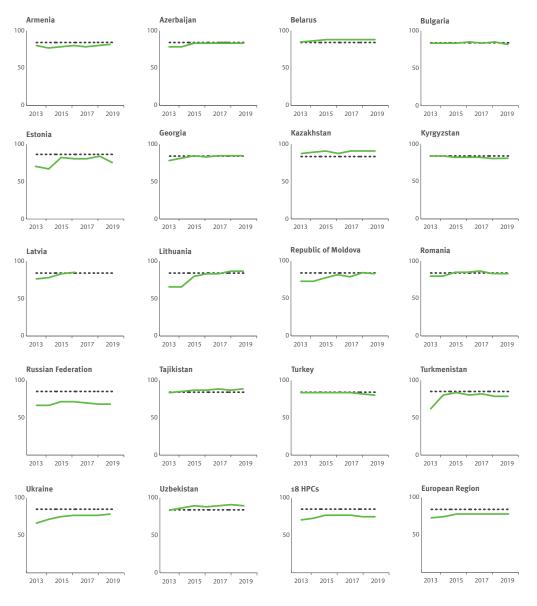


Fig. 4.1.6. Trend in treatment success rate for new and relapse TB cases enrolled into treatment 2013–2019 (G) in each of the HPCs and total for 18 HPCs and WHO European Region (percentage), 2013–2019

Treatment success rate by year

...... Regional target of 85% treatment success rate (G) Global indicator.

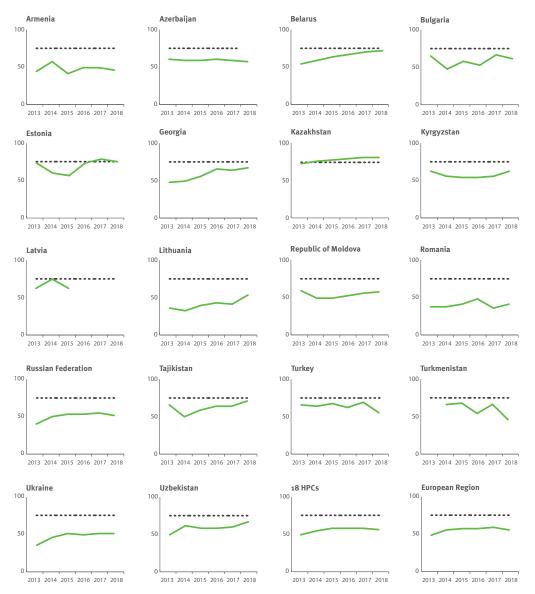
detected by health systems in the Region, comparable to the 64% achieved in 2015. None of the 18 HPCs achieved a detection rate of over 90%.

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

The aim of the action plan was for countries to achieve HIV testing coverage of close to 100%. In 2020, HIV testing coverage at regional level was 92.6%, which is a notable improvement on the 67.6% testing coverage at baseline. Twelve HPCs reported HIV testing coverage of over 90% (Fig. 4.1.9).

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

In 2020, fifteen per cent of new TB patients with known HIV status were HIV-positive, compared to the 8.9% baseline in 2015. This rapid change is partially due to improvement of the surveillance system in the Russian Federation. An increase in TB/HIV coinfection was recorded in six of the 16 HPCs reporting TB/HIV status: Armenia, Azerbaijan, Belarus, Kazakhstan, the Republic of Moldova and the Russian Federation. Although Estonia, Georgia, Lithuania, Romania and Uzbekistan reported a lower percentage of TB/HIV cases in 2020 than in 2015, there is no clear trend towards reversion. The rapid increase in six of the HPCs is an indication that HIV transmission is continuing apace Fig. 4.1.7. Trend in treatment success rate in the RR/MDR-TB cohort enrolled in treatment (G) (E) between 2013 and 2018 for each of the 18 HPCs and as a total for the 18 HPCs and WHO European Region (percentage), 2013–2018



Treatment success rate by year

..... Regional target of 85% treatment success rate

(E) European indicator. (G) Global indicator.

in most eastern European and central Asian countries and that efforts towards the early identification of PLHIV and the administration of preventive TB treatment are inadequate.

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

The TB action plan aims to achieve full coverage with ART for all patients detected with TB/HIV coinfection, as per WHO recommendations. In 2020, 26 countries/areas in the Region provided information on ART enrolment among TB cases with positive HIV status, with ART coverage at 74.3% among those reporting. This is a remarkable improvement on the baseline of 53.8%, but far below the universal coverage targeted by the action plan. Eight of the HPCs attained coverage above 90% (Azerbaijan, Belarus, Bulgaria, Estonia, Georgia, Kazakhstan, Tajikistan and Ukraine).

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

In 2020, five countries in the Region provided information on TB preventive treatment among PLHIV to the reporting system of the Joint United Nations Programme on HIV and AIDS. Overall, of 18 273 PLHIV newly enrolled in HIV care, 80% received treatment for latent TB infection (LTBI), which is a much higher figure than the 30% target (Fig. 4.1.10).

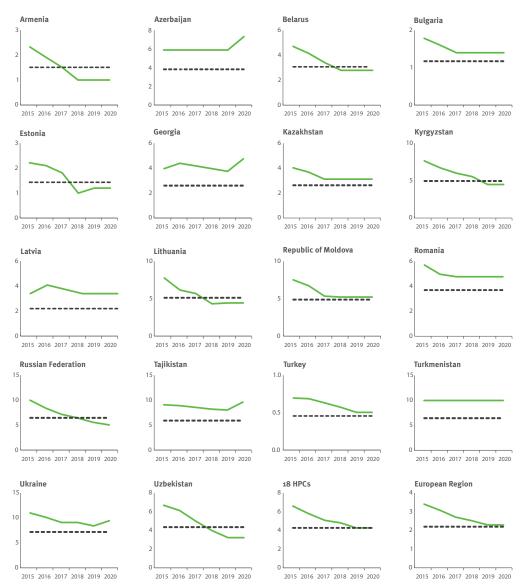


Fig. 4.1.8. Trend in TB mortality rate (G) (E) for the 18 HPCs and WHO European Region, per 100 000 population, 2015–2020

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

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

This indicator is calculated as the number of contacts of people with bacteriologically confirmed TB evaluated for TB, divided by the number eligible. Only 19 countries in the Region reported data on contact tracing to WHO, and 98% of all contacts with TB cases were investigated for TB/LTBI in 2020. The target of 90% was achieved by eight of nine HPCs reporting data on contact-tracing coverage (Fig. 4.1.11).

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

WHO recommends that children under 5 years who are household or close contacts of people with TB and who, after an appropriate clinical evaluation, are found not to have active TB should start TB preventive treatment in accordance with WHO guidelines. The regional action plan aims to achieve at least 90% coverage with TB preventive treatment of childhood TB contacts under 5 years. This indicator is calculated as the number of children aged

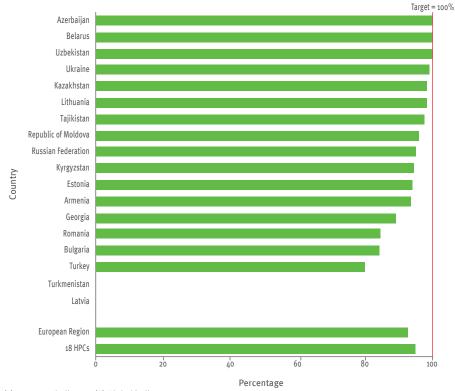
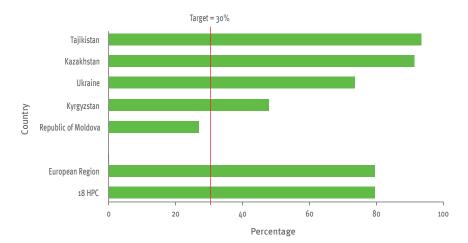


Fig. 4.1.9. HIV testing coverage among new and relapse TB patients (G) (E) for the 18 HPCs and WHO European Region, 2020

(E) European indicator. (G) Global indicator. *Note*: Latvia and Turkmenistan did not report data.





(E) European indicator. (G) Global indicator.

Note: Armenia, Azerbaijan, Belarus, Bulgaria, Estonia, Georgia, Latvia, Lithuania, Romania, the Russian Federation, Turkey, Turkmenistan and Uzbekistan did not report data.

under 5 who are household contacts of bacteriologically confirmed pulmonary TB cases and have started on TB preventive treatment, divided by the number of children under 5 who are household contacts of bacteriologically confirmed pulmonary TB patients. In 2020, 11 countries provided information to the global TB database on TB preventive treatment among children under 5 years. At regional level, TB preventive treatment coverage of childhood TB contacts aged under 5 years was 29.6%. Ukraine was the only country among the six HPCs reporting data on LTBI treatment that achieved the 90% target (Fig. 4.1.12).

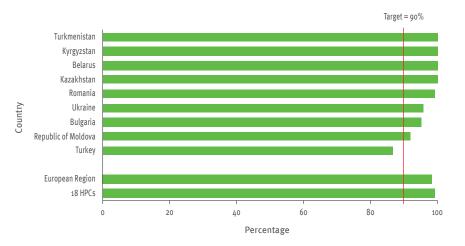
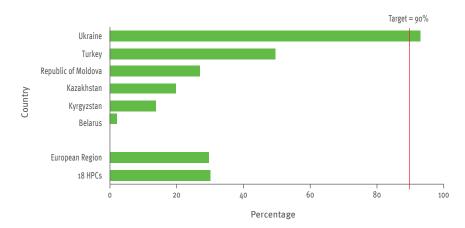


Fig. 4.1.11. Contact investigation coverage (G) (E) for the 18 HPCs and WHO European Region, 2020

(E) European indicator. (G) Global indicator.

Note: Armenia, Azerbaijan, Estonia, Georgia, Latvia, Lithuania, the Russian Federation, Tajikistan and Uzbekistan did not report data.

Fig. 4.1.12. LTBI treatment coverage in childhood TB contacts aged under 5 years (G) (E) for the 18 HPCs and WHO European Region, 2020



(E) European indicator. (G) Global indicator.

Note: Armenia, Azerbaijan, Bulgaria, Estonia, Georgia, Latvia, Lithuania, Romania, the Russian Federation, Tajikistan, Turkmenistan and Uzbekistan did not report data.

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

In 2020, 23 countries in the Region provided data on treatment outcome of prison TB cases enrolled in treatment in 2019. Overall, the treatment success rate of new and relapse TB cases at regional level was 60.4%, which is much lower than the 76.5% treatment success rate in the general population and the 63.2% baseline. The regional indicator is largely influenced by results for the Russian Federation, which accounts for around 79% of prison TB cases with available treatment outcomes. Six of the 15 HPCs achieved the target treatment success rate of 85%.

4.1.2 Conclusions and monitoring recommendations

In 2020, 20 of 26 indicators in the TB action plan for the WHO European Region were effectively monitored and

evaluated using routine surveillance data. Achievement of the action plan targets has been affected by the COVID-19 pandemic. In the last year of the action plan, the decline in mortality and incidence slowed, far fewer people were diagnosed and treated for TB, and remarkably few people were tested for drug resistance and enrolled into RR/MDR-TB treatment. Despite these challenges, nine of 20 targets set by the regional action plan were achieved at regional level.

The Region achieved the 2020 regional action plan target to reduce the TB incidence rate in 2020 by 25% and was very close to achieving the target of reducing TB deaths by 35% against the 2015 baseline. Good progress was also observed in increasing HIV testing and ART coverage.

Although 11 targets set by the regional action plan were not achieved, improvement has been noted against the

baseline values. Treatment success rates for new and relapse TB cases and RR/MDR-TB cases were not achieved, but when data collected between 2016 and 2020 are compared, a slow but sustainable increase can be seen among both incident TB and RR/MDR-TB cohorts. A substantial increase in testing coverage using WRD has also been documented.

The Region was not successful in reaching the targets for six indicators, including TB treatment coverage, percentage of RR/MDR-TB among new and previously TB cases, the prevalence of HIV among new and relapse TB cases, TB preventive treatment coverage among children under 5 years and the treatment success rate among TB patients in prison. Despite the efforts made, the burden related to RR-TB and TB/HIV over the past five years continued to increase, indicating the need to introduce more innovative and effective approaches to address these issues.

Completeness and quality of data related to screening, contact tracing and preventive TB treatment needs to be improved. Prevention efforts, including contact tracing, TB preventive treatment coverage and ART coverage among PLHIV, need to be intensified. However, priority should be given to actions to restore access to and provision of TB services to ensure the level of TB detection and treatment returns to that of 2019.

4.2 European Union and European Economic Area countries

A summary of findings by EU/EEA Member State and indicator is provided below and in Table 25, while indicator definitions and targets can be found in Annex 6.

4.2.1 Integrated patient-centred care and prevention

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

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

Screening for active TB and LTBI should be promoted to contribute to the detection of active and latent cases of TB, especially in at-risk populations. The less generalized the epidemic becomes, the more emphasis needs to be placed on this activity. This indicator is a direct measure of the level of screening in the community. Strategies for screening should be developed and/or revised taking into account WHO recommendations (*5,6*) and ECDC guidance (*7,8*). Of the six countries reporting these data (Bulgaria, Norway, Portugal, Romania, Slovakia and Slovenia), four reported screening coverage of over 80% for the population at risk (Table 25).

1.B Early diagnosis of all forms of TB and universal access to DST, including the use of rapid tests

Indicator 1.B.1 Percentage of TB patients diagnosed using WRD (G)

Twenty-nine EU/EEA Member States reported on the proportion of patients notified with new and relapse TB in 2020 who were diagnosed using WRD (Table XIV). Overall, 33.7% of cases reported in the EU/EEA are diagnosed using these tests. The target for 2020 was 30%, which was met by 18 Member States (Fig. 4.2.1).

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

In 2020, 19 190 incident TB cases were bacteriologically confirmed in 29 EU/EEA Member States. DST results for rifampicin and isoniazid were provided for 14 997 (78.2%) of them (Table 10). The target (100%) was achieved by nine countries (Cyprus, Denmark, Estonia, Iceland, Lithuania, Malta, Norway, Slovenia and Sweden) and an additional seven achieved above 95% (Finland, Slovakia, Austria, Greece, Belgium, Luxembourg and Ireland) (Fig. 4.2.2).

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

In 2016, WHO started replacing MDR-TB estimates with RR-TB estimates, since the latter provide a good proxy of the former and the recommended management is identical for both. The RR/MDR-TB case-detection rate is calculated by dividing the number of notified cases with RR/MDR-TB by the estimated number of such cases. In 2020, seven EU/EEA countries achieved an RR/MDR-TB detection rate of 85% or more (Table 25).

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

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

In 2020, country-specific notification rates in EU/EEA Member States differed considerably, ranging from 2.7 per 100 000 in Norway to 37.2 in Romania (Table III). Rates were below the regional target (24.6 per 100 000) in 26 of 29 reporting countries. Only Lithuania, Malta and Romania reported rates above the regional target, but both Lithuania and Romania have had an average annual decrease of over -5.5% since 2015 (-9% and -12.9%, respectively (Table III)), so they are on track to meet the 2020 reduction target (Fig. 4.2.3, Table 25).

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

In 2020, 31 551 new and relapse TB cases (Table III) were notified in 29 countries compared to an estimated 42 600 TB cases (Table II), representing a case-detection rate of 74.1%. Twenty-two EU/EEA Member States reported a case-detection rate of 75% or above (Table 25), but only 12 achieved the target of an increase in case-detection rate against 2016.

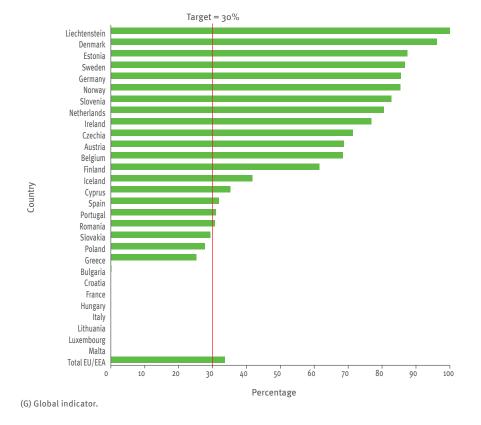


Fig. 4.2.1. Percentage of TB patients diagnosed using WRD (G), EU/EEA, 2020

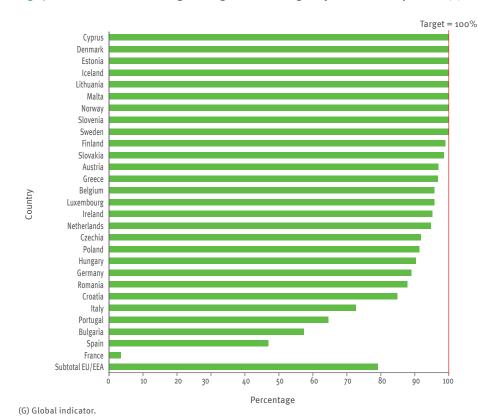


Fig. 4.2.2. First-line DST coverage among all bacteriologically confirmed TB patients (G), EU/EEA, 2020

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

In 2020, 29 EU/EEA countries reported DST results for first-line drugs. The prevalence of RR/MDR-TB among 12 099 new pulmonary TB cases with first-line DST results was 2.8% (Table 11), which was higher than in 2018 (2.6%) and the same as 2016 (2.8% (Table V)). The target of a decreasing percentage was met by 17 EU/EEA countries (Fig. 4.2.4, Table V).

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

In 2020, the prevalence of RR/MDR-TB among 2035 previously treated pulmonary TB cases tested for first-line DST was 12.8% (Table 11), which is lower than in 2018 and 2016 (15% and 14.5%, respectively (Table VI)). The target of a decreasing percentage was met by 17 EU/EEA countries (Table VI).

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

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

Thirteen EU/EEA Member States reported on hospitalization of new TB patients in 2020 (Fig. 4.2.5). When 2020 data were compared with 2016 data, a decrease in the percentage of hospitalizations was observed for six of the 13 countries.

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

Twenty-eight Member States reported on treatment enrolment of RR/MDR-TB patients in 2020 (Table 13). The target of 100% treatment enrolment of RR/MDR-TB patients was met by 19 countries. Four countries did not diagnose any RR/MDR-TB cases in 2020. Overall, 97.6% of RR/MDR-TB cases reported in the EU/EEA started treatment with secondline anti-TB drugs, in accordance with WHO guidelines (Fig. 4.2.6).

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

Of the 28 985 new and relapse TB cases notified in 2019 with a treatment outcome reported in 2020, 20 797 (71.8%) were treated successfully (Table 16). France, Greece, Italy, Latvia (did not report case-based data for 2020), Liechtenstein, Malta and Poland did not report treatment outcome data. Only four countries (Iceland, Lithuania, the Netherlands and Slovakia) met the treatment success target of 85% (Fig. 4.2.7).

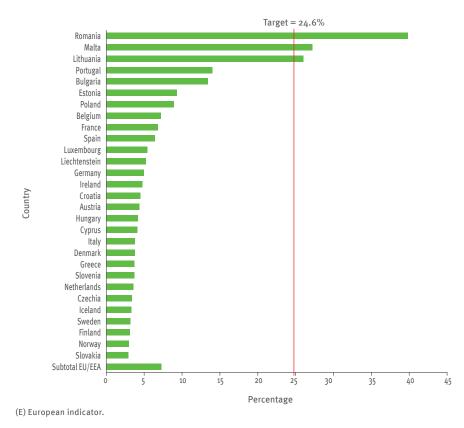


Fig. 4.2.3. TB notification rate per 100 000 population (E), EU/EEA, 2020

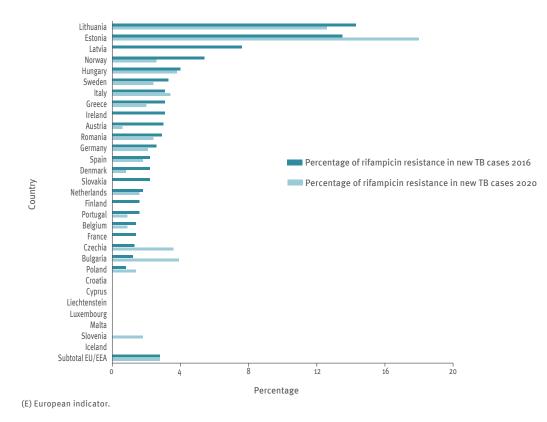


Fig. 4.2.4. Percentage of RR/MDR-TB among new TB patients (E), 2016 and 2020, EU/EEA, 2020

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

Of the 927 RR/MDR-TB cases notified in 2018 with a treatment outcome reported in 2020, 486 (52.4%) were treated successfully (Table 22). Of 18 Member States reporting treatment success for RR/MDR-TB cases diagnosed in 2018, only five (Austria, Belgium, the Netherlands, Norway and Sweden) met the treatment success target of 75%. Treatment success ranged from 0% in two countries (Croatia and Denmark) to 100% in Sweden (Fig. 4.2.8).

Indicator 1.C.5 TB mortality rate per 100 000 population (ICD A15-19) (G) (E)

WHO estimated 3750 TB deaths among HIV-negative people in the EU/EEA for 2020 (Table 1). The estimated mortality for the EU/EEA was 0.8 deaths per 100 000 population, ranging from 0.2 in the Netherlands to over four in Lithuania and Romania. The regional target of below 2.7 cases per 100 000 was met by all EU/EEA Member States except Romania, Lithuania and Latvia (Fig. 4.2.9).

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

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

In 2020, 19 EU/EEA Member States reported on new and relapse TB patients with HIV infection (Table 14). The detection rate of TB/HIV coinfected cases is based on

reporting data (numerator, not available for 11 countries) and WHO estimates (denominator, not available for Liechtenstein). The target HIV case-detection rate of close to 100% was almost reached by Belgium (93.9%) and two countries (Czechia and Slovakia) had more reported than estimated cases, thereby exceeding the 100% target.

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

Nineteen EU/EEA countries provided information on the HIV status of their TB cases and 73.7% of cases had known HIV status (Table IX). The target testing coverage of close to 100% was achieved only by Greece (Fig. 4.2.10).

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

In 2020, 19 EU/EEA Member States reported 554 TB cases with HIV infection (Table IX). Country-specific proportions ranged from 0% in Croatia, Luxembourg and Slovenia to just over 11% in Estonia and Hungary (Table IX). Among the 15 countries with at least 50% reporting completeness for HIV in 2020, nine (Denmark, Estonia, Lithuania, Luxembourg, the Netherlands, Norway, Portugal, Romania and Slovenia) reached the target of a decrease in the percentage of HIV among all TB cases reported (compared with 2016).

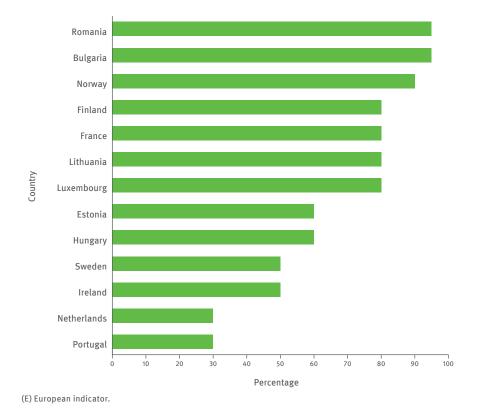


Fig. 4.2.5. Percentage of hospitalizations for new TB patients (E), EU/EEA, 2020

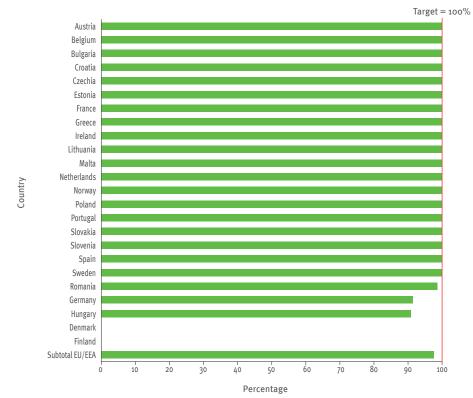


Fig. 4.2.6. Percentage of detected RR/MDR-TB enrolled into treatment (G) (E), EU/EEA, 2020

⁽E) European indicator. (G) Global indicator.

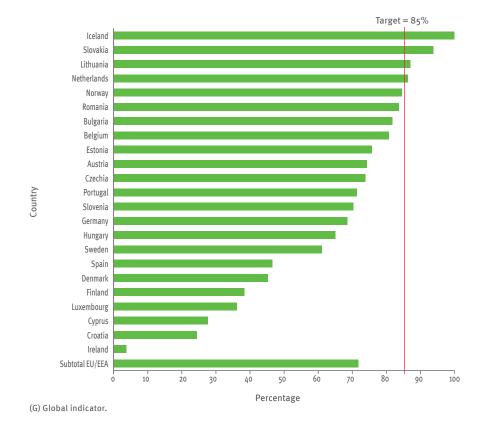
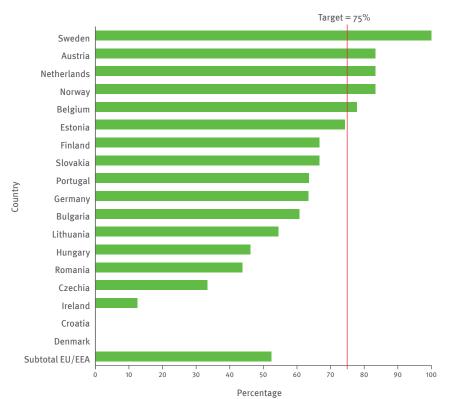


Fig. 4.2.7. TB treatment success rate among all new and relapse cases (G), EU/EEA, 2020

Fig. 4.2.8. TB treatment success rate among the RR/MDR-TB cohort (G) (E), EU/EEA, 2020



⁽E) European indicator. (G) Global indicator.

Fig. 4.2.9. TB mortality rate (ICD A15-19) (G) (E), EU/EEA, 2020

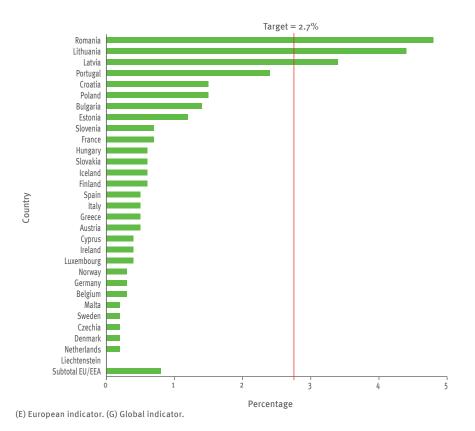
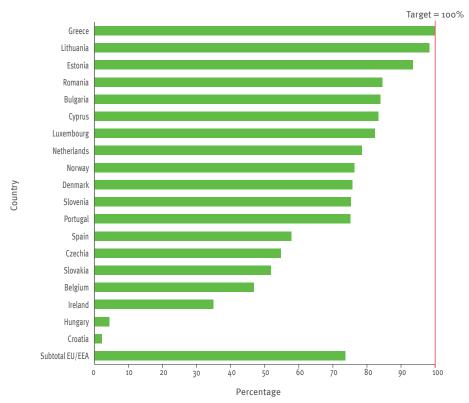


Fig. 4.2.10. HIV testing coverage (%) (G) (E), EU/EEA, 2018



⁽E) European indicator. (G) Global indicator.

Indicator 1.D.4 ART coverage (%) among TB/HIV coinfected

Six EU/EEA Member States reported ART enrolment to the WHO global TB database (Table 14). In these countries, 84.1% of HIV-coinfected TB cases had started ART in 2020. The target for enrolment coverage of close to 100% was achieved by three EU/EEA Member States (Bulgaria, Estonia and Slovakia).

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

The target for LTBI treatment coverage among PLHIV is 30%. No relevant data were available in the WHO global TB database for any EU/EEA Member State in 2020, so this indicator could not be monitored (Fig. 4.2.11).

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

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

Only three EU/EEA Member States reported contact investigation data for the percentage of all eligible contacts of bacteriologically confirmed TB cases who had been investigated for TB/LTBI in 2020 (Table 25). The target of 90% was achieved by two reporting Member States (Slovakia and Slovenia, both 100%) and was almost reached by a third country (Norway, 89.6%).

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

Six EU/EEA Member States reported LTBI treatment coverage data for childhood TB contacts aged under 5 years, with 100% of these contacts reported to have started LTBI treatment in 2020 (Table 25).

4.2.2 Bold policies and supportive systems

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

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

The target is for 30 countries to produce a regular TB control/elimination performance publication every five years, but data on this are not available for 2020.

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

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

The target for this is close to zero, but data are not available for 2020.

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

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

The target is 20% treatment coverage with new TB drugs, but data for this are not available for 2020.

2.D Community systems and civil society engagement

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

The target is for 30 countries to have such coalitions in place, but data are not available for 2020.

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

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

Of the 263 TB cases notified in prisons across 10 EU/EEA Member States in 2019 for whom treatment outcome data are available, 176 (66.9%) were treated successfully (Table 21). Luxembourg reported no TB cases among prisoners. Among the 10 Member States reporting, treatment success ranged from 41.2% in the Netherlands to 100% in Estonia and Slovakia. Only two countries (Estonia and Slovakia) met the treatment success target of 85% for TB cases diagnosed in prisons.

4.2.3 Intensified research and innovation

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

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

The target is for the European TB research initiative to be established, but country-specific indicators are not defined for 2020.

4.2.4 Conclusions and monitoring recommendations

In 2020, 19 of 26 WHO targets were monitored, based on the data available from EU/EEA Member States. For many of the indicators where data were reported by Member States, most of the targets either were met or close to being met. The most significant indicator is the TB notification rate, with a target incidence below 24.6 cases per 100 000 population. This target was met by 26 of 29 reporting countries. Most reporting EU/EEA Member States also met or were close to meeting the targets on use of WRD for diagnosis (30% of new cases and relapses) and first-line DST coverage among bacteriologically confirmed cases (target 100% of cases).

There is difficulty in monitoring progress against WHO targets due to limited or no reporting against some of the indicators. A reduction was seen across several indicators

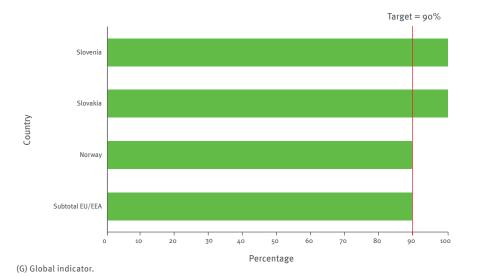


Fig. 4.2.11. LTBI treatment coverage among PLHIV (G), EU/EEA, 2020

in the number of Member States reporting data in 2020 compared with 2018 and/or 2016. This may reflect the impact of the COVID-19 pandemic on public health resources.

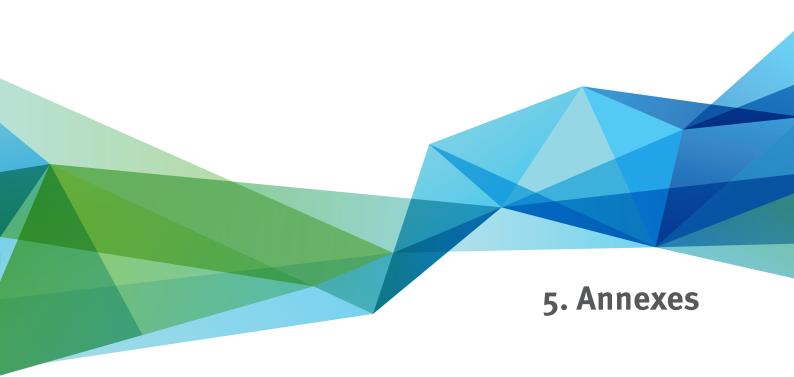
Although TB seems well under control in most of the EU/EEA Member States, these monitoring figures indicate that certain aspects could be improved from the TB clinical service delivery perspective (to meet the indicator targets) and from the surveillance/data-reporting perspective (to have data for indicators).

References¹⁷

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¹⁷ All references accessed 16 February 2022.



	Data source	Legal character	Comprehensiveness	Туре	National coverage	Data available	
Country						EuroTB aggregated data	TESSy case-based dataª
Austria	AT-TUBERKULOSEGESETZ	Ср	Co	С	Y	-	1995-2020
Belgium	elgium BE-TUBERCULOSIS		Co	С	Y	-	1995-2020
Bulgaria	aria BG-MOH		Co	С	Y	1995-2006	2007-2020
Croatia ^b	HR-CNIPH	Ср	Co	С	Y	1995-2007	2012-2020
Cyprus	CY-NOTIFIED_DISEASES	Ср	Co	С	Y	1995-2001	2002-2020
Czechia	CZ-TUBERCULOSIS	Ср	Co	С	Y	-	1995-2020
Denmark	DK-MIS	Ср	Co	С	Y	-	1995-2020
Estonia	EE-TBC	Ср	Co	С	Y	-	1995-2020
Finland	FI-NIDR		Co	С	Y	-	1995-2020
France	FR-MANDATORY_INFECTIOUS_DISEASES	Ср	Co	С	Y	-	1995-2020
Germany	DE-SURVNET@RKI-7.1/6	Ср	Co	С	Y	1995-2000	2001-2020
Greece	EL-NOTIFIABLE_DISEASES	Ср	Co	С	Y	1995-2001	2002-2020
Hungary	HU-TUBERCULOSIS	Ср	Co	С	Y	1995-1998	1999-2020
Iceland	IS-TUBERCULOSIS	Ср	Co	С	Y	-	1995-2020
Ireland	IE-CIDR	Ср	Co	С	Y	1995-1997	1998-2020
Italy	IT-NRS	Ср	Co	С	Y	-	1995-2020
Latvia	LV-TB	Ср	Co	С	Y	1995-2000	2001-2017
Liechtenstein	CH-SFOPH-LI	Ср	Co	С	Y	-	1995-2020
Lithuania	LT-TB_REGISTER	Ср	Co	С	Y	1995-2002	2003-2020
Luxembourg	LU-SYSTEM1	Ср	Co	С	Y	-	1995-2020
Malta	MT-DISEASE_SURVEILLANCE	Ср	Co	С	Y	-	1995-2020
Netherlands	NL-NTR	Ср	Co	С	Y	-	1995-2020
Norway	NO-MSIS_A	Ср	Co	С	Y	-	1995-2020
Poland	PL_CR	Ср	Co	С	Y	1995-1999	2000-2020
Portugal	PT-TUBERCULOSIS	Ср	Co	С	Y	1995-1999	2000-2020
Romania	RO-NTBSy	Ср	Co	С	Y	-	1995-2020
Slovakia	SK-NRT	Ср	Co	С	Y	1995	1996-2020
Slovenia	SI-TUBERCULOSIS	Ср	Co	С	Y	-	1995-2020
Spain	ES-STATUTORY_DISEASES	Ср	Co	С	Y	1995-2006	2007-2020
Sweden	SE-SweTBReg	Ср	Co	С	Y	-	1995-2020

Annex 1. Tuberculosis surveillance system overview, European Union/European Economic Area, 2020

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

	List	Description
Comr	non set of variables	
	RecordId	Unique identifier for each record generated by the national surveillance system
	RecordType	Structure and format of the data
3	RecordTypeVersion	Indicates which version the sender uses when generating the data for upload
4	Subject	Disease to report
	Status	Status of reporting NEW/UPDATE or DELETE (inactivate)
6	DataSource	The data source (surveillance system) that the record originates from
	ReportingCountry	The country reporting the record
8	PlaceOfNotification	Place of the first notification of the case to a regional authority
9	PlaceOfResidence	Place of residence of patient at the time of disease onset
	Age	Age of patient in years as reported in the national system
	Gender	Gender of the reported case
	DateOfDiagnosis	First date of clinical or laboratory diagnosis
	DateOfNotification	Date when the case is first reported to public health authorities
-	DateUsedForStatistics	The reference date used for standard reports; usually one of the above
	se-specific variables	
	BornReportingCountry	The patient was born in the country of report
	CountryOfBirth	Country of birth of patient
	CountryOfNationality	Country of nationality of patient
	DateOfEntryToCountry	Date of entry to country – for TB cases not born in the reporting country
	NationalityReportingCountry	Origin of the patient (based on citizenship)
	MajorSiteOfTB	Major site of the disease
	MinorSiteOfTB	Minor site of the disease
	PrevDiagnosis	Previous diagnosis of tuberculosis in the past
	PrevDiagnosisYear	Year of previous diagnosis
	PrevTreatment	Previous anti-tuberculosis drug treatment (at least one month of drug combination)
	PrevTreatmentCompletion	Completion of the previous anti-tuberculosis drug treatment
	DiagnosedAnteMortem	Vital status of the patient at the time of diagnosis
	EnrolledToTreatment	Patient started appropriate tuberculosis treatment according to international recommendations
	Outcome12Months	Patient first outcome at 12 months from the start of the treatment
29	Outcome24Months	The first outcome observed 13 to 24 months from the start of treatment
	Outcome36Months	The first outcome observed 25 to 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
33	ResultOtherTest	Additional laboratory test results
	Pathogen	Species and gene (<i>Mycobacterium tuberculosis</i> complex) of the pathogen which is the cause of the reported disease
	HIVStatus	Result of the last HIV test
	SIR_AMK	Susceptibility to 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
	SIR_PZA	Susceptibility to pyrazinamide
	SIR_RIF	Susceptibility to rifampicin
49	-	Susceptibility to streptomycin
	IsolateID	Unique identifier for each isolate within the data source/laboratory system related to the case
		Identifier for each isolate record that is guaranteed to be unique across countries/laboratories/pathogens and not contain
51	ECDCIsolateID	additional encoded information
52	SpoligoCode ^b	Spoligo pattern code
53	MiruCode ^b	MIRU pattern code
54	BeijingGenotype ^b	Beijing genotype identification

Annex 2. List of variables for 2020 tuberculosis data collection^a

Notification of tuberculosis cases for 2020, treatment outcome data updated for cohort 2019 and rifampicin-resitance/multidrug-resistance treatment outcome data updated for cohort 2018 and pre-extensive drug resistance treatment outcome data updated for cohort 2018 and extensively drug-resistant tuberculosis treatment outcome data updated for cohort 2018 and pre-extensive drug resistance treatment outcome data updated for cohort 2018 and pre-extensive drug resistance treatment outcome data updated for cohort 2018 and extensively drug-resistant tuberculosis treatment outcome data updated for cohort 2017.
 Optional variable. No need to be reported if the "IsolateID" or "ECDCIsolateID" is provided.

	Country Age (%)	Gender (%)	Origin ^ª (%)	Country of origin (%)	Site (%)	Previous treatment history ^b (%)	Diagnosed antemortem (%)	Result culture (%)	Result microscopy (%)	Result other test (%)	DST FLD (%)	DST SLD (%)	HIV status (%)	Enrolled in treatment (%)	Outcome 12 months ^c (%)	Outcome 24 months ^d (%)	Outcome 36 months ⁶ (%)
		(100.0)	(100.0)	(2.66)	(100.0)	(81.2)	(66.5)	(92.5)	(67.5)	(72.9)	(95.7)	(100.0)	(0.0)	(0.0)	(63.9)	(100.0)	I
Image: the stand s		(100.0)	(100.0)	(100.0)	(100.0)	(79.4)	(100.0)	(95.5)	(38.2)	(75.8)	(96.2)	(100.0)	(46.9)	(98.1)	(98.9)	(100.0)	I
		(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(86.6)	(88.2)	(0.2)	(56.8)	(100.0)	(84.0)	(100.0)	(100.0)	(100.0)	(0.0)
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		(100.0)	(100.0)	(100.0)	(57.9)	(4.4)	(59.6)	(80.3)	(62.8)	(0.0)	(89.7)	(100.0)	(2.2)	(57.4)	(41.3)	I	I
(100.0) <		(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(83.3)	(91.7)	(44.4)	(100.0)	I	(83.3)	(100.0)	(53.6)	I	I
(100.0) (100.1) <		(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(98.6)	(88.8)	(83.7)	(90.2)	(100.0)	(54.8)	(100.0)	(100.0)	(100.0)	I
		(100.0)	(100.0)	(97.7)	(100.0)	(100.0)	(100.0)	(27.7)	(27.7)	(95.9)	(99.4)	(100.0)	(76.0)	(40.3)	(47.9)	I	I
		(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(97.6)	(98.4)	(60.3)	(1.86)	(100.0)	(93.5)	(100.0)	(100.0)	(100.0)	(100.0)
(100.0) (100.0) (100.0) (100.0) (100.0) (100.0) (93.3) (93.1) (71.5) (27.3) (81.5) (0.0) (100.0) (90.0) (100.0) <td></td> <td>(100.0)</td> <td>(98.9)</td> <td>(97.1)</td> <td>(100.0)</td> <td>(99.4)</td> <td>(100.0)</td> <td>(81.0)</td> <td>(49.4)</td> <td>(0.69)</td> <td>(97.9)</td> <td>(100.0)</td> <td>(0.0)</td> <td>(78.7)</td> <td>(42.0)</td> <td>(100.0)</td> <td>I</td>		(100.0)	(98.9)	(97.1)	(100.0)	(99.4)	(100.0)	(81.0)	(49.4)	(0.69)	(97.9)	(100.0)	(0.0)	(78.7)	(42.0)	(100.0)	I
η (100.0) (9.8) (9.7) $(9.6.1)$ (98.7) (90.7) (90.7) (90.4) (85.1) (90.4) (85.2) (100.0)		(100.0)	(88.9)	(93.8)	(1.66)	(54.2)	(2.0)	(52.7)	(81.5)	(0.0)	(3.6)	(100.0)	(0.0)	(0.0)	(14.7)	I	I
		(99.8)	(95.7)	(96.1)	(98.5)	(71.5)	(67.3)	(86.1)	(90.4)	(85.5)	(87.9)	(100.0)		(97.4)	(85.6)	(100.0)	I
(100.0) <		(100.0)	(100.0)	(64.7)	(94.4)	(20.7)	(100.0)	(91.9)	(69.2)	(25.5)	(96.4)	(100.0)	<u> </u>	(64.7)	(0.0)	I	I
		(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(88.4)	(90.4)	(0.0)	(89.8)	(100.0)		(100.0)	(98.4)	(100.0)	I
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		(100.0)	(100.0)	(83.3)	(91.7)	(0.0)	(100.0)	(50.0)	(50.0)	(41.7)	(100.0)	I	(0.0)	(100.0)	(100.0)	I	I
		(9.6)	(73.3)	(71.7)	(75.4)	(52.1)	(100.0)	(74.6)	(36.3)	(80.4)	(59.4)	(100.0)	(35.0)	(100.0)	(0.9)	(0.0)	I
stein (100.0)	(6.9)	(100.0)	(0.66)	(97.6)	(100.0)	(75.3)	(0.0)	(0.99)	(45.0)	(0.0)	(0.0)	I	(0.0)	(53.2)	(0.0)	I	I
stein (100.0) <th< td=""><td></td><td>I</td><td>I</td><td>I</td><td>I</td><td>I</td><td>I</td><td>I</td><td>I</td><td>I</td><td>I</td><td>I</td><td>I</td><td>I</td><td>I</td><td>I</td><td>I</td></th<>		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
a (100.0) (700.0) (700.0) (700.0) (100.0) <td></td> <td>(100.0)</td> <td>(100.0)</td> <td>(100.0)</td> <td>(100.0)</td> <td>(50.0)</td> <td>(100.0)</td> <td>(50.0)</td> <td>(100.0)</td> <td>(100.0)</td> <td>(0.0)</td> <td>I</td> <td></td> <td>(100.0)</td> <td>I</td> <td>I</td> <td>I</td>		(100.0)	(100.0)	(100.0)	(100.0)	(50.0)	(100.0)	(50.0)	(100.0)	(100.0)	(0.0)	I		(100.0)	I	I	I
Durg (100.0)		(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(0.8)	(100.0)	(100.0)	(98.3)	(100.0)	(100.0)	(100.0)	I
		(100.0)	(100.0)	(1.7)	(100.0)	(88.2)	(100.0)	(91.2)	(67.6)	(0.0)	(96.4)	I	(82.4)	(100.0)	(54.0)	I	I
inds (100.0) (100.0) (98.7) (99.2) (100.0) (82.5) (79.1) (86.4) (100.0) (100.0) (100.0) (100.0) (100.0) (100.0) (100.0) (100.0) (100.0) (100.0) (93.1) (100.0) (93.1) (72.5) (93.8) (100.0) (100.0) (100.0) (100.0) (99.2) (100.0) (100.0) (93.1) (72.5) (93.8) (100.0) (100.0) (100.0) (99.2) (100.0) (100.0) (92.4) (27.0) (100.0) (100.0) (99.2) (100.0) (100.0) (99.2) (27.2) (34.2) (100.0) (100.0) (100.0) (100.0) (100.0) (100.0) (97.2) (73.1) (42.5) (100.0) (100.0) (100.0) (100.0) (100.0) (100.0) (97.2) (73.1) (42.5) (100.0) (100.0) (100.0) (100.0) (100.0) (97.2) (73.4) (34.6) (1		(100.0)	(100.0)	(65.7)	(100.0)	(20.0)	(0.0)	(30.7)	(62.1)	(0.0)	(93.0)	I		(100.0)	(0.0)	I	I
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		(100.0)	(98.7)	(99.5)	(99.2)	(100.0)	(0.7.0)	(82.5)	(1.67)	(86.4)	(93.0)	(100.0)		(67.3)	(97.3)	(100.0)	(100.0)
I (100.0) (100		(100.0)	(100.0)	(100.0)	(98.1)	(100.0)	(100.0)	(93.1)	(72.5)	(93.8)	(99.2)	(100.0)	(26.3)	(99.4)	(95.1)	(100.0)	I
al (99.9) (100.0) (99.9) (73.1) (42.5) in (100.0) (100.0) (100.0) (100.0) (100.0) (65.3) (73.1) (42.5) in (100.0) (100.0) (100.0) (100.0) (100.0) (95.7) (36.6) in (100.0) (100.0) (100.0) (100.0) (77.8) (85.4) (34.2) in (100.0) (100.0) (100.0) (97.5) (100.0) (74.2) (35.4) (34.2) in (100.0) (100.0) (100.0) (95.1) (87.0) (94.2) (95.1) (35.1) in (95.9) (65.9) (77.5) (78.8) (38.6) (36.6)		(100.0)	(100.0)	(99.8)	(100.0)	(100.0)	(100.0)	(90.1)	(95.4)	(27.0)	(91.2)	(100.0)		(0.0)	(0.0)	I	I
ia (100.0) (10		(100.0)	(6.66)	(78.6)	(6.66)	(100.0)	(100.0)	(65.3)	(73.1)	(42.5)	(62.3)	(100.0)		(100.0)	(100.0)	(100.0)	I
ia (100.0) (100.0) (100.0) (100.0) (100.0) (100.0) (97.5) (100.0) (77.8) (85.4) (34.2) (a.2) (a.2) (100.0) (100.0) (100.0) (100.0) (100.0) (98.7) (100.0) (96.1) (87.0) (98.7) (100.0) (94.9) (94.9) (100.0) (100.0) (17.5) (18.8) (38.6)		(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(64.7)	(95.7)	(36.6)	(87.0)	(100.0)	(84.6)	(100.0)	(100.0)	(100.0)	I
ia (100.0) (100.0) (100.0) (100.0) (100.0) (98.7) (100.0) (96.1) (87.0) (98.7) ((99.9) (87.9) (81.3) (100.0) (64.9) (0.0) (77.5) (78.8) (38.6)		(100.0)	(100.0)	(100.0)	(100.0)	(97.5)	(100.0)	(77.8)	(85.4)	(34.2)	(98.5)	(100.0)	(51.9)	(100.0)	(97.2)	(100.0)	I
(66.9) (68.9) (87.3) (100.0) (64.9) (0.0) (72.5) (78.8) (38.6)		(100.0)	(100.0)	(100.0)	(100.0)	(98.7)	(100.0)	(96.1)	(87.0)	(98.7)	(100.0)	I	(75.3)	(100.0)	(100.0)	I	I
	(99.9)	(6.66)	(85.9)	(81.3)	(100.0)	(64.9)	(0.0)	(72.5)		(38.6)	(46.5)	(100.0)	(57.8)	(0.0)	(54.3)	(0.0)	I
(100.0) (100.0) (100.0) (100.0) (99.7) (100.0) (100.0) (64.0) (89.3)		(100.0)	(100.0)	(100.0)	(100.0)	(2.66)	(100.0)	(10 0.0)		(89.3)	(100.0)	(100.0)	(0.0)	(100.0)	(67.0)	(100.0)	I
(81.0) (82.8) (36.8)		(100.0)	(6.3)	(95.4)	(99.2)	(83.2)	(69.3)	(81.0)	(82.8)	(36.8)	(71.4)	(100.0)	(39.3)	(61.1)	(61.6)	(98.3)	(66.7)

Annex 3. Completeness of data reported for 2020, European Union/European Economic Area

Dif FLD: drug-susceptibility testing for first-line anti-tuberculosis drugs, calculated for confirmed tuberculosis cases. FLD included in calculation are: isoniazid and rifampacin. Dif FLD: drug-susceptibility testing for second-line anti-tuberculosis drugs, calculated only for multidrug-resistant tuberculosis cases. SLD included in calculation are: bedaquiline, moxifloxacin and levofloxacin. For determining the origin, two variables merged: BornReportingCountry deporting country operations. History of previous treatment defined by previous diagnosis for areas reported by Belgium, Demark, Ireland, Kingdom.

SURVEILLANCE REPORT

Country/area	Identification (%) (17 fields)	Notification (%) (54 fields)	Anti-tuberculosis drug resistance surveillance (%)	Treatment outcome of TB cases by risk categories (%) (80 fields)	Implementing End TB Strategy (%) (100 fields)	Budget and expenditure (%) (49 fields)
EU/EEA						
Austria	(0.0)	(77.8)	(71.4)	(46.3)	(0.0)	(0.0)
Belgium	(0.0)	(92.6)	(71.4)	(100.0)	(9.6)	(0.0)
Bulgaria	(100.0)	(87.0)	(71.4)	(92.5)	(75.5)	(100.0)
Croatia	(0.0)	(77.8)	(71.4)	(53.8)	(37.2)	(0.0)
Cyprus	(0.0)	(77.8)	(71.4)	(38.8)	(0.0)	(0.0)
Czechia	(94.1)	(96.3)	(71.4)	(100.0)	(54.3)	(0.0)
Denmark	(0.0)	(72.2)	(71.4)	(38.8)	(1.1)	(0.0)
Estonia	(100.0)	(98.1)	(71.4)	(86.3)	(79.8)	(2.0)
Finland	(70.6)	(87.0)	(71.4)	(46.3)	(47.9)	(0.0)
France	(94.1)	(83.3)	(71.4)	(46.3)	(35.1)	(0.0)
Germany	(76.5)	(79.6)	(71.4)	(60.0)	(11.7)	(0.0)
Greece	(0.0)	(77.8)	(71.4)	(0.0)	(0.0)	(0.0)
Hungary	(0.0)	(77.8)	(71.4)	(53.8)	(0.0)	(0.0)
Iceland	(0.0)	(77.8)	(71.4)	(38.8)	(0.0)	(0.0)
Ireland	(94.1)	(74.1)	(71.4)	(53.8)	(54.3)	(0.0)
Italy	(35.3)	(70.4)	(95.2)	(0.0)	(22.3)	(0.0)
Latvia	(100.0)	(3.7)	(0.0)	(0.0)	(0.0)	(0.0)
Liechtenstein	-	-	-	-	-	-
Lithuania	(70.6)	(92.6)	(71.4)	(100.0)	(72.3)	(0.0)
Luxembourg	(100.0)	(94.4)	(71.4)	(56.3)	(46.8)	(0.0)
Malta	(70.6)	(88.9)	(71.4)	(1.3)	(22.3)	(0.0)
Netherlands	(100.0)	(90.7)	(71.4)	(85.0)	(44.7)	(2.0)
Norway	(0.0)	(81.5)	(71.4)	(58.8)	(24.5)	(0.0)
Poland	(94.1)	(83.3)	(71.4)	(0.0)	(29.8)	(0.0)
Portugal	(70.6)	(92.6)	(71.4)	(77.5)	(66.0)	(0.0)
Romania	(100.0)	(94.4)	(71.4)	(100.0)	(80.9)	(2.0)
Slovakia	(64.7)	(98.1)	(71.4)	(92.5)	(73.4)	(2.0)
Slovenia	(100.0)	(90.7)	(71.4)	(40.0)	(77.7)	(0.0)
Spain	(0.0)	(77.8)	(71.4)	(53.8)	(0.0)	(0.0)
Sweden	(70.6)	(83.3)	(71.4)	(61.3)	(46.8)	(0.0)
Subtotal EU/EEA	(53.5)	(79.3)	(67.5)	(52.7)	(33.8)	(3.6)
Non-EU/EEA						
Albania	(100.0)	(94.4)	(19.0)	(96.3)	(75.5)	(2.0)
Andorra	(64.7)	(48.1)	(40.5)	(73.8)	(53.2)	(2.0)
Armenia	(100.0)	(92.6)	(45.2)	(100.0)	(69.1)	(63.3)
Azerbaijan	(88.2)	(85.2)	(28.6)	(50.0)	(53.2)	(79.6)
Belarus	(100.0)	(96.3)	(78.6)	(92.5)	(77.7)	(98.0)
Bosnia and Herzegovina	(100.0)	(83.3)	(33.3)	(20.0)	(45.7)	(16.3)
Georgia	(100.0)	(98.1)	(81.0)	(92.5)	(84.0)	(100.0)
Israel	(100.0)	(90.7)	(54.8)	(62.5)	(22.3)	(0.0)
Kazakhstan	(100.0)	(87.0)	(59.5)	(100.0)	(84.0)	(98.0)
Kyrgyzstan	(100.0)	(87.0)	(47.6)	(70.0)	(83.0)	(93.9)
Republic of Moldova	(100.0)	(100.0)	(95.2)	(100.0)	(92.6)	(100.0)
Monaco	(100.0)	(75.9)	(7.1)	(100.0)	(0.0)	(0.0)
Montenegro	(100.0)	(75.9)	(54.8)	(52.5)	(67.0)	(0.0)
North Macedonia	(100.0)	(83.3)	(95.2)	(100.0)		(0.0)
Russian Federation	(64.7)	(87.0)	(76.2)	(100.0)		(95.9)
San Marino	(64.7)	(87.0)	(76.2)	(0.0)		
Serbia						(0.0)
	(100.0)	(75.9)	(7.1)	(31.3)		(0.0)
Serbia excluding Kosovo ¹	(100.0)	(0.0)	(0.0)	(0.0)		(0.0)
Kosovo ¹	(100.0)	(75.9)	(7.1)	(31.3)		(0.0)
Switzerland	(100.0)	(79.6)	(95.2)	(61.3)		(2.0)
Tajikistan	(100.0)	(87.0)	(85.7)	(100.0)		(98.0)
Turkey	(100.0)	(90.7)	(95.2)	(100.0)		(0.0)
Turkmenistan	(88.2)	(74.1)	(21.4)	(31.3)	(52.1)	(16.3)
Ukraine	(100.0)	(92.6)	(85.7)	(100.0)		(100.0)
United Kingdom	(29.4)	(61.1)	(54.8)	(46.3)	(0.0)	(0.0)
Uzbekistan	(100.0)	(83.3)	(92.9)	(38.8)	(63.8)	(0.0)
Subtotal non-EU/EEA	(86.0)	(80.8)	(56.4)	(67.1)	(59.4)	(40.3)
Total European Region	(68.0)	(80.0)	(62.6)	(59.1)		(19.9)
Subtotal 18 HPCs	(95.1)	(85.4)	(65.5)	(80.3)	(70.0)	(58.2)

Annex 4. Reporting completeness into Global TB Database, 2020

Note: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 tuberculosis HPCs presented in italics. EU/EA: European Union/European Economic Area. HPCs: 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).

Annex 5. Laboratory network capacity, European Region, 2020^a

					Country/	area labor	atory networ	k			
								Internatio nation	nal profici al referenc	iency testi e laborato	ng of rv
Country/area	Micros	бсору	Culture	DST for is and rifa		Line probe assay	Xpert MTB/RIF	-	Percer agreem result	ntage lent of s for:	
	Number of laboratories performing	EQA passed	Number of laboratories performing	Number of laboratories performing	EQA passed	(N) [*]	(N)	Year	isoniazid	rifampicin	Acceptable performance ^b
EU/EEA											
Austria	-	-	-	-	-	-	-	-	-	-	-
Belgium	- 33	- 33	- 30	- 10	- 10	- 3	-	2020	-	- 100	Y
Bulgaria Croatia	13	1	13	5	5	1	4	2020	<i>100</i> 100	100	-
Cyprus	-	-	-	-	-	-	-	-	-	-	-
Czechia	38	38	38	17	17	-	-	2020	100	100	Ŷ
Denmark	-	-	-	-	-	-	-	-	-	-	-
Estonia	2	2	2	2	2	1	6	2020	100	100	Y
Finland	9	9	9	1	1	2	5	2020	100	100	Y
France	140	-	140	50	-	38	75	2020	100	100	-
Germany	-	-	-	-	-	-	-	-	-	-	-
Greece	-	-	-	-	-	-	-	-	-	-	-
Hungary Iceland	-	-	-	-	-	-	-	-	-	-	-
Ireland				3	-	-	-				Y
Italy	10 45	10	10 45	3 45	3	1 25	6 45	2020 2019	100 100	100 100	Y Y
Latvia	-	-	-	-	-	-	-	- 2019	-	-	-
Liechtenstein	-	-	-	-	-	-	-	-	-	-	-
Lithuania	11	11	5	5	5	1	4	2020	100	100	-
Luxembourg	1	1	1	1	1	1	0	2020	100	100	Y
Malta	1	-	1	1	-	0	1	-	-	-	-
Netherlands	-	-	30	7	-	-	-	2020	100	100	Y
Norway	-	-	-	-	-	-	-	-	-	-	-
Poland	54	-	54	40	-	1	25	2020	100	100	Y
Portugal	46	46	42	19	10	20	10	2020	100	100	Y
<i>Romania</i> Slovakia	94	87	87	87	45	8	30	2020	100	100	Y Y
Slovania	7	7	3	1	1 1	1	1	2020 2020	100 100	100 100	ř
Spain	-	-	-	-	-	-	-	- 2020	-	-	-
Sweden	5	5	5	5	4	5	5	2020	100	100	Y
Subtotal EU/EEA	511	252	517	300	105	109	220	-	-	-	-
Non-EU/EEA	İ. İ.										
Albania	12	0	1	1	0	1	1	2016	100	100	Ν
Andorra	7	-	7	3	-	4	3	-	-	-	-
Armenia	18	18	1	1	0	1	8	2018	100	100	N
Azerbaijan	38	20	7	3	3	2	16	2020	-	-	Y
Belarus	96	81	15	8	8	8	24	2020	100	100	Y
Bosnia and Herzegovina	14	7	11	5	0	3	0	-	-	-	-
Georgia Israel	11 13	0	2 13	1 1	1	2	28	2020	100	100	Y
Kazakhstan	245	140	20	20	20	1 17	1 119	2020	- 95	- 95	N
Kyrgyzstan	108	108	7	1	1	1	24	2020	100	100	Y
Republic of Moldova	57	57	4	4	4	4	4	2020	100	100	Y
Monaco	-	-	-	-	-	-	-	-	-	-	-
Montenegro	1	1	1	1	1	0	1	2020	100	100	Y
North Macedonia	7	7	3	0	0	0	- 1	2017	100	100	N
Russian Federation	5 277	652	349	198	79	4	1	-	-	-	-
San Marino	-	-	-	-	-	-	-	-	-	-	-
Serbia	33 30	-	29 29	4	4	1	-	-	-	-	-
Serbia excluding Kosovo ¹ Kosovo ¹	30	0	0	4	4	1	0	-	-	-	-
Switzerland	32	32	20	9	9	5	55	2020	- 100	- 100	- Y
Tajikistan	76	70	6	1	0	6	52	2020	100	100	Y
Turkey	165	114	85	46	46	5	26	2019	100	100	Ŷ
Turkmenistan	67	-	6	6	-	6	7	2019	-	-	-
Ukraine	758	742	52	34	34	4	159	-	100	100	-
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Uzbekistan	290	254	8	8	8	12	52	2020	100	100	Y
		2 2 2 2 2	(17	277	240	07	7(2	-	-		-
Subtotal non-EU/EEA Total European Region	7 325 7 836	2 303 2 555	647 1 164	355 655	218 323	87 196	762 982	-	-	-	-

Note: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 tuberculosis HPCs presented in italics. EQA: external quality assessment. EU/EEA: European Union/European Economic Area. DST: drug-susceptibility testing. HPCs: high-priority countries. N: no. Y: yes. *Data obtained from WHO Tuberculosis Monitoring and Evaluation database. *Acceptable performance defined as reference laboratory achieving 95% performance (smear and drug-susceptibility testing). *All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

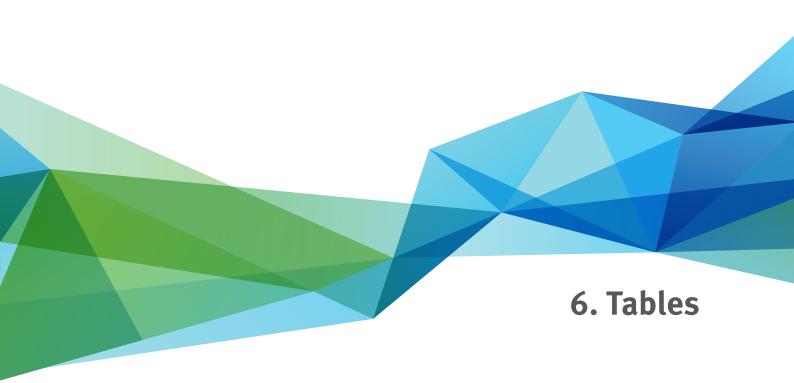
Annex 6. Monitoring framework for follow up of the Tuberculosis Action Plan for the WHO European Region, 2016–2020

Area of intervention	Indicator	Baseline for WHO European Region (2014)	Target	Frequency of assessment	Data source	Monitoring mechanism	Indicator definition	Indicator level
-	d patient-centred care and prev							
1.A Systema 1.A.1	tic screening of contacts and his Coverage of population at risk with systematic screening for active TB and LTBI	gn-risk groups NA	Full coverage	01-2016 01-2021	NTP	Desk review	Total number of people screened for TB and/ or LTBI in a defined period over the total number of people at risk according to the national guidelines, in the same period	98.2%
1.B Early dia	gnosis of all forms of TB and uni	versal access to DST	, including th	e use of rapid	tests			
1.B.1	Percentage of TB patients diagnosed using WHO-recommended rapid tests (G)	NA	≥90%	Annually	NTP	Desk review	Number of newly notified TB patients diagnosed with WHO-recommended rapid tests, divided by the total number of newly notified TB patients	72.3%
1.B.2	First-line DST coverage (%) among all bacteriologically confirmed TB cases (G)	91.9%	Close to 100%	Annually	WHO global TB database	Routine reporting	Number of TB patients with DST results divided by the number of notified cases in the same year, expressed as a percentage. DST coverage includes results from molecular (such as Xpert MTB/RIF) as well as conventional phenotypic DST results.	92.0%
1.B.3	RR/MDR-TB case detection rate (%) (G)	46.5%	85%	Annually	WHO global TB database	Routine reporting	Total number of notified RR/MDR-TB cases over total number of estimated RR/MDR-TB cases among notified bacteriologically confirmed pulmonary TB patients	93.8%
1.B.4	TB notification rate per 100 000 population (E)	30.4	24.6	Annually	WHO global TB database	Routine reporting	Total number of new and relapse TB cases notified per 100 000 population	17.5
1.B.5	TB case-detection rate (%)	88.2%	Increase	Annually	WHO global TB database	Routine reporting	Total number of notified TB cases over total number of estimated TB cases expressed as percentage	70.7%
1.B.6	Percentage of RR/MDR-TB among new TB patients (E)	16.9%	Decrease	Annually	WHO global TB database	Routine reporting	Total number of laboratory-confirmed new RR/MDR-TB cases over total number of new TB cases with DST results expressed as percentage	23.1%
1.B.7	Percentage of RR/MDR-TB among previously treated TB patients	48.0%	Decrease	Annually	WHO global TB database	Routine reporting	Total number of laboratory-confirmed previously treated RR/MDR-TB cases over total number of previously treated TB cases with DST results expressed as percentage	55.2%
1.C Equitable	e access to quality treatment an	d continuity of care f	or all people	with TB, inclu	ding drug-res	sistant TB, and	patient support to facilitate treatment adherenc	e
1.C.1	Percentage of hospitalization of new TB patients (E)	NA	Decrease	01–2016 01–2021	NTP	Desk review	Total number of new TB cases hospitalized in a specified period over total number of new TB cases registered in the same period expressed as percentage	NA
1.C.2	Percentage of detected RR/MDR-TB enrolled in treatment (G)	61.9%	Close to 100%	Annually	WHO global TB database	Routine reporting	Total number of laboratory-confirmed RR/MDR-TB cases enrolled into SLD treatment in line with WHO recommendations over total number of laboratory-confirmed RR/MDR-TB cases notified expressed as percentage	125.4%
1.C.3	Treatment success rate (%) among all new and relapse TB patients (G)	77.2%	85%	Annually	WHO global TB database	Routine reporting	New and relapse TB cases registered in a specified period that were successfully treated	76.5%
1.C.4	Treatment success rate (%) among the RR/MDR-TB treatment cohort (G) (E)	54.8%	75%	Annually	WHO global TB database	Routine reporting	Number of confirmed RR/MDR-TB cases during the specified period that were successfully treated over number of confirmed RR/MDR-TB cases that started on a prescribed MDR-TB treatment regimen during the specified period	55.9%
1.C.5	TB mortality rate (ICD A15-19) per 100 000 population (G) (E)	3.7	2.7	Annually	WHO global TB database	Routine reporting	Estimated number of TB deaths (from vital registration system) per 100 000 population	2.3
1.D Collabor	ative TB/HIV activities and mana	agement of comorbid	ities					
1.D.1	TB/HIV case-detection rate (%)	84.8%	Close to 100%	Annually	WHO global TB database	Routine reporting	Total number of registered HIV coinfected TB patients in a specified period over total number of estimated TB/HIV coinfected patients	67.8%
1.D.2	HIV testing coverage (%) (G) (E)	67.6%	Close to 100%	Annually	WHO global TB database	Routine reporting	Number of new and relapse TB patients with documented HIV status divided by the number of new and relapse TB patients notified in the same year, expressed as percentage	92.6%
1.D.3	Percentage of HIV among all TB	7.8%	Decrease	Annually	WHO global TB database	Routine reporting	Total number of registered TB patients in a specified period who are HIV-positive over total number of registered TB patients in the same period with documented HIV test results	15.0%
1.D.4	ART coverage (%) among TB/HIV cases	53.8%	Close to 100%	Annually	WHO global TB database	Routine reporting	Total number of registered HIV/TB patients in a specified period who are enrolled in ART over total number of registered TB patients in the same period who are HIV-positive	74.3%
1.D.5	LTBI treatment enrolment rate (%) among PLHIV (G)	4.8%	30%	Annually	WHO global TB database	Routine reporting	Total number of new HIV cases enrolled in LTBI treatment in a specified period; total number of new HIV cases eligible for LTBI treatment in the same period	79.5%

Annex 6 contd

Area of intervention	Indicator	Baseline for WHO European Region (2014)	Target	Frequency of assessment	Data source	Monitoring mechanism	Indicator definition	Indicator level
1.E Manager	ment of LTBI and preventive treat	ment of people at hi	gh risk, and v	accination aga	inst TB			
1.E.1	Contact investigation coverage (%) (G) (E)	NA	90%	01-2016 01-2021	NTP	Desk review	Number of contacts of people with bacteriologically confirmed TB who were investigated for TB/LTBI in a defined period over the number of contacts eligible for contact investigation in the same period	98.2%
1.E.2	LTBI treatment coverage (%) in childhood TB contact persons aged under 5 years (G)	N/A	90%	01-2016	NTP	Desk review	Total number of child TB contacts age < 5 years enrolled in LTBI treatment in a defined period over number of child TB contact cases eligible for LTBI treatment in the same period	29.6%
2. Bold poli	cies and supportive systems							
2.A Political	commitment with adequate reso	ources, including uni	versal health	coverage polic	У			
2.A.1	Number of Member States that have a regular TB control/elimination performance publication every five years (E)	NA	53	Cumulative 2016–2020	NTP	Desk review	-	-
2.B Health s	ystem strengthening in all funct	ions, including well a	aligned functi	oning mechani	sms for TB ar	nd human reso	urces	
2.B.1	Percentage of TB patients and their households that experience catastrophic financial consequences due to TB (G) (E)	NA	Close to 0	Annually	NTP	Desk review	Number of people treated for TB (and their households) who incur catastrophic costs (direct and indirect combined) divided by the total number of people treated for TB	-
2.C Regulato	ory frameworks for case-based s	urveillance, strength	nening vital re	egistration, qua	ality and ratio	onal use of me	dicines and pharmacovigilance	
2.C.1	Treatment coverage (%) with new TB drugs	NA	20%	Cumulative 2016–2020	NTP	Desk review	Number of TB patients treated with regimens that include new TB drugs divided by the number of notified patients eligible for treatment with new TB drugs, expressed as a percentage	-
2.D Commun	nity systems and civil society eng	gagement						
2.D.1	Number of Member States with functioning multistakeholder coalitions advocating for TB care and resources	NA	53	Cumulative 2016–2020	NTP	Desk review	-	-
2.E Social pr	rotection, poverty alleviation and	d actions on other de	terminants o	f TB, such as m	igration and	prisons		
2.E.1	Treatment success rate (%) of new and relapse TB cases among prisoners	63.2%	85%	Annually	WHO global TB database	Routine reporting	New and relapse prison TB cases registered in a specified period that were successfully treated	60.4%
3	ed research and innovation							
3.A Discover	ry, development and rapid uptak	e of new tools, inter	ventions and	strategies				
3.A.1	European TB research initiative established by mid-2016	_	Established	Cumulative 2016–2020	NTP	Desk review	-	-

ART: antiretroviral therapy. DST: drug-susceptibility testing. (E): European (indicator). (G): global (indicator). LTBI: latent tuberculosis infection. NA: not available. NTP: national tuberculosis programme. PLHIV: people living with HIV. RR/MDR-TB: rifampicin-resistant/multidrug-resistant tuberculosis. SLD: second-line drug. TB: tuberculosis.



Summary table. Tuberculosis (TB) surveillance data by region, European Region, 2020

					Re	gion			
		EU/	EEA	Non	-EU/EEA	Ĭ	otal		h-priority
	a by	ം ഇ		ه ۲		త్ర			ntriesª
Data item	Table showing data by country/area	Number of reporting countries/areas ^b	Value	Number of reporting countries/areas ^b	Value	Number of reporting countries/areas ^b	Value	Number of reporting countries/areas ^b	Value
Total population (millions)	-	29	518.1	24	481.9	53	932.9	18	411.0
Estimates of TB disease burden, 2020									
Estimated TB mortality rate (excluding HIV-related deaths) per 100 000 population	1	30	0.8	21	3.5	51	2.3	18	4.4
Estimated TB incidence rate per 100 000 population	1	29	9.5	24	39.2	53	25.0	18	47.4
Estimated RR-TB cases among notified bacteriologically confirmed pulmonary TB patients	2	28	810	22	35 800	50	37 000	17	36 200
Estimated percentage of HIV infection among incident TB cases (new and relapse)	2	27	3.6	21	14.2	48	12.0	18	13.8
Notifications of TB cases, 2020									
Total number of TB cases	3	29	33 148	23	166 552	52	199 700	17	169 799
All TB cases per 100 000 population	3	29	7.3	23	34.6	52	21.4	17	41.5
Mean annual percentage change of notification rate (2016–2020)	3	29	-11.6%	23	-9.7%	52	-9.8%	17	-9.7%
Number of new and relapse TB cases		29	31 551	23	132 051	52	163 602	17	135 024
New and relapse TB cases per 100 000 population		29	7.0	23	27.4	52	17.5	17	32.8
Mean annual percentage change of notification rate of new and relapse TB cases (2016–2020)		28	-11.1%	23	-10.7%	51	-10.7%	17	-10.9%
Percentage of new cases among all TB cases	4	29	72.8%	23	65.7%	52	66.9%	17	65.5%
Percentage of retreatment cases among all TB cases	4	29	10.4%	23	34.3%	52	30.3%	17	34.5%
Percentage of pulmonary TB among all TB cases	5	29	77.7%	-	-	-	-	-	-
Percentage of laboratory-confirmed TB cases among all TB cases	8	29	67.3%	-	-	-	-	-	-
Male-to-female ratio of new and relapse TB cases	8	29	2.0	23	1.8	52	1.8	17	1.9
Percentage of foreign TB cases among all TB cases	9	29	33.0%	20	4.3%	50	9.4%	14	2.0%
TB case laboratory confirmation, RR/MDR and XDR, 2020									
Percentage of laboratory-confirmed cases among new pulmonary TB cases ^d	11	29	76.7%	21	62.8%	50	65.2%	16	63.5%
Percentage of DST results reported among new bacteriologically confirmed pulmonary TB cases	11	29	84.3%	21	94.9%	50	92.7%	16	94.3%
Percentage of RR/MDR-TB among new pulmonary TB cases	11	29	2.8%	21	27.8%	50	23.1%	16	26.9%
Percentage of RR/MDR-TB among previously treated pulmonary TB cases	11	29	12.8%	21	57.7%	50	55.2%	16	56.2%
Percentage of pre-XDR-TB among all RR/MDR-TB cases with DST for fluoroquinolone	12	29	27.6%	15	27.0%	44	33.0%	16	32.9%
Percentage of XDR-TB among all pre-XDR-TB cases with DST for any other Group A drugs	12	29	45.1%	8	5.7%	37	6.5%	11	6.1%
Percentage of XDR-TB among all MDR-TB cases with DST for SLD	14	29	22.4%	18	22.5%	47	22.5%	15	22.6%
TB/HIV coinfection, 2020	47	10	72 /0/	20	05 20/	20	02 (9/	17	04.00/
Percentage of new and relapse TB cases with known HIV status Percentage of HIV-positive cases among new and relapse TB cases	14 14	19 19	73.4% 4.2%	20 20	95.2% 16.1%	39 39	92.6% 15.0%	16 16	94.8% 15.3%
with known HIV status Percentage of HIV-positive new and relapse TB cases started on	14	6	84.1%	20	74.2%	26	74.3%	14	74.3%
ART	14	5	04.170	20	/ 7.2 /0	20	17.270	14	17.3/0
Treatment outcome									
Treatment success rate among new and relapse TB cases notified in 2019	16	23	71.8%	23	77.5%	46	76.5%	17	78.2%
Treatment success rate among previously treated TB cases reported in 2019 ^e	17	22	51.2%	22	61.7%	44	61.1%	17	61.0%
Treatment success rate among childhood TB cases notified in 2019	18	23	77.0%	18	92.8%	41	88.8%	13	93.5%
Treatment success rate among TB/HIV cases notified in 2019	20	19	55.1%	15	54.8%	34	54.8%	14	54.9%
Treatment success rate among RR/MDR-TB cases enrolled in SLD treatment in 2018	22	21	52.4%	21	56.0%	42	55.9%	17	55.9%
Teatment success rate among all pre-XDR-TB cases notified in 2018	23	21	33.2%	19	52.1%	40	50.9%	17	50.9%
Treatment success rate among all XDR-TB cases notified in 2017	24	21	52.1%	-	-	-	-	-	-

Note: European Region comprises the 53 countries of the WHO European Region and Liechtenstein.ART: antiretroviral therapy.DST: drug-susceptibility testing.MDR: multidrug-resistant.SLD: second-line anti-TB drugs.XDR: extensively drug-resistant.* High-priority countries: the 18 high-priority countries in the WHO European Region are: Armenia, Azerbaijan, Belarus, Bulgaria, Estonia, Georgia, Kazakhstan,Kyrgyzstan, Latvia, Litunania, the Republic of Moldova, Romania, the Russian Federation, Tajikistan, Turkey, Turkmenistan, Ukraine and Uzbekistan.* Number of countries/areas with available data included in the statistics.*WHO estimates, as published in Global tuberculosis report 2020 (Geneva: World Health Organization; 2020 [will be replaced by a reference number]).* 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.* Excluding relapse TB cases.

Country	Denulation			d number o forms, exc				Esti	mated numb	er of inciden	t cases (al	l forms)	
Country	Population ^a	Best	Number Low	High	Pe Best	r 100 000 Low	High	Best	Number Low	High	Per Best	100 000 Low	High
EU/EEA		Dest	2010		DEST	2010		Dest	LOW		Dest	2011	
Austria	9 006 400	41	40	42	0.46	0.45	0.47	440	380	510	4.9	4.2	5.6
Belgium	11 589 616	33	32	34	0.29	0.27	0.30	890	770	1000	7.7	6.6	8.9
Bulgaria	6 948 445	97	95	99	1.40	1.40	1.40	1 300	1000	1 700	19	14	24
Croatia	4 105 268	60	59	60	1.50	1.40	1.50	270	230	310	6.6	5.7	7.6
Cyprus	1 207 361	5	4	5	0.39	0.36	0.42	69	59	80	5.7	4.9	6.6
Czechia	10 708 982	23	22	23	0.21	0.21	0.21	410	350	480	3.9	3.3	4.5
Denmark	5 792 203	10	10	11	0.17	0.16	0.18	280	240	320	4.9	4.2	5.6
Estonia	1 326 539	16	16	16	1.20	1.20	1.20	140	120	160	10	8.9	12
Finland	5 540 718	30	30	31	0.55	0.55	0.55	200	120	230	3.6	3.1	4.2
France	65 273 512	440	420	460	0.68	0.64	0.71	5 300	4 700	6 000	8.2	7.2	9.2
Germany	83 783 945	270	260	270	0.32	0.31	0.33	4 600	3 900	5 300	5.5	4.7	6.4
Greece	10 423 056	52	49	54	0.52	0.31	0.55	4 800	400	550	4.5	3.9	5.2
	9 660 350	62	62	62	0.50	0.47	0.52	470	380	510	4.5	3.9	5.2
Hungary Iceland	341 250	2	2	2			0.64		8			2.4	
					0.62	0.60		10		11	2.8		3.3
Ireland	4 937 796	18	18	18	0.37	0.37	0.37	260	230	300	5.3	4.6	6.2
Italy	60 461 828	310	300	310	0.51	0.50	0.51	4 0 0 0	3 400	4 600	6.6	5.7	7.6
Latvia	1 886 202	64	62	65	3.40	3.30	3.50	430	370	500	23	20	26
Liechtenstein		-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	2 722 291	120	110	130	4.40	4.20	4.70	790	680	910	29	25	34
Luxembourg	625 976	2	2	2	0.35	0.34	0.36	37	31	43	5.9	5	6.8
Malta	441 539	1	1	1	0.23	0.23	0.23	160	140	190	36	31	42
Netherlands	17 134 873	28	28	29	0.16	0.16	0.17	710	600	820	4.1	3.5	4.8
Norway	5 421 242	19	18	19	0.34	0.33	0.35	170	140	190	3.1	2.6	3.5
Poland	37 846 605	570	540	600	1.50	1.40	1.60	3 600	3 100	4 200	9.6	8.2	11
Portugal	10 196 707	240	230	250	2.40	2.30	2.40	1600	1400	1800	16	13	18
Romania	19 237 682	920	910	930	4.80	4.80	4.80	12 000	10 000	14 000	64	54	74
Slovakia	5 459 643	35	34	35	0.64	0.63	0.65	180	150	200	3.2	2.8	3.7
Slovenia	2 078 932	14	14	15	0.69	0.68	0.70	86	74	100	4.1	3.5	4.8
Spain	46 754 783	250	250	260	0.54	0.53	0.55	3 400	2 9 0 0	3 900	7.3	6.2	8.4
Sweden	10 099 270	22	22	22	0.22	0.21	0.22	360	310	420	3.6	3.1	4.2
Subtotal EU/EEA	451 013 014	3 800	3 700	3 800	0.8	0.8	0.8	43 000	41 0 00	45 000	9.5	9.1	10.0
Non-EU/EEA													
Albania	2 877 800	11	6	18	0.40	0.22	0.63	430	370	500	15	13	17
Andorra	77 265	1	1	2	1.40	0.85	2.10	2	2	3	3	3	3
Armenia	2 963 234	30	29	30	1.00	0.99	1.00	680	520	870	23	18	29
Azerbaijan	10 139 175	740	660	830	7.30	6.50	8.20	5900	4 500	7 500	58	44	74
Belarus	9 449 321	260	250	270	2.80	2.70	2.90	2 500	1900	3 100	26	20	33
Bosnia and Herzegovina	3 280 815	110	96	130	3.50	2.90	4.10	850	650	1100	26	20	33
Georgia	3 989 175	190	170	220	4.80	4.20	5.50	2 800	2 300	3 300	70	58	83
Israel	8 655 541	21	20	21	0.24	0.23	0.25	180	160	210	2	2	2
Kazakhstan	18 776 707	610	580	630	3.20	3.10	3.40	13 000	8 400	19 000	69	45	99
Kyrgyzstan	6 524 191	300	290	300	4.60	4.50	4.70	6 900	5 800	8 000	105	89	122
Monaco	39 244	0	0	0	0.00	0.00	0.00	0	0000	0	0	0	0
Montenegro	628 062	1	1	2	0.23	0.00	0.32	99	84	120	16	13	18
North Macedonia	2 083 380	25	21	28	1.20	1.00	1.40	250	190	310	12	9	15
Republic of Moldova	4 033 963	210	200	230	5.30	4.90	5.60	3 000	2 500	3 500	74	63	86
Russian Federation	145 934 460	7 300	7 100	7 600	5.00	4.90	5.20	68 000	43 000	98 000	46	30	67
San Marino	33 938	0	0	0	0.00	0.00	0.00	00000	43 000	98 000	40	0	0/
													15
Serbia Switzerland	8 737 370	93	85	100	1.10	0.97	1.20	1200	980	1300	13	11	
	8 654 618	17	17	1100	0.20	0.19	0.21	400	350	470	5	4	5
Tajikistan	9 537 642	920	790	1100	9.60	8.30	11.00	8 0 0 0	6 100	10 000	84	64	106
Turkey	84 339 067	420	410	440	0.50	0.48	0.52	13 000	11 000	15 000	15	13	18
Turkmenistan	6 031 187	620	520	720	10.00	8.60	12.00	2 800	2 200	3 600	47	36	60
Ukraine	43 733 759	4 100	3 500	4 800	9.40	7.90	11.00	32 000	21 000	45 000	73	49	102
United Kingdom	67 886 004	310	310	320	0.46	0.45	0.48	4 700	4 200	5 200	7	6	8
Uzbekistan	33 469 199	1 100	1000	1 100	3.20	3.00	3.30	22 000	15 000	30 000	66	46	90
Subtotal non-EU/EEA	481 875 117	17 000	16 000	18 000	3.5	3.3	3.7	189 000	158 000	220 000	39	33	46
Total European Region	932 888 131	21 000	20 000	22 000	2.3	2.2	2.4	231 000	201000	264 000	25	22	28
Subtotal 18 HPCs	411 042 239	18 017	17 000	19 000	4.4	4.1	4.6	195 000	164 000	226 000	47	40	55

Table 1. Estimates of the TB disease burden, European Region, 2020

Note: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. HPCs: high-priority countries. ^a Population estimate 2020 by United Nations Statistical Database for all countries.

	Estimated	l incidence	of child TB	cases			Stimated i	ncidence of	TB among	females		
	Number		Pe	100000			Number		Pe	100000		Country
Best	Low	High	Best	Low	High	Best	Low	High	Best	Low	High	
												EU/EEA
14	12	16	1.1	0.9	1.2	150	120	180	3.3	2.6	3.9	Austria
55	46	64	2.8	2.3	3.2	310	250	370	5.3	4.3	6.3	Belgium
110	79	140	10.8	7.7	13.7	450	300	600	12.6	8.4	16.8	Bulgaria
1	1	1	0.2	0.2	0.2	110	84	130	5.2	4.0	6.1	Croatia
2	2	2	1.0	1.0	1.0	32	25	38	5.3	4.1	6.3	Cyprus
2	2	3	0.1	0.1	0.2	130	100	150	2.4	1.8	2.8	Czechia
17	15	20	1.8	1.6	2.1	100	82	130	3.4	2.8	4.5	Denmark
1	1	1	0.5	0.5	0.5	36	29	42	5.2	4.2	6.0	Estonia
6	5	7	0.7	0.6	0.8	84	66	100	3.0	2.4	3.6	Finland
280	250	320	2.4	2.2	2.8	2 000	1700	2 300	5.9	5.0	6.8	France
190	160	220	1.6	1.4	1.9	1600	1300	2 000	3.8	3.1	4.7	Germany
190	15	220	1.0	1.4	1.9	120	96	140	2.3	1.8	2.6	Greece
										2.8		
6	5	7	0.4	0.4	0.5	170	140	210	3.4		4.1	Hungary
0	0	0	0.0	0.0	0.0	4	4	5	2.4	2.4	2.9	Iceland
6	5	7	0.6	0.5	0.7	100	80	120	4.0	3.2	4.8	Ireland
220	180	250	2.8	2.3	3.2	2 400	1900	2 900	7.7	6.1	9.3	Italy
8	7	9	2.6	2.3	2.9	130	110	160	12.8	10.8	15.7	Latvia
-	-	-	-	-	-	-	-	-	-	-	-	Liechtenstein
15	13	17	3.6	3.1	4.0	190	150	230	13.0	10.3	15.7	Lithuania
0	0	0	0.0	0.0	0.0	2	2	3	0.6	0.6	1.0	Luxembourg
9	7	10	14.2	11.0	15.8	30	24	35	13.6	10.9	15.9	Malta
22	18	25	0.8	0.7	0.9	310	240	370	3.6	2.8	4.3	Netherlands
13	11	15	1.4	1.2	1.6	93	74	110	3.5	2.8	4.1	Norway
44	37	50	0.8	0.6	0.9	970	780	1 2 0 0	5.0	4.0	6.2	Poland
47	40	54	3.5	3.0	4.1	560	440	670	10.4	8.2	12.5	Portugal
590	490	690	19.8	16.4	23.1	3 800	3 000	4 700	38.4	30.4	47.6	Romania
40	33	48	4.7	3.9	5.7	71	56	86	2.5	2.0	3.1	Slovakia
0	0	0	0.0	0.0	0.0	34	27	42	3.3	2.6	4.0	Slovenia
220	180	250	3.3	2.7	3.7	1300	1000	1500	5.5	4.2	6.3	Spain
18	15	21	1.0	0.8	1.2	170	130	210	3.4	2.6	4.2	Sweden
1 950	1 830	2 070	2.9	2.7	3.0	15 000	14 000	16 000	6.5	6.1	6.9	Subtotal EU/EEA
												Non-EU/EEA
5	5	6	1.0	1.0	1.2	110	88	130	7.8	6.2	9.2	Albania
0	0	0	0.0	0.0	0.0	1	1	1	2.5	2.5	2.5	Andorra
40	29	51	6.5	4.7	8.3	170	110	220	10.8	7.0	14.0	Armenia
360	260	450	15.1	10.9	18.9	2 100	1 400	2 800	41.4	27.6	55.2	Azerbaijan
81	60	100	5.0	3.7	6.1	740	490	980	14.7	9.7	19.4	Belarus
2	2	3	0.4	0.4	0.6	330	210	440	19.7	12.5	26.3	Bosnia and Herzegovina
150	120	170	18.6	14.9	21.1	960	730	1200	46.0	35.0	57.5	Georgia
5	4	5	0.2	0.2	0.2	68	54	82	1.6	1.2	1.9	Israel
730	420	1000	13.3	7.7	18.3	6 100	2 700	9 500	63.1	27.9	98.3	Kazakhstan
500	410	580	23.5	19.2	27.2	2 900	2 300	3 600	88.0	69.8	109.2	Kyrgyzstan
0	0	0	0.0	0.0	0.0	0	0	0	0.0	0.0	0.0	Monaco
0	0	0	0.0	0.0	0.0	27	22	33	8.5	6.9	10.4	Montenegro
17	13	22	5.0	3.8	6.5	83	55	110	8.0	5.3		North Macedonia
140	120	160	21.8	5.0 18.7	25.0	860	55 690	1 0 0 0	40.9	32.8	47.6	
1900	1 100	2 700	7.1	4.1	10.1	20 000	9 600	31 000	25.5	12.3	39.6	
0	0	0	0.0	0.0	0.0	0	0	0	0.0	0.0	0.0	
29	24	34	2.2	1.8	2.5	640	500	780	14.4	11.2	17.5	
18	16	21	1.4	1.2	1.6	170	140	210	3.9	3.2		Switzerland
510	370	640	14.3	10.4	18.0	3 600	2 300	4 800	76.1	48.6	101.4	Tajikistan
830	690	970	4.1	3.4	4.8	5 500	4 300	6 800	12.9	10.1		Turkey
160	120	200	8.6	6.5	10.8	1200	770	1600	39.2	25.1	52.3	
1 300	790	1 800	18.6	11.3	25.7	10 000	5 200	15 000	42.6	22.2	63.9	
170	150	190	1.4	1.2	1.6	1900	1700	2 200	5.5	4.9	6.4	
3 200	2 000	4 400	33.2	20.7	45.6	10 000	5 400	15 000	59.6	32.2	<i>89</i> .4	
10 000	8 000	12 000	9.9	7.9	11 .9	67 000	54 000	80 000	26.8	21.6	32.0	Subtotal non-EU/EEA
12 000	10 000	14 000	7.1	5.9	8.3	84 000	68 000	99 000	17.5	14.2	20.6	Total European Region
11 000	9 000	13 000	12.5	10.3	14.8	69 000	56 000	82 000	32.2	26.1	38.2	Subtotal 18 HPCs

Country	Estimated I	HV infectio	n among incid	dent TB case	s (new and r	elapse)	Estimated po cases amo	ercentage o ong new TB	
Country		Number			%			%	
	Best	Low	High	Best	Low	High	Best	Low	High
EU/EEA									
Austria	9	5	15	2.2	1.2	3.3	2.3	0.8	4.9
Belgium	33	12	64	3.7	1.4	7.1	2.1	1.0	3.9
Bulgaria	14	5	28	1.1	0.4	2.1	2.5	1.3	4.4
Croatia	3	1	4	1.0	0.5	1.5	0.4	0.0	2.5
Cyprus	3	2	5	4.7	2.5	7.6	0.0	0.0	7.6
Czechia	3	2	5	0.8	0.4	1.2	3.6	1.6	6.9
Denmark	7	3	14	2.5	0.9	4.9	1.8	0.4	5.0
Estonia	13	7	23	9.7	4.8	16.0	19.0	11.0	28.0
Finland	3	2	5	1.5	0.8	2.4	0.0	0.0	3.6
France	270	210	340	5.1	4.1	6.2	1.0	0.7	1.5
Germany	120	63	190	2.6	1.4	4.1	2.2	0.8	4.8
Greece	17	10	27	3.6	2.1	5.5	1.5	0.0	8.0
Hungary	5	3	8	1.1	0.6	1.7	3.8	1.4	8.2
Iceland	0	0	0	2.1	0.8	4.1	0.0	0.0	60.0
Ireland	10	120	15	3.6	2.0	5.7	1.1	0.0	5.8
Italy Latvia	210	120	320	5.2 8.1	3.0 2.8	7.9	2.4	1.7	3.2
Liechtenstein	35	12	70	8.1	2.8	16.0	8.0	5.4	11.0
Liechtenstein	23		36	2.9					
Luxembourg	0	13 0	36	2.9	1.7 0	4.4 5.4	13.0 0.0	<i>9.8</i> 0.0	16.0 19.0
Malta	3	0	8	1.7	0.2	4.9	0.0	0.0	9.5
Netherlands	22	13	34	3.1	1.9	4.9	1.6	0.0	9.5 4.1
Norway	4	1	7	2.1	0.8	4.0	2.5	0.3	8.6
Poland	43	23	67	1.2	0.8	1.8	1.4	1.0	2.1
Portugal	160	120	190	9.8	8.3	11.0	1.0	0.5	1.7
Romania	280	220	340	2.2	1.9	2.6	2.3	1.8	2.9
Slovakia	1	0	2	0.5	0.2	0.9	0.0	0.0	7.0
Slovenia	0	0	2	-	-	2.4	1.8	0.0	9.4
Spain	230	88	440	6.8	2.6	13.0	4.2	2.9	5.8
Sweden	8	4	13	2.2	1.2	3.5	2.4	0.7	5.9
Subtotal EU/EEA	1 530	1 0 0 0	2 000	3.6	2.2	4.9	2.7	1.9	3.7
Non-EU/EEA									
Albania	4	0	12	1.0	0.1	2.9	0.8	0.0	4.4
Andorra	-	-	-	-	-	-	0.0	0.0	98.0
Armenia	72	47	100	11.0	7.6	14.0	14.0	9.6	20.0
Azerbaijan	110	75	150	1.9	1.4	2.3	12.0	10.0	14.0
Belarus	220	160	290	8.9	7.5	10.0	40.0	36.0	43.0
Bosnia and Herzegovina	2	1	3	0.2	0.1	0.4	0.0	0.0	1.8
Georgia	55	35	78	1.9	1.3	2.7	11.0	8.9	13.0
Israel	17	9	28	9.5	5.2	15.0	5.6	1.8	13.0
Kazakhstan	850	540	1 200	6.5	6.0	7.0	36.0	35.0	38.0
Kyrgyzstan	220	180	280	3.3	2.7	3.8	28.0	26.0	30.0
Monaco	-	-	-	-	-	-	2.3	1.1	4.0
Montenegro	0	0	4	0	0	4.4	0.0	0.0	12.0
North Macedonia	1	0	2	0.5	0.2	1.0	1.2	0.0	6.7
Republic of Moldova	390	310	470	13.0	11.0	15.0	26.0	23.0	29.0
Russian Federation	16 000	10 000	24 000	24.0	24.0	25.0	36.0	36.0	37.0
San Marino	-		24000	-	24.0	25.0	2.3	1.1	4.0
Serbia	4	2	6	0.3	0.2		1.1	0.5	2.2
Switzerland			29			0.5		0.5	
Tajikistan	18 230	10 <i>170</i>	29 310	4.5 2.9	2.5 2.4	7.0 3.5	1.1 24.0	22.0	3.3
									26.0
Turkey Turkmenistan	150 630	120 340	190	1.2 22.0	1.0 13.0	1.4 34.0	2.5	2.0 21.0	3.0
Ukraine	7 000		1 000				23.0		26.0
		4 600 60	<i>9 800</i> 310	22.0 3.4	21.0 1.3	22.0 6.6	29.0 2.0	28.0	30.0
United Kingdom Uzbekistan	160							1.4	2.8
	690	470	950	3.1	2.8	3.5	18.0	17.0	20.0
Subtotal non-EU/EEA	26 800	19 000	34 000	14.2	8.6	21.5	21.0	20.0	23.0
Total European Region	29 000	22 000	36 000	12.0	9.2 8.8	16.0 24.0	18.0 22.0	17.2 21.0	20.0 23.0

Table 2. Estimates for TB/HIV coinfection and RR-TB, European Region, 2020

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

Estimated cases ar	percentage mong retrea patients	of RR-TB ited TB	notified	RR-TB case bacteriolog ed pulmona patients	gically		d number of i RR-TB cases	ncident	Country
	%			Number			Number		
Best	Low	High	Best	Low	High	Best	Low	High	
									EU/EEA
18.0	3.8	43.0	8	3	13	13	5	24	Austria
8.8	1.9	24.0	13	6	20	26	13	43	Belgium
21.0	13.0	32.0	24	16	32	57	31	90	Bulgaria
6.3	0.2	30.0	1	0	3	2	0	5	Croatia
0.0	0.0	98.0	0	0	1	0	0	0	Cyprus
30.0	6.7	65.0	13	6	20	19	9	34	Czechia
0.0	0.0	20.0	2	0	5	4	1	11	Denmark
31.0	9.1	61.0	22	14	30	28	17	42	Estonia
67.0	9.4	99.0	2	0	4	2	1	3	Finland
10.0	7.1	15.0	32	23	41	95	66	130	France
23.0	16.0	30.0	92	46	140	140	66	250	Germany
9.1	0.2	41.0	6	0	16	10	1	31	Greece
24.0	8.2	47.0	13	6	21	27	12	47	Hungary
0.0	0.0	98.0	0	0	3	0	0	0	Iceland
0.0	0.0	46.0	1	0	5	2	1	4	Ireland
13.0	7.7	21.0	42	31	53	140	. 98	190	Italy
31.0	19.0	44.0	-	-	-	48.0	32.0	68.0	Latvia
-	-		-	-	-		-	-	Liechtenstein
32.0	24.0	41.0	100	86	120	130	99	170	Lithuania
0.0	0.0	98.0	0	0	2	0	0	0	Luxembourg
11.0	7.2	16.0	0	0	5	1	0	1	Malta
0.0	0.0	25.0	5	0	9	11	3	25	Netherlands
0.0	0.0	34.0	2	0	5	3	0	11	Norway
3.0	1.5	5.5	44	30	58	60	40	83	Poland
6.9	2.8	14.0	12	7	18	21	12	34	Portugal
13.0	12.0	14.0	290	260	330	570	430	730	Romania
9.1	0.2	41.0	290	0	4	570	430	1	Slovakia
0.0	0.2	60.0	1	0	3	1	1	2	Slovenia
18.0	9.4	30.0	77	54	100	180	120	250	Spain
10.0	0.3	45.0	5	1	100	10	3	230	Sweden
53.0	46.0	60.0	810	740	880	1600	1 400	1800	Subtotal EU/EEA
 55.0	40.0	00.0	010	740	000	1000	1400	1000	Non-EU/EEA
23.0	5.0	54.0	4	0	8	8	2	10	Albania
11.0	7.2	16.0	4	0	1	0	0	0	Andorra
50.0	35.0	65.0	54	42	66	150	95	230	Armenia
24.0	23.0	26.0	720	670	760	1 200	850	1 500	Azerbaijan
75.0	71.0	78.0	820	790	860	1 300	930	1 600	Belarus
0.0	0.0	15.0	0	0	3	0	950		
								0	Bosnia and Herzegovina
26.0	21.0	32.0	190	170	220	420	320	530	Georgia
0.0	0.0	98.0	2 000	2 800	9	10 5 200	3 2 2 0 0	20	Israel Kazakhatan
50.0	48.0	52.0	2 900	2 800	2 900	5 200	3 300	7 600	Kazakhstan Kurauzatan
54.0	50.0	58.0	940	890	990	2 500	2 100	3 000	Kyrgyzstan Manaca
11.0	7.2	16.0	0	0	0	0	0	0	Monaco
0.0	0.0	85.0	0	0	2	0	0		Montenegro
10.0	0.3	45.0	2	0	5	4	0		North Macedonia
	48.0	58.0	430	400	460	1 100	850	1 300	
53.0		69.0	23 000	23 000	24 000	37 000	23 000	53 000	
53.0 68.0	68.0					0	0	0	San Marino
	68.0 7.2	16.0	0	0	0				Carbia
68.0			0 2	0	0	17	7	30	Serbia
68.0 11.0	7.2	16.0					7	30 25	Switzerland
68.0 11.0 4.7	7.2 1.3	16.0 11.0	2	1	3	17			Switzerland
68.0 11.0 4.7 26.0	7.2 1.3 9.1	16.0 11.0 51.0	2 10	1 4	3 16	17 14	6	25	Switzerland Tajikistan
68.0 11.0 4.7 26.0 43.0	7.2 1.3 9.1 <i>38.0</i>	16.0 11.0 51.0 <i>49.0</i>	2 10 <i>560</i>	1 4 520	3 16 <i>590</i>	17 14 2 200	6 1 600	25 2 800	Switzerland Tajikistan Turkey
68.0 11.0 4.7 26.0 43.0 11.0	7.2 1.3 9.1 <i>38.0</i> 7.8	16.0 11.0 51.0 49.0 15.0	2 10 560 140	1 4 520 120	3 16 590 170	17 14 2 200 400	6 1 600 310	25 2 800 510	Switzerland Tajikistan Turkey Turkmenistan
68.0 11.0 4.7 26.0 43.0 11.0 54.0	7.2 1.3 9.1 38.0 7.8 48.0	16.0 11.0 51.0 49.0 15.0 60.0	2 10 560 140 290	1 4 520 120 260	3 16 590 170 310	17 14 2 200 400 960	6 1 600 310 650	25 2 800 510 1 300	Switzerland Tajikistan Turkey Turkmenistan Ukraine
68.0 11.0 4.7 26.0 43.0 11.0 54.0 41.0	7.2 1.3 9.1 38.0 7.8 48.0 40.0	16.0 11.0 51.0 49.0 15.0 60.0 43.0	2 10 560 140 290 4 300	1 4 520 120 260 4 200	3 16 590 170 310 4 400	17 14 2 200 400 960 11 000	6 1 600 310 650 6 900	25 2 800 510 1 300 15 000	Switzerland Tajikistan Turkey Turkmenistan Ukraine United Kingdom
68.0 11.0 4.7 26.0 43.0 11.0 54.0 41.0 3.3 38.0	7.2 1.3 9.1 38.0 7.8 48.0 40.0 0.9 36.0	16.0 11.0 51.0 49.0 15.0 60.0 43.0 8.1 41.0	2 10 560 140 290 4 300 40 1 400	1 4 520 120 260 4 200 27 1 300	3 16 590 170 310 4 400 53 1 500	17 14 2 200 400 960 11 000 100	6 1 600 310 650 6 900 70 3 600	25 2 800 510 1 300 15 000 140 7 100	Switzerland Tajikistan Turkey Turkmenistan Ukraine United Kingdom Uzbekistan
68.0 11.0 4.7 26.0 43.0 11.0 54.0 41.0 3.3	7.2 1.3 9.1 38.0 7.8 48.0 40.0 0.9	16.0 11.0 51.0 49.0 15.0 60.0 43.0 8.1	2 10 560 140 290 4 300 40	1 4 520 120 260 4 200 27	3 16 590 170 310 4 400 53	17 14 2 200 400 960 11 000 100 5 200	6 1 600 310 650 6 900 70	25 2 800 510 1 300 15 000 140 7 100 84 000	Switzerland Tajikistan Turkey Turkmenistan Ukraine United Kingdom Uzbekistan

	2016		201	7	2018	3	2019	9	2020		Mean annual %
Country/area	N	Rate	N	Rate	N	Rate	N	Rate	N	Rate	change in rate, 2016–2020
EU/EEA											
Austria	634	7.3	569	6.5	482	5.5	474	5.4	388	4.4	-12.1%
Belgium	1042	9.2	967	8.5	977	8.6	963	8.4	830	7.2	-6.0%
Bulgaria	1 603	22.4	1 4 6 3	20.6	1 358	19.3	1344	19.2	930	13.4	-12.1%
Croatia	464	11.1	378	9.1	372	9.1	305	7.5	183	4.5	-20.1%
Cyprus	60	7.1	53	6.2	52	6.0	69	7.9	36	4.1	-13.0%
Czechia	516	4.9	501	4.7	443	4.2	461	4.3	367	3.4	-8.5%
Denmark	330	5.8	275	4.8	291	5.0	281	4.8	219	3.8	-10.2%
Estonia	192	14.6	176	13.4	147	11.1	150	11.3	124	9.3	-10.6%
Finland	234	4.3	245	4.5	227	4.1	226	4.1	174	3.1	-7.3%
France	5 7 3 5	8.6	5 015	7.5	5 0 9 2	15.1	5 116	7.6	4 6 0 6	6.8	-5.6%
Germany	5 925	7.2	5 518	6.7	5 489	6.6	4 812	5.8	4 127	5.0	-8.9%
Greece	440	4.1	467	4.3	432	4.0	459	4.3	396	3.7	-2.5%
Hungary	786	8.0	685	7.0	640	6.5	552	5.6	406	4.2	-15.1%
Iceland	6	1.8	14	4.1	8	2.3	13	3.6	12	3.3	16.3%
Ireland	315	6.7	300	6.3	310	6.4	266	5.4	240	4.8	-7.7%
Italy	4 032	6.6	3 944	6.5	3 912	6.5	3 3 4 6	5.6	2 287	3.8	-12.8%
Latvia	660	33.5	552	28.3	-	-	-	-	-	-	-
Liechtenstein	2	5.3	1	2.6	1	2.6	-	-	2	5.2	-0.7%
Lithuania	1 4 4 2	49.9	1 387	48.7	1 142	40.7	1 058	37.9	726	26.0	-15.1%
Luxembourg	29	5.0	32	5.4	42	7.0	50	8.1	34	5.4	1.9%
Malta	50	11.1	42	9.1	55	11.6	98	19.9	140	27.2	25.1%
Netherlands	887	5.2	783	4.6	795	4.6	754	4.4	623	3.6	-9.0%
Norway	295	5.7	261	5.0	208	3.9	162	3.0	160	3.0	-14.8%
Poland	6 4 4 4	17.0	5 7 8 7	15.2	5 4 8 7	14.4	5 321	14.0	3 388	8.9	-14.8%
Portugal	1936	18.7	1 914	18.6	1936	18.8	1932	18.8	1 4 4 5	14.0	-6.9%
Romania	13 601	68.8	12 997	66.2	12 199	62.5	11 618	59.8	7 698	39.8	-12.8%
Slovakia	296	5.5	249	4.6	281	5.2	214	3.9	158	2.9	-14.6%
Slovenia	118	5.7	112	5.4	99	4.8	101	4.9	77	3.7	-10.5%
Spain	5 070	10.9	5660	12.2	4 766	10.2	4 5 4 3	9.7	3 0 4 4	6.4	-12.4%
Sweden	714	7.2	519	5.2	488	4.8	479	4.7	328	3.2	-18.6%
Subtotal EU/EEA	53 858	12.0	50 866	11.3	47 731	10.6	45 167	10.0	33 148	7.3	-11.6%
Non-EU/EEA											
Albania	415	14.4	503	17.4	440	15.3	412	14.3	240	8.3	-12.7%
Andorra	4	5.2	1	1.3	2	2.6	5	6.5	2	2.6	-15.9%
Armenia	1 080	36.8	926	31.4	796	27.0	670	22.7	444	15.0	-20.1%
Azerbaijan	6 707	68.9	7 129	72.4	6 896	69.3	6 533	65.0	4 991	49.2	-8.1%
Belarus	3 598	38.1	3 052	32.3	2 5 4 2	26.9	2 615	27.7	1778	18.8	-16.2%
Bosnia and Herzegovina	907	26.8	768	22.9	669	20.1	580	17.6	357	10.9	-20.2%
Georgia	3 330	82.9	2 927	73.0	2 590	64.7	2 451	61.3	1 842	46.2	-13.6%
Israel	250	3.1	234	2.8	292	3.5	217	2.5	158	1.8	-12.3%
Kazakhstan	12 658	71.0	12 942	71.6	13 361	72.9	12 990	70.0	10 020	53.4	-6.9%
Kyrgyzstan	7 995	131.6	7 695	124.3	7 585	120.3	7 039	109.7	4 885	74.9	-13.2%
Monaco	2	5.3	-	-	1	2.6	-	-	0	0.0	-100.0%
Montenegro	87	13.9	77	12.3	84	13.4	82	13.1	40	6.4	-17.7%
North Macedonia	267	12.8	219	10.5	217	10.4	199	9.6	148	7.1	-13.7%
Republic of Moldova	4 134	101.7	3 858	95.0	3 465	85.5	3 255	80.5	1906	47.2	-17.4%
Russian Federation	121 046	83.3	114 187	78.5	106 913	73.4	103 979	71.3	84 956	58.2	-8.6%
San Marino	0	0.0	0	0.0	1 25 8	0.0	0	0.0	-	-	
Serbia	1488	16.8	1466	16.6	1 358	15.4	1 179	13.4	441	5.0	-26.0%
Serbia excluding Kosovo ¹	767	10.8	745	10.6	656	9.4	567	8.2	-	-	-
Kosovo ¹	721	40.6	721	40.4	702	39.2	612	34.4	441	24.8	-11.6%
Switzerland	609	7.3	555	6.6	516	6.1	435	5.1	387	4.5	-11.4%
Tajikistan	6 241	72.0	6 279	70.7	5 975	65.7	5 976	64.1	4 316	45.3	-11.0%
Turkey	12 417	15.6	12 046	14.9	11 786	14.3	11 401	13.7	8 925	10.6	-9.2%
Turkmenistan	2 340	41.3	2 232	38.8	2 636	45.1	2 863	48.2	2 610	43.3	1.2%
Ukraine	34 088	76.2	31 584	71.0	30 378	68.7	28 539	64.9	19 521	44.6	-12.5%
United Kingdom	6 175	9.3	5 5 6 7	8.3	5 075	7.6	5 132	7.6	4 458	6.6	-8.4%
•									1/11/7		-7.9%
Uzbekistan	18 4 4 1	58.7	19 329	60.5	18 496	57.0	18 774	56.9	14 127	42.2	
•	18 441 244 279 298 137	58.7 51.9 32.4	233 576 284 442	49.3 30.8	222 073 269 804	46.6 29.1	215 326 260 493	44.9 28.0	166 552 199 700	34.6 21.4	-9.7% -9.8%

Table 3. TB cases, notification rates per 100 000 population and mean annual change in rates, European Region, 2016-2020

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 4 October 2021. HPCs: 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).

			Unkn	own		Previousl	·		
Country/area	Nev	V ^a	previo hist	us TB	Previ treatr compl	nent	Oth previo trea	ously	All TB cases
	N	(%) ^b	N	(%) ^ь	N	(%) [,]	N	(%) [,]	N
EU/EEA				(,		(,		(
Austria	296	(76.3)	73	(18.8)	13	(3.4)	6	(1.5)	388
Belgium ^d	607	(73.1)	171	(20.6)	0	(0.0)	52	(6.3)	830
Bulgaria	820	(88.2)	0	(0.0)	67	(7.2)	43	(4.6)	930
Croatia	1	(0.5)	175	(95.6)	1	(0.5)	45	(3.3)	183
Cyprus	34	(94.4)	0	(0.0)	0	(0.0)	2	(5.6)	36
Czechia	351	(95.6)	0	(0.0)	9	(0.0)	7	(1.9)	367
Denmark ^d	205	(93.6)	0	(0.0)	9	(0.0)	14	(6.4)	219
Estonia									
	109	(87.9)	0	(0.0)	11	(8.9)	4	(3.2)	124
Finland	169	(97.1)	1	(0.6)	4	(2.3)	0	(0.0)	174
France	2 288	(49.7)	2 110	(45.8)	0	(0.0)	208	(4.5)	4 6 0 6
Germany	2 7 2 5	(66.0)	1 176	(28.5)	109	(2.6)	117	(2.8)	4 127
Greece	338	(85.4)	37	(9.3)	5	(1.3)	16	(4.0)	396
Hungary	359	(88.4)	0	(0.0)	25	(6.2)	22	(5.4)	406
Iceland	0	(0.0)	12	(100.0)	0	(0.0)	0	(0.0)	12
Ireland ^d	114	(47.5)	115	(47.9)	0	(0.0)	11	(4.6)	240
Italy	1597	(69.8)	566	(24.7)	0	(0.0)	124	(5.4)	2 287
Latvia	-	-	-	-	-	-	-	-	-
Liechtenstein	1	(50.0)	1	(50.0)	0	(0.0)	0	(0.0)	2
Lithuania	591	(81.4)	0	(0.0)	97	(13.4)	38	(5.2)	726
Luxembourg	28	(82.4)	4	(11.8)	0	(0.0)	2	(5.9)	34
Malta	98	(70.0)	42	(30.0)	0	(0.0)	0	(0.0)	140
Netherlands	593	(95.2)	0	(0.0)	21	(3.4)	9	(1.4)	623
Norwayd	144	(90.0)	0	(0.0)	0	(0.0)	16	(10.0)	160
Poland	2 912	(86.0)	0	(0.0)	238	(7.0)	238	(7.0)	3 388
Portugal	1 351	(93.5)	0	(0.0)	51	(3.5)	43	(7.0)	1445
Romania	6 019	(78.2)	0	(0.0)	1 174	(15.3)	505	(6.6)	7 698
Slovakia	133	(84.2)	4	(2.5)	16	(10.1)	5	(3.2)	158
Slovenia	70	(90.9)	1	(1.3)	4	(5.2)	2	(2.6)	77
Spain	1880	(61.8)	1069	(35.1)	0	(0.0)	95	(3.1)	3 0 4 4
Sweden	306	(93.3)	1	(0.3)	9	(2.7)	12	(3.7)	328
Subtotal EU/EEA	24 139	(72.8)	5 558	(16.8)	1 854	(5.6)	1 597	(4.8)	33 148
Non-EU/EEA									
Albania	223	(92.9)	-	-	17	(7.1)	0	(0.0)	240
Andorra	2	(100.0)	-	-	0	(0.0)	0	(0.0)	2
Armenia	369	(83.1)	-	-	25	(5.6)	50	(11.3)	444
Azerbaijan	2 558	(51.3)	-	-	1 125	(22.5)	1308	(26.2)	4 991
Belarus	1 171	(65.9)	-	-	343	(19.3)	264	(14.8)	1778
Bosnia and Herzegovina	322	(90.2)	-	-	35	(9.8)	0	(0.0)	357
Georgia	1 4 8 4	(80.6)	-	-	187	(10.2)	171	(9.3)	1 842
Israel	156	(98.7)	-	-	2	(1.3)	0	(0.0)	158
Kazakhstan	6 934	(69.2)	-	-	2 669	(26.6)	417	(4.2)	10 020
Kyrgyzstan	3 534	(72.3)	-	-	707	(14.5)	644	(13.2)	4 885
Monaco	0	(/2.)	-	-	-	-	-	(1).2)	
Montenegro	38	(95.0)	-	-	2	(5.0)	0	(0.0)	40
			-	-					
North Macedonia	130	(87.8)			13	(8.8)	5	(3.4)	148
Republic of Moldova	1 386	(72.7)	-	-	381	(20.0)	139	(7.3)	1 906
Russian Federation	47 399	(55.8)	-	-	11 324	(13.3)	26 233	(30.9)	84 956
San Marino	-	-	-	-	-	-	-	-	-
Serbia	412	(93.4)	-	-	27	(6.1)	2	(0.5)	441
Serbia excluding Kosovo ¹	-	-	-	-	-	-	-	-	-
Kosovo ¹	412	(93.4)	-	-	27	(6.1)	2	(0.5)	441
Switzerland	351	(90.7)	-	-	0	(0.0)	36	(9.3)	387
Tajikistan	3 759	(87.1)	-	-	389	(9.0)	168	(3.9)	4 316
Turkey	8 358	(93.6)	-	-	472	(5.3)	95	(1.1)	8 925
Turkmenistan	1 603	(61.4)	-	-	315	(12.1)	692	(26.5)	2 610
Ukraine	14 156	(72.5)	-	-	3 377	(12.1)	1 988	(10.2)	19 521
United Kingdom ^d	4 185	(93.9)	-	-	0	(0.0)	273	(6.1)	4 458
*									
Uzbekistan	10 893 109 423	(77.1)	-	(0, 0)	1 218	(8.6)	2 016	(14.3)	14 127
	119473	(65.7)	0	(0.0)	22 628	(13.6)	34 501	(20.7)	166 552
Subtotal non-EU/EEA Total European Region	133 562	(66.9)	5 558	(2.8)	24 482	(12.3)	36 098	(18.1)	199 700

Table 4. TB cases by history of previous TB treatment, European Region, 2020

Note: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. HPCs: high-priority countries. *For non-EU/EEA countries and areas, cases with unknown previous TB history are included among new TB cases. *Proportion of all TB cases. *Proportion of all previously treated TB cases. *Proport B 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).

		Pulmor	ary						Total
Country	Pulmonary		Pulmonar extrapulm	onary	Extrapulm		No site rep		TULAL
	N	(%)	N	(%)	N	(%)	N	(%)	N
EU/EEA									
Austria	251	(64.7)	44	(11.3)	93	(24.0)	0	(0.0)	388
Belgium	439	(52.9)	135	(16.3)	256	(30.8)	0	(0.0)	830
Bulgaria	696	(74.8)	50	(5.4)	184	(19.8)	0	(0.0)	930
Croatia	96	(52.5)	8	(4.4)	2	(1.1)	77	(42.1)	183
Cyprus	28	(77.8)	2	(5.6)	6	(16.7)	0	(0.0)	36
Czechia	294	(80.1)	27	(7.4)	46	(12.5)	0	(0.0)	367
Denmark	148	(67.6)	10	(4.6)	61	(27.9)	0	(0.0)	219
Estonia	96	(77.4)	19	(15.3)	9	(7.3)	0	(0.0)	124
Finland	118	(67.8)	0	(0.0)	56	(32.2)	0	(0.0)	174
France	3 140	(68.2)	0	(0.0)	1 423	(30.9)	43	(0.9)	4 6 0 6
Germany	2 341	(56.7)	562	(13.6)	1 161	(28.1)	63	(1.5)	4 127
Greece	264	(66.7)	60	(15.2)	50	(12.6)	22	(5.6)	396
Hungary	375	(92.4)	13	(3.2)	18	(4.4)	0	(0.0)	406
Iceland	8	(66.7)	0	(0.0)	3	(25.0)	1	(8.3)	12
Ireland	97	(40.4)	29	(12.1)	55	(22.9)	59	(24.6)	240
Italy	1574	(68.8)	69	(3.0)	644	(28.2)	0	(0.0)	2 287
Latvia	-	_	-	_	-	-	_	_	_
Liechtenstein	0	(0.0)	0	(0.0)	2	100	0	(0.0)	2
Lithuania	676	(93.1)	0	(0.0)	50	(6.9)	0	(0.0)	726
Luxembourg	25	(73.5)	1	(2.9)	8	(23.5)	0	(0.0)	34
Malta	79	(56.4)	20	(14.3)	41	(29.3)	0	(0.0)	140
Netherlands	248	(39.8)	86	(13.8)	284	(45.6)	5	(0.8)	623
Norway	76	(47.5)	20	(12.5)	61	(38.1)	3	(1.9)	160
Poland	3 220	(95.0)	17	(0.5)	151	(4.5)	0	(0.0)	3 388
Portugal	841	(58.2)	166	(11.5)	436	(30.2)	2	(0.1)	1445
Romania	6 169	(80.1)	486	(6.3)	1043	(13.5)	0	(0.0)	7 698
Slovakia	101	(63.9)	34	(21.5)	23	(14.6)	0	(0.0)	158
Slovenia	44	(57,1)	22	(28.6)	11	(14.3)	0	(0.0)	77
Spain	2 014	(66.2)	211	(6.9)	819	(26.9)	0	(0.0)	3 0 4 4
Sweden	182	(55.5)	25	(7.6)	121	(36.9)	0	(0.0)	328
Total EU/EEA	23 640	(71.3)	2 116	(6.4)	7 117	(21.5)	275	(0.8)	33 148

Table 5. TB cases by site of disease, EU/EEA, 2020

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

				Ne	v ^b and relay Pulmo		.5				Previously	treated	
Country/area	N	(%) '	N	(%)°	Labora	tory-	Clinica diagno		Extrapul	monary	case		All TB cases
				(%)*	N	(%) ^g	N	(%) ^g	N	(%) °	N	(%) '	N
EU/EEA													
Austria	382	(98.5)	289	(75.7)	259	(89.6)	30	(10.4)	93	(24.3)	6	(1.5)	388
Belgium ^h	778	(93.7)	539	(69.3)	482	(89.4)	57	(10.6)	239	(30.7)	52	(6.3)	830
Bulgaria	887	(95.4)	708	(79.8)	438	(61.9)	270	(38.1)	179	(20.2)	43	(4.6)	930
Croatia	177	(96.7)	175	(98.9)	139	(79.4)	36	(20.6)	2	(1.1)	6	(3.3)	183
Cyprus	34	(94.4)	28	(82.4)	25	(89.3)	3	(10.7)	6	(17.6)	2	(5.6)	36
Czechia	360	(98.1)	314	(87.2)	269	(85.7)	45	(14.3)	46	(12.8)	7	(1.9)	367
Denmark ^h	205	(93.6)	148	(72.2)	132	(89.2)	16	(10.8)	57	(27.8)	14	(6.4)	219
Estonia	120	(96.8)	112	(93.3)	106	(94.6)	6	(5.4)	8	(6.7)	4	(3.2)	124
Finland	174	(100.0)	118	(67.8)	107	(90.7)	11	(9.3)	56	(32.2)	0	(0.0)	174
France	4 398	(95.5)	3 029	(68.9)	2 133	(70.4)	896	(29.6)	1369	(31.1)	208	(4.5)	4 606
Germany	4 010	(97.2)	2 867	(71.5)	2 619	(91.3)	248	(8.7)	1143	(28.5)	117	(2.8)	4 127
Greece	380	(96.0)	333	(87.6)	317	(95.2)	16	(4.8)	47	(12.4)	16	(4.0)	396
Hungary	384	(94.6)	366	(95.3)	194	(53.0)	172	(47.0)	18	(4.7)	22	(5.4)	406
Iceland	12	(100.0)	9	(75.0)	120	(55.6)	4	(44.4)	3	(25.0)	0	(0.0)	12
Ireland ^h	229	(95.4) (94.6)	178	(77.7)	139	(78.1)	39	(21.9)	51	(22.3) (28.8)	11	(4.6)	240
Italy Latvia	2 163	(94.6)	1539	(71.2)	1 310	(85.1)	229	(14.9)	624	(20.8)	124	(5.4)	2 287
Liechtenstein	2	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	2	(100.0)	0	(0.0)	2
Lithuania	688	(100.0)	638	(0.0)	579	(90.8)	59	(0.0)	50	(100.0)	38	(0.0)	726
Luxembourg	32	(94.0)	24	(75.0)	23	(90.8)	1	(4.2)	8	(25.0)	2	(5.9)	34
Malta	140	(100.0)	99	(70.7)	52	(52.5)	47	(47.5)	41	(29.3)	0	(0.0)	140
Netherlands	614	(98.6)	333	(54.2)	286	(85.9)	47	(14.1)	281	(45.8)	9	(0.0)	623
Norway ^h	144	(90.0)	89	(61.8)	82	(92.1)	7	(7.9)	55	(38.2)	16	(10.0)	160
Poland	3 150	(93.0)	3 006	(95.4)	2 427	(80.7)	, 579	(19.3)	144	(4.6)	238	(7.0)	3 388
Portugal	1402	(97.0)	976	(69.6)	864	(88.5)	112	(11.5)	426	(30.4)	43	(3.0)	1 4 4 5
Romania	7 193	(93.4)	6 159	(85.6)	5 295	(86.0)	864	(14.0)	1 034	(14.4)	505	(6.6)	7 698
Slovakia	153	(96.8)	130	(85.0)	74	(56.9)	56	(43.1)	23	(15.0)	5	(3.2)	158
Slovenia	75	(97.4)	64	(85.3)	62	(96.9)	2	(3.1)	11	(14.7)	2	(2.6)	77
Spain	2 949	(96.9)	2 149	(72.9)	1592	(74.1)	557	(25.9)	800	(27.1)	95	(3.1)	3 0 4 4
Sweden	316	(96.3)	199	(63.0)	181	(91.0)	18	(9.0)	117	(37.0)	12	(3.7)	328
Subtotal EU/EEA	31 551	(95.2)	24 618	(78.0)	20 191	(82.0)	4 4 27	(18.0)	6 933	(22.0)	1 597	(4.8)	33 148
Non-EU/EEA						1							
Albania	240	(100.0)	201	(83.8)	147	(73.1)	54	(26.9)	39	(16.3)	0	(0.0)	240
Andorra	2	(100.0)	1	(50.0)	1	(100.0)	0	(0.0)	1	(50.0)	0	(0.0)	2
Armenia	394	(88.7)	285	(72.3)	216	(75.8)	69	(24.2)	109	(27.7)	50	(11.3)	444
Azerbaijan	3 683	(73.8)	3 016	(81.9)	2 309	(76.6)	707	(23.4)	667	(18.1)	1 308	(26.2)	4 991
Belarus	1 514	(85.2)	1 417	(93.6)	1 3 4 5	(94.9)	72	(5.1)	97	(6.4)	264	(14.8)	1 778
Bosnia and Herzegovina	357	(100.0)	319	(89.4)	240	(75.2)	79	(24.8)	38	(10.6)	0	(0.0)	357
Georgia	1 671	(90.7)	1 319	(78.9)	1 219	(92.4)	100	(7.6)	352	(21.1)	171	(9.3)	1 842
Israel	158	(100.0)	113	(71.5)	90	(79.6)	23	(20.4)	45	(28.5)	0	(0.0)	158
Kazakhstan	9 603	(95.8)	8 634	(89.9)	6 725	(77.9)	1909	(22.1)	969	(10.1)	417	(4.2)	10 020
Kyrgyzstan	4 2 4 1	(86.8)	3 369	(79.4)	2 252	(66.8)	1 117	(33.2)	872	(20.6)	644	(13.2)	4 885
Monaco	0	-	-	-	-	-	-	-	-	-	-	-	0
Montenegro	40	(100.0)	38	(95.0)	31	(81.6)	7	(18.4)	2	(5.0)	0	(0.0)	40
North Macedonia	143	(96.6)	121	(84.6)	105	(86.8)	16	(13.2)	22	(15.4)	5	(3.4)	148
Republic of Moldova	1 767	(92.7)	1 633	(92.4)	1 122	(68.7)	511	(31.3)	134	(7.6)	139	(7.3)	1906
Russian Federation	58 723	(69.1)	54 109	(92.1)	28 919	(53.4)	25 190	(46.6)	4 614	(7.9)	26 233	(30.9)	84 956
San Marino	-	-	-	-	-	-	-	-	-	-	-	_	-
Serbia	439	(99.5)	317	(72.2)	145	(45.7)	172	(54.3)	122	(27.8)	2	(0.5)	441
Serbia excluding Kosovo ¹	-	-	-	-	-	-	-	-	-	-	-	-	-
Kosovo ¹	439	(99.5)	317	(72.2)	145	(45.7)	172	(54.3)	122	(27.8)	2	(0.5)	441
Switzerland	351	(90.7)	260	(74.1)	244	(93.8)	16	(6.2)	91	(25.9)	36	(9.3)	387
Tajikistan	4 148	(96.1)	2 788	(67.2)	1902	(68.2)	886	(31.8)	1360	(32.8)	168	(3.9)	4 316
Turkey	8 830	(98.9)	5 724	(64.8)	4 478	(78.2)	1246	(21.8)	3 106	(35.2)	95	(1.1)	8 925
Turkmenistan	1 918	(73.5)	1 516	(79.0)	711	(46.9)	805	(53.1)	402	(21.0)	692	(26.5)	2 610
Ukraine	17 533	(89.8)	15 983	(91.2)	11 569	(72.4)	4 414	(27.6)	1 550	(8.8)	1988	(10.2)	19 521
United Kingdom ^h	4 185	(93.9)	2 253	(53.8)	1809	(80.3)	444	(19.7)	1932	(46.2)	273	(6.1)	4 458
Uzbekistan	12 111	(85.7)	7 487	(61.8)	4 779	(63.8)	2 708	(36.2)	4 624	(38.2)	2 016	(14.3)	14 127
Subtotal non-EU/EEA	132 051	(79.3)	110 903	(84.0)	70 358	(63.4)	40 545	(36.6)	21 148	(16.0)	34 501	(20.7)	166 552
Total European Region	163 602	(81.9)	135 521	(82.8)	90 549	(66.8)	44 972	(33.2)	28 08 1	(17.2)	36 098	(18.1)	199 700

Table 6. TB cases by history of previous TB treatment, site of disease and diagnostic method, according to WHO definitions,^a European Region, 2020

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

 *WHO (2013). Definitions and reporting framework for tuberculosis – 2013 revision. Updated December 2014 and January 2020. Geneva: World Health Organization (WHO/HTM/TB/ 2013.2; https://apps.who.int/iris/handle/10665/79199, accessed 16 February 2022).
 * Cases with unknown previous TB history are included among new TB ases.

 *Proportion of all TB cases.
 * Froportion of all TB cases.
 * Proportion of all TB cases.

 *Proportion of all new and relapse TB cases.
 * Confirmed by culture, smear and/or nucleic acid amplification test. Microscopy results from any specimen are included for EU/EEA countries.

 *Proportion of all 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).

		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 crite		Confirmed	cases ^b	Probable	cases	Possible	cases	All TB cases
	N	(%) '	N	(%)'	N	(%) '	N	(%) ^d	N	(%) ^d	N	(%) ^d	N
Austria	6	(2.1)	219	(77.9)	56	(19.9)	281	(72.4)	55	(14.2)	52	(13.4)	388
Belgium	9	(1.4)	382	(60.0)	246	(38.6)	637	(76.7)	112	(13.5)	81	(9.8)	830
Bulgaria	1	(0.2)	432	(99.8)	0	(0.0)	433	(46.6)	96	(10.3)	401	(43.1)	930
Croatia	0	(0.0)	146	(100.0)	0	(0.0)	146	(79.8)	1	(0.5)	36	(19.7)	183
Cyprus	0	(0.0)	22	(78.6)	6	(21.4)	28	(77.8)	3	(8.3)	5	(13.9)	36
Czechia	4	(1.4)	161	(56.5)	120	(42.1)	285	(77.7)	56	(15.3)	26	(7.1)	367
Denmark	0	(0.0)	102	(56.7)	78	(43.3)	180	(82.2)	6	(2.7)	33	(15.1)	219
Estonia	1	(0.9)	58	(54.2)	48	(44.9)	107	(86.3)	13	(10.5)	4	(3.2)	124
Finland	0	(0.0)	117	(83.0)	24	(17.0)	141	(81.0)	23	(13.2)	10	(5.7)	174
France	0	(0.0)	1879	(100.0)	0	(0.0)	1879	(40.8)	850	(18.5)	1877	(40.8)	4 606
Germany	115	(3.5)	1682	(51.6)	1462	(44.9)	3 259	(79.0)	404	(9.8)	464	(11.2)	4 127
Greece	0	(0.0)	321	(88.9)	40	(11.1)	361	(91.2)	13	(3.3)	22	(5.6)	396
Hungary	0	(0.0)	197	(100.0)	0	(0.0)	197	(48.5)	13	(3.2)	196	(48.3)	406
Iceland	0	(0.0)	4	(66.7)	2	(33.3)	6	(50.0)	0	(0.0)	6	(50.0)	12
Ireland	1	(0.6)	119	(70.0)	50	(29.4)	170	(70.8)	21	(8.8)	49	(20.4)	240
Italy	0	(0.0)	1490	(100.0)	0	(0.0)	1 4 9 0	(65.2)	343	(15.0)	454	(19.9)	2 287
Latvia	-	-	-	-	-	-	-	-	-	-	-	-	-
Liechtenstein	0	(0.0)	1	(100.0)	0	(0.0)	1	(50.0)	1	(50.0)	0	(0.0)	2
Lithuania	0	(0.0)	635	(100.0)	0	(0.0)	635	(87.5)	0	(0.0)	91	(12.5)	726
Luxembourg	0	(0.0)	28	(100.0)	0	(0.0)	28	(82,4)	1	(2.9)	5	(14.7)	34
Malta	0	(0.0)	43	(100.0)	0	(0.0)	43	(30.7)	25	(17.9)	72	(51.4)	140
Netherlands	8	(1.9)	252	(58.5)	171	(39.7)	431	(69.2)	77	(12.4)	115	(18.5)	623
Norway	1	(0.8)	91	(68,4)	41	(30.8)	133	(83.1)	13	(8.1)	14	(8.8)	160
Poland	0	(0.0)	2 017	(76.0)	638	(24.0)	2 655	(78,4)	50	(1.5)	683	(20.2)	3 388
Portugal	40	(4.6)	701	(81.1)	123	(14.2)	864	(59.8)	311	(21.5)	270	(18.7)	1445
Romania	42	(0.7)	4 172	(73.2)	1 4 8 3	(26.0)	5 697	(74.0)	699	(9.1)	1 302	(16.9)	7 698
Slovakia	1	(1.5)	52	(77.6)	14	(20.9)	67	(42.4)	26	(16.5)	65	(41.1)	158
Slovenia	0	(0.0)	49	(67.1)	24	(32.9)	73	(94.8)	3	(3.9)	1	(1.3)	77
Spain	67	(3.7)	1290	(71.3)	453	(25.0)	1 810	(59.5)	447	(14.7)	787	(25.9)	3 0 4 4
Sweden	0	(0.0)	199	(75.4)	65	(24.6)	264	(80.5)	29	(8.8)	35	(10.7)	328
Total EU/EEA	296	(1.3)	16 861	(75.6)	5 144	(23.1)	22 301	(67.3)	3 691	(11.1)	7 156	(21.6)	33 148

Table 7. TB cases according to EU case definition, EU/EEA, 2020

Note: WHO European Region 18 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	7	(1.8)	1.6	0.8	5	(1.3)	0.6	0.3	44	(11.5)	4.6	2.4	122	(31.9)	5.1	1.7	
Belgium ^b	22	(2.8)	3.6	1.4	26	(3.3)	2.0	1.6	140	(18.0)	10.7	2.2	304	(39.1)	10.2	1.7	
Bulgaria	8	(0.9)	2.5	0.6	16	(1.8)	2.3	1.3	37	(4.2)	6.0	0.6	247	(27.8)	13.1	1.6	
Croatia	1	(0.6)	0.5	N/F	1	(0.6)	0.3	N/F	8	(4.5)	1.8	3.0	34	(19.2)	3.2	2.1	
Cyprus	0	(0.0)	0.0	-	0	(0.0)	0.0	-	10	(29.4)	8.8	1.5	13	(38.2)	4.7	1.6	
Czechia	1	(0.3)	0.2	N/M	1	(0.3)	0.1	N/F	16	(4.4)	1.7	1.3	121	(33.6)	4.0	2.2	
Denmark ^b	3	(1.5)	1.0	0.5	7	(3.4)	1.1	2.5	24	(11.7)	3.3	2.0	76	(37.1)	5.2	1.1	
Estonia	0	(0.0)	0.0	-	1	(0.8)	0.7	N/M	3	(2.5)	2.4	N/F	22	(18.3)	6.0	2.7	
Finland	2	(1.1)	0.8	N/F	3	(1.7)	0.5	0.5	10	(5.7)	1.6	4.0	38	(21.8)	2.7	0.9	
France	88	(2.0)	2.4	1.0	103	(2.3)	1.2	0.9	838	(19.1)	10.5	2.0	1744	(39.7)	10.8	2.1	
Germany	84	(2.1)	2.1	1.2	79	(2.0)	1.1	0.9	691	(17.2)	8.1	2.1	1502	(37.5)	7.2	1.7	
Greece	4	(1.1)	0.9	3.0	13	(3.4)	1.2	5.5	74	(19.5)	6.7	9.6	136	(35.8)	5.0	3.5	
Hungary	0	(0.0)	0.0	-	5	(1.3)	0.5	1.5	23	(6.0)	2.2	0.8	94	(24.5)	3.4	1.2	
Iceland	2	(16.7)	9.4	1.0	0	(0.0)	0.0	-	2	(16.7)	4.2	1.0	4	(33.3)	3.7	0.3	
Ireland ^b	3	(1.3)	1.0	N/M	3	(1.3)	0.4	1.0	18	(7.9)	2.9	3.5	106	(46.3)	7.6	1.4	
Italy Latvia	40	(1.8)	1.8	0.7	60	(2.8)	1.1	1.6	330	(15.3)	5.7	2.5	802	(37.1)	5.7	1.7	
Latvia	-	-	-	-	-	-	-	-	-	(0, 0)	-	-	-	([0 0]	- 10.2	– N/F	
Liechtenstein	0	(0.0)	0.0		0	(0.0)	0.0		0	(0.0)	0.0		102	(50.0)	10.2		
Lithuania Luxembourg	3 0	(0.4) (0.0)	2.1 0.0	2.0	10 0	(1.5) (0.0)	3.6 0.0	0.7	22 7	<i>(3.2)</i> (21.9)	7.7 9.7	1.2 N/F	192 17	(27.9) (53.1)	26.7 8.8	2.5 16.0	
Malta	4	(0.0)	16.7	3.0	3	(0.0)	6.6	2.0	60	(42.9)	109.2	6.5	51	(36.4)	29.5	2.6	
Netherlands	4	(2.9)	0.7	1.0	13	(2.1)	0.0	0.1	89	(14.5)	4.2	0.5 1.4	278	(45.3)	6.5	1.2	
Norway ^b	6	(4.2)	2.1	1.0	5	(3.5)	0.7	1.5	26	(14.5)	3.9	1.4	59	(41.0)	4.1	0.5	
Poland	12	(0.4)	0.6	1.0	26	(0.8)	0.8	2.3	134	(4.3)	3.5	1.5	784	(24.9)	6.8	2.6	
Portugal	24	(1.7)	5.5	1.4	18	(1.3)	1.9	3.5	133	(9.5)	12.1	1.3	383	(24.9)	14.9	1.7	
Romania	100	(1.7)	10.0	1.4	161	(2.2)	7.9	1.1	612	(8.5)	30.2	1.2	2 226	(30.9)	42.1	2.2	
Slovakia	23	(15.0)	7.8	1.9	12	(7.8)	2.1	2.0	3	(2.0)	0.5	0.5	2 2 2 0	(17.0)	1.6	1.4	
Slovenia	0	(0.0)	0.0	-	0	(0.0)	0.0	-	3	(4.0)	1.5	2.0	12	(16.0)	2.1	1.0	
Spain	67	(2.3)	3.3	1.2	121	(4.1)	2.5	1.5	288	(9.8)	6.1	1.5	982	(33.3)	7.8	1.4	
Sweden	4	(1.3)	0.7	3.0	121	(3.8)	1.0	0.7	67	(21.2)	5.8	2.7	128	(40.5)	4.7	0.9	
Subtotal EU/EEA	514	(1.6)	2.4	1.1	704	(2.2)	1.5	1.2	3 712	(11.8)	7.8	1.8	10 504	(33.3)	9.0	1.9	
Non-EU/EEA		(110)			,	(=)				(110)	1.0			(,			
Albania	0	(0.0)	0.0	-	3	(1.3)	0.9	2.0	42	(17.5)	9.8	3.2	75	(31.3)	9.5	3.7	
Andorra	0	(0.0)	0.0	-	0	(0.0)	0.0	-	0	(0.0)	0.0	-	2	(100.0)	10.3	1.0	
Armenia	18	(4.6)	8.8	8.0	5	(1.3)	1.2	4.0	39	(9.9)	11.2	2.0	133	(33.8)	14.3	2.1	
Azerbaijan	20	(0.8)	2.4	1.0	71	(2.8)	4.6	1.0	588	(23.0)	43.4	1.7	933	(36.5)	28.1	2.0	
Belarus	1	(0.1)	0.2	0.0	3	(0.2)	0.3	0.5	48	(3.2)	5.5	1.1	567	(37.5)	20.0	2.7	
Bosnia and Herzegovina	0	(0.0)	0.0	-	1	(0.3)	0.3	0.0	43	(12.0)	11.3	1.4	78	(21.8)	9.0	1.6	
Georgia	6	(0.4)	2.2	0.5	42	(2.5)	7.8	0.8	222	(13.3)	49.2	1.6	653	(39.1)	59.6	1.8	
Israel	2	(1.3)	0.2	1.0	2	(1.3)	0.1	1.0	8	(5.1)	0.6	1.0	79	(50.0)	3.5	1.9	
Kazakhstan	64	(0.7)	3.3	0.7	239	(2.5)	6.7	0.7	1104	(11.5)	49.8	1.0	<i>3 9</i> 87	(41.5)	70.6	1.1	
Kyrgyzstan	41	(1.0)	5.4	1.4	139	(3.3)	10.1	1.1	801	(18.9)	79.0	1.3	1 403	(33.1)	72.1	1.3	
Monaco	0	-	-	-	0	-	-	-	0	-	-	-	0	-	-	-	
Montenegro	0	(0.0)	0.0	-	0	(0.0)	0.0	-	6	(15.0)	7.5	5.0	12	(30.0)	6.9	1.4	
North Macedonia	4	(2.8)	3.6	1.0	6	(4.2)	2.6	0.5	17	(11.9)	6.8	0.9	48	(33.6)	7.6	3.0	
Republic of Moldova	19	(1.1)	9.4	1.1	37	(2.1)	8.4	1.3	110	(6.2)	24.8	1.6	753	(42.6)	53.6	3.2	
Russian Federation	575	(1.0)	6.2	1.0	1 052	(1.8)	6.0	0.9	3 058	(5.2)	22.3	1.3	31 043	(52.9)	70.4	2.4	
San Marino	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Serbia	5	(1.1)	1.2	0.7	6	(1.4)	0.6	1.0	70	(15.9)	6.7	1.1	121	(27.4)	5.0	0.8	
Serbia excluding Kosovo ¹	-	-	-	-	-	-	-	-	-	(45.0)	-	-	-	(27.1)	-	-	
Kosovo ¹	5	(1.1)	0.1	0.7	6	(1.4)	0.1	1.0	70	(15.9)	0.8	1.1	121	(27.4)	28.9	0.8	
Switzerland	8	(2.3)	1.8	0.6	175	(2.3)	0.9	1.7	53	(15.1)	5.8	1.8	145	(41.3)	6.2	1.0	
Tajikistan	65	(1.6)	4.8	1.4	175	(4.2)	8.0	1.0	1 014	(24.4)	61.6	1.3	1 496	(36.1)	55.9	1.2	
Turkey	150	(1.7)	2.3	1.0	241	(2.7)	1.8	0.7	1 518	(17.2)	11.2	1.2	2 656	(30.1)	10.5	1.2	
Turkmenistan	25	(1.3)	3.8	1.0	25	(1.3)	2.1	1.0	274	(14.3)	29.0	1.0	844	(44.0)	44.8	1.4	
Ukraine	87	(0.5)	4.1	1.4	295	(1.7)	6.0	0.9	919	(5.2)	22.3	1.4	8 658	(49.4)	65.1	2.4	
United Kingdom ^b	56	(1.3)	1.4	1.0	97	(2.3)	1.2	1.0	507	(12.1)	6.5	1.4	1779	(42.5)	9.8	1.4	
Uzbekistan	239	(2.0)	7.0	1.2	1 494	(12.3)	24.1	1.1	1 306	(10.8)	24.6	1.1	3 728	(30.8)	34.4	1.2	
Subtotal non-EU/EEA	1 385 1 899	(1.1) (1.2)	4.0	1.1	3 941 4 645	(3.0) (2.9)	5.9 4.1	1.0 1.0	11 747 15 459	(9.0) (9.5)	20.2	1.3	59 193	(45.2)		1.9	
Total European Region		11.71	44	11	4 645	17.91	<u>41</u>	10	15 459	(9.5)	14.6	1.4	69 697	(42.9)	26.8	1.9	

Table 8. New and relapse TB cases, by age group and male-to-female ratio, European Region, 2020^a

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

	45	-64				> 64			Unknow	1	Total		
N	(%)	Rate per 100 000	M/F ratio	N	(%)	Rate per 100 000	M/F ratio	N	(%)	Rate per 100 000	N	M/F ratio	Country/area
													EU/EEA
113	(29.6)	4.4	2.4	91	(23.8)	5.4	1.8	0	(0.0)	-	382	1.9	Austria
168	(21.6)	5.4	2.2	118	(15.2)	5.4	1.9	0	(0.0)	-	778	1.9	Belgium ^b
352	(39.7)	18.0	2.7	227	(25.6)	15.1	1.6	0	(0.0)	-	887	1.9	Bulgaria
63	(35.6)	5.6	2.0	70	(39.5)	8.2	0.8	0	(0.0)	-	177	1.5	Croatia
10	(29.4)	4.8	4.0	1	(2.9)	0.7	N/M	0	(0.0)	-	34	1.8	Cyprus
127	(35.3)	4.5	3.7	94	(26.1)	4.4	1.5	0	(0.0)	-	360	2.3	Czechia
73	(35.6)	4.8	1.2	22	(10.7)	1.9	3.4	0	(0.0)	-	205	1.4	Denmark ^b
56	(46.7)	16.0	4.6	38	(31.7)	14.3	1.7	0	(0.0)	-	120	2.9	Estonia
35	(20.1)	2.5	1.9	86	(49.4)	7.0	1.3	0	(0.0)	-	174	1.4	Finland
886	(20.1)	5.1	1.7	739	(16.8)	5.4	1.5	0	(0.0)	-	4 398	1.8	France
858	(21.4)	3.5	2.4	795	(19.8)	4.4	1.5	1	(0.0)	-	4 010	1.8	Germany
72	(18.9)	2.4	3.5	76	(20.0)	3.2	1.5	5	(1.3)	1.5	380	3.3	Greece
160	(41.7)	6.1	2.5	102	(26.6)	5.3	1.2	0	(0.0)	-	384	1.6	Hungary
4	(33.3)	4.6	3.0	0	(0.0)	0.0	-	0	(0.0)	-	12	1.0	Iceland
56	(24.5)	4.6	1.5	43	(18.8)	6.0	2.3	0	(0.0)	-	229	1.6	Ireland ^b
525	(24.3)	2.9	2.0	404	(18.7)	2.9	1.5	2	(0.1)	1.0	2 163	1.8	Italy
-	-	-	-	-	-	-	-	-	-	-	-	-	Latvia
0	(0.0)	0.0	N/M	1	(50.0)	14.1	-	0	(0.0)	-	2	1.0	Liechtenstein
342	(49.7)	42.2	5.1	119	(17.3)	21.4	2.1	0	(0.0)	-	688	3.1	
5	(15.6)	2.9	4.0	3	(9.4)	3.3	N/F	0	(0.0)	-	32	15.0	Luxembourg
11	(7.9)	9.0	N/F	1	(0.7)	1.1	N/F	10	(7.1)	N/F	140	4.8	Malta
139	(22.6)	2.9	1.5	89	(14.5)	2.6	1.8	0	(0.0)	-	614	1.3	Netherlands
34	(23.6)	2.5	0.7	14	(9.7)	1.5	2.5	0	(0.0)	-	144	0.8	Norway ^b
1370	(43.5)	13.8	4.8	824	(26.2)	11.9	1.6	0	(0.0)	-	3 150	2.7	Poland
523	(37.3)	17.7	2.2	320	(22.8)	14.0	1.9	1	(0.1)	N/F	1 402	1.9	Portugal
2 990	(41.6)	56.2	4.7	1 104	(15.3)	30.1	1.7	0	(0.0)	-	7 193	2.6	Romania
46	(30.1)	3.1	3.6	43	(28.1)	4.8	0.6	0	(0.0)	-	153	1.5	Slovakia
22	(29.3)	3.7	4.5	38	(50.7)	9.0	1.0	0	(0.0)	-	75	1.5	Slovenia
844	(28.6)	6.1	2.3	645	(21.9)	7.0	1.9	2	(0.1)	N/F	2 9 4 9	1.7	Spain
60	(19.0)	2.4	0.8	45	(14.2)	2.2	1.3	0	(0.0)	-	316	1.1	Sweden
9 944	(31.5)	7.9	3.0	6 152	(19.5)	6.6	1.6	21	(0.1)	5.3	31 551		Subtotal EU/EEA
7777	(3113)	117	510	0 IJE	(1713)	010	110		(011)	515	51551	210	Non-EU/EEA
64	(26.7)	8.6	2.6	56	(23.3)	13.2	2.5	0	(0.0)	-	240	2.9	Albania
0	(0.0)	0.0	N/F	0	(0.0)	0.0	-	0	(0.0)	-	2	1.0	Andorra
144	(36.5)	19.9	5.9	55	(14.0)	15.7	2.7	0	(0.0)	-	394		Armenia
761	(29.7)	31.8	2.2	185	(7.2)	27.1	1.2	0	(0.0)	-	2 558	1.8	Azerbaijan
695	(45.9)	26.3	4.9	200	(13.2)	13.6	1.1	0	(0.0)	-	1 514	2.9	Belarus
118	(33.1)	12.2	2.4	117	(32.8)	19.9	1.3	0	(0.0)	-	357	1.6	Bosnia and Herzegovina
544	(32.6)	53.0	3.5	204	(12.2)	33.5	1.2	0	(0.0)	-	1 671	2.0	Georgia
31	(19.6)	1.9	1.6	36	(22.8)	3.4	1.6	0	(0.0)	-	158	1.7	Israel
3 0 6 4	(31.9)	77.5	1.1	1 145	(11.9)	77.2	0.9	0	(0.0)	-	9 603	1.0	Kazakhstan
1 276	(30.1)	113.3	1.8	581	(11.9)	188.4	1.1	0	(0.0)	-	4 241	1.4	Kyrgyzstan
0	()0.1)	-	-	0	-	-	-	0	(0.0)	-	4 2 4 1	-	Monaco
11	(27.5)	6.8	10.0	11	(27.5)	11.1	1.8	0	(0.0)	_	40		Montenegro
48	(33.6)	8.6	3.4	20	(14.0)	6.6	1.0	0	(0.0)	-	143		North Macedonia
704	(39.8)	67.7	4.3	144	(14.0)	28.6	2.2	0	(0.0)	-	1767		Republic of Moldova
18 090	(30.8)	46.7	3.2	4 500	(7.7)	19.9	1.2	405	(0.7)	3.7	58 723		Russian Federation
- 10 090	(50.0)	40.7	J.2 _	4 500	(/./)		-	405	(0.7)	_	-	2.5	San Marino
133	(30.2)	5.8	0.7	106	(24.0)	6.4	0.9	0	(0.0)	-	441		Serbia
-	(30.2)	5.0	0.7	- 100	(24.0)	- 0.4	- 0.9	-	(0.0)	_	441	0.0	Serbia excluding Kosovo
133	(30.2)	14.4	0.7	106	(24.0)	10.2	0.9	0	(0.0)	-	441	0.8	Kosovo ¹
87	(24.8)	3.5	2.1	50	(14.2)	3.0	1.1	0	(0.0)	-	351		Switzerland
991	(24.8)	73.0	1.0	407	(14.2)	134.2	0.9	0	(0.0)	-	4 148		Tajikistan
								0		-			Turkey
2 629 604	(29.8) (31.5)	14.8	1.8 2.1	1636	(18.5)	21.6	1.4 0.9	0	(0.0) (0.0)	-	8 830 1 918		Turkey Turkmenistan
		57.2		146	(7.6)	50.8						1.5	Ukraine
6 170	(35.2)	51.8	3.3	1 404	(8.0)	18.9 4.8	1.2 1.3	0 0	(0.0)	-	17 533	2.4	
1133	(27.1)	6.5	1.6	613	(14.6)				(0.0)		4 185	1.4	United Kingdom ^b
3 557	(29.4) (31.2)	58.7	1.4	1787	(14.8)	111.5	1.0	0 405	(0.0)	3.7	12 111	1.2 1.8	Uzbekistan
40 854 50 798	(31.2)	35.2 21.0	2.4	13 403 19 555	(10.2)	21.0	1.2		(0.3)		130 928		Subtotal non-EU/EEA Total European Region
	121.5	21.0	2.5	17 222	(12.0)	12.6	1.3	426	(0.3)	3.5	162 479	1.0	IVIAL EULODEAN KERION

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).

Native

(%)

N

Foreign

(%)

N

Unknown origin

(%)

N

All TB cases

388

830

930

183

36

367

219

124 174

4 6 0 6

4 127

396

406

240 2 287

-

726

2

12

	CITCEITON	N	(20)	N	(70)		(20)
EU/EEA							
Austria	Citizenship	173	(44.6)	215	(55.4)	0	(0.0)
Belgium	Citizenship	358	(43.1)	472	(56.9)	0	(0.0)
Bulgaria	Birthplace	928	(99.8)	2	(0.2)	0	(0.0)
Croatia	Birthplace	183	(100.0)	0	(0.0)	0	(0.0)
Cyprus	Birthplace	5	(13.9)	31	(86.1)	0	(0.0)
Czechia	Birthplace	241	(65.7)	126	(34.3)	0	(0.0)
Denmark	Birthplace	61	(27.9)	158	(72.1)	0	(0.0)
Estonia	Birthplace	88	(71.0)	36	(29.0)	0	(0.0)
Finland	Birthplace	106	(60.9)	66	(37.9)	2	(1.1)
France	Birthplace	1 377	(29.9)	2 719	(59.0)	510	(11.1)
Germany	Birthplace	1 1 3 2	(27.4)	2 817	(68.3)	178	(4.3)
Greece	Citizenship	156	(39.4)	240	(60.6)	0	(0.0)
Hungary	Citizenship	387	(95.3)	19	(4.7)	0	(0.0)
Iceland	Birthplace	1	(8.3)	11	(91.7)	0	(0.0)
Ireland	Birthplace	68	(28.3)	108	(45.0)	64	(26.7)
Italy	Birthplace	992	(43.4)	1273	(55.7)	22	(1.0)
Latvia	-	-	-	-	-	-	-
Liechtenstein	Birthplace	0	(0.0)	2	(100.0)	0	(0.0)
Lithuania	Birthplace	713	(98.2)	13	(1.8)	0	(0.0)
Luxembourg	Birthplace	5	(14.7)	29	(85.3)	0	(0.0)
Malta	Birthplace	3	(2.1)	137	(97.9)	0	(0.0)
Netherlands	Birthplace	164	(26.3)	451	(72.4)	8	(1.3)
Norway	Birthplace	30	(18.8)	130	(81.3)	0	(0.0)
Poland	Citizenship	3 272	(96.6)	116	(3.4)	0	(0.0)
Portugal	Birthplace	1051	(72.7)	393	(27.2)	1	(0.1)
Romania	Birthplace	7 666	(99.6)	32	(0.4)	0	(0.0)
Slovakia	Birthplace	152	(96.2)	6	(3.8)	0	(0.0)
Slovenia	Birthplace	51	(66.2)	26	(33.8)	0	(0.0)
Spain	Birthplace	1584	(52.0)	1 0 3 0	(33.8)	430	(14.1)
Sweden	Birthplace	44	(13.4)	284	(86.6)	0	(0.0)
Subtotal EU/EEA	-	20 991	(63.3)	10 942	(33.0)	1 215	(3.7)
Non-EU/EEA							

Table 9. TB cases by origin, European Region, 2020

Origin criterio

Country/area

Subtotal 18 HPCs	-	155 423	(98.0)	3 227	(2.0)	0	(0.0)	158 650
Total European Region	-	169 700	(90.0)	17 636	(9.4)	1 215	(0.6)	188 551
Subtotal non-EU/EEA	-	148 709	(95.7)	6 694	(4.3)	0	(0.0)	155 403
Uzbekistan	Birthplace	14 127	(100.0)	0	(0.0)	-	-	14 127
United Kingdom	Birthplace	1 335	(29.9)	3 12 3	(70.1)	-	-	4 458
Ukraine	Citizenship	19 490	(99.8)	31	(0.2)	-	-	19 521
Turkmenistan	Citizenship	2 610	(100.0)	0	(0.0)	-	-	2 610
Turkey	Birthplace	7 505	(84.1)	1 420	(15.9)	-	-	8 925
Tajikistan	-	-	-	-	-	-	-	-
Switzerland	Birthplace	111	(28.7)	276	(71.3)	-	-	387
Kosovo1	Birthplace	440	(99.8)	1	(0.2)	-	-	441
Serbia excluding Kosovo ¹	-	-	-	-	-	-	-	-
Serbia	-	440	(99.8)	1	(0.2)	-	-	441
San Marino	Birthplace	-	-	-	-	-	-	-
Russian Federation	Citizenship	83 453	(98.2)	1503	(1.8)	-	-	84 956
Republic of Moldova	Citizenship	1 898	(99.6)	8	(0.4)	-	-	1906
North Macedonia	Birthplace	141	(95.3)	7	(4.7)	-	-	148
Montenegro	Citizenship	36	(90.0)	4	(10.0)	-	-	40
Monaco	-	0	-	0	-	-	-	0
Kyrgyzstan	Birthplace	4 8 8 5	(100.0)	0	(0.0)	-	-	4 885
Kazakhstan	Citizenship	9 842	(98.2)	178	(1.8)	-	-	10 020
Israel	Birthplace	24	(15.2)	134	(84.8)	-	-	158
Georgia	-	-	-	-	-	-	-	-
Bosnia and Herzegovina	Birthplace	352	(98.6)	5	(1.4)	-	-	357
Belarus	Citizenship	1778	(100.0)	0	(0.0)	-	-	1778
Azerbaijan	-	-	-	-	-	-	-	-
Armenia	Citizenship	440	(99.1)	4	(0.9)	-	-	444
Andorra	Citizenship	2	(100.0)	0	(0.0)	-	-	2
Albania	Citizenship	240	(100.0)	0	(0.0)	-	-	240
Non-EU/EEA			(
Subtotal EU/EEA	-	20 991	(63.3)	10 942	(33.0)	1 215	(3.7)	33 148
Sweden	Birthplace	44	(13.4)	284	(86.6)	0	(0.0)	328
Spain	Birthplace	1584	(52.0)	1 0 3 0	(33.8)	430	(14.1)	3 044
Slovenia	Birthplace	51	(66.2)	26	(33.8)	0	(0.0)	77
Slovakia	Birthplace	152	(96.2)	6	(3.8)	0	(0.0)	158
Romania	Birthplace	7 666	(99.6)	32	(0.4)	0	(0.0)	7 698
Portugal	Birthplace	1 0 5 1	(72.7)	393	(27.2)	1	(0.1)	1445
Poland	Citizenship	3 272	(96.6)	116	(3.4)	0	(0.0)	3 388
Norway	Birthplace	30	(18.8)	130	(81.3)	0	(0.0)	160
Netherlands	Birthplace	164	(26.3)	451	(72.4)	8	(1.3)	623
Malta	Birthplace	3	(2.1)	137	(97.9)	0	(0.0)	140
Luxembourg	Birthplace	5	(14.7)	29	(85.3)	0	(0.0)	34
Litnuania	Birthplace	/13	(98.2)	13	(1.8)	0	(0.0)	/26

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

			Bacteriologically co	onfirmed	Cases with DST r	
Country/area	Source of data	Coverage	cases ^a N	(%)	least for F	() (%)
EU/EEA						(,
Austria	TESSy	National	227	(76.9)	220	(96.9)
Belgium	TESSy	National	461	(80.3)	441	(95.7)
Bulgaria	TESSy	National	424	(56.8)	243	(57.3)
Croatia	TESSy	National	99	(95.2)	84	(84.8)
Cyprus	TESSy	National	27	(90.0)	27	(100.0)
Czechia	TESSy	National	254	(79.1)	233	(91.7)
Denmark	TESSy	National	134	(83.8)	134	(100.0)
Estonia	TESSy	National	100	(87.0)	100	(100.0)
Finland	TESSy	National	103	(87.3)	102	(99.0)
France	TESSy	National	1388	(44.2)	47	(3.4)
Germany	TESSy	National	2 468	(85.0)	2 197	(89.0)
Greece	TESSy	National	299	(92.3)	289	(96.7)
Hungary	TESSy	National	196	(50.5)	177	(90.3)
Iceland Ireland	TESSy TESSy	National National	5	(62.5) (81.7)	5 98	(100.0) (95.1)
Italy	NRL-TME ^d	Partial	1390	(81.7)	1009	(72.6)
Latvia	-	Pdilidi -	1 390	(04.0)	-	(/ 2.0)
Liechtenstein	TESSy	– National	0	-	0	-
Lithuania	TESSy	National	617	(91.3)	617	(100.0)
Luxembourg	TESSy	National	23	(88.5)	22	(100.0)
Malta	TESSy	National	25	(27.3)	27	(100.0)
Netherlands	TESSy	National	264	(79.0)	27	(100.0)
Norway	TESSy	National	84	(87.5)	84	(100.0)
Poland	TESSy	National	2 573	(79.5)	2 350	(100.0)
Portugal	TESSy	National	724	(7).9)	467	(64.5)
Romania	TESSy	National	5 473	(82.2)	4 803	(87.8)
Slovakia	TESSy	National	65	(48.1)	64	(98.5)
Slovenia	TESSy	National	62	(93.9)	62	(100.0)
Spain	TESSy	National	1 4 2 0	(63.8)	665	(46.8)
Sweden	TESSy	National	180	(87.0)	180	(100.0)
Subtotal EU/EEA	-	-	19 190	(74.5)	14 997	(78.2)
Non-EU/EEA						
Albania	NRL-TME	National	147	(73.1)	138	(93.9)
Andorra	NRL-TME	National	1	(100.0)	1	(100.0)
Armenia	NRL-TME	National	251	(74.5)	246	(98.0)
Azerbaijan	NRL-TME	National	3 617	(82.6)	3 505	(96.9)
Belarus	NRL-TME	National	1 584	(95.5)	1 584	(100.0)
Bosnia and Herzegovina	NRL-TME	National	240	(72.3)	231	(96.3)
Georgia	NRL-TME	National	1 370	(92.9)	1 355	(98.9)
Israel	NRL-TME	National	90	(79.6)	90	(100.0)
Kazakhstan	NRL-TME	National	7 084	(78.3)	7 074	(99.9)
Kyrgyzstan	NRL-TME	National	2 635	(66.0)	2 439	(92.6)
Monaco	-	-	0	-	-	-
Montenegro	NRL-TME	National	31	(81.6)	31	(100.0)
North Macedonia	NRL-TME	National	105	(83.3)	91	(86.7)
Republic of Moldova	NRL-TME	National	1 261	(69.3)	1 207	(95.7)
Russian Federation	NRL-TME	National	45 055	(56.3)	42 022	(93.3)
San Marino	-	National	-	-	-	-
Serbia	NRL-TME	National	-	-	-	-
Serbia excluding Kosovo ¹	NRL-TME	National	-	-	-	-
Kosovo ¹	NRL-TME	National	-	-	-	-
Switzerland	NRL-TME	Subnational	271	(86.3)	171	(63.1)
Tajikistan	NRL-TME	National	2 023	(69.2)	2 023	(100.0)
Turkey	NRL-TME	National	4 523	(78.0)	4 074	(100.0)
Turkmenistan	-	-		-		-
Ukraine	NRL-TME	National	13 177	(73.6)	12 818	(97.3)
United Kingdom	TESSy	National	1927	(79.7)	1622	(84.2)
Uzbekistan	NRL-TME	National	5 713	(60.1)	5 713	(100.0)
Subtotal non-EU/EEA	-	-	91 105	(64.0)	86 435	(100.0) (94.9)
Total European Region	-	-	110 295	(65.6)	101 432	(92.0)
	-	-	94 907	(64.6)	89 823	(92.0)

Table 10. Drug-resistance surveillance of bacteriologically confirmed^a pulmonary TB cases, European Region, 2020

 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.

 HPCs: high-priority countries.

 MDR-TB: multidrug-resistant tuberculosis.

 N: no.

 RIE: riftamplcin.

 TESSy: The European Surveillance System.

 TME: WHO global TB data-collection system.

 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 resistan	t to RIF	MDR-TB cas	es ^b	All pulmonary TB cases	Reporting	
N	(%)	N	(%)	N	completeness	
						EU/EEA
2	(0.9)	1	(0.5)	295	Y	Austria
9	(2.0)	7	(1.6)	574	Y	Belgium
12	(4.9)	9	(3.8)	746	Y	Bulgaria
1	(1.2)	1	(1.2)	104	Y	Croatia
0	(0.0)	0	(0.0)	30	Y	Cyprus
11	(4.7)	11	(4.7)	321	Y	Czechia
2	(1.5)	2	(1.5)	160	Y	Denmark
19	(19.0)	19	(19.4)	115	Ŷ	Estonia
0	(0.0)	0	(0.0)	118	Y	Finland
47	(100.0)	47	(100.0)	3 140	Y	France
69	(3.1)	57	(2.6)	2 903	Y	Germany
7	(2.4)	5	(1.7)	324	Y	Greece
11	(6.2)	7	(4.0)	388	Y	Hungary
0	(0.0)	0	(0.0)	8	Y	Iceland
0	(0.0)	0	(0.0)	126	Y	Ireland
39	(3.9)	34	(3.4)	1643	N	Italy
	-	-	-		N	Latvia
0	-	0	-	0	Y	Liechtenstein
104	(16.9)	103	(16.7)	676	Ŷ	Lithuania
0	(0.0)	0	(0.0)	26	Y	Luxembourg
0	(0.0)	0	(0.0)	99	Y	Malta
4	(1.6)	3	(1.2)	334	Y	Netherlands
2	(2.4)	1	(1.2)	96	Y	Norway
40	(1.7)	36	(1.5)	3 237	Y	Poland
7	(1.5)	6	(1.3)	1007	Y	Portugal
244	(5.1)	203	(4.2)	6 655	Y	Romania
1	(1.6)	1	(1.6)	135	Y	Slovakia
1	(1.6)	0	(0.0)	66	Y	Slovenia
12	(1.8)	8	(1.2)	2 225	Y Y	Spain
5	(2.8)	5	(2.8)	207		Sweden
649	(4.3)	566	(3.8)	25 758	-	Subtotal EU/EEA
4	(2.9)	-	-	201	Ŷ	Non-EU/EEA Albania
0	(0.0)	0	(0.0)	201	Ŷ	Andorra
52	(21.1)	49	(21.5)	337	Ŷ	Armenia
701	(20.0)	122	(10.5)	4 380	Y	Azerbaijan
825	(52.1)	787	(49.7)	1 658	Ŷ	Belarus
0	(0.0)	0	(4).7)	332	Ŷ	Bosnia and Herzegovina
191	(14.1)	165	(14.0)	1 475	Y	Georgia
5	(14.1)	5	(14.0)	1475	Y	Israel
2 859	(40.4)	2 328	(32.9)	9 051	Ŷ	Kazakhstan
870	(35.7)	715	(29.3)	3 992	Y	Kyrgyzstan
-		-	(27.3)	5 732	-	Monaco
0	(0.0)	0	(0.0)	38	Y	Montenegro
2	(0.0)	0	(0.0)	126	Y	North Macedonia
(12)	(34.2)	275	(30.8)	1 819	Ŷ	Republic of Moldova
413 21 963	(52.3)	20 569	(48.9)	79 963	Y	Russian Federation
21705	(52.5)	20 507	(40.))	-	-	San Marino
-	-	-	-	-	Ν	Serbia
-	-	-	-	-	N	Serbia excluding Kosovo
-	-	-	-	-	N	Kosovo ¹
4	(2.3)	0	(0.0)	314	N	Switzerland
555	(27.4)	324	(19.7)	2 925	Y	Tajikistan
127	(27.4)	108	(19.7)	5 802	r Y	Turkey
127	-	-	(2./)	5 002	r N	Turkmenistan
4 177	(32.6)	3 076	(24.0)	- 17 915	Y	Ukraine
35	(32.0)	25	(24.0)	2 419	Y	United Kingdom
1 400	(2.2)	1 394	(1.5)	9 503	Υ	Uzbekistan
34 183	(24.5)	29 942	(36.2)	9 503 142 364	r _	Subtotal non-EU/EEA
34 832	(34.3)	30 508	(31.2)	168 122	-	Total European Region

*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. *Includes cases that are MDR but that also meet the pre-XDR or XDR case definitions (pre-XDR and XDR cases have not been excluded). *Data are considered complete when national coverage is 100% OR culture results are available for 90% of all cases, and 50% of all cases are culture-positive, and 75% of them have DST results, and external quality-assessment results have been accurate in 95% of samples of reported year. *Laboratory-related data from taly are reported by the NRL and may differ from data shown elsewhere in this report. *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 case DST result		New RR/I case		Ne bacteriol confir pulmon cas	ogically med ary TB	New pulmo case		Previously cases wi results	th DST	Previously RR/MDR-1		Previo trea bacteriol confin pulmon cas	ted ogically rmed ary TB	Previo treat pulmon case	ted ary TB
	N	(%) ⁴	N	(%) °	N	(%) f	N	(%) ^s	N	(%) ⁴	N	(%) °	N	(%) f	N	(%) ^s
EU/EEA																
Austria	173	(97.2)	0	(0.0)	178	(80.2)	222	(92.5)	5	(100.0)	1	(20.0)	5	(27.8)	18	(7.5)
Belgium ^k	320	(96.4)	2	(0.6)	332	(79.6)	417	(92.3)	22	(91.7)	0	(0.0)	24	(68.6)	35	(7.7)
Bulgaria	207	(56.1)	5	(2.4)	369	(57.2)	645	(86.5)	36	(65.5)	4	(11.1)	55	(54.5)	101	(13.5)
Croatia	0	(0.0)	0	(0.0)	1	(100.0)	1	(12.5)	6	(85.7)	1	(16.7)	7	(100.0)	7	(87.5)
Cyprus	25	(100.0)	0	(0.0)	25	(89.3)	28	(93.3)	2	(100.0)	0	(0.0)	2	(100.0)	2	(6.7)
Czechia	223	(91.8)	8	(3.6)	243	(78.9)	308	(96.0)	10	(90.9)	3	(30.0)	11	(84.6)	13	(4.0)
Denmark ^k	127	(100.0)	1	(0.8)	127	(84.7)	150	(93.8)	7	(100.0)	1	(14.3)	7	(70.0)	10	(6.3)
Estonia	89	(100.0)	16	(18.0)	89	(88.1)	101	(87.8)	11	(100.0)	3	(27.3)	11	(78.6)	14	(12.2)
Finland	100	(99.0)	0	(0.0)	101	(88.6)	114	(96.6)	2	(100.0)	0	(0.0)	2	(50.0)	4	(3.4)
France	20	(2.9)	20	(100.0)	685	(45.5)	1507	(90.8)	11	(16.2)	11	(100.0)	68	(44.4)	153	(9.2)
Germany	1 553	(90.9)	33	(100.0)	1708	(87.0)	1964	(91.6)	95	(80.5)	5	(5.3)	118	(65.2)	181	(8.4)
Greece	251	(96.9)	5	(2.0)	259	(91.8)	282	(94.9)	14	(93.3)	1	(7.1)	15	(100.0)	15	(5.1)
	156	(90.9)	6	(3.8)	172	(50.3)	342	(88.1)	21	(87.5)	5	(23.8)	24	(52.2)	46	(11.9)
Hungary	0	(90.7)	0	(0.0)	0	(50.5)	0		0	(0.0)	0	(0.0)	0	(0.0)	40	
Iceland			0					(0.0)			0				7	(0.0)
Ireland ^k	66	(98.5)		(0.0)	67	(82.7)	81	(92.0)	6	(100.0)		(0.0)	6	(85.7)		(8.0)
Italy	983	(100.0)	33	(3.4)	983	(90.5)	1086	(91.3)	26	(32.5)	6	(23.1)	80	(76.9)	104	(8.7)
Latvia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Liechtenstein	0	(0.0)	0	(0.0)	0	-	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Lithuania	483	(100.0)	61	(12.6)	483	(89.1)	542	(80.2)	134	(100.0)	43	(32.1)	134	(100.0)	134	(19.8)
Luxembourg	18	(94.7)	0	(0.0)	19	(90.5)	21	(91.3)	1	(100.0)	0	(0.0)	1	(50.0)	2	(8.7)
Malta	18	(100.0)	0	(0.0)	18	(25.4)	71	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Netherlands	243	(95.3)	4	(1.6)	255	(79.4)	321	(96.1)	7	(77.8)	0	(0.0)	9	(69.2)	13	(3.9)
Norway ^k	76	(100.0)	2	(2.6)	76	(88.4)	86	(89.6)	8	(100.0)	0	(0.0)	8	(80.0)	10	(10.4)
Poland	2 017	(92.0)	29	(1.4)	2 192	(79.1)	2 770	(85.6)	333	(87.4)	11	(3.3)	381	(81.6)	467	(14.4)
Portugal	439	(64.8)	4	(0.9)	677	(72.1)	939	(93.2)	28	(59.6)	3	(10.7)	47	(69.1)	68	(6.8)
Romania	3 608	(87.8)	85	(2.4)	4 109	(81.6)	5 038	(75.7)	1 195	(87.6)	159	(13.3)	1364	(84.4)	1 617	(24.3)
Slovakia	51	(98.1)	0	(0.0)	52	(46.8)	111	(84.7)	11	(100.0)	1	(9.1)	11	(55.0)	20	(15.3)
Slovenia	57	(100.0)	1	(1.8)	57	(96.6)	59	(90.8)	4	(100.0)	0	(0.0)	4	(66.7)	6	(9.2)
Spain	627	(68.9)	11	(1.8)	910	(68.9)	1 3 2 0	(94.6)	30	(58.8)	1	(3.3)	51	(67.1)	76	(5.4)
Sweden	169	(100.0)	4	(2.4)	169	(87.6)	193	(93.7)	10	(100.0)	1	(10.0)	10	(76.9)	13	(6.3)
Subtotal EU/EEA	12 099	(84.3)	335	(2.8)	14 356	(76.7)	18 719	(85.7)	2 035	(82.9)	260	(12.8)	2 455	(78.3)	3 136	(14.4)
Non-EU/EEA									Ì							
Albania	125	(93.3)	1	(0.8)	134	(72.4)	185	(92.0)	13	(100.0)	3	(23.1)	13	(81.3)	16	(8.0)
Andorra	1	(100.0)	0	(0.0)	1	(100.0)	1	(100.0)	0	-	0	-	0	_	0	_
Armenia	198	(99.5)	28	(14.1)	199	(75.7)	263	(78.0)	48	(92.3)	24	(50.0)	52	(70.3)	74	(22.0)
Azerbaijan	1 2 4 5	(93.5)	149	(12.0)	1331	(68.1)	1954	(44.6)	2 260	(98.9)	552	(24.4)	2 286	(94.2)	2 426	(55.4)
Belarus	1 015	(100.0)	401	(39.5)	1 015	(93.6)	1 084	(65.4)	569	(100.0)	424	(74.5)	569	(99.1)	574	(34.6)
Bosnia and Herzegovina	208	(97.7)	407	(0.0)	213	(75.0)	284	(85.5)	23	(85.2)	0	(0.0)	27	(56.3)	48	(14.5)
Georgia	1 0 6 4	(99.8)	114	(10.7)	1066	(92.2)	1 156	(78.3)	291	(95.7)	77	(26.5)	304	(95.0)	320	(21.7)
Israel	89	(100.0)	5	(5.6)	89	(80.2)	111	(98.2)	291	(90.7)	0	(20.)	504	(95.0)	2	(1.8)
Kazakhstan	4 858	(100.0)	1 758	(36.2)	4 862	(80.2)	6 051	(66.9)	2 216	(99.7)	1 101	(49.7)	2 222	(74.1)	3 000	(33.1)
		(99.9)		(28.3)		(80.4)	2 725	(68.3)				(49.7)		(74.1)		(33.1)
Kyrgyzstan Monoco	1 741	(92.0)	493		1 892	(09.4)	2725	(0ð. <i>3)</i>	698	(93.9)	377	(54.0)	743	(58.6)	1 267	()1.7)
Monaco	-	(100.0)	-	-	-	(00 ()	-	(0 4 7)	-	(100.0)	-	(0, 0)	-	(100.0)	-	(5.2)
Nontenegro	29	(100.0)	0	(0.0)	29	(80.6)	36	(94.7)	2	(100.0)	0	(0.0)	2	(100.0)	2	(5.3)
North Macedonia	81	(85.3)	1	(1.2)	95	(85.6)	111	(88.1)	10	(100.0)	1	(10.0)	10	(66.7)	15	(11.9)
Republic of Moldova	840	(95.3)	218	(26.0)	881	(69.7)	1264	(69.5)	367	(96.6)	195	(53.1)	380	(68.5)	555	(30.5)
Russian Federation	21 099	(92.5)	7 657	(36.3)	22 811	(52.6)	43 357	(54.2)	20 923	(94.1)	14 306	(68.4)	22 244	(60.8)	36 606	(45.8)
San Marino	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Serbia excluding Kosovo ¹	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kosovo1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Switzerland	171	(90.5)	4	(2.3)	189	(72.7)	260	(82.8)	0	(0.0)	0	-	27	(50.0)	54	(17.2)
Tajikistan	1 683	(100.0)	408	(24.2)	1 683	(67.6)	2 488	(85.1)	340	(100.0)	147	(43.2)	340	(77.8)	437	(14.9)
Furkey	3 777	(90.5)	94	(2.5)	4 172	(78.0)	5 346	(92.1)	297	(84.6)	33	(11.1)	351	(77.0)	456	(7.9)
Turkmenistan	-	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-
Jkraine	8 793	(97.2)	2 515	(28.6)	9 0 4 2	(70.6)	12 813	(71.5)	4 0 2 5	(97.3)	1662	(41.3)	4 135	(81.0)	5 102	(28.5)
Jnited Kingdom ^k	1546	(99.1)	31	(1.2)	1 6 9 3	(75.9)	2 253	(92.7)	76	(96.8)	4	(2.5)	118	(62.7)	166	(7.3)
Uzbekistan	3 946	(100.0)	721	(18.3)	3 946	(61.2)	6 451	(67.9)	1 767	(100.0)	679	(38.4)	1 767	(57.9)	3 052	(32.1)
Subtotal non-EU/EEA	52 509	(94.9)	14 598	(27.8)	55 343	(62.8)	88 193	(61.9)	33 926	(95.3)	19 585	(57.7)	35 591	(65.7)	54 172	(38.1)
Fotal European Region	64 608	(94.5)	14 933	(23.1)	69 699	(65.2)	106 912	(65.1)	35 961	(94.5)	19 845	(55.2)	38 046	(66.4)	57 308	(34.9)
Subtotal 18 HPCs	54 646	(92.7)	14 723	(25.1)	57 950	(63.5)	91 278	(62.1)	35 901	(94.5)	19 645	(55.2)	36 957	(66.3)	55 735	(37.9)

Table 11. Drug-resistance surveillance of bacteriologically confirmed^a pulmonary TB cases by previous TB treatment history, European Region, 2020

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 DST or resistance prediction. DST: drug-susceptibility testing. HPCs: high-priority countries. RIF: rifampicin. RR/MDR: rifampicin-resitant and multidrug-resistant (tuberculosis). TESSy: The European Surveillance System. "Bacteriologically confirmed cases – cases with positive identification for *Mycobacterium tuberculosis* complex confirmed by culture and/or line probe assay for non-EU/EEA countries and areas. For EU/EEA countries: ulture-positive OR microscopy-positive and nucleic acid amplification test-positive cases. "Pulmonary TB cases with unknown previous TB treatment history are excluded. "All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

Total cas DST resul		Total RR/MD	R-TB cases	To bacteriol confir pulmon cas	ogically med ary TB	Total puli TB ca		
N	(%) ^h	N	(%) ⁱ	N	(%) ^s	N	(%) ^j	
								EU/EEA
178	(97.3)	2	(0.6)	183	(76.3)	240	(61.9)	Austria
342	(96.1)	3	(0.6)	356	(78.8)	452	(54.5)	Belgium ^k
243	(57.3)	12	(3.7)	424	(56.8)	746	(80.2)	Bulgaria
6	(75.0)	1	(16.7)	8	(100.0)	8	(4.4)	Croatia
27	(100.0)	0	(0.0)	27	(90.0)	30	(83.3)	Cyprus
233	(91.7)	11	(4.7)	254	(79.1)	321	(87.5)	Czechia
134	(100.0)	2	(1.5)	134	(83.8)	160	(73.1)	Denmark ^k
100	(100.0)	19	(19.0)	100	(87.0)	115	(92.7)	Estonia
102	(99.0)	0	(0.0)	103	(87.3)	118	(67.8)	Finland
31	(4.1)	31	(100.0)	753	(45.4)	1660	(36.0)	France
1648	(90.3)	38	(2.3)	1826	(85.1)	2 145	(52.0)	Germany
265	(96.7)	6	(2.3)	274	(92.3)	297	(75.0)	Greece
177	(90.3)	11	(6.2)	196	(50.5)	388	(95.6)	
0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	Iceland
72	(98.6)	0	(0.0)	73	(83.0)	88	(36.7)	Ireland ^k
1009	(94.9)	39	(3.9)	1063	(89.3)	1 190	(52.0)	Italy
-	-	-	-	-	-	-	-	Latvia
0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	Liechtenstein
617	(100.0)	104	(16.9)	617	(91.3)	676	(93.1)	Lithuania
19	(95.0)	0	(0.0)	20	(87.0)	23	(67.6)	Luxembourg Malta
18	(100.0)	0	(0.0)	18	(25.4)	71	(50.7)	
250 84	(94.7) (100.0)	4	(1.6)	264 84	(79.0) (87.5)	334 96	(53.6)	Netherlands Norway ^k
2 350	(100.0)	40	(2.4)		(87.5)	3 237	(60.0) (95.5)	Poland
467	(64.5)	7	(1.7)	2 573 724	(79.5)	1007	(69.7)	Portugal
487	(87.8)	244	(1.5)	5 473	(71.9)	6 655	(86.5)	Romania
62	(98.4)	1	(1.6)	63	(48.1)	131	(82.9)	Slovakia
61	(100.0)	1	(1.6)	61	(93.8)	65	(84.4)	Slovenia
657	(68.4)	12	(1.8)	961	(68.8)	1396	(45.9)	Spain
179	(100.0)	5	(2.8)	179	(86.9)	206	(62.8)	Sweden
14 134	(84.1)	595	(4.2)	16 811	(76.9)	21 855	(66.0)	Subtotal EU/EEA
								Non-EU/EEA
138	(93.9)	4	(2.9)	147	(73.1)	201	(83.8)	Albania
1	(100.0)	0	(0.0)	1	(100.0)	1	(50.0)	Andorra
246	(98.0)	52	(21.1)	251	(74.5)	337	(75.9)	Armenia
3 505	(96.9)	701	(20.0)	3 617	(82.6)	4 380	(87.8)	Azerbaijan
1 584	(100.0)	825	(52.1)	1 584	(95.5)	1 658	(93.3)	Belarus
231	(96.3)	0	(0.0)	240	(72.3)	332	(93.0)	Bosnia and Herzegovina
1 355	(98.9)	191	(14.1)	1 370	(92.8)	1 476	(80.2)	Georgia
90	(100.0)	5	(5.6)	90	(79.6)	113	(71.5)	Israel
7 074	(99.9)	2 859	(40.4)	7 084	(78.3)	9 051		Kazakhstan
2 439	(92.6)	870	(35.7)	2 635	(66.0)	3 992		Kyrgyzstan
-	-	-	-	-	-	0	-	Monaco
31	(100.0)	0	(0.0)	31	(81.6)	38	(95.0)	
91	(86.7)	2	(2.2)	105	(83.3)	126	(85.1)	
1207	(95.7)	413	(34.2)	1 2 6 1	(69.3)	1 819	(95.4)	Republic of Moldova
42 022	(93.3)	21 963	(52.3)	45 055	(56.3)	79 963	(94.1)	
-	-	-	-	-	-	-	-	San Marino
-	-	-	-	-	-	-	-	Serbia
-	-	-	-	-	-	-	-	Serbia excluding Kosovo ¹
-	-	-	(2, 2)	-	-	-		Kosovo ¹
171	(79.2) (100.0)	4	(2.3)	216	(68.8)	314	(81.1)	Switzerland Tajikistan
2 023		555	(27.4)	2 023	(69.2)	2 925	(67.8) (65.0)	,
4 074	(90.1)	127	(3.1)	4 523	(78.0)	5 802	(65.0)	Turkey Turkmenistan
- 12 818	- (97.3)	4 177	(32.6)	- 13 177	- (73.6)	- 17 915	(91.8)	Ukraine
12 818	(97.3)	35	(32.6)	1 811	(73.6)	2 419	(53.3)	
	(98.9)		(1.2)		(74.9) (60.1)		(67.3)	Uzbekistan
5 713		1 400	(24.5)	5 713 90 934	(60.1)	9 503 142 365		Subtotal non-EU/EEA
86 / 25								
86 435 100 569	(95.1) (93.3)	34 183 34 778	(34.6)	107 745	(65.6)	164 220	(83.5)	· · · · · · · · · · · · · · · · · · ·

⁴ Includes cases that are RR/MDR but that also meet the pre-XDR or XDR case definitions (pre-XDR and XDR cases does not been excluded).
 ⁴ Proportion of bacteriologically confirmed pulmonary TB cases with DST results with the respective previous TB treatment history.
 ⁶ Proportion of all pulmonary TB cases. For EU/EEA, excluding the cases with unknown previous TB treatment history.
 ⁸ Proportion of all bacteriologically confirmed pulmonary TB cases with DST results. For EU/EEA, excluding the cases with unknown previous TB treatment history.
 ⁸ Proportion of all bacteriologically confirmed pulmonary TB cases with unknown previous TB treatment history.
 ⁸ Proportion of all bacteriologically confirmed pulmonary TB cases with DST results. For EU/EEA, excluding the cases with unknown previous TB treatment history.
 ¹ Proportion of all bacteriologically confirmed pulmonary TB cases with DST results. For EU/EEA, excluding the cases with unknown previous TB treatment history.
 ¹ 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.
 ¹ Proportion of all TB cases.
 ¹ Proportion of all TB cases.
 ¹ Previous TB history is defined by previous diagnosis.
 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).

Country/area	Source of data	Coverage	Bacteriolo confirmed p RR/MDR-T	Ilmonary	Cases with D for a fluoroqui	nv	Pre-XDR-TB	cases
			N	(%)	N	(%)	N	(%)
EU/EEA								
Austria	TESSy	National	2	(0.9)	2	(100.0)	0	(0.0)
Belgium	TESSy	National	9	(2.0)	5	(55.6)	1	(20.0)
Bulgaria	TESSy	National	12	(5.0)	10	(83.3)	2	(20.0)
Croatia	TESSy	National	1	(1.2)	0	(0.0)	0	(0.0)
Cyprus	TESSy	National	0	(0.0)	0	(0.0)	0	(0.0)
Czechia	TESSy	National	11	(4.7)	7	(63.6)	4	(57.1)
Denmark	TESSy	National	2	(1.5)	2	(100.0)	0	(0.0)
Estonia	TESSy	National	19	(19.4)	19	(100.0)	6	(31.6)
Finland	TESSy	National	0	(0.0)	0	(0.0)	0	(0.0)
France	TESSy	National	47	(100.0)	41	(87.2)	8	(19.5)
Germany	TESSy	National	69	(3.1)	51	(73.9)	10	(19.6)
Greece	TESSy	National	7	(2.4)	3	(42.9)	0	(0.0)
Hungary	TESSy	National	11	(6.3)	10	(90.9)	0	(0.0)
Iceland	TESSy	National	0	(0.0)	0	(0.0)	0	(0.0)
Ireland	TESSy	National	0	(0.0)	0	(0.0)	0	(0.0)
Italy	NRL-TME	Partial	39	(3.9)	34	(87.2)	8	(23.5)
Latvia	-	-	-	-	-	-	-	-
Liechtenstein	TESSy	National	0	(0.0)	0	(0.0)	0	(0.0)
Lithuania	TESSy	National	104	(16.9)	104	(100.0)	34	(32.7)
Luxembourg	TESSy	National	0	(0.0)	0	(0.0)	0	(0.0)
Malta	TESSy	National	0	(0.0)	0	(0.0)	0	(0.0)
Netherlands	TESSy	National	4	(1.6)	4	(100.0)	0	(0.0)
Norway	TESSy	National	2	(2.4)	2	(100.0)	0	(0.0)
Poland	TESSy	National	40	(1.7)	14	(35.0)	12	(85.7)
Portugal	TESSy	National	7	(1.5)	3	(42.9)	0	(0.0)
Romania	TESSy	National	244	(5.1)	96	(39.3)	27	(28.1)
Slovakia	TESSy	National	1	(1.6)	1	(100.0)	0	(0.0)
Slovenia	TESSy	National	1	(1.6)	1	(100.0)	0	(0.0)
Spain Sweden	TESSy	National	12	(1.8)	3	(25.0)	1	(33.3)
	TESSy	National	5	(2.8)	5	(100.0)	2	(40.0)
Subtotal EU/EEA Non-EU/EEA	-	-	649	(4.6)	417	(64.3)	115	(27.6)
		National	6	(2.0)	0	(0, 0)		
Albania Andorra	NRL-TME NRL-TME	National National	4	(2.9) (0.0)	0	(0.0)	-	-
Andorra Armenia	NRL-TME NRL-TME	National	52	(0.0)	52	(100.0)	- 11	(21.2)
Armenia Azerbaijan	NRL-TME NRL-TME	National	701	(21.1)	52	(100.0)	87	(21.2)
Azerbaijan Belarus	NRL-TME NRL-TME	National	825	(20.0)	576 825	(82.2)	354	(15.1)
Belarus Bosnia and Herzegovina	NKL-IME -	National –	0	(52.1)	825	(100.0)	354	(42.9)
Georgia	 NRL-TME	_ National	191	(0.0)	173	(90.6)	50	(28.9)
Israel	NRL-TME	National	5	(14.1)	5	(100.0)	50	(28.9)
Kazakhstan	-		2 859	(40.4)	2 848	(100.0)	399	(14.0)
Kyrgyzstan	 NRL-TME	– National	870	(35.7)	2 848	(99.0)	149	(14.0)
Monaco	-	-	0	().()		(77.7)	-	(17.1)
Montenegro	NRL-TME	National	0	(0.0)	-	-	-	-
North Macedonia	NRL-TME	National	2	(2.2)	0	(0.0)	-	-
Republic of Moldova	NRL-TME	National	413	(34.2)	413	(100.0)	188	(45.5)
Russian Federation	NRL-TME	National	21 963	(54.2)	20 449	(100.0)	7 822	(38.3)
San Marino	-	National		(52.5)	- 20	()).()	-	()(),)
Serbia	-	-	-	-	_	-	-	-
Serbia excluding Kosovo ¹	-	-	-	-	-	-	-	-
Kosovo ¹	-	-	-	-	_	-	_	-
Switzerland	NRL-TME	National	4	(2.3)	4	(100.0)	2	(50.0)
Tajikistan	NRL-TME	National	555	(27.4)	512	(92.3)	121	(23.6)
Turkey	NRL-TME	National	127	(3.1)	99	(78.0)	14	(14.1)
Turkmenistan	-	-	-	-	-	-	-	(14.1)
Ukraine	NRL-TME	National	4 177	(32.6)	4 177	(100.0)	1 120	(26.8)
United Kingdom	Inte Inte	National	35	(2.2)	32	(91.4)	8	(25.0)
Uzbekistan	NRL-TME	National	1400	(24.5)	1 400	(100.0)	378	(23.0)
Subtotal non-EU/EEA	-	-	34 183	(39.5)	32 434	(100.0) (94.9)	10 704	(33.0)
Total European Region	-	-	34 832	(34.6)	32 434	(94.3)	10 704	(32.9)
	_	_	34 512	(38.4)	32 622	(94.5)	10 762	(33.0)

Table 12. Pre-XDR-TB and XDR-TB cases among bacteriologically confirmed^a pulmonary RR/MDR-TB cases, European Region, 2020

Note: 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 DST or resistance prediction. DST: drug-susceptibility testing. HPCs: high-priority countries. MDR-TB: multidrug-resistant tuberculosis. N: no. NRL: national reference laboratory. TESSy: The European surveillance system. TME: WHO global TB data-collection system. XDR-TB: extensively drug-resistant tuberculosis. Y: yes.

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 with I for any Group A	other	XDR-TB c	ases ^d	Reporting completeness ^e	Country/area
N	(%)	N	(%)	completeness	
0	(0.0)	0	(0.0)	Y	Austria
1	(100.0)	1	(100.0)	Y	Belgium
2	(100.0)	0	(0.0)	Y	Bulgaria
0	(0.0)	0	(0.0)	Y	Croatia
0	(0.0)	0	(0.0)	Y	Cyprus
4	(100.0)	4	(100.0)	Y	Czechia
0	(0.0)	0	(0.0)	Y	Denmark
6	(100.0)	6	(100.0)	Y	Estonia
0	(0.0)	0	(0.0)	Y	Finland
8	(100.0)	0	(0.0)	Y	France
10	(100.0)	6	(60.0)	Y	Germany
0	(0.0)	0	(0.0)	Ŷ	Greece
0	(0.0)	0	(0.0)	Y	Hungary
0	(0.0)	0	(0.0)	Ŷ	Iceland
0	(0.0)	0	(0.0)	Y	Ireland
-	(0.0)	_	(0.0)	N	Italy
_	-	-	-	N	Latvia
0	(0.0)	0	(0.0)	Y	Liechtenstein
34	(100.0)	12	(35.3)	Ϋ́	Lithuania
34 0	(100.0)	0	(0.0)	Y	
				Y	Luxembourg
0	(0.0)	0	(0.0)	Y	Malta
0	(0.0)	0	(0.0)		Netherlands
0	(0.0)	0	(0.0)	Y	Norway
10	(83.3)	4	(40.0)	Y	Poland
0	(0.0)	0	(0.0)	Y	Portugal
4	(14.8)	2	(50.0)	Y	Romania
0	(0.0)	0	(0.0)	Y	Slovakia
0	(0.0)	0	(0.0)	Y	Slovenia
1	(100.0)	0	(0.0)	Y	Spain
2	(100.0)	2	(100.0)	Y	Sweden
 82	(71.3)	37	(45.1)	-	Subtotal EU/EEA
				-	Non-EU/EEA
-	-	-	-	Y	Albania
-	-	-	-	Y	Andorra
-	-	-	-	Ŷ	Armenia
-	-	-	-	Y	Azerbaijan
-	-	-	-	Y	Belarus
-	-	-	-	Y	Bosnia and Herzegovina
49	(98.0)	14	(28.6)	Y	Georgia
-	-	-	-	Y	Israel
-	-	-	-	Y	Kazakhstan
-	-	-	-	Y	Kyrgyzstan
-	-	-	-	-	Monaco
-	-	-	-	Y	Montenegro
-	-	-	-	Y	North Macedonia
188	(100.0)	19	(10.1)	Y	Republic of Moldova
2 474	(31.6)	87	(3.5)	Y	Russian Federation
-	-	-	-	-	San Marino
-	-	-	-	Ν	Serbia
-	-	-	-	N	Serbia excluding Kosovo ¹
-	-	-	-	N	Kosovo ¹
2	(100.0)	1	(50.0)	N	Switzerland
121	(100.0)	31	(25.6)	Ŷ	Tajikistan
13	(92.9)	3	(23.1)	Y	Turkey
-	-	-	(20.1)	N	Turkmenistan
591	(52.8)	52	(8.8)	Y	Ukraine
-	()2.0)	_	(0.0)	Y	United Kingdom
378	(100.0)	9	(2.4)	Ŷ	Uzbekistan
5/0	(100.0)	7	(2.4)	1	
	(25.7)	216	(5.7)		Subtotal non-FIL/FEA
3 816 3 898	(35.7) (36.0)	216 253	(5.7)	-	Subtotal non-EU/EEA Total European Region

^a For EU/EEA countries, bacteriologically 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.
 ^b RR/MDR-TB defined as resistance to at least rifampicin. Includes cases that are RR/MDR but that also meet the pre-XDR or XDR case definitions (pre-XDR and XDR cases have not been excluded).
 ^c Pre-XDR-TB defined as resistance to at least one and to be entercludes cases that are RR/MDR but that also meet the pre-XDR or XDR case definitions (pre-XDR and XDR cases have not been excluded).
 ^c Pre-XDR-TB defined as resistance to rifampicin and resistance to at least one fluoroquinolone.
 ^d XDR-TB defined as resistance to rifampicin and resistance to at least one fluoroquinolone.
 ^e XDR-TB defined as resistance to rifampicin and resistance to at least one fluoroquinolone.
 ^e Data considered complete when collected nationwide OR culture results available for ≥ 90% of all cases, and 30% of all cases culture-positive, and 75% of the mwith DST results for isoniazid and rifampicin, and 295% 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	Total number of RR/MDR-TB cases detected ^a	RR/MDR-TB cases e treatment ^b	nrolled to	Total number of pre-XDR ^d /XDR-TB ^e cases detected	Pre-XDR ^d /XDR-TB° cases enrolled to treatment ^{bc}			
	N	N	(%)	N	N	(%)		
EU/EEA								
Austria	2	2	(100.0)	0	0	-		
Belgium	14	14	(100.0)	3	3	(100.0)		
Bulgaria	10	10	(100.0)	2	2	(100.0)		
Croatia	1	1	(100.0)	0	0	-		
Cyprus	0	-	-	0	0	-		
Czechia	7	7	(100.0)	4	4	(100.0)		
Denmark	2	0	(0.0)	0	0	-		
Estonia	13	13	(100.0)	6	5	(83.3)		
Finland	1	0	(0.0)	0	0	-		
France	59	59	(100.0)	8	8	(100.0)		
Germany	81	74	(91.4)	13	13	(100.0)		
Greece	12	12	(100.0)	0	0	-		
Hungary	11	10	(90.9)	0	0	-		
Iceland	0	-	-	0	0	-		
Ireland	1	1	(100.0)	0	0	-		
Italy	39	-	-	8	_	-		
Latvia	-	-	-	-	-	-		
Liechtenstein	0	-	-	0	0	-		
Lithuania	71	71	(100.0)	34	34	(100.0)		
Luxembourg	0	-	(100.0)	0	0	(100.0)		
Malta	2	2	(100.0)	0	0	-		
Netherlands	12	12	(100.0)	0	0	-		
Norway	2	2	(100.0)	0	0	-		
Poland	29	29	(100.0)	13	13	(100.0)		
Portugal	9	9	(100.0)	0	0	(100.0)		
Romania	224	221	(100.0)	28	28	(100.0)		
Slovakia	1	1	(100.0)	0	0	(100.0)		
Slovenia	1	1	(100.0)	0	0	_		
Spain	14	14	(100.0)	1	1	(100.0)		
Sweden	4	4	(100.0)	2	2	(100.0)		
Subtotal EU/EEA	622	569	(100.0)	122	113	(100.0)		
Non-EU/EEA	022	509	(97.0)	122	CII	(92.0)		
Albania	4	4	(100.0)	0	0			
	4	4	(100.0)	0	0	-		
Andorra	0	0	(100.0)	0	0	((00.0)		
Armenia	45	45	(100.0)	7	7	(100.0)		
Azerbaijan	656	586	(89.3)	108	69	(63.9)		
Belarus	520	489	(94.0)	354	321	(90.7)		
Bosnia and Herzegovina	0	0	-	0	0	-		
Georgia	150	149	(99.3)	52	44	(84.6)		
Israel	4	4	(100.0)	1	1	(100.0)		
Kazakhstan	3 114	3 400	(109.2)	1 193	1 178	(98.7)		
Kyrgyzstan	889	833	(93.7)	149	67	(45.0)		
Monaco	0	0	-	0	0	-		
Montenegro	0	0	-	0	0	-		
North Macedonia	2	2	(100.0)	0	0	-		
Republic of Moldova	225	483	(214.7)	219	209	(95.4)		
Russian Federation	14 141	20 045	(141.8)	7 822	6 097	(77.9)		
San Marino	-	-	-	-	-	-		
Serbia	-	-	-	-	-	-		
Serbia excluding Kosovo¹ Kosovo¹	-	-	-	-	-	-		
Switzerland	4	1	(25.0)	1	1	(100.0)		
Tajikistan	434	356	(82.0)	123	103	(83.7)		
Turkey	135	132	(97.8)	14	14	(100.0)		
Turkmenistan	519	519	(100.0)	264	0	(0.0)		
Ukraine	3 085	3 527	(114.3)	1 172	1 350	(115.2)		
United Kingdom	-	-	-		-	(
Uzbekistan	1 400	1 400	(100.0)	378	427	(113.0)		
Subtotal non-EU/EEA	25 327	31 975	(126.2)	11 857	9888	(13.0)		
Total European Region	25 949	32 544	(126.2)	11 979	10 001	(83.5)		
reset European NC5IVII	4J 777	74 777	(123.4)	11717	10 001	(03.3)		

Table 13. RR/MDR-TB and pre-XDR/XDR-TB cases enrolled to treatment, European Region, 2020

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. HPCs: high-priority countries. RR/MDR-TB: rifampicin-resitant and multidrug-resistant TB. TESSy: The European Surveillance System. XDR-TB: extensively drug-resistant tuberculosis. *Excluding pre-XDR and XDR-TB cases. *For countries that do not provide information on treatment start, all reported cases are used as proxy. *For some non-EU/EEA countries and areas, patients who were diagnosed before 2018 but started on treatment in 2018 are included, resulting in over 100% coverage.

⁴ Pois Solite Hole 2012 EAR countries and areas, patients who were dragnosed before 2013 but started on relation in 2018 are included, resulting in over 100% coverage.
 ⁴ Pre-XDR-TB defined as resistance to rifampicin and to at least one fluoroquinolone (pre-XDR-TB) as well as resistance to at least one additional Group A drug.
 ⁶ XDR-TB defined as resistance to rifampicin and to at least one fluoroquinolone (pre-XDR-TB) as well as resistance to at least one additional Group A drug.
 ⁶ Group A drugs include: levofloxacin, moxifloxacin, bedaquiline and linezolid. For EU/EEA countries, linezolid resistance is not yet reported to TESSy, therefore XDR-TB is assessed on resistance to levofloxacin, moxifloxacin and/or bedaquiline (in addition to meeting pre-XDR-TB criteria).
 ⁵ 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 ⁶	TB cases with kno	wn HIV status	HIV-positive 1	HIV-positive cases started ART ^c		
	N	N	(%)	N	(%)	N	(%)
EU/EEA							
Austria	-	-	-	-	-	-	-
Belgium ^d	778	359	(46.1)	31	(8.6)	-	-
Bulgaria	887	747	(84.2)	1	(0.1)	1	(100.0)
Croatia	177	4	(2.3)	0	(0.0)	-	-
Cyprus	34	29	(85.3)	2	(6.9)	-	-
Czechia	360	195	(54.2)	7	(3.6)	-	-
Denmark ^d	205	154	(75.1)	4	(2.6)	-	-
Estonia	120	113	(94.2)	11	(9.7)	11	(100.0)
Finland	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-
Germany	-	-	-	-	-	-	-
Greece	380	380	(100.0)	15	(3.9)	-	-
Hungary	384	17	(4.4)	2	(11.8)	-	-
Iceland	-	-	-	-	-	-	-
Ireland ^d	229	80	(34.9)	3	(3.8)	-	-
Italy	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-
Liechtenstein	-	-	-	-	-	-	-
Lithuania	688	676	(98.3)	18	(2.7)	-	-
Luxembourg	32	26	(81.3)	0	(0.0)	0	-
Malta	-	-	-	_	-	-	-
Netherlands	614	483	(78.7)	14	(2.9)	11	(78.6)
Norway ^d	144	114	(79.2)	2	(1.8)	-	(/ 0.0)
Poland	-	-	(7,2)	-	(1.0)	_	-
Portugal	1402	1 053	(75.1)	104	(9.9)	_	-
Romania	7 193	6 077	(84.5)	136	(2.2)	113	(83.1)
Slovakia	153	81	(52.9)	2	(2.2)	2	(100.0)
Slovenia	75	56	(74.7)	0	(0.0)		(100.0)
	2 949	1683	(74.7)	163	(0.0)	_	-
Spain Sweden	2 949	1003	(5/.1)	103	(9.7)	-	-
Subtotal EU/EEA	16 804	12 327	(73.4)	515	(4.2)	138	(01.4)
	10 804	12 327	(73.4)	CI C	(4.2)	138	(84.1)
Non-EU/EEA	240	400	(02.0)	2	(4.0)	2	(400.0)
Albania	240	199	(82.9)	2	(1.0)	2	(100.0)
Andorra	2	0	(0.0)	-	(10.()	-	-
Armenia	394	369	(93.7)	39	(10.6)		
Azerbaijan	3 683	3 683	(100.0)	83	(2.3)	77	(92.8)
Belarus	1 514	1 514	(100.0)	135	(8.9)	124	(91.9)
Bosnia and Herzegovina	357	15	(4.2)	0	-	-	-
Georgia	1 669	1 490	(89.3)	29	(1.9)	29	(100.0)
Israel	158	158	(100.0)	15	(9.5)	15	(100.0)
Kazakhstan	9 603	9 440	(98.3)	614	(6.5)	592	(96.4)
Kyrgyzstan	4 241	4 007	(94.5)	131	(3.3)	88	(67.2)
Monaco	0	-	-	-	-	-	-
Montenegro	40	35	(87.5)	0	(0.0)	-	-
North Macedonia	143	69	(48.3)	1	(1.4)	1	(100.0)
Republic of Moldova	1 767	1 693	(95.8)	219	(12.9)	170	(77.6)
Russian Federation	58 723	55 838	(95.1)	13 506	(24.2)	9 190	(68.0)
San Marino	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-
Serbia excluding Kosovo ¹	-	-	-	-	-	-	-
Kosovo1	-	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	-
Tajikistan	4 148	4 043	(97.5)	118	(2.9)	116	(98.3)
Turkey	8 830	7 062	(80.0)	83	(1.2)	62	(74.7)
Turkmenistan			-	-	-	-	-
Ukraine	17 533	17 375	(99.1)	3 794	(21.8)	3 460	(91.2)
United Kingdom ^d	-	-	-	-	(= .10)	-	-
Uzbekistan	12 111	12 111	(100.0)	379	(3.1)	287	(75.7)
Subtotal non-EU/EEA	125 156	119 101	(95.2)	19 148	(16.1)	14 213	(74.2)
Total European Region	141 960	131 428	(92.6)	19 663	(15.0)	14 351	(74.3)
Subtotal 18 HPCs	133 104	126 238	(92.8)	19 296	(15.3)	14 320	(74.3)

Table 14. New and relapse^a TB cases with HIV infection, European Region, 2020

Note: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. ART: antiretroviral therapy. HPCs: high-priority countries. ^b 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 and test results are provided. For EU/EEA countries, 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 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 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. ^c Data from the WHO Global TB Database. ^d Previous TB history is defined by previous diagnosis. ¹All 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	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 ^c		
	N	N	Rate per 100 000 prisoners	%	prisons		
EU/EEA							
Austria	-	-	-	-			
Belgium	10 559	11	104	(1.2)	13.3		
Bulgaria	6 4 3 6	6	93	(0.4)	5.1		
Croatia	-	-	-	-			
Cyprus	-	-	-	-	-		
Czechia	19 286	4	21	(0.8)	4.8		
Denmark	-	-	-	-	-		
Estonia	2 500	3	120	(1.5)	10.8		
Finland	-	-	-	-	-		
France Germany	-	-	-	-	-		
Greece	_	-	-	-			
Hungary	_	-	-	-	-		
Iceland	_	-	-	-	-		
Ireland	6 490	0	0	(0.0)	0.0		
Italy		-	0	(0.0)	0.0		
Latvia	-	-	-	-	-		
Liechtenstein	-	-	-	-	-		
Lithuania	5 121	22	430	(1.6)	11.9		
Luxembourg	750	1	133	(3.3)	17.1		
Malta	-	-	-	-	-		
Netherlands	24 092	6	25	(0.7)	5.8		
Norway	-	-	-	-	-		
Poland	70 716	112	158	(1.8)	12.1		
Portugal	11 412	24	210	(1.1)	12.6		
Romania	22 700	74	326	(0.5)	5.7		
Slovakia	10 372	3	29	(1.0)	7.4		
Slovenia	3 571	0	0	(0.0)	0.0		
Spain	-	-	-	-	-		
Sweden	-	-	-	-	-		
Subtotal EU/EEA ^c	194 005	266	137	(0.9)	9.3		
Non EU/EEA							
Albania	-	-	-	-	-		
Andorra	-	-	-	-	-		
Armenia	2 003	3	149.8	(0.8)	11.3		
Azerbaijan	19 377	134	691.5	(3.6)	19.0		
Belarus	-	-	-	-	-		
Bosnia and Herzegovina	-	-	-	-	-		
Georgia	9 143	28	306.2	(1.7)	7.3		
Israel Kazakhatan	22,000	-	-	(2.1)	-		
Kazakhstan Kyrgyzstan	32 000	199	621.9	(2.1)	12.2		
Monaco	_	-	-	-	-		
Montenegro	_	-	-	-	-		
North Macedonia	2 600	3	115.4	(2.1)	16.8		
Republic of Moldova	6 429	71	1 104.0	(4.0)	25.2		
Russian Federation	499 659	5 4 4 2	1 089.0	(9.3)	27.1		
San Marino	-	-	-	-	-		
Serbia	-	-	-	-	-		
Serbia excluding Kosovo ¹	-	-	-	-	-		
Kosovo ¹	-	-	-	-	-		
Switzerland	-	-	-	-	-		
Tajikistan	13 000	68	523.1	(1.6)	12.0		
Turkey	266 831	118	44.2	(1.3)	4.2		
Turkmenistan	-	-	-	-	-		
Ukraine	50 183	555	1 106.0	(3.2)	27.6		
United Kingdom	-	-	-	-	-		
Uzbekistan	-	-	-	-	-		
Subtotal non-EU/EEA	901 225	6 621	734.7	(6.2)	22.		
Total European Region	1 095 230	6 887 <i>6 723</i>	628.8 718.7	(5.6)	23.5		

Table 15. TB in prisons, European Region, 2020^a

Note: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. HPCs: high-priority countries. ^a Data from the WHO Global TB Database. ^b Belarus, Kazakhstan, Montenegro and Kosovo¹ 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. ^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	Success		Die	d	Faile	d	Lost to foll	ow-up ^c	Still on treatment		Not evaluated ^d	
	in 2019 ^b	N	(%)	N	(%)	N	(%)	N	(%)	N	(%)	N	(%)
EU/EEA													
Austria	459	341	(74.3)	42	(9.2)	0	(0.0)	3	(0.7)	44	(9.6)	29	(6.3)
Belgium ^e	877	709	(80.8)	63	(7.2)	5	(0.6)	74	(8.4)	12	(1.4)	14	(1.6)
Bulgaria	1 278	1 0 4 5	(81.8)	95	(7.4)	12	(0.9)	101	(7.9)	1	(0.1)	24	(1.9)
Croatia	295	72	(24.4)	35	(11.9)	1	(0.3)	6	(2.0)	6	(2.0)	175	(59.3)
Cyprus	65	18	(27.7)	1	(1.5)	0	(0.0)	6	(9.2)	9	(13.8)	31	(47.7)
Czechia	447	330	(73.8)	50	(11.2)	1	(0.2)	50	(11.2)	9	(2.0)	7	(1.6)
Denmark ^e	259	117	(45.2)	2	(0.8)	0	(0.0)	1	(0.4)	3	(1.2)	136	(52.5)
Estonia	120	91	(75.8)	20	(16.7)	1	(0.8)	4	(3.3)	1	(0.8)	3	(2.5)
Finland	222	85	(38.3)	0	(0.0)	0	(0.0)	5	(2.3)	3	(1.4)	129	(58.1)
France	-	-	-	-	-	-	-	-	-	-	-	-	-
Germany	4 566	3 130	(68.6)	355	(7.8)	3	(0.1)	125	(2.7)	122	(2.7)	831	(18.2)
Greece	-	-	-	-	-	-	-	-	-	-	-	-	-
Hungary	517	336	(65.0)	68	(13.2)	16	(3.1)	52	(10.1)	20	(3.9)	25	(4.8)
Iceland	13	13	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Irelande	243	9	(3.7)	5	(2.1)	1	(0.4)	0	(0.0)	0	(0.0)	228	(93.8)
Italy	-	_	().//	_	(2.1)	-	(0.4)	_	(0.0)	_	(0.0)	-	()).()
Latvia	-	-	-	-	-	-	-	-	-	_	-	-	-
Liechtenstein	_	_	_	_	_	_	_	_	_	_	_	_	_
Lithuania	866	754	(87.1)	74	(8.5)	14	(1.6)	20	(2.3)	4	(0.5)	0	(0.0)
Luxembourg	47	17	(36.2)	0	(0.0)	0	(0.0)	20	(14.9)	4	(0.5)	23	(48.9)
Malta	4/	-	(30.2)	-	(0.0)	-	(0.0)	-	(14.9)	-	(0.0)	- 23	(40.9)
	-		(86.3)		(4.4)	-	(0.1)		(3.6)	8	(1.1)		- (4 5)
Netherlands	730	630		32				26				33	(4.5)
Norway ^e	149	126	(84.6)	4	(2.7)	3	(2.0)	3	(2.0)	0	(0.0)	13	(8.7)
Poland	4.050	-	(74 ()	-	(5.0)	-	(0, 4)	-	(2,7)	-	(45.7)	-	(2, 1)
Portugal	1 859	1 3 2 7	(71.4)	107	(5.8)	2	(0.1)	68	(3.7)	291	(15.7)	64	(3.4)
Romania	10 812	9 051	(83.7)	1 016	(9.4)	168	(1.6)	497	(4.6)	79	(0.7)	1	(0.0)
Slovakia	209	196	(93.8)	7	(3.3)	0	(0.0)	0	(0.0)	0	(0.0)	6	(2.9)
Slovenia	98	69	(70.4)	22	(22.4)	0	(0.0)	3	(3.1)	3	(3.1)	1	(1.0)
Spain	4 3 8 6	2 0 4 5	(46.6)	179	(4.1)	1	(0.0)	18	(0.4)	51	(1.2)	2 0 9 2	(47.7)
Sweden	468	286	(61.1)	15	(3.2)	1	(0.2)	0	(0.0)	1	(0.2)	165	(35.3)
Subtotal EU/EEA	28 985	20 797	(71.8)	2 192	(7.6)	230	(0.8)	1069	(3.7)	667	(2.3)	4 030	(13.9)
Non-EU/EEA					(1-0)		(0, 0)		(1.1)				(
Albania	412	364	(88.3)	19	(4.6)	0	(0.0)	18	(4.4)	-	-	11	(2.7)
Andorra	5	3	(60.0)	1	(20.0)	0	(0.0)	1	(20.0)	-	-	0	(0.0)
Armenia	485	399	(82.3)	36	(7.4)	19	(3.9)	29	(6.0)	-	-	2	(0.4)
Azerbaijan	1 702	1 429	(84.0)	66	(3.9)	53	(3.1)	134	(7.9)	-	-	20	(1.2)
Belarus	1 302	1 153	(88.6)	93	(7.1)	28	(2.2)	28	(2.2)	-	-	0	(0.0)
Bosnia and Herzegovina	580	185	(31.9)	28	(4.8)	10	(1.7)	3	(0.5)	-	-	354	(61.0)
Georgia	1 947	1 657	(85.1)	74	(3.8)	46	(2.4)	97	(5.0)	-	-	73	(3.7)
Israel	217	182	(83.9)	14	(6.5)	2	(0.9)	6	(2.8)	-	-	13	(6.0)
Kazakhstan	7 429	6704	(90.2)	432	(5.8)	186	(2.5)	107	(1.4)	-	-	0	(0.0)
Kyrgyzstan	5 110	4 155	(81.3)	328	(6.4)	112	(2.2)	481	(9.4)	-	-	34	(0.7)
Monaco	0	-	-	-	-	-	-	-	-	-	-	-	-
Montenegro	82	78	(95.1)	4	(4.9)	0	(0.0)	0	(0.0)	-	-	0	(0.0)
North Macedonia	199	177	(88.9)	9	(4.5)	2	(1.0)	11	(5.5)	-	-	0	(0.0)
Republic of Moldova	2 215	1 854	(83.7)	164	(7.4)	69	(3.1)	116	(5.2)	-	-	12	(0.5)
Russian Federation	54 589	37 208	(68.2)	5 936	(10.9)	3 567	(6.5)	3 471	(6.4)	-	-	4 4 07	(8.1)
San Marino	-	-	-	-	-	-	-	-	-	-	-	-	_
Serbia	602	513	(85.2)	24	(4.0)	3	(0.5)	57	(9.5)	-	-	5	(0.8)
Serbia excluding Kosovo ¹	-	-	_	_	-	_	_	-	-	-	-	_	
Kosovo ¹	602	513	(85.2)	24	(4.0)	3	(0.5)	57	(9.5)	-	-	5	(0.8)
Switzerland	391	267	(68.3)	10	(2.6)	0	(0.0)	0	(0.0)	-	-	114	(29.2)
Tajikistan	5 114	4 6 4 3	(90.8)	179	(3.5)	60	(1.2)	190	(3.7)	-	-	42	(0.8)
Turkey	11 095	9 2 3 1	(83.2)	973	(8.8)	22	(0.2)	200	(1.8)	_	-	669	(6.0)
Turkey Turkmenistan	2 117				(8.8)	135		84	(4.0)				(0.0)
		1749	(82.6)	90			(6.4)			-	-	59	
Ukraine	19 414	15 381	(79.2)	1 816	(9.4)	1 180	(6.1)	1 023	(5.3)	-	-	14	(0.1)
I Inited Kingdows	4 7 3 9	3 675	(77.5)	229	(4.8)	0	(0.0)	208	(4.4)	-	-	627	(13.2)
United Kingdom ^e		40.000	()										
Uzbekistan	14 224	12 820	(90.1)	548	(3.9)	227	(1.6)	353	(2.5)	-	-	276	(1.9)
•		12 820 103 827 124 624	(90.1) (77.5) (76.5)	548 11 073 13 265	(3.9) (8.3) (8.1)	227 5 721 5 951	(1.6) (4.3) (3.7)	353 6 617 7 686	(2.5) (4.9) (4.7)	- 0 667	(0.0) (0.4)	276 6 732 10 762	(1.9) (5.0) (6.6)

Table 16. Treatment outcome of new and relapse TB cases^a notified in 2019, European Region, 2020

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 outcome are not reported. For inclusion in the cohort, drug-susceptibility data are also required. HPCs: high-priority countries. *Cases with unknown previous TB history are included among new TB cases. *For one-U/EEA countries and areas: patients started on second-line treatment are excluded. For EU/EEA countries: rifampicin-resistant TB cases are excluded. In previous reports defined as "defaulted". *In previous 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	New and relapse TB cases notified	fied Success		Die	d	Faile	ed	Lost to follow-up ^b		Still on treatment		Not evaluated ^c	
	in 2019ª	N	(%)	N	(%)	N	(%)	N	(%)	N	(%)	N	(%)
EU/EEA													
Austria	9	5	(55.6)	1	(11.1)	0	(0.0)	2	(22.2)	1	(11.1)	0	(0.0)
Belgium	69	53	(76.8)	3	(4.3)	2	(2.9)	9	(13.0)	2	(2.9)	0	(0.0)
Bulgaria	52	38	(73.1)	3	(5.8)	2	(3.8)	9	(17.3)	0	(0.0)	0	(0.0)
Croatia	8	3	(37.5)	1	(12.5)	0	(0.0)	0	(0.0)	0	(0.0)	4	(50.0)
Cyprus	3	0	(0.0)	0	(0.0)	0	(0.0)	2	(66.7)	0	(0.0)	1	(33.3)
Czechia	6	2	(33.3)	1	(16.7)	0	(0.0)	2	(33.3)	0	(0.0)	1	(16.7)
Denmark	21	8	(38.1)	0	(0.0)	0	(0.0)	0	(0.0)	2	(9.5)	11	(52.4)
Estonia	1	1	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Finland	1	1	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
France	-	-	-	-	-	-	-	-	-	-	-	-	-
Germany	145	70	(48.3)	10	(6.9)	1	(0.7)	13	(9.0)	7	(4.8)	44	(30.3)
Greece	-	-	-	-	-	-	-	-	-	-	-	-	-
Hungary	22	9	(40.9)	4	(18.2)	0	(0.0)	6	(27.3)	1	(4.5)	2	(9.1)
Iceland	0	0	-	0	-	0	-	0	-	0	-	0	-
Ireland	17	1	(5.9)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	16	(94.1)
Italy	-	-	-	-	-	-	-	-	-	-	-	-	_
Latvia	-	-	-	-	-	-	-	_	-	-	-	-	-
Liechtenstein	-	-	-	-	-	-	-	-	-	-	-	-	_
Lithuania	19	16	(84.2)	0	(0.0)	1	(5.3)	2	(10.5)	0	(0.0)	0	(0.0)
Luxembourg	-	-	-	-	(0.0)	-	(2.2)	_	(.0.)	-	(0.0)	-	(0.0)
Malta	-	-	-	-	-	-	-	_	-	-	-	-	-
Netherlands	15	9	(60.0)	2	(13.3)	0	(0.0)	1	(6.7)	1	(6.7)	2	(13.3)
Norway	11	8	(72.7)	1	(9.1)	0	(0.0)	0	(0.0)	0	(0.0)	2	(18.2)
Poland	-	-	(/2./)	-	(2.1)	-	(0.0)	-	(0.0)	_	(0.0)	_	(10.2)
Portugal	58	34	(58.6)	4	(6.9)	0	(0.0)	7	(12.1)	10	(17.2)	3	(5.2)
•													
Romania	422	179	(42.4)	55	(13.0)	63	(14.9)	120	(28.4)	5	(1.2)	0	(0.0)
Slovakia	0	0	-	0	-	0	-	0	-	0	-	0	(0, 0)
Slovenia	3	2	(66.7)	0	(0.0)	0	(0.0)	1	(33.3)	0	(0.0)	0	(0.0)
Spain	136	81	(59.6)	5	(3.7)	2	(1.5)	0	(0.0)	2	(1.5)	46	(33.8)
Sweden	1	1	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Subtotal EU/EEA	1 021	523	(51.2)	90	(8.8)	71	(7.0)	174	(17.0)	31	(3.0)	132	(12.9)
Non-EU/EEA													
Albania	0	0	-	0	-	0	-	0	-	0	-	0	-
Andorra	0	0	-	0	-	0	-	0	-	0	-	0	_
Armenia	17	6	(35.3)	2	(11.8)	3	(17.6)	6	(35.3)	-	-	0	(0.0)
Azerbaijan	2 401	1 788	(74.5)	154	(6.4)	129	(5.4)	266	(11.1)	-	-	64	(2.7)
Belarus	60	43	(71.7)	7	(11.7)	2	(3.3)	8	(13.3)	-	-	0	(0.0)
Bosnia and Herzegovina	-	-	-	-	-	-	-	-	-	-	-	-	-
Georgia	197	121	(61.4)	17	(8.6)	8	(4.1)	39	(19.8)	-	-	12	(6.1)
Israel	0	0	-	0	-	0	-	0	-	-	-	0	-
Kazakhstan	94	66	(70.2)	14	(14.9)	6	(6.4)	8	(8.5)	-	-	0	(0.0)
Kyrgyzstan	626	351	(56.1)	57	(9.1)	14	(2.2)	198	(31.6)	-	-	6	(1.0)
Monaco	0	0	-	0	-	0	-	0	-	0	-	0	-
Montenegro	0	0	-	0	-	0	-	0	-	0	-	0	-
North Macedonia	0	0	-	0	-	0	-	0	-	0	-	0	-
Republic of Moldova	137	82	(59.9)	18	(13.1)	15	(10.9)	21	(15.3)	-	-	1	(0.7)
Russian Federation	7 851	3 980	(50.7)	763	(9.7)	1 091	(13.9)	859	(10.9)	-	-	1 158	(14.7)
San Marino	-	-	-	-	-	-	-	-	-	-	-	-	_
Serbia	7	4	(57.1)	2	(28.6)	0	(0.0)	1	(14.3)	-	-	0	(0.0)
Serbia excluding Kosovo ¹	-	-	-	-	-	-	-	-	-	-	-	-	_
Kosovo ¹	7	4	(57.1)	2	(28.6)	0	(0.0)	1	(14.3)	-	-	0	(0.0)
Switzerland	41	22	(53.7)	1	(2.4)	0	(0.0)	0	(0.0)	-	-	18	(43.9)
Tajikistan	144	115	(79.9)	16	(11.1)	2	(1.4)	9	(6.3)	-	-	2	(1.4)
Turkey	154	83	(53.9)	6	(3.9)	3	(1.9)	23	(14.9)	-	-	39	(25.3)
Turkmenistan	746	584	(78.3)	54	(7.2)	43	(5.8)	44	(5.9)	-	-	21	(2.8)
Ukraine	2 462	1 576	(64.0)	280	(11.4)	259	(10.5)	346	(5.9)	-	-	1	(2.0)
United Kingdom	322	235	(73.0)	16	(11.4)	0	(0.0)	17	(5.3)	-	-	54	(16.8)
Uzbekistan													
	1 550	1 308	(84.4)	98 1 E 0 E	(6.3)	16	(1.0)	68	(4.4)	-	(0, 0)	60	(3.9)
Subtotal non-EU/EEA	16 809 17 830	10 364 10 887	(61.7) (61.1)	1 505 1 595	(9.0) (8.9)	1 591 1 662	(9.5) (9.3)	1 913 2 087	(11.4) (11.7)	0 31	(0.0)	1 436 1 568	(8.5) (8.8)
Total European Region													

Table 17. Treatment outcome of previously treated TB cases notified in 2019, European Region, 2020

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 outcome are not reported. HPCs: high-priority countries. ^a Excluding relapsed TB cases ^b In previous reports defined as "defaulted". ^c 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	Success		Died		Failed		Lost to follow-up ^c		Still on treatment		Not evaluated ^d	
	reported in 2019 ^b	N	(%)	N	(%)	N	(%)	N	(%)	N	(%)	N	(%)
EU/EEA													
Austria	22	19	(86.4)	0	(0.0)	0	(0.0)	0	(0.0)	2	(9.1)	1	(4.5)
Belgium ^e	48	45	(93.8)	0	(0.0)	0	(0.0)	1	(2.1)	2	(4.2)	0	(0.0)
Bulgaria	54	47	(87.0)	1	(1.9)	0	(0.0)	3	(5.6)	0	(0.0)	3	(5.6)
Croatia	1	1	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Cyprus	2	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	2	(100.0)
Czechia	4	4	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Denmark ^e	16	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	16	(100.0)
Estonia	1	1	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0
Finland	9	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	9	(100.0
France	-	_	(0.0)	_	(0.0)	_	(0.0)	-	(0.0)	_	(0.0)	_	(10010)
Germany	192	152	(79.2)	1	(0.5)	0	(0.0)	3	(1.6)	5	(2.6)	31	(16.1
Greece	-	-	(/)•2)	-	(0.)	-	(0.0)	-	(1.0)	_	(2.0)	-	(10.1
	10	8	(80.0)	0	(0.0)	0	(0.0)	0	(0.0)	- 1	(10.0)	1	(10.0)
Hungary					(0.0)		(0.0)				(10.0)		(10.0)
Iceland	0	0	-	0	(0, 0)	0	(0, 0)	0	-	0	(0, 0)	0	(00.0)
Ireland ^e	10	1	(10.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	9	(90.0)
Italy	-	-	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-	-	-
Liechtenstein	-	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	26	26	(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	47	43	(91.5)	0	(0.0)	0	(0.0)	2	(4.3)	1	(2.1)	1	(2.1
Norway ^e	4	4	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Poland	-	-	_	-	-	-	-	-	_	-	-	-	-
Portugal	71	44	(62.0)	1	(1.4)	0	(0.0)	0	(0.0)	24	(33.8)	2	(2.8)
Romania	388	372	(95.9)	5	(1.3)	2	(0.5)	7	(1.8)	2	(0.5)	0	(0.0)
Slovakia	35	34	(97.1)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	1	(2.9)
Slovenia	2	2	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Spain	316	169	(53.5)	1	(0.3)	0	(0.0)	0	(0.0)	3	(0.9)	143	(45.3)
Sweden	18	109	(61.1)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	7	(38.9)
Subtotal EU/EEA	1 276	983	(01.1)	9	(0.0) (0.7)	2	(0.0) (0.2)	16	(0.0) (1.3)	40	(0.0)	226	(38.9)
	12/0	703	(77.0)	7	(0.7)	2	(0.2)	10	(1.3)	40	(5.1)	220	(17.7)
Non-EU/EEA	44	44	(400.0)	0	(0, 0)	0	(0, 0)	0	(0, 0)			0	(0, 0)
Albania	11	11	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	-	-	0	(0.0)
Andorra	0	-	-	-	-	-	-	-	-	-	-	-	
Armenia	29	26	(89.7)	0	(0.0)	0	(0.0)	3	(10.3)	-	-	0	(0.0)
Azerbaijan	-	-	-	-	-	-	-	-	-	-	-	-	-
Belarus	8	8	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	-	-	0	(0.0)
Bosnia and Herzegovina	3	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	-	-	3	(100.0)
Georgia	65	62	(95.4)	0	(0.0)	1	(1.5)	2	(3.1)	-	-	0	(0.0)
Israel	7	7	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	-	-	0	(0.0)
Kazakhstan	274	271	(98.9)	1	(0.4)	2	(0.7)	0	(0.0)	-	-	0	(0.0)
Kyrgyzstan	-	-	-	-	-	-	-	-	-	-	-	-	-
Monaco	0	-	-	-	-	-	-	-	-	-	-	-	-
Montenegro	1	1	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	-	-	0	(0.0)
North Macedonia	12	12	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	-	-	0	(0.0)
Republic of Moldova	103	103	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	-	-	0	(0.0)
Russian Federation	1753	1 652	(94.2)	10	(0.6)	39	(2.2)	6	(0.0)	_	_	46	(2.6)
San Marino	1/33	1 052	(94.2)	-	(0.0)	- 39	(2.2)	0	(0.5)	-	-	40	(2.0)
	-	-	-	-	-	-	-	-	-	-	-	-	
Serbia	-				-		_		-				-
Serbia excluding Kosovo ¹	-	-	-	-	-	-	-	-	-	-	-	-	
Kosovo ¹	-	-	-	-	-	-	-	-	-	-	-	-	-
Switzerland	15	11	(73.3)	0	(0.0)	0	(0.0)	0	(0.0)	-	-	4	(26.7)
Tajikistan	350	332	(94.9)	3	(0.9)	1	(0.3)	11	(3.1)	-	-	3	(0.9)
Turkey	490	397	(81.0)	21	(4.3)	0	(0.0)	8	(1.6)	-	-	64	(13.1)
Turkmenistan	-	-	-	-	-	-	-	-	-	-	-	-	-
Ukraine	428	414	(96.7)	8	(1.9)	5	(1.2)	1	(0.2)	-	-	0	(0.0,
United Kingdom ^e	182	154	(84.6)	0	(0.0)	0	(0.0)	3	(1.6)	-	-	25	(13.7)
Uzbekistan	-	-	_	-	_	-	-	-	_	-	-	-	_
Subtotal non-EU/EEA	3 731	3 461	(92.8)	43	(1.2)	48	(1.3)	34	(0.9)	0	(0.0)	145	(3.9)
Total European Region	5 007	4 4 4 4	(88.8)	52	(1.0)	50	(1.0)	50	(1.0)	40	(0.8)	371	(7.4)
Subtotal 18 HPCs	3 969	3 711	(93.5)	49	(1.2)	50	(1.3)	41	(1.0)	2	(0.1)	116	(2.9)

Table 18. Treatment outcome of new and relapse^a TB cases in children (0–14 years) notified in 2019, European Region, 2020

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 outcome are not reported. For inclusion in the cohort, drug-susceptibility data are also required. HPCs: 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 "defaulted". * In 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).

	New and relapse TB cases of foreign origin notified in 2019 ⁶	Success		Die	d	Faile	Failed		Lost to follow-up ^c		Still on treatment		Not evaluated ^d	
Country/area		N	(%)	N	(%)	N	(%)	N	(%)	N	(%)	N	(%)	
EU/EEA														
Austria ^e	250	185	(74.0)	7	(2.8)	0	(0.0)	0	(0.0)	30	(12.0)	28	(11.2)	
Belgium ^{ef}	483	402	(83.2)	11	(2.3)	2	(0.4)	51	(10.6)	9	(1.9)	8	(1.7)	
Bulgaria	0	0	-	0	-	0	-	0	-	0	-	0	-	
Croatia	4	0	(0.0)	1	(25.0)	0	(0.0)	0	(0.0)	0	(0.0)	3	(75.0)	
Cyprus	58	16	(27.6)	1	(1.7)	0	(0.0)	6	(10.3)	6	(10.3)	29	(50.0)	
Czechia	128	86	(67.2)	7	(5.5)	0	(0.0)	27	(21.1)	4	(3.1)	4	(3.1)	
Denmark ^r	184	83	(45.1)	1	(0.5)	0	(0.0)	1	(0.5)	1	(0.5)	98	(53.3)	
Estonia	27	21	(77.8)	4	(14.8)	0	(0.0)	0	(0.0)	0	(0.0)	2	(7.4)	
Finland	91	42	(46.2)	0	(0.0)	0	(0.0)	2	(2.2)	0	(0.0)	47	(51.6)	
France	-	-	-	-	-	-	-	-	-	-	-	-	-	
Germany	3 193	2 255	(70.6)	133	(4.2)	1	(0.0)	86	(2.7)	87	(2.7)	631	(19.8)	
Greece ^e	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hungary ^e	38	16	(42.1)	0	(0.0)	0	(0.0)	5	(13.2)	1	(2.6)	16	(42.1)	
Iceland	11	11	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	
Ireland ^f	105	5	(4.8)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	100	(95.2)	
Italy	-	-	-	-	-	-	-	-	-	-	-	-	-	
Latvia	-	-	-	-	-	-	-	-	-	-	-	-	-	
Liechtenstein	-	-	-	-	-	-	-	-	-	-	-	-	_	
Lithuania	11	10	(90.9)	1	(9.1)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	
Luxembourg	43	16	(37.2)	0	(0.0)	0	(0.0)	6	(14.0)	0	(0.0)	21	(48.8)	
Malta	-	-	-	_	-	-	-	-	-	_	-	-	_	
Netherlands	548	473	(86.3)	18	(3.3)	1	(0.2)	19	(3.5)	6	(1.1)	31	(5.7)	
Norway ^f	135	115	(85.2)	1	(0.7)	3	(2.2)	3	(2.2)	0	(0.0)	13	(9.6)	
Polande	-	-	-	-	-	-	(-		_	-	-	-	
Portugal	454	309	(68.1)	8	(1.8)	1	(0.2)	23	(5.1)	89	(19.6)	24	(5.3)	
Romania	40	31	(77.5)	3	(7.5)	1	(2.5)	4	(10.0)	1	(2.5)	0	(0.0)	
Slovakia	5	5	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	
Slovenia	35	30	(85.7)	2	(5.7)	0	(0.0)	2	(5.7)	0	(0.0)	1	(2.9)	
Spain	1682	771	(45.8)	22	(1.3)	1	(0.1)	9	(0.5)	26	(1.5)	853	(50.7)	
Sweden	406	256	(63.1)	8	(2.0)	0	(0.0)	0	(0.0)	1	(0.2)	141	(34.7)	
Subtotal EU/EEA	7 931	5 138	(64.8)	228	(2.9)	10	(0.0)	244	(3.1)	261	(3.3)	2 050	(25.8)	
Non-EU/EEA	1751	5150	(0410)	110	(=:))	10	(011)	-11	(311)	201	(313)	2050	(1510)	
Albania	0	0	-	0	-	0	-	0	-	-	-	0	-	
Andorra	1	1	-	0	-	0	-	0	-	-	-	0	_	
Armenia	9	3	(33.3)	1	(11.1)	0	(0.0)	3	(33.3)	-	-	2	(22.2)	
Azerbaijan	-	-	(55.5)	-	(11.1)	-	(0.0)	-	(55.5)	_	_	-	(22.2)	
Belarus	0	0	_	0	-	0	-	0	-	-	-	0	_	
													-	
Bosnia and Herzegovina	-	-	-	-	-	-	-	-	-	-	-	-	-	
Georgia														
Israel	188	159	(84.6)	11	(5.9)	2	(1.1)	4	(2.1)	-	-	12	(6.4)	
Kazakhstan	90	79	(87.8)	8	(8.9)	1	(1.1)	2	(2.2)	-	-	0	(0.0)	
Kyrgyzstan	-	-	-	-	-	-	-	-	-	-	-	-	-	
Monaco	-	-	-	-	-		-	-	-	-	-	-	-	
Montenegro	3	1	(33.3)	0	(0.0)	0	(0.0)	1	(33.3)	-	-	1	(33.3)	
North Macedonia	2	2	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	-	-	0	(0.0)	
Republic of Moldova	19	13	(68.4)	2	(10.5)	0	(0.0)	2	(10.5)	-	-	2	(10.5)	
Russian Federation	1 880	1 603	(85.3)	10	(0.5)	56	(3.0)	0	(0.0)	-	-	211	(11.2)	
San Marino	-	-	-	-	-	-	-	-	-	-	-	-	-	
Serbia	-	-	-	-	-	-	-	-	-	-	-	-	-	
Serbia excluding Kosovo ¹	-	-	-	-	-	-	-	-	-	-	-	-	-	
Kosovo1	-	-	-	-	-	-	-	-	-	-	-	-	-	
Switzerland	292	204	(69.9)	4	(1.4)	0	(0.0)	6	(2.1)	-	-	78	(26.7)	
Tajikistan	0	0	-	0	-	0	-	0	-	-	-	0	-	
Turkey	1 453	1 038	(71.4)	94	(6.5)	6	(0.4)	93	(6.4)	-	-	222	(15.3)	
Turkmenistan	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ukraine	31	21	(67.7)	1	(3.2)	2	(6.5)	6	(19.4)	-	-	1	(3.2)	
United Kingdom ^r	3 375	2 708	(80.2)	108	(3.2)	0	(0.0)	154	(4.6)	-	-	405	(12.0)	
Uzbekistan	0	0	-	0	-	0	-	0	-	-	-	0	-	
	7 343	5 832	(79.4)	239	(3.3)	67	(0.9)	271	(3.7)	0	(0.0)	934	(12.7)	
Subtotal non-EU/EEA	1 242	2022	(17.47)		(3.3)	01								
Subtotal non-EU/EEA Total European Region	15 274	10 970	(71.8)	467	(3.1)	77	(0.5)	515	(3.4)	261	(1.7)	2 984	(19.5)	

Table 19. Treatment outcome of new and relapse^a TB cases of foreign origin notified in 2019, European Region, 2020

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 outcome are not reported. For inclusion in the cohort, drug-susceptibility data are also required. HPCs: high-priority countries. *Cases with unknown previous TB history are included among new TB cases. *For ono-EU/EEA countries and areas: patients started on second-line treatment are excluded. For EU/EEA countries: rifampicin-resistant TB cases are excluded. for provious reports defined as "defaulted". *Origin is based on nationality. *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).

Constant Constant	D	Lost	Faile	Lost to fol	llow-up ^c	Still on tr	eatment	Not eval	luated⁴
AustriaBelgium*3427(79.4)Bulgaria11(100.4)Croatia000Cyprus11(100.4)Czechia73(42.1)Denmark*41(25.4)Estonia1116(54.2)FinlandGermanyGreeceHungary31(33.1)Iceland*90(0.4)ItalyLitatiaLitatiaLitatiaNorway*43(75.4)PolandSobala1171100(64.2)Slovakia44(100.4)Spain20782(35.2)SwedenSubotal EU/EEA639552(55.2)Non-EU/EEA639552(55.2)Non-EU/EEAGeorgia28190(67.3)Kyrgyzstan1365.4(63.2)NontengroSerbia excluding Kosovo*Serbia excluding Kosovo*Serbia excluding Kosovo*Serbia excluding Kosovo*Subitari136(67.4)Subitari136<) N		N	N	(%)	N	(%)	N	(%)
Belgium*3427(79.4)Bulgaria11(100.4)Croatia00Cyprus11(101.4)Czechia73(42.5)Denmark*41(25.4)Estonia116(54.2)FinlandGreeceHungary31(33.2)Iceland00-Ireland*90(0.4)ItalyiaLitchtensteinLitchtensteinNorway*43(75.4)PolandSubtal EU/EEA39352(56.4)Sobatia44(100.0)Slovakia44(100.0)Sobraia11(100.4)Spain20782(39.4)SwedenSubtal EU/EEA639352(55.3)Monraia10365(63.2)Sonaia and HerzegovinaGeorgia2819(67.2)Israel86(75.1)Kazakhstan258190(73.4)Kyrdyzstan10365(63.2)Monaco0Serbia excluding Kosovo'Serbia excluding Kosovo'Serbia excluding Kosovo'Virkarla									
Bulgaria11(100.)Croatia00Cyprus111Czechia73Denmark*4125.Estonia1116(54.)FinlandFranceGermanyGreeceHungary311(33.)Iceland00Iceland*90IcelthensteinLithuania2018Luxembourg00MaltaNorway*43Ithuania111(64)Slovakia4(100.)Slovakia4(100.)Slovakia4(100.)Spain20782Subtotal EU/EEA639352Subtotal EU/EEA639352Basnia and HerzegovinaGeorgia2819Susia and HerzegovinaGeorgia2819Sustal4(67.)Kazakhstan258100Monaco00Monaco00Serbia excluding Kosovo'-Serbia excluding Kosovo'-Serbia excluding Kosovo'-Serbia excluding Kosovo'-Serbia excluding Kosovo'-Ukraine43253077Ukraine43253077Ukraine4325<			-	-	-	-	-	-	-
Croatia00Cypus11(100.)Czechia73(42.)Denmark*41(25.)Estonia116(54.)FinaceGreaceHungary31(33.)Iceland00Ireland*90(0.)ItalyLitalyLitalyLithuania2018(90.)Luxmbourg00PolandPolandSubtotal EU/EEA639352(55.)Non-EU/EEA639352(55.)Non-EU/EEA639352(55.)Nonaco0Balania84(50.)ArerbaijanBosnia and HerzegovinaSubtotal EU/EEA639352(55.)Nonaco00Serbia excluding Kosovo'Serbia excluding Kosovo') 2		1	3	(8.8)	1	(2.9)	0	(0.0)
Cyprus11(100.0)Czechia73(42.1)Denmark*41(25.1)Estonia1116(54.2)FinlandGermanyGreeceHungary31(33.2)Iceland00-ItalyLitviaLitviaLitviaLithuania2018(90.0)MaltaNorway*43(75.4)PolandPortugal14381(56.4)Romania171110(64.2)Slovakia44(100.0)Spain20782(39.4)SwedenSubtoal EU/EEA639352(55.7)Non-EU/EEA639352(55.7)Non-EU/EEA639356(81.2)Bosnia and HerzegovinaGeorgia2819(67.2)Sustal46(75.4)Kyrgyzstan10365(63.2)Monaco0Serbia excluding Kosovo'Serbia excluding Kosovo'Serbia excluding Kosovo'SuitzerlandUkrain) 0		0	0	(0.0)	0	(0.0)	0	(0.0)
Normal (42.) Denmark* 4 1 (25.) Estonia 11 6 (54.) Finland - - - Greace - - - - Greece - - - - Greace - - - - Liceland 0 0 - - Liceland 0 0 - - Litugi - - - - Litutia - - - - Litutia - - - - Norway* 4 3 (75.) - Poland - - - - Norway* 4 4 (100.) - Slovakia 1 1 (100.) - - Subraia 1 1 (100.) - - Subornia 1 </td <td>- 0</td> <td></td> <td>0</td> <td>0</td> <td>-</td> <td>0</td> <td>-</td> <td>0</td> <td>-</td>	- 0		0	0	-	0	-	0	-
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Estonia1116(54.)FinlandFranceGremanyGreeceHungary31(33.)Iceland00Ireland*90(0.)ItalyLatviaLiechtensteinLixembourg00MaltaNorway*43PolndPortugal14381Slovakia44Slovakia1100Subtotal EU/EEA639352SwedenAlbania84Albania84Armenia4328Georgia2819Israel86Kyrgyzstan103663Monaco00North Macedonia10Kyrgyzstan115685501Kyrgyzstan115685501Serbia excluding Kosovo'Serbia excluding Kosovo'SwitzerlandTurkey103663UzbekistanUzbekistanUzbekistanUzbekistanUzbekistanUzbekistanUzbekistanUzbekistan- <td>) 1</td> <td></td> <td>0</td> <td>2</td> <td>(28.6)</td> <td>1</td> <td>(14.3)</td> <td>0</td> <td>(0.0)</td>) 1		0	2	(28.6)	1	(14.3)	0	(0.0)
FinlandFranceGerenanyGreeceHungary31Iceland00Italuani90ItaluaniaLitviaLituania2018(90.0)MattaNorway'00MattaNorway'43(75.1)PolandPortugal14381(56.4)Romania171110(64.2)Slovakia44(100.4)Spain20782(39.4)SwedenSubtotal EU/EEA639352(55.7)Non-EU/EEA639352(55.7)Non-EU/EEA639352(55.7)Non-EU/EEA639352(55.7)Non-EU/EEA639556(81.2)Belarus6956(63.2)Bosnia and HerzegovinaGeorgia2819(67.5)Israel86(75.1)Kyrgyztan115685501(47.4)San MarinoSerbia excluding Kosovo'SuitzerlandTurkey113697(71.1)Turkey113697(71.2)UzbekistanUzbekistan<) 0		0	0	(0.0)	0	(0.0)	3	(75.0)
FranceGermanyGreeceHungary31(33.)Iceland00Ireland*90(1alyLatviaLitchtensteinLitchtensteinLuxmbourg00MaltaNorway*43PolandPortugal14381Slovania171110Slovania11Slovania11Subtotal EU/EEA639352SwedenSubtotal EU/EEA639352SonaiBelarus6956Sonia and HerzegovinaGeorgia2819SaralSubtotal FU/EEA30Sonia and HerzegovinaSusian and HerzegovinaSerbia excluding Kosovo'Serbia excluding Kosovo'Serbia excluding Kosovo'Susian Federation11568SoroiSuitzerlandSuitzerlandSuitzerlandSuitzerlandSuitzerland<) 4		1	0	(0.0)	0	(0.0)	0	(0.0)
GermanyGreeceHungary31Iceland00Ireland*90ItalyLatviaLithuania2018LichtensteinLithuania2018Luxembourg00MaltaPolandPortugal14381Slovakia171110Slovakia44Slovakia44Slovakia11100.0Spain20782SwedenSubtotal EU/EEA639352Albania4328Albania65(63.1)Andorra00Armenia4328AzerbaijanSubtotal EU/EEA63956Sonai and HerzegovinaGeorgia2819Israel86Monaco00MontenegroNorth Macedonia110Kyrgyzstan1136(74.4)Russian Federation1156(74.4)SerbiaSerbiaSerbiaSuitzerlandTurkey113(64.2)LitserlandSuitzerlandSerbia<			-	-	-	-	-	-	-
Creace			-	-	-	-	-	-	-
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Ireland*90(0.)ItalyLatviaLitechtensteinLithuania2018(90.)Luxembourg00MaltaNorway*43(75.)PolandPortugal14381(56.)Romania171110(64.)Slovakia44(100.)Spain20782(35.)SwedenSubtal EU/EEA639352(55.)Non-EU/EEA639352(55.)Non-EU/EEA639352(55.)Non-EU/EEA639352(55.)Non-EU/EEA639556(81.)Subtal EU/EEA639556(65.)AzerbaijanGeorgia2819(67.5)Israel86(75.1)Kyrgyzstan10365(63.)Monaco00North Macedonia110(0.0)Resubic of Moldova201129(64.2)Serbia excluding Kosovo'Serbia excluding Kosovo'SwitzerlandTurkey10363(67.1)United Kingdom*Uzbekistan	- 0		0	0	()),)	0	(0.0)	0	(0.0)
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Latvia			-	-	(0.0)	-	(0.0)	-	(100.0)
Litch Image: Constraint of the second of the s			-	-	-	-	-	-	
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Malta - - Netherlands 19 13 (68. Norway ^e 4 3 (75.) Poland - - - Portugal 143 81 (56.) Romania 171 110 (64.) Slovakia 4 4 (100.) Slovakia 1 1 (100.) Spain 207 82 (39.) Sweden - - - Subtotal EU/EEA 639 352 (55.) Non-EU/EEA 0 0 - Adbania 8 4 (50.) Andorra 0 0 - Belarus 69 56 (81.) Bosnia and Herzegovina - - - Georgia 28 190 (73.4) Kyrgyztan 103 655 64.2 Monaco 0 - - North Macedonia <td></td> <td></td> <td>0</td> <td>0</td> <td></td> <td>0</td> <td>(0.0)</td> <td>0</td> <td>(0.0)</td>			0	0		0	(0.0)	0	(0.0)
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Norway*43(75.1)PolandPortugal14381(56.1)Romania171110(64.2)Slovakia44(100.0)Slovania11(100.0)Spain20782(39.0)SwedenSubtat EU/EEA6333322(55.7)Non-EU/EEA6333322(55.7)Non-EU/EEA6333322(55.7)Non-EU/EEA63328(65.7)Albania84(50.0)Armenia43328(65.7)AzerbaijanBelarus6956(81.1)Bosnia and HerzegovinaGeorgia228199(67.2)Israel86(75.1)Kyrgyzstan10365(63.2)Monaco00-North Macedonia110(0.0)Russian Federation115685501(47.0)SerbiaSerbia excluding Kosova'SwitzerlandTurkey10363(67.1)Turkey10363(67.1)Ustraine43253.077(71.1)United Kingdom*Uzbekistan				-		-		-	
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Slovakia44(100.4Slovenia11(100.4)Spain20782(39.4)SwedenSubtal EU/EEA639332(55.4)Andorra00-Albania84(50.4)Andorra00-Belarus6956(81.2)Bosnia and HerzegovinaGeorgia28190(75.4)Israel86(65.2)Monaco00-North Macedonia110365(63.2)North Macedonia1100.0Serbia excluding Kosova'Switzerland13697-Switzerland13697-Tajikistan13697-SwitzerlandUkraine43253077(71.2)Turkey103633077Ukraine43253077-UzbekistanUzbekistanUzbekistanUzbekistanUzbekistanUzbekistanUzbekistanUzbekistanUzbekistanUzbekistanUzbekistanUzbekistanUzbekistan <td< td=""><td></td><td></td><td>1</td><td>7</td><td>(4.9)</td><td>36</td><td>(25.2)</td><td>9</td><td>(6.3)</td></td<>			1	7	(4.9)	36	(25.2)	9	(6.3)
Slovenia11(100.0)Spain20782(39.0)SwedenSubtal EU/EEA639352(55.Non-EU/EEA00Albania84(50.0)Andorra00Armenia43328(65.AzerbaijanBelarus6956(81.2)Bosnia and HerzegovinaGeorgia228199(67.3)Israel86(75.1)Kazakhstan258190(75.1)Konaco000MontenegroNorth Macedonia110(0.0)Russian Federation115685501(47.4)Serbia excluding Kosovo'SwitzerlandTurkey1033653(67.1)Turkey1033653(71.2)Turkey1033653(71.2)United Kingdom*UzbekistanUzbekistanUzbekistanUzbekistanUzbekistanUzbekistanUzbekistanUzbekistanUzbekistanUzbekistanUzbekistanUzbekistanUzbekistan<			1	28	(16.4)	6	(3.5)	0	(0.0)
Spain 207 82 (39.4) Sweden -) 0		0	0	(0.0)	0	(0.0)	0	(0.0)
Sweden Subtotal EU/EEA 639 352 (55: Non-EU/EEA 639 352 (55: Albania 8 4 (50.0) Andorra 0 0 0 Armenia 43 28 (65.1) Azerbaijan 6 6 Belarus 69 56 (81.2) Belarus 69 56 (81.2) Bosnia and Herzegovina Georgia 228 19 (67.2) Israel 8 6 (75.4) Kyrgyzstan 103 655 (63.2) Monaco 0 0 (71.2) Kyrgyzstan 103 655 (64.2) North Macedonia 11 0 (0.0) Resubil of Moldova 2011 129 (64.2) San Marino - - Serbia excluding Kosovo ¹ - - -) 0		0	0	(0.0)	0	(0.0)	0	(0.0)
Subtotal EU/EEA 639 352 (55. Non-EU/EEA) 13		0	1	(0.5)	5	(2.4)	106	(51.2)
Non-EU/EEA Image: Constraint of the second of			-	-	-	-	-	-	-
Albania 8 4 (50.4) Andorra 0 0 0 Armenia 43 28 (65. Azerbaijan 6 Belarus 669 56 (81.2) Bosnia and Herzegovina 6 (75.1) Georgia 28 19 (67.2) Israel 8 6 (75.1) Kazakhstan 258 190 (73.4) Kyrgyzstan 103 65 (63.2) Monaco 0 0 (74.1) Russian Federation 1158 5501 (47.4) San Marino Serbia Serbia excluding Kosovo ¹ Kosova ¹ Switzerland Turkey 103 63 67.1 Turkey 1307 7(71.2)<) 59		4	44	(6.9)	51	(8.0)	129	(20.2)
Andorra 0 0 Armenia 43 28 (65. Azerbaijan - - 65. Bosnia and Herzegovina - 67. 67. Georgia 28 19 (67.: Israel 8 6 (75.: Kazakhstan 258 190 (73.: Kyrgyzstan 103 65 (63.: Monaco 0 0 0 North Macedonia 1 0 (0.0. Republic of Moldova 201 129 (64.: Russian Federation 11568 5501 (47.: San Marino - - - Serbia excluding Kosovo ¹ - - - Switzerland - - - - Switzerland - - - - Turkey 103 63 67.: - Ukraine 4325 3 077 71.: -									
Armenia 43 28 (65. Azerbaijan - - - Belarus 69 56 (81.) Bosnia and Herzegovina - - - Georgia 28 19 (67.) Israel 8 66 (75.) Kazakhstan 258 190 (73.) Kyrgyzstan 103 655 (63.) Monaco 0 0 0 Montenegro - - - North Macedonia 1 0 (0.0) Russian Federation 11568 5501 (47.0) San Marino - - - Serbia - - - - Switzerland - - - - Turkey 103 63 (67.) - Switzerland - - - - Turkey 103 63 (67.) -) 3		0	1	(12.5)	-	-	0	(0.0)
Azerbaijan Belarus 69 56 Bosnia and Herzegovina Georgia 28 19 (67.3) Israel 8 6 (75.4) Kazakhstan 258 190 (73.4) Kyrgyzstan 103 65 (66.2) Monaco 0 0 0 Montenegro 100 (0.4) Russian Federation 11568 5501 (47.4) San Marino 5 Serbia Kosovo' Switzerland 136 97 (71.2) Turkey 103 63 66.7 Ukraine 4325 3077 (71.2)	- 0		0	0	-	-	-	0	-
Belarus 69 56 (81) Bosnia and Herzegovina -) 10		4	1	(2.3)	-	-	0	(0.0)
Bosnia and Herzegovina - Georgia 28 19 (67.9) Israel 8 6 (75.4) Kazakhstan 258 190 (73.4) Kyrgyzstan 1003 655 (63.7) Monaco 0 0 0 Monaco 0 0 0 North Macedonia 11 0 (0.0) Republic of Moldova 201 129 (64.2) Russian Federation 11568 5501 (47.4) San Marino - - - Serbia excluding Kosovo ¹ - - - Sosovo ¹ - - - - Switzerland - - - - Turkey 103 63 (61.2) - Ukraine 4325 3077 (71.2) -			-	-	-	-	-	-	-
Georgia 28 19 (67.9) Israel 8 6 (75.4) Kazakhstan 258 190 (73.4) Kyrgyzstan 103 65 (63.7) Monaco 0 0 0 Montenegro - - 0 0 Republic of Moldova 201 129 (64.7) Russian Federation 11568 5501 (47.6) San Marino - - - Serbia - - - Serbia excluding Kosovo ¹ - - - Switzerland - - - Turkey 103 63 (67.1) Turkey 103 63 (67.1) United Kingdom* - - - Uzbekistan - - -) 6		5	2	(2.9)	-	-	0	(0.0)
Georgia 28 19 (67.9) Israel 8 6 (75.4) Kazakhstan 258 190 (73.4) Kyrgyzstan 103 65 (63.7) Monaco 0 0 0 Montenegro - - 0 0 Republic of Moldova 201 129 (64.7) Russian Federation 11568 5501 (47.6) San Marino - - - Serbia - - - Serbia excluding Kosovo ¹ - - - Switzerland - - - Turkey 103 63 (67.1) Turkey 103 63 (67.1) United Kingdom* - - - Uzbekistan - - -			-	-	-	-	-	-	-
Israel 8 6 (75.1) Kazakhstan 258 190 (73.4) Kyrgyzstan 103 65 (63.7) Monaco 0 0 0 Monaco 0 0 0 North Macedonia 1 0 (0.0) Republic of Moldova 201 129 (64.3) Russian Federation 11568 5501 (47.0) San Marino - - - Serbia - - - Serbia excluding Kosovo ¹ - - - Switzerland - - - Switzerland - - - Turkey 103 63 (61.2) Turkey 103 63 61.2 Ukraine 4325 3077 (71.2) Ukraine 4325 3077 (71.2)) 1		2	3	(10.7)	-	-	3	(10.7)
Kazakhstan 258 190 (73.1 Kyrgyzstan 103 65 (63. Monaco 0 0 0 Montenegro - - 0 North Macedonia 11 0 (0.0 Republic of Moldova 201 129 (64.3 Russian Federation 11568 5501 (47.0 San Marino - - - Serbia excluding Kosovo ¹ - - - Serbia excluding Kosovo ¹ - - - Switzerland - - - Tajikistan 136 97 (71.2 Turkey 103 63 (61.2 Ukraine 4325 3077 (71.2 United Kingdom ⁴ - - -			0	0	(0.0)	-	-	2	(25.0)
Kyrgyzstan 103 65 (63. Monaco 0 0 0 Montenegro - - 0 0 North Macedonia 1 0 (0.0. Republic of Moldova 2001 129 (64 Russian Federation 11568 5501 (47.0) San Marino - - - Serbia excluding Kosovo ¹ - - - Serbia excluding Kosovo ¹ - - - Switzerland - - - - Tajikistan 136 97 (71.: - Turkey 103 63 (62.1) - Ukraine 4325 3 077 (71. - Uzbekistan - - - -			7	15	(5.8)	-	-	0	(0.0)
Monaco 0 0 Montenegro - - North Macedonia 1 0 (0.1 Republic of Moldova 201 129 (64 Russian Federation 11568 5501 (47.4) San Marino - - Serbia - Serbia - - - Switzerland - Switzerland - - - - - Switzerland - - - - - - - Switzerland -			2	12	(11.7)	-	-	0	(0.0)
Montenegro North Macedonia 1 0 (0.0 Republic of Moldova 201 129 (64.3 Russian Federation 11568 5501 (47.4 San Marino - - - Serbia - - - Serbia excluding Kosovo ¹ - - - Switzerland - - - Tajikistan 136 97 (71.2 Turknenistan - - - Ukraine 4325 3077 (71.2 United Kingdom ⁸ - - - Uzbekistan - - -	- 0		0	0	(1.7)	-	-	0	(0.0)
North Macedonia 1 0 (0.0 Republic of Moldova 201 129 (64.3 Russian Federation 11568 5501 (47.4 San Marino - - - Serbia - - - Serbia excluding Kosovo ¹ - - - Switzerland - - - Tajikistan 136 97 (71.2 Turkey 103 63 (61.2 Ukraine 4325 3077 (71.2 United Kingdom* - - - Uzbekistan - - -			_	-	-	-	-	-	-
Republic of Moldova 201 129 (64.: Russian Federation 11568 5501 (47. San Marino - - - Serbia - - - Serbia excluding Kosovo ¹ - - - Sosovo ¹ - - - Switzerland - - - Tajikistan 136 97 (71.: Turkey 103 63 (61.: Ukraine 4325 3077 (71. United Kingdom* - - - Uzbekistan - - -			0	0	(0.0)		-	0	(0.0)
Russian Federation 11 568 5 501 (47.4) San Marino -				21	(10.4)	-	-	1	(0.0)
San Marino Serbia Serbia excluding Kosovo ¹ Kosovo ¹ Switzerland Tajikistan 136 Turkey 103 Ukraine 4325 Ukraine 3077 Uzbekistan		4	13						
Serbia excluding Kosovo ¹ - Kosovo ¹ - Switzerland - Tajikistan 136 97 Turkey 103 63 Turkmenistan - - Ukraine 4325 3 077 United Kingdom ^e - - Uzbekistan - -) 2 712	1	1 277	1 145	(9.9)	-	-	933	(8.1)
Serbia excluding Kosovo ¹ - Kosovo ¹ - Switzerland - Tajikistan 136 97 Turkey 103 63 Turkmenistan - - Ukraine 4325 3 077 United Kingdom ^e - - Uzbekistan - -			-	-	-	-	-	-	-
Kosovo' - Switzerland - Tajikistan 136 97 Turkey 103 63 Turkmenistan - - Ukraine 4325 3 077 Ulnited Kingdom* - - Uzbekistan - -			-	-	-	-	-	-	-
Switzerland - Tajikistan 136 97 (71.: Turkey 103 63 (61.: Turkmenistan - - - Ukraine 4 325 3 077 (71.: United Kingdom ^e - - - Uzbekistan - - -			-	-	-	-	-	-	-
Tajikistan 136 97 (71.: Turkey 103 63 (61.: Turkmenistan - - - Ukraine 4 325 3 077 (71.: United Kingdom ^e - - - Uzbekistan - - -			-	-	-	-	-	-	-
Turkey 103 63 (61.2000) Turkmenistan -			2	9	(6.6)	-	-	0	(0.0)
Turkmenistan – – Ukraine 4 325 3 077 (71. United Kingdom ^e – – – Uzbekistan – – –			1	2	(0.0)	_	-	20	(0.0)
Ukraine 4 325 3 077 (71. United Kingdom ^e - - - Uzbekistan - - -			-		(1.9)		-		(19.4)
United Kingdom ^e – – Uzbekistan – –				-	-	-		-	(0, 0)
Uzbekistan – –) 785		180	282	(6.5)	-	-	1	(0.0)
			-	-	-	-	-	-	-
Subtotal non-EU/EEA 16 851 9 235 (54.8			-	-	-	-	-	-	-
			1 493	1 493	(8.9)	0	(0.0)	960	(5.7)
Total European Region 17 490 9 587 (54.8 Subtotal 18 HPCs 17 037 9 360 (54.8			1 497 1 495	1 537 1 520	(8.8) (8.9)	51 6	(0.3)	1 089 <i>958</i>	(6.2)

Table 20. Treatment outcome of HIV-positive new and relapse^a TB cases notified in 2019, European Region, 2020

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 outcome are not reported. For inclusion in the cohort, drug-susceptibility data are also required. HPCs: 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". ^a 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	uated ^d
	in 2019 ⁶	N	(%)	N	(%)	N	(%)	N	(%)	N	(%)
EU/EEA											
Austria	-	-	-	-	-	-	-	-	-	-	-
Belgium	13	11	(84.6)	0	(0.0)	0	(0.0)	2	(15.4)	0	(0.0)
Bulgaria	7	4	(57.1)	1	(14.3)	0	(0.0)	1	(14.3)	1	(14.3)
Croatia	-	-	-	-	-	-	-	-	-	-	-
Cyprus	-	-	-	-	-	-	-	-	-	-	-
Czechia	6	5	(83.3)	0	(0.0)	0	(0.0)	1	(16.7)	0	(0.0)
Denmark	-	-	-	-	-	-	-	-	-	-	-
Estonia	2	2	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Finland	_	-	-	-	-	-	-	-	-	-	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	44	20	(45.5)	1	(2.3)	0	(0.0)	12	(27.3)	11	(25.0)
Greece	-	-	(+5.5)	-	(2.3)	-	(0.0)	-	(21.5)	-	(2010)
Hungary	_	-	-	-	-	-	-	_	-	-	-
Iceland	-	-	-	-	-	-	-	-	-	-	-
Ireland	-	_	-	_	_	-	_	_	-	_	_
Italy	-	-	-	-	-	-	-	-	-	-	-
Latvia		-	-	-	-	-	-	-	-	-	-
Liechtenstein	-	-	-	-	-	-	-	-	-	-	-
Lithuania	18	10	(55.6)	0	(0.0)	0	(0.0)	0	(0.0)	8	(44.4)
Luxembourg	0	-	-	0	-	0	-	0	-	0	-
Malta	-	-	-	-	-	-	-	-	-	-	-
Netherlands	17	7	(41.2)	0	(0.0)	0	(0.0)	5	(29.4)	5	(29.4)
Norway	-	-	-	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-	-	-	-
Portugal	42	25	(59.5)	2	(4.8)	0	(0.0)	2	(4.8)	13	(31.0)
Romania	108	86	(79.6)	2	(1.9)	1	(0.9)	8	(7.4)	11	(10.2)
Slovakia	6	6	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Slovenia	-	-	-	-	-	-	-	-	-	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	-	-	-	-	-	-	-	-	-	-	-
Subtotal EU/EEA	263	176	(66.9)	6	(2.3)	1	(0.4)	31	(11.8)	49	(18.6)
Non-EU/EEA											
Albania	6	6	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Andorra	0	0	-	0	-	0	-	0	-	0	-
Armenia	2	0	(0.0)	0	(0.0)	1	(50.0)	1	(50.0)	0	(0.0)
Azerbaijan	116	112	(96.6)	2	(1.7)	1	(0.9)	0	(0.0)	1	(0.9)
Belarus	23	20	(87.0)	1	(4.3)	1	(4.3)	1	(4.3)	0	(0.0)
Bosnia and Herzegovina	-	-	-	-	-	-	-	-	-	-	-
Georgia	22	22	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Israel	0	0	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Kazakhstan	77	67	(87.0)	1	(1.3)	4	(5.2)	5	(6.5)	0	(0.0)
Kyrgyzstan	95	77	(87.0)	3	(3.2)	3	(3.2)	12	(12.6)	0	(0.0)
	0	0	(01.1)	0	(3.2)	0	(3.2)	0	(12.0)	0	(0.0)
Monaco			_		_		_		_		-
Montenegro	1	1	(100.0)	0	-	0	(0, 0)	0	-	0	
North Macedonia	2	2	(100.0)		(0.0)	0	(0.0)	0	(0.0)		(0.0)
Republic of Moldova	84	66	(78.6)	4	(4.8)	6	(7.1)	4	(4.8)	4	(4.8)
Russian Federation	5 611	3 133	(55.8)	160	(2.9)	470	(8.4)	232	(4.1)	1 616	(28.8)
San Marino	-	-	-	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-	-	-	-
Serbia excluding Kosovo ¹	-	-	-	-	-	-	-	-	-	-	-
Kosovo ¹	-	-	-	-	-	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	-	-	-	-	-
Tajikistan	79	70	(88.6)	4	(5.1)	2	(2.5)	2	(2.5)	1	(1.3)
Turkey	188	146	(77.7)	16	(8.5)	3	(1.6)	10	(5.3)	13	(6.9)
Turkmenistan	-	-	-	-	-	-	-	-	-	-	-
Ukraine	453	343	(75.7)	26	(5.7)	34	(7.5)	50	(11.0)	0	(0.0)
United Kingdom	-	-	-	-	-	-	-	-	-	-	-
Uzbekistan	-	-	-	-	-	-	-	-	-	-	-
Subtotal non-EU/EEA	6 759	4 0 6 5	(60.1)	217	(3.2)	525	(7.8)	317	(4.7)	1 6 3 5	(24.2)
Total European Region	7 022	4 2 4 1	(60.4)	223	(3.2)	526	(7.5)	348	(5.0)	1 684	(24.0)

Table 21. Treatment outcome among new and relapse^a TB cases in prisons notified in 2019, European Region, 2020

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 outcome are not reported. For inclusion in the cohort, drug-susceptibility data are also required. HPCs: high-priority countries. * Cases with unknown previous TB history are included among new TB cases. * Rifampicin-resistant TB cases are excluded. CIN previous reports defined as "defaulted". 4 In previous reports defined as "transferred out and unknown". * All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

Table 22. Treatment outcome after 24 months of RR/MDR-TB cases started on second-line treatment in 2018, European Region, 2020

6	RR/MDR-TB ^a cases started on	Succ	ess	Die	đ	Faile	d	Lost to fol	low up ^c	Still on tre	atment	Not eval	uated ^d
Country/area	second-line treatment ^b in 2018	N	(%)	N	(%)	N	(%)	N	(%)	N	(%)	N	(%)
EU/EEA													
Austria	18	15	(83.3)	1	(5.6)	0	(0.0)	0	(0.0)	1	(5.6)	1	(5.6)
Belgium	9	7	(77.8)	1	(11.1)	0	(0.0)	1	(11.1)	0	(0.0)	0	(0.0)
Bulgaria	28	17	(60.7)	4	(14.3)	1	(3.6)	5	(17.9)	0	(0.0)	1	(3.6)
Croatia	2	0	(0.0)	1	(50.0)	0	(0.0)	0	(0.0)	0	(0.0)	1	(50.0)
Cyprus	0	-	-	-	-	-	-	_	-	_	-	-	_
Czechia	12	4	(33.3)	1	(8.3)	0	(0.0)	4	(33.3)	1	(8.3)	2	(16.7)
Denmark	4	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	4	(100.0)
Estonia	31	23	(74.2)	4	(12.9)	0	(0.0)	1	(3.2)	1	(3.2)	2	(6.5)
Finland	3	2	(66.7)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	1	(33.3)
France	_	_	-	-	-	-	-	-	-	_	-	-	(
Germany	131	83	(63.4)	4	(3.1)	2	(1.5)	4	(3.1)	10	(7.6)	44	(33.6)
Greece	-	-	(0511)	-	(511)	-	(_	(311)	-	-	-	(3510)
Hungary	13	6	(46.2)	3	(23.1)	0	(0.0)	0	(0.0)	1	(7.7)	3	(23.1)
Iceland	0	-	(+0.2)	_	(2011)	_	(0.0)	_	(0.0)	_	(,,,)	_	(2011)
Ireland	8	1	(12.5)	1	(12.5)	0	(0.0)	1	(12.5)	0	(0.0)	5	(62.5)
Italy	-	-	(12.)	-	(12.J)	-	(0.0)	-	(12.)	_	(0.0)	_	(02.)
Latvia	-	_	_	-	_	_	_	_	_	_	_	_	_
Liechtenstein	-	-	-	-	-	-	-	_	-	_	-	-	-
Lithuania	189	103	(54.5)	31	(16.4)	12	(6.3)	20	(10.6)	23	(12.2)	0	(0.0)
Luxembourg	-	-	()4.)/	-	(10.4)	-	(0.)	-	(10.0)	-	(12.2)	-	(0.0)
Malta		-	_	-	_	-	-	_	-		-	-	-
Netherlands	6	5	(83.3)	1	(16.7)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
	6	5	(83.3)		(0.0)	1	(16.7)	0	(0.0)	0	(0.0)	0	(0.0)
Norway Poland	0	-	(03.3)	0	(0.0)	-	(10.7)	-	(0.0)	-	(0.0)	-	(0.0)
		- 7	((2, ())	0	(0, 0)	0	(0, 0)		(0, 0)			2	(10.2)
Portugal	11		(63.6)		(0.0)		(0.0)	0	(0.0)	2	(18.2)		(18.2)
Romania	439	192	(43.7)	81	(18.5)	81	(18.5)	73	(16.6)	12	(2.7)	0	(0.0)
Slovakia	3	2	(66.7)	1	(33.3)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Slovenia	0	-	-		-		-	-	-	-	-	-	-
Spain	-		-	-	-	-	-	-	-	-		-	-
Sweden	14	14	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Subtotal EU/EEA	927	486	(52.4)	134	(14.5)	97	(10.5)	109	(11.8)	51	(5.5)	66	(7.1)
Non-EU/EEA	4	2	(75.0)	1	(25.0)	0	(0, 0)	0	(0, 0)			0	(0, 0)
Albania	4	3	(75.0)	1	(25.0)	0	(0.0)	0	(0.0)	_	-	0	(0.0)
Andorra	0	0	((5.0)	0	(45.2)	0	(12.0)	0				0	(0, 0)
Armenia	85	39	(45.9)	13	(15.3)	11	(12.9)	22	(25.9)	-	-	0	(0.0)
Azerbaijan	821	471	(57.4)	94	(11.4)	142	(17.3)	114	(13.9)	-	-	0	(0.0)
Belarus	919	670	(72.9)	87	(9.5)	60	(6.5)	95	(10.3)	-	-	7	(0.8)
Bosnia and Herzegovina	-	-	-	-	(5.7)	-	(= =)	-	-	-	-	-	((=)
Georgia	230	155	(67.4)	13	(5.7)	13	(5.7)	34	(14.8)	-	-	15	(6.5)
Israel	14	9	(64.3)	2	(14.3)	0	(0.0)	2	(14.3)	-	-	1	(7.1)
Kazakhstan	4 336	3 499	(80.7)	408	(9.4)	182	(4.2)	216	(5.0)	-	-	31	(0.7)
Kyrgyzstan	1 244	775	(62.3)	122	(9.8)	97	(7.8)	249	(20.0)	-	-	1	(0.1)
Monaco	0	0	-	0	-	0	-	0	-	-	-	0	-
Montenegro	1	1	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	-	-	0	(0.0)
North Macedonia	2	1	(50.0)	0	(0.0)	0	(0.0)	1	(50.0)	-	-	0	(0.0)
Republic of Moldova	921	541	(58.7)	98	(10.6)	111	(12.1)	169	(18.3)	-	-	2	(0.2)
Russian Federation	28 706	14 757	(51.4)	4 488	(15.6)	4 133	(14.4)	3 081	(10.7)	-	-	2 247	(7.8)
San Marino	-	-	-	-	-	-	-	-	-	-	-	-	-
Serbia	-	-	-	-	-	-	-	-	-	-	-	-	-
Serbia excluding Kosovo ¹	-	-	-	-	-	-	-	-	-	-	-	-	-
Kosovo ¹	-	-	-	-	-	-	-	-	-	-	-	-	-
Switzerland	9	6	(66.7)	0	(0.0)	0	(0.0)	0	(0.0)	-	-	3	(33.3)
Tajikistan	727	510	(70.2)	95	(13.1)	23	(3.2)	88	(12.1)	-	-	11	(1.5)
Turkey	180	99	(55.0)	20	(11.1)	2	(1.1)	9	(5.0)	-	-	50	(27.8)
Turkmenistan	549	248	(45.2)	92	(16.8)	98	(17.9)	92	(16.8)	-	-	19	(3.5)
Ukraine	5 953	3 006	(50.5)	970	(16.3)	1 033	(17.4)	926	(15.6)	-	-	18	(0.3)
United Kingdom	40	30	(75.0)	2	(5.0)	0	(0.0)	4	(10.0)	-	-	4	(10.0)
Uzbekistan	2 039	1 375	(67.4)	278	(13.6)	120	(5.9)	173	(8.5)	-	-	93	(4.6)
Subtotal non-EU/EEA	46 780	26 195	(56.0)	6 783	(14.5)	6 025	(12.9)	5 275	(11.3)	0	(0.0)	2 502	(5.3)
Total European Region	47 707	26 681	(55.9)	6 917	(14.5)	6 122	(12.8)	5 384	(11.3)	51	(0.1)	2 568	(5.4)
Subtotal 18 HPCs	47 397	26 480	(55.9)	6 898	(14.6)	6 119	(12.9)	5 367	(11.3)	36	(0.1)	2 497	(5.3)

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

Country/area	Pre-XDR-TB ^a cases started on second-	Succ	ess	Die	d	Faile	ed	Lost to foll	low-up ^c	Still on tre	eatment	Not eval	uated⁴
	line treatment	N	(%)	N	(%)	N	(%)	N	(%)	N	(%)	N	(%)
EU/EEA													
Austria	5	3	(60.0)	1	(20.0)	0	(0.0)	0	(0.0)	1	(20.0)	0	(0.0)
Belgium	5	4	(80.0)	1	(20.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Bulgaria	5	2	(40.0)	1	(20.0)	1	(20.0)	0	(0.0)	0	(0.0)	1	(20.0)
Croatia	0	0	-	0	-	0	-	0	-	0	-	0	-
Cyprus	0	0	-	0	-	0	-	0	-	0	-	0	-
Czechia	3	0	(0.0)	1	(33.3)	0	(0.0)	1	(33.3)	0	(0.0)	1	(33.3
Denmark	0	0	-	0	-	0	-	0	-	0	-	0	-
Estonia	10	9	(90.0)	0	(0.0)	0	(0.0)	0	(0.0)	1	(10.0)	0	(0.0
Finland	1	1	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
France	-	-	-	-	-	-	-	-	-	-	-	-	-
Germany	27	14	(51.9)	2	(7.4)	2	(7.4)	0	(0.0)	2	(7.4)	7	(25.9)
Greece	-	-	-	-	_	-	_	-	_	-	_	-	-
Hungary	6	1	(16.7)	1	(16.7)	0	(0.0)	0	(0.0)	1	(16.7)	3	(50.0)
Iceland	0	0	-	0	-	0	(010)	0	(010)	0	-	0	(5010
Ireland	0	0	-	0	-	0	-	0	-	0	-	0	-
Italy	-	-	-	-	-	-	-	-	-	-	-	_	
Latvia	-	-	-	-	-	-	-	_	-	_	-	-	
Liechtenstein	_	_	_	_	_	_	-	_	_	_	_	_	
Lithuania	76	23	(30.3)	13	(17.1)	10	(13.2)	7	(9.2)	23	(30.3)	0	(0.0
Luxembourg	/0	- 25	(30.3)	-	(17.1)	-	(15.2)	/	(9.2)	- 25	(30.3)	-	(0.0,
Malta	_	-	-	-	-	-	-	-	-	-	-	-	-
Netherlands	2	2	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	
	1	2										0	(0.0)
Norway			(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)		(0.0)
Poland	-	-	-	-	-	-	-	-	-	-	-	-	-
Portugal	0	0		0		0	-	0	-	0	-	0	-
Romania	69	10	(14.5)	21	(30.4)	30	(43.5)	2	(2.9)	6	(8.7)	0	(0.0)
Slovakia	1	0	(0.0)	1	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Slovenia	0	0	-	0	-	0	-	0	-	0	-	0	-
Spain	-	-	-	-	-	-	-	-	-	-	-	-	-
Sweden	0	0	-	0	-	0	-	0	-	0	-	0	-
Subtotal EU/EEA	211	70	(33.2)	42	(19.9)	43	(20.4)	10	(4.7)	34	(16.1)	12	(5.7)
Non-EU/EEA		0		0		0		0				0	
Albania	0	0	-	0	-	0	-	0	-	-	-	0	-
Andorra	0	0	-	0	-	0	-	0	-	-	-	0	-
Armenia	14	3	(21.4)	4	(28.6)	3	(21.4)	4	(28.6)	-	-	0	(0.0)
Azerbaijan	189	116	(61.4)	15	(7.9)	27	(14.3)	31	(16.4)	-	-	0	(0.0)
Belarus	383	293	(76.5)	32	(8.4)	33	(8.6)	25	(6.5)	-	-	0	(0.0)
Bosnia and Herzegovina	-	-	-	-	-	-	-	-	-	-	-	-	-
Georgia	54	29	(53.7)	3	(5.6)	11	(20.4)	7	(13.0)	-	-	4	(7.4)
Israel	2	1	(50.0)	0	(0.0)	1	(50.0)	0	(0.0)	-	-	0	(0.0
Kazakhstan	386	293	(75.9)	35	(9.1)	34	(8.8)	21	(5.4)	-	-	3	(0.8)
Kyrgyzstan	105	55	(52.4)	19	(18.1)	10	(9.5)	21	(20.0)	-	-	0	(0.0
Monaco	0	0	-	0	-	0	-	0	-	-	-	0	-
Montenegro	-	-	-	-	-	-	-	-	-	-	-	-	-
North Macedonia	0	0	-	0	-	0	-	0	-	-	-	0	-
Republic of Moldova	62	32	(51.6)	19	(30.6)	2	(3.2)	2	(3.2)	-	-	7	(11.3
Russian Federation	27	11	(40.7)	6	(22.2)	6	(22.2)	1	(3.7)	-	-	3	(11.1
San Marino	-	-	-	-	-	-	-	-	-	-	-	-	
Serbia	-	-	-	-	-	-	-	-	-	-	-	-	-
Serbia excluding Kosovo ¹	-	-	-	-	-	-	-	-	-	-	-	-	-
Kosovo ¹	-	-	-	-	-	-	-	-	-	-	-	-	-
Switzerland	1	1	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	-	-	0	(0.0)
Tajikistan	63	42	(66.7)	10	(15.9)	5	(7.9)	6	(9.5)	-	-	0	(0.0
Turkey	8	1	(12.5)	1	(12.5)	0	(0.0)	0	(0.0)	-	-	6	(75.0
Turkmenistan	28	8	(28.6)	8	(28.6)	10	(35.7)	2	(7.1)	_	-	0	(0.0)
Ukraine	1 479	o 505	(34.1)	0 195	(13.2)	622	(42.1)	157	(10.6)	-	-	0	(0.0
United Kingdom	5	2	(40.0)	0	(0.0)	0	(42.1)	0	(10.6)	-	-	3	(60.0
*										_			
Uzbekistan	404	280	(69.3)	62	(15.3)	27	(6.7)	20	(5.0)	-	(0, 0)	15	(3.7
Subtotal non-EU/EEA	3 210	1 672	(52.1)	409	(12.7)	791	(24.6)	297 307	(9.3) (9.0)	0 34	(0.0)	41 53	(1.3
Total European Region	3 421	1 742	(50.9)	451	(13.2)	834							

Table 23. Treatment outcome after 24 months of pre-XDR-TB cases started on second-line treatment in 2018, European Region, 2020

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 outcome are not reported. For inclusion in the cohort, drug-susceptibility data are also required. HPCs: high-priority countries. Pre-XDR-TB defined as resistance to rifampicin (RR/MDR-TB) as well as resistance to any fluoroquinolone. Includes cases that are pre-XDR but that also meet the XDR case definitions (XDR cases have not been excluded). ^b For EU/EEA countries, cases diagnosed postmortem are excluded, and cases with no treatment enrolment data reported are assumed to be enrolled in treatment. ^c In previous reports defined as "defaulted". ^a In previous reports defined as "defaulted". ^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	XDR-TB ^a cases reported in	Succe	55	Die	d	Fai	led	Lost to fol	llow-up ^b	Not evalu	ated
	2017	N	(%)	N	(%)	N	(%)	N	(%)	N	(%)
EU/EEA											
Austria	2	0	(0.0)	1	(50.0)	0	(0.0)	0	(0.0)	1	(50.0)
Belgium	0	0	-	0	-	0	-	0	-	0	-
Bulgaria	4	2	(50.0)	1	(25.0)	0	(0.0)	0	(0.0)	1	(25.0)
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	3	1	(33.3)	1	(33.3)	1	(33.3)	0	(0.0)	0	(0.0)
Finland	0	0	-	0	-	0	-	0	-	0	-
France	-	-	-	-	-	-	-	-	-	-	-
Germany	13	5	(38.5)	0	(0.0)	0	(0.0)	1	(7.7)	7	(53.8)
Greece	0	0	-	0	-	0	-	0	-	0	-
Hungary	0	0	-	0	-	0	-	0	-	0	-
Iceland	0	0	-	0	-	0	-	0	-	0	-
Ireland	-	-	-	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-	-	-	-
Liechtenstein	-	-	-	-	-	-	-	-	-	-	-
Lithuania	1	0	(0.0)	0	(0.0)	0	(0.0)	1	(100.0)	0	(0.0)
Luxembourg	-	-	-	-	-	-	-	-	-	-	-
Malta	-	-	-	-	-	-	-	-	-	-	-
Netherlands	0	0	-	0	-	0	-	0	-	0	-
Norway	0	0	-	0	-	0	-	0	-	0	-
Poland	-	-	-	-	-	-	-	-	-	-	-
Portugal	2	2	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)
Romania	1	0	(0.0)	1	(100.0)	0	(0.0)	0	(0.0)	0	(0.0)
Slovakia	0	0	-	0	-	0	-	0	-	0	-
Slovenia	0	0	-	0	-	0	-	0	-	0	-
Spain	-	-	-	-	-	-	-	-	-	-	-
Sweden	0	0	-	0	-	0	-	0	-	0	-
Total EU/EEA	26	10	(38.5)	4	(15.4)	1	(3.8)	2	(7.7)	9	(34.6)

Table 24. Treatment outcome after 36 months of XDR-TB notified in 2017, EU/EEA, 2020

Note: WHO European Region 18 TB high-priority countries are presented in italics. Country data are shown as missing (-) when data on treatment outcome are not reported. For inclusion in the cohort, drug-susceptibility data are also required. TESSy: The European Surveillance System. XDR-TB: extensively drug-resistant tuberculosis. *XDR-TB defined as resistance to rifampicin and to at least one fluoroquinolone (pre-XDR-TB) as well as resistance to at least one additional Group A drug, Group A drugs include: levofloxacin, moxifloxacin, bedaquiline and linezolid. For EU/EEA countries, linezolid resistance is not yet reported to TESSy, therefore XDR-TB is assessed on resistance to levofloxacin, moxifloxacin and/or bedaquiline (in addition to meeting pre-XDR-TB criteria). ^b In previous reports defined as "transferred out and unknown".

				1.	ntegrated,	patient-o	centred car	e and preve	ntion				
	Systematic screening of contacts and high-risk groups	Early diagnosi	is of all form		ıd universal rapid tests	access t	o DST, incl	uding the	continu	um of care istant TB;	ess to quali for all peop and patien stment adho	ole with TB t support t	nt and , including o facilitate
Country	1.A.1 Coverage of population at risk with systematic screening for active TB and LTB1. Target = 80%	1.B.1 Percentage of notified new and relapse TB patients diagnosed using WHO-recommended rapid tests (G). Target 2 90%	1.8.2 First-line DST coverage (%) among all bacteriologically confirmed TB cases (G). ³ Target = 100%	1.8.3 RR/MDR-TB case-detection rate (%). ³ Target = 85%	1.8.4 TB notification rate per 100 000 population (E). Target = 24.6 per 100 000 population	1. B.5 TB case-detection rate (%). Target: increase	1.B.6 Percentage of RR/MDR-TB among new TB patients (E). ¹ Target: decrease	1.B.7 Percentage of RR/MDR-TB among previously treated TB patients.* Target: decrease	1.C.1 Percentage of hospitalization of new TB patients (E). Target: decrease	1.C.2 Percentage of detected RR/ MDR-TB enrolled in treatment (G). Target = 100%	1.C.3 Treatment success rate (%) among all new and relapse TB patients (G). Target = 85%	1.C.4. Treatment success rate (%) among the RR/MDR-TB treatment cohort (G) (E). Target = 75%	1.C.5 TB mortality rate (ICD A15–19) (G) (E). Target = 2.7 per 100 000 population
EU/EEA													
ustria	-	(68.8)	(96.9)	(12.5)	(4.4)	(86.8)	(0.6)	(20.0)	-	(100.0)	(74.3)	(83.3)	(0.5)
elgium	-	(68.5)	(95.7)	(15.4)	(7.2)	(87.4)	(0.9)	(0.0)	-	(100.0)	(80.8)	(77.8)	(0.3)
ılgaria	(95.1)	(0.2)	(57.3)	(37.5)	(13.4)	(68.2)	(3.9)	(11.1)	(90.0)	(100.0)	(81.8)	(60.7)	(1.4)
oatia	-	(0.0)	(84.8)	(100.0)	(4.5)	(65.6)	(0.0)	(16.7)	-	(100.0)	(24.4)	(0.0)	(1.5)
/prus	-	(35.3)	(100.0)	-	(4.1)	(49.3)	(0.0)	(0.0)	-	-	(27.7)	-	(0.4)
echia	-	(71.4)	(91.7)	(84.6)	(3.4)	(87.8)	(3.6)	(30.0)	(95.0)	(100.0)	(73.8)	(33.3)	(0.2)
enmark	-	(96.1)	(100.0)	(100.0)	(3.8)	(73.2)	(0.8)	(14.3)	-	(0.0)	(44.9)	(0.0)	(0.2)
tonia	-	(87.5)	(100.0)	(86.4)	(9.3)	(85.7)	(18.0)	(27.3)	(60.0)	(100.0)	(75.8)	(74.2)	(1.2)
nland	-	(61.5)	(99.0)	(0.0)	(3.1)	(87.0)	(0.0)	(0.0)	(80.0)	(0.0)	(38.3)	(66.7)	(0.6)
nce	-	(0.0)	(3.4)	(96.9)	(6.8)	(83.0)	(100.0)	(100.0)	-	(100.0)	-	-	(0.7)
ermany	-	(85.5)	(89.0)	(35.9)	(5.0)	(87.2)	(2.1)	(5.3)	-	(91.4)	(68.6)	(63.4)	(0.3)
eece	-	(25.3)	(96.7)	(66.7)	(3.7)	(80.9)	(2.0)	(7.1)	-	(100.0)	-	-	(0.5)
ingary	-	(0.0)	(90.3)	(53.8)	(4.2)	(87.3)	(3.8)	(23.8)	-	(90.9)	(65.0)	(46.2)	(0.6)
eland	-	(41.7)	(100.0)	-	(3.3)	(120.0)	-	-	-	-	(100.0)	-	(0.6)
eland	-	(76.9)	(95.1)	(0.0)	(4.8)	(88.1)	(0.0)	(0.0)	(50.0)	(100.0)	(3.7)	(12.5)	(0.4)
aly	-	(0.0)	(72.6)	(81.0)	(3.8)	(54.1)	(3.4)	(23.1)		-	-	-	(0.5)
tvia	-	-	-	-	-	-	-	-	-	-	-	-	(3.4)
echtenstein	-	(100.0)	-	-	(5.2)	-	-	(0.0)	-	-	-	-	(0.0)
thuania	-	(0.0)	(100.0)	(103.0)	(26.0)	(87.1)	(12.6)	(32.1)	(80.0)	(100.0)	(87.1)	(54.5)	(4.4)
xembourg	-	(0.0)	(95.7)	-	(5.4)	(86.5)	(0.0)	(0.0)	(80.0)	-	(36.2)	-	(0.4)
alta	-	(0.0)	(100.0)	-	(27.2)	(87.5)	(0.0)	(0.0)		-	-	-	(0.2)
therlands	-	(80.5)	(94.7)	(60.0)	(3.6)	(86.5)	(1.6)	(0.0)	(30.0)	(100.0)	(86.3)	(83.3)	(0.2)
way	(80.7)	(85.4)	(100.0)	(50.0)	(3.0)	(84.7)	(2.6)	(0.0)	-	(100.0)	(84.6)	(83.3)	(0.3)
and	-	(27.8)	(91.3)	(81.8)	(8.9)	(87.5)	(1.4)	(3.3)	-	(100.0)	-	-	(1.5)
tugal	(70.6)	(31.0)	(64.5)	(50.0)	(14.0)	(87.6)	(0.9)	(10.7)	(30.0)	(100.0)	(71.4)	(63.6)	(2.4)
nania	(99.0)	(30.7)	(87.8)	(70.0)	(39.8)	(59.9)	(2.4)	(13.3)	(60.0)	(98.7)	(83.7)	(43.7)	(4.8)
vakia	(100.0)	(29.4)	(98.5)	(100.0)	(2.9)	(85.0)	(0.0)	(9.1)	(80.0)	(100.0)	(93.8)	(66.7)	(0.6)
venia	(27.3)	(82.7)	(100.0)	(0.0)	(3.7)	(87.2)	(1.8)	(0.0)	(95.0)	-	(70.4)	-	(0.7)
pain	-	(31.9)	(46.8)	(10.4)	(6.4)	(86.7)	(1.8)	(3.3)	-	(100.0)	(46.6)	-	(0.5)
weden	-	(86.7)	(100.0)	(100.0)	(3.2)	(87.8)	(2.4)	(10.0)	(50.0)	(100.0)	(61.1)	(100.0)	(0.2)
ubtotal EU/EEA	(95.7)	(33.7)	(78.2)	(64.4)	(7.3)	(74.1)	(2.8)	(12.8)	-	(97.6)	(71.8)	(52.4)	(0.8)

Table 25. Monitoring the WHO Roadmap to implement the tuberculosis action plan for the WHO European Region, 2016–2020, 2020

Note: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. Numbers in red indicate that the target is not met; numbers in green that the target is met. Black text indicates that the target cannot be assessed. For indicators 1.B.4 and 1.C.5, number in green indicates also that the country/area/(sub)region is on track to meet the 2020 target. DST: drug-susceptibility testing. E: WHO European Region indicator. G: End TB Strategy global indicator. HPCs: high-priority countries. LTBI: latent tuberculosis infection. PLHIV: people living with HIV. RR/MDR: ritampicin-resistant or multidrug-resistant. *Only pulmonary cases included. b Target not assessed for countries with less than 50% reporting completeness for HIV.

									2. Bold po	licies and supportiv	e systems		3. Intensified research and innovation	
				ctivities, a comorbidi		Manag of LTB preve treatm perso high ris vaccin again	BI and Intive Int of Ins at Ins and Intion	Political commitment with adequate resources, including universal health coverage policy	Health systems strengthening in all functions, including well-aligned financing mechanisms for TB and human resources	Regulatory frameworks for case-based surveillance, strengthening vital registration, quality and rational use of medicines, and pharmacovigilance	Community systems and civil society engagement	Social protection, poverty alleviation and actions on other determinants of TB, such as migration and prisons	Discovery, development and rapid uptake of new tools, interventions and strategies	
	1.D.1 TB/HIV case-detection rate (%). Target = 90%	1.D.2 HIV testing coverage (%) (G) (E). Target = 100%	a.D.3 Percentage of HIV among all TB. Target: decrease ^b	1.D.4 ART enrolment rate (%) among TB/HIV coinfected. Target = 100%	a. D. 5 LTBI treatment coverage among PLHIV (G). Target = 30%	1.E.1 Contact investigation coverage (G) (E). Target = 90%	1.E.2 LTBI treatment coverage in childhood TB contacts aged under 5 years (G) (E). Target = 90%	2. A.1 Number of Member States that have a TB control/elimination performance publicly available (E). Target = 53	 B.1 Percentage of TB-affected households that experience catastrophic costs due to TB (G) (E). Target: close to 0 	2.C.1 Treatment coverage (%) with new TB drugs (G) (B). Target = 30%	2.D.1 Number of Member States with functioning mutitstakeholder coalitions advocating for TB care and resource. Target = 53	2.E.1 Treatment success rate (%) of new and relapse TB cases among prisoners. Target = 85%	3.A.: European TB research initiative established by mid-2016. Target: established	Country
					,				NT 0					EU/EEA
Т	-	-	-	-	-	-	-	_	-	-	-	-	-	Austria
	(93.9)	(46.1)	(8.5)	-	-	-	-	-	-	-	_	(84.6)	-	Belgium
	(7.1)	(84.2)	(0.1)	(100.0)	-	(95.1)	-	-	-	-	-	(57.1)	-	Bulgaria
	(0.0)	(2.3)	(0.0)	-	-	-	-	-	-	-	-	-	-	Croatia
	(66.7)	(85.3)	(6.7)	-	-	-	-	-	-	-	-	-	-	Cyprus
	(233.3)	(54.2)	(3.5)	-	-	-	-	-	-	-	-	(83.3)	-	Czechia
	(57.1)	(75.1)	(2.4)	-	-	-	-	-	-	-	-	-	-	Denmark
	(84.6)	(94.2)	(11.2)	(100.0)	-	-	-	-	-	-	-	(100.0)	-	Estonia
	-	-	-	-	-	-	-	-	-	-	-	-	-	Finland
	-	-	-	-	-	-	-	-	-	-	-	-	-	France
	-	-	-	-	-	-	-	-	-	-	-	(45.5)	-	Germany
	(88.2)	(100.0)	(4.3)	-	-	-	-	-	-	-	-	-	-	Greece
	(40.0)	(4.4)	(11.1)	-	-	-	-	-	-	-	-	-	-	Hungary
	-	-	-	-	-	-	-	-	-	-	-	-	-	Iceland
	(30.0)	(34.9)	(3.6)	-	-	-	-	-	-	-	-	-	-	Ireland
	-	-	-	-	-	-	-	-	-	-	-	-	-	Italy
	-	-	-	-	-	-	-	-	-	-	-	-	-	Latvia
	-	-	-	-	-	-	-	-	-	-	-	-	-	Liechtenstein
	(78.3)	(98.3)	(2.8)	-	-	-	-	-	-	-	-	(55.6)	-	Lithuania
	-	(81.3)	(0.0)	-	-	-	-	-	-	-	-	-	-	Luxembourg
	-	-	-	-	-	-	-	-	-	-	-	-	-	Malta
	(63.6)	(78.7)	(2.9)	(78.6)	-	-	-	-	-	-	-	(41.2)	-	Netherlands
	(50.0)	(79.2)	(1.6)	-	-	(80.7)	(14.3)	-	-	-	-	-	-	Norway
	-	-	-	-	-	-	-	-	-	-	-	-	-	Poland
	(65.0)	(75.1)	(10.2)	-	-	(70.6)	-	-	-	-	-	(59.5)	-	Portugal
	(48.6)	(84.5)	(2.3)	(83.1)	-	(99.0)	-	-	-	-	-	(79.6)	-	Romania
	(200.0)	(52.9)	(2.4)	(100.0)	-	(100.0)	(0.0)	-	-	-	-	(100.0)	-	Slovakia
	-	(74.7)	(0.0)	-	-	(27.3)	(91.3)	-	-	-	-	-	-	Slovenia
	(70.9)	(57.1)	(9.8)	-	-	-	-	-	-	-	-	-	-	Spain
	-	-	-	-	-	-	-	-	-	-	-	-	-	Sweden
ſ	(33.7)	(73.4)	(4.2)	(84.1)	-	(95.7)	(14.3)	-	-	-	-	(66.9)	-	Subtotal EU/EEA

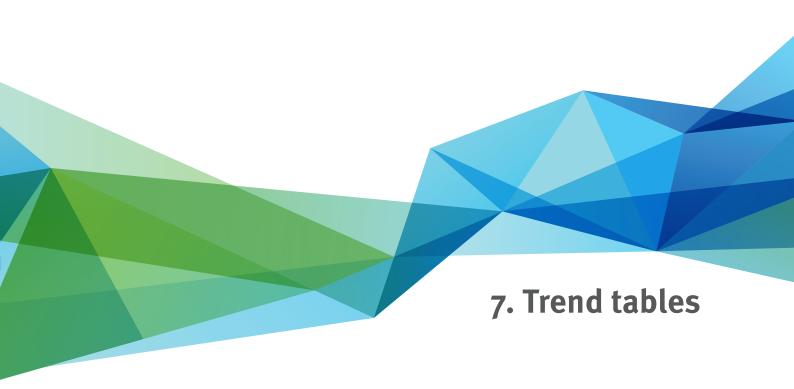
Table 25 contd

				1.	ntegrated, j	patient-c	entred care	e and preve	ention				
	Systematic screening of contacts and high-risk groups	Early diagnos	is of all form		id universal rapid tests	access t	o DST, inclu	uding the	continu	um of care sistant TB;	ess to qualii for all peop and patien tment adhe	ole with TB t support t	, including
Country/area	1.A.1 Coverage of population at risk with systematic screening for active TB and LTB1. Target = 80%	1.B.1 Percentage of notified new and relapse TB patients diagnosed using WHO-recommended rapid tests (G). Target 2 90%	1.B.2 First-line DST coverage (%) among all bacteriologically confirmed TB cases (G). ¹ Target = 100%	1.8.3 RR/MDR-TB case-detection rate (%). ³ Target = 85%	1.8.4 TB notification rate per 100 000 population (E). Target = 24.6 per 100 000 population	1.B.5 TB case-detection rate (%). Target: increase	1.B.6 Percentage of RR/MDR-TB among new TB patients (E). ¹ Target: decrease	1.8.7 Percentage of RR/MDR-TB among previously treated TB patients." Target: decrease	1.C.1 Percentage of hospitalization of new TB patients (E). Target: decrease	1.C.2 Percentage of detected RR/ MDR-TB enrolled in treatment (G). Target = 100%	1.C.3 Treatment success rate (%) among all new and relapse TB patients (G). Target = 85%	1.C.4 Treatment success rate (%) among the RR/MDR-TB treatment cohort (G) (E). Target = 75%	1.C.5 TB mortality rate (ICD A15-19) (G) (E). Target = 2.7 per 100 000 population
Non-EU/EEA													
Albania	(29.3)	(57.5)	(93.9)	(100.0)	(8.3)	(55.8)	(0.8)	(23.1)	(20.0)	(100.0)	(88.3)	(75.0)	(0.4)
Andorra	(100.0)	(100.0)	(100.0)	-	(2.6)	(100.0)	(0.0)	(0.0)	(100.0)	-	(60.0)	-	(1.4)
Armenia	(89.1)	(82.7)	(98.0)	(96.3)	(13.3)	(57.9)	(14.1)	(50.0)	(63.0)	(100.0)	(82.3)	(45.9)	(1.0)
Azerbaijan	-	(82.4)	(96.9)	(97.4)	(36.3)	(62.4)	(12.0)	(24.4)	(27.0)	(89.3)	(84.0)	(57.4)	(7.3)
Belarus	(100.0)	(94.2)	(100.0)	(100.6)	(16.0)	(60.6)	(39.5)	(74.5)	(68.0)	(94.0)	(88.6)	(72.9)	(2.8)
Bosnia and Herzegovina	-	-	(96.3)	-	(10.9)	(42.0)	(0.0)	(0.0)	-	-	(31.9)	-	(3.5)
Georgia	-	(87.7)	(98.9)	(100.5)	(41.8)	(59.6)	(10.7)	(26.5)	(22.0)	(99.3)	(85.1)	(67.4)	(4.8)
Israel	-	-	(100.0)	(100.0)	(1.8)	(87.8)	(5.6)	(0.0)		(100.0)	(83.9)	(64.3)	(0.2)
Kazakhstan	(100.0)	(96.0)	(99.9)	(98.6)	(51.1)	(73.9)	(36.2)	(49.7)	(64.0)	(109.2)	(90.2)	(80.7)	(3.2)
Kyrgyzstan	(100.0)	(58.8)	(92.6)	(92.6)	(65.0)	(61.5)	(28.3)	(54.0)	(86.0)	(93.7)	(81.3)	(62.3)	(4.6)
Monaco	-	-	-	-	(0.0)	-	-	-	-	-	-	-	(0.0)
Montenegro	(14.5)	(87.5)	(100.0)	-	(6.4)	(40.4)	(0.0)	(0.0)	(93.0)	-	(95.1)	100.0	(0.2)
North Macedonia	(100.0)	-	(86.7)	(100.0)	(6.9)	(57.2)	(1.2)	(10.0)	(50.0)	(100.0)	(88.9)	(50.0)	(1.2)
Republic of Moldova	(91.8)	(94.2)	(95.7)	(96.0)	(43.8)	(58.9)	(26.0)	(53.1)	(58.0)	(214.7)	(83.7)	(58.7)	(5.3)
Russian Federation	-	(81.6)	(93.3)	(95.5)	(40.2)	(86.4)	(36.3)	(68.4)	(63.0)	(141.8)	(68.2)	(51.4)	(5.0)
San Marino	-	-	-	-	(0.0)	-	-	-	(75.0)	-	-	-	(0.0)
Serbia	-	-	-	-	(5.0)	(36.6)	-	-	(75.0)	-	(85.2)	-	(1.1)
Serbia excluding Kosovo ¹ Kosovo ¹	-	-	-	-	-	-	-	-	-	-	-	-	-
witzerland	(100.0)	-	(63.1)	(40.0)	(4.1)	(87.8)	(2.3)	(0.0)	(80.0)	(25.0)	(68.3)	(66.7)	(0.2)
ajikistan	(100.0)	(84.4)	(100.0)	(40.0)	(4.1)	(87.8)	(2.3)	(0.0)	(80.0)	(25.0)	(90.8)	(70.2)	(0.2)
irkev	(86.7)	(84.4)	(100.0)	(99.1)	(43.5)	(67.9)	(24.2)	(43.2)	(73.0)	(82.0) (97.8)	(83.2)	(70.2)	(9.6)
ırkey ırkmenistan	(100.0)	(37.1)	(90.1)	(30.7)	(10.5)	(67.9)	(2.3)	(11.1)	(72.0)	(100.0)	(83.2)	(45.2)	(0.5)
kraine	(100.0)	(37.1) (95.7)	- (97.3)	- (97.1)	(31.8)	(54.8)	(28.6)	(41.3)	(72.0)	(100.0)	(82.6) (79.2)	(45.2) (50.5)	(10.0) (9.4)
Inited Kingdom	(),(2)	(95.7)	(97.3)	(87.5)	(40.1)	(89.0)	(28.0)	(41.3)	(01.0)	(114.3)	(79.2)	(75.0)	(9.4)
Izbekistan	_	(11.4)	(100.0)	(100.0)	(36.2)	(55.1)	(18.3)	(38.4)	(90.0)	(100.0)	(77.5)	(75.0)	(0.5)
Subtotal non-EU/EEA	(99.1)	(91.3)	(100.0) (94.9)	(100.0) (95.5)	(36.2) (27.4)	(70.0)	(18.3) (27.8)	(38.4)	(90.0)	(100.0)	(90.1)	(67.4)	(3.2)
Total European Region	(99.1)	(72.3)	(94.9)	(93.8)	(27.4)	(70.0)	(27.8)	(57.7)	_	(126.2)	(76.5)	(55.9)	(2.3)
Subtotal 18 HPCs	(98.2)	(80.7)	(92.0)	(95.2)	(32.8)	(69.2)	(25.1)	(56.2)	-		(78.2)	(55.9)	(4.4)

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									2. Bold po	licies and supportiv	e systems		3. Intensified research and innovation	
	Col mana	laborative agement o	: TB/HIV a f relevant	ctivities, a comorbid	ind ities	of LTI preve treatm perso high ris	entive nent of ons at sk, and nation	Political commitment with adequate resources, including universal health coverage policy	Health systems strengthening in all functions, including well-aligned financing mechanisms for TB and human resources	Regulatory frameworks for case-based surveillance, strengthening vital registration, quality and rational use of medicines, and pharmacovigilance	Community systems and civil society engagement	Social protection, poverty alleviation and actions on other determinants of TB, such as migration and prisons	Discovery, development and rapid uptake of new tools, interventions and strategies	
	1.D.1 TB/HIV case-detection rate (%). Target = 90%	1.D.2 HIV testing coverage (%) (G) (E). Target = 100%	1.D.3 Percentage of HIV among all TB. Target: decrease ^b	1.D.4 ART enrolment rate (%) among TB/HIV coinfected. Target = 100%	1.D.5 LTBI treatment coverage among PLHIV (G). Target = 30%	1.E.1 Contact investigation coverage (G) (E). Target = 90%	1.E.2 LTBl treatment coverage in childhood TB contacts aged under 5 years (G) (E). Target = 90%	2. A.1 Number of Member States that have a TB control/elimination performance publicly available (E). Target = 53	2.B.1 Percentage of TB-affected households that experience extastrophic costs due to TB (G) (E). Target: close to 0	2.C.1 Treatment coverage (%) with new TB drugs (G) (E). Target = 30%	2.D.1 Number of Member States with functioning mutitistakeholder coalitions advocating for TB care and resource. Target = 53	2.E.1 Treatment success rate (%) of new and relapse TB cases among prisoners. Target = 85%	3.A.: European TB research initiative established by mid-2016. Target: established	Country/area
														Non-EU/EEA
	(50.0)	(82.9)	(1.0)	(100.0)	-	(29.3)	-	-	-	-	-	(100.0)	-	Albania
	-	(0.0)	-	-	-	(100.0)	-	-	-	-	-	-	-	Andorra
	(54.2)	(93.7)	(10.6)	(0.0)	-	(89.1)	-	-	-	-	-	(0.0)	-	Armenia
	(75.5)	(120.9)	(1.9)	(92.8)	-	-	-	-	-	-	-	(96.6)	-	Azerbaijan
	(61.4)	(100.0)	<i>(8.9)</i>	(91.9)	-	(100.0)	(2.1)	-	-	-	-	(87.0)	-	Belarus
	(0.0)	(4.2)	-	-	-	-	-	-	-	-	-	-	-	Bosnia and Herzegovina
	(52.7)	(89.3)	(1.9)	(100.0)	-	-	-	-	-	-	-	(100.0)	-	Georgia
	(88.2)	(100.0)	(9.5)	(100.0)	-	-	-	-	-	-	-	-	-	Israel
	(72.2)	(98.3)	(6.5)	(96.4)	(91.2)	(100.0)	(19.7)	-	-	-	-	(87.0)	-	Kazakhstan
	(59.5)	(94.5)	(3.3)	(67.2)	(47.9)	(100.0)	(13.8)	-	-	-	-	(81.1)	-	Kyrgyzstan
	-	-	-	-	-	-	-	-	-	-	-	-	-	Monaco
	-	(87.5)	(0.0)	-	-	(14.5)	-	-	-	-	-	-	-	Montenegro
	(100.0)	(48.3)	(1.4)	(100.0)	-	(100.0)	(0.0)	-	-	-	-	(100.0)	-	North Macedonia
	(56.2)	(95.8)	(12.9)	(77.6)	(26.9)	(91.8)	(27.0)	-	-	-	-	(78.6)	-	Republic of Moldova
	(84.4)	(95.1)	(24.2)	(68.0)	-	-	-	-	-	-	-	(55.8)	-	Russian Federation
	-	-	-	-	-	-	-	-	-	-	-	-	-	San Marino
	_	-	-	-	-	_	-	-	-	-	_	-	-	Serbia
	-	-	-	-	-	-	-	-	-	-	-	-	-	Serbia excluding Kosovo Kosovo ¹
	_	-	-	_	-	(100.0)	(47.1)	_	_	-	_	-	-	Switzerland
	(51.3)	(97.5)	(2.9)	(98.3)	(93.4)	((414)	-	-	-	-	(88.6)	-	Tajikistan
	(55.3)	(80.0)	(1.2)	(74.7)	((86.7)	(49.6)	-	-	-	-	(77.7)	-	Turkey
	-	-	-	-	-	(100.0)	-	-	-	-	-	-	-	Turkmenistan
	(54.2)	(99.1)	(21.8)	(91.2)	(73.5)	(95.7)	(93.2)	-	-	-	-	(75.7)	-	Ukraine
	-	-	-	-	-	-	-	-	-	-	-	-	-	United Kingdom
	(54.9)	(100.0)	(3.1)	(75.7)	-	-	-	-	-	-	-	-	-	Uzbekistan
	(71.4)	(95.2)	(16.1)	(74.2)	(79.5)	(99.1)	(30.1)	-	-	-	-	(60.1)	-	Subtotal non-EU/EEA
	(67.8)	(92.6)	(15.0)	(74.3)	(79.5)	(98.2)	(29.6)	-	-	-	-	(60.4)	-	Total European Region
1	(71.5)	(94.8)	(15.3)	(74.3)	(79.5)	(99.1)	(30.1)	-	-	-	-	(60.4)	-	Subtotal 18 HPCs

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	20	11	20	12	20	13	20	14	20	15	20	16	
Country	N	Rate per 100000	N	Rate per 100 000	N	Rate per 100000	N	Rate per 100000	N	Rate per 100000	N	Rate per 100 000	
EU/EEA													
Austria	56	(0.7)	43	(0.5)	70	(0.8)	72	(0.8)	65	(0.8)	39	(0.5)	
Belgium	54	(0.5)	61	(0.6)	57	(0.5)	42	(0.4)	61	(0.4)	32	(0.3)	
Bulgaria	180	(2.4)	170	(2.4)	160	(2.1)	130	(1.8)	120	(1.8)	120	(1.6)	
Croatia	66	(1.5)	60	(1.4)	54	(1.3)	40	(1.0)	46	(1.0)	58	(1.4)	
Cyprus	4	(0.3)	5	(0.4)	1	(0.1)	5	(0.4)	2	(0.4)	3	(0.2)	
Czechia	56	(0.5)	31	(0.3)	68	(0.6)	40	(0.4)	57	(0.4)	43	(0.4)	
Denmark	17	(0.3)	23	(0.4)	17	(0.3)	13	(0.2)	17	(0.2)	23	(0.4)	
Estonia	46	(3.5)	36	(2.7)	26	(1.9)	29	(2.2)	22	(2.2)	28	(2.1)	
Finland	62	(1.1)	50	(0.9)	32	(0.6)	41	(0.8)	33	(0.8)	26	(0.5)	
France	640	(1.0)	560	(0.9)	560	(0.9)	480	(0.8)	470	(0.8)	440	(0.7)	
Germany	340	(0.4)	360	(0.4)	380	(0.5)	320	(0.4)	320	(0.4)	300	(0.4)	
Greece	75	(0.7)	110	(1.0)	78	(0.7)	55	(0.5)	45	(0.5)	48	(0.5)	
Hungary	120	(1.2)	130	(1.3)	95	(1.0)	84	(0.9)	100	(0.9)	64	(0.7)	
Iceland	3	(0.8)	3	(0.9)	2	(0.5)	2	(0.6)	2	(0.6)	2	(0.6)	
Ireland	29	(0.6)	26	(0.6)	22	(0.5)	24	(0.5)	17	(0.5)	17	(0.4)	
Italy	390	(0.7)	340	(0.6)	270	(0.5)	290	(0.5)	340	(0.5)	310	(0.5)	
Latvia	81	(3.9)	64	(3.1)	110	(5.2)	69	(3.4)	99	(3.4)	80	(4.1)	
Liechtenstein	-	-	-	-	-	-	-	-	-	-	-	-	
Lithuania	220	(7.0)	260	(8.5)	210	(7.1)	230	(7.8)	190	(7.8)	180	(6.2)	
Luxembourg	2	(0.4)	1	(0.2)	1	(0.2)	1	(0.2)	1	(0.2)	1	(0.2)	
Malta	3	(0.7)	1	(0.2)	3	(0.7)	1	(0.2)	2	(0.2)	3	(0.7)	
Netherlands	37	(0.2)	35	(0.2)	40	(0.2)	35	(0.2)	37	(0.2)	30	(0.2)	
Norway	30	(0.6)	22	(0.5)	21	(0.4)	13	(0.3)	12	(0.3)	18	(0.3)	
Poland	690	(1.8)	680	(1.8)	580	(1.5)	580	(1.5)	580	(1.5)	600	(1.6)	
Portugal	230	(2.2)	230	(2.2)	230	(2.2)	220	(2.1)	220	(2.1)	210	(2.0)	
Romania	1 300	(6.5)	1 300	(6.3)	1 200	(5.7)	1 100	(5.7)	1 100	(5.7)	990	(5.0)	
Slovakia	26	(0.5)	18	(0.3)	21	(0.4)	35	(0.6)	35	(0.6)	35	(0.6)	
Slovenia	14	(0.7)	11	(0.6)	9	(0.5)	22	(1.0)	11	(1.0)	7	(0.4)	
Spain	300	(0.6)	330	(0.7)	300	(0.6)	290	(0.6)	250	(0.6)	260	(0.6)	
Sweden	47	(0.5)	40	(0.4)	44	(0.5)	30	(0.3)	25	(0.3)	26	(0.3)	
Subtotal EU/EEA	5 100	(1.1)	5 000	(1.1)	4 700	(1.1)	4 300	(1.0)	4 300	(1.0)	4 000	(0.9)	
Non-EU/EEA		(0.0)		(0.0)		(0,0)		(0,0)		(0, 0)		(2, 2)	
Albania	9	(0.3)	9	(0.3)	8	(0.3)	8	(0.3)	8	(0.3)	8	(0.3)	
Andorra	0	(0.3)	1	(1.0)	0	(0.6)	1	(0.7)	0	(0.5)	0	(0.5)	
Armenia	120	(4.2)	140	(4.8)	110	(3.6)	81	(2.8)	68	(2.3)	56	(1.9)	
Azerbaijan Palarua	660	(7.2)	420	(4.6)	440	(4.7)	430	(4.5)	570	(5.9)	580	(5.9)	
Belarus	850	(9.0)	750	(7.9)	650	(6.9)	510	(5.4)	450	(4.7)	390	(4.1)	
Bosnia and Herzegovina	180	(5.0)	170	(4.6)	150	(4.2)	130	(3.8)	120	(3.6)	120	(3.5)	
Georgia	230	(5.6)	230	(5.7)	210	(5.1)	190	(4.6)	160	(4.0)	180	(4.4)	
Israel		(0 2)	22	(0 2)	10	(0, 2)	10	(0, 2)	10				
Kazalıhatan	22	(0.3)	22	(0.3)	15	(0.2)	15	(0.2)	15	(0.2)	15	(0.2)	
Kazakhstan	1700	(10.0)	1 600	(9.7)	1 100	(6.2)	930	(5.4)	720	(4.1)	660	(3.7)	
Kyrgyzstan	1 700 660	(10.0) (12.0)	1 600 630	(9.7) (11.0)	1 100 630	(6.2) (11.0)	930 520	(5.4) (8.9)	720 460	(4.1) (7.8)	660 420	(3.7) (6.9)	
<i>Kyrgyzstan</i> Monaco	1 700 660 0	(10.0) (12.0) (0.2)	1 600 630 0	(9.7) (11.0) (0.1)	1 100 630 0	(6.2) (11.0) (0.1)	930 520 0	(5.4) (8.9) (0.0)	720 460 0	(4.1) (7.8) (0.0)	660 420 0	(3.7) (6.9) (0.0)	
<i>Kyrgyzstan</i> Monaco Montenegro	1700 660 0 1	(10.0) (12.0) (0.2) (0.2)	1 600 630 0 1	(9.7) (11.0) (0.1) (0.2)	1 100 630 0 1	(6.2) (11.0) (0.1) (0.2)	930 520 0 1	(5.4) (8.9) (0.0) (0.2)	720 460 0 1	(4.1) (7.8) (0.0) (0.2)	660 420 0 1	(3.7) (6.9) (0.0) (0.2)	
<i>Kyrgyzstan</i> Monaco Montenegro North Macedonia	1700 660 0 1 32	(10.0) (12.0) (0.2) (0.2) (1.6)	1 600 630 0 1 28	(9.7) (11.0) (0.1) (0.2) (1.4)	1 100 630 0 1 25	(6.2) (11.0) (0.1) (0.2) (1.2)	930 520 0 1 25	(5.4) (8.9) (0.0) (0.2) (1.2)	720 460 0 1 25	(4.1) (7.8) (0.0) (0.2) (1.2)	660 420 0 1 25	(3.7) (6.9) (0.0) (0.2) (1.2)	
Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova	1700 660 0 1 32 540	(10.0) (12.0) (0.2) (0.2) (1.6) (13.0)	1 600 630 0 1 28 510	(9.7) (11.0) (0.1) (0.2) (1.4) (13.0)	1 100 630 0 1 25 370	(6.2) (11.0) (0.1) (0.2) (1.2) (9.1)	930 520 0 1 25 370	(5.4) (8.9) (0.0) (0.2) (1.2) (9.0)	720 460 0 1 25 310	(4.1) (7.8) (0.0) (0.2) (1.2) (7.7)	660 420 0 1 25 280	(3.7) (6.9) (0.0) (0.2) (1.2) (6.9)	
Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation	1700 660 0 1 32 540 22000	(10.0) (12.0) (0.2) (0.2) (1.6) (13.0) (15.0)	1 600 630 0 1 28 510 19 000	(9.7) (11.0) (0.1) (0.2) (1.4) (13.0) (13.0)	1100 630 0 1 25 370 18 000	(6.2) (11.0) (0.1) (0.2) (1.2) (9.1) (12.0)	930 520 0 1 25 370 16 000	(5.4) (8.9) (0.0) (0.2) (1.2) (9.0) (11.0)	720 460 0 1 25 310 14 000	(4.1) (7.8) (0.0) (0.2) (1.2) (7.7) (9.9)	660 420 0 1 25 280 12 000	(3.7) (6.9) (0.0) (0.2) (1.2) (6.9) (8.4)	
Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino	1700 660 0 1 32 540 22000 0	(10.0) (12.0) (0.2) (0.2) (1.6) (13.0) (15.0) (0.0)	1 600 630 0 1 28 510 19 000 0	(9.7) (11.0) (0.1) (0.2) (1.4) (13.0) (13.0) (0.0)	1 100 630 0 1 25 370 18 000 0	(6.2) (11.0) (0.1) (0.2) (1.2) (9.1) (12.0) (0.0)	930 520 0 1 25 370 16 000 0	(5.4) (8.9) (0.0) (0.2) (1.2) (9.0) (11.0) (0.0)	720 460 0 1 25 310 14 000 0	(4.1) (7.8) (0.0) (0.2) (1.2) (7.7) (9.9) (0.0)	660 420 0 1 25 280 12 000 0	(3.7) (6.9) (0.0) (0.2) (1.2) (6.9) (8.4) (0.0)	
Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia	1700 660 0 1 32 540 22000 0 150	(10.0) (12.0) (0.2) (1.6) (13.0) (15.0) (0.0) (1.7)	1 600 630 0 1 28 510 19 000 0 160	(9.7) (11.0) (0.1) (0.2) (1.4) (13.0) (13.0) (0.0) (1.8)	1 100 630 0 1 25 370 18 000 0 150	(6.2) (11.0) (0.1) (0.2) (1.2) (9.1) (12.0) (0.0) (1.6)	930 520 0 1 25 370 16 000 0 120	(5.4) (8.9) (0.0) (1.2) (9.0) (11.0) (0.0) (1.3)	720 460 0 1 25 310 14 000 0 88	(4.1) (7.8) (0.0) (0.2) (1.2) (7.7) (9.9) (0.0) (1.0)	660 420 0 1 25 280 12 000 0 100	(3.7) (6.9) (0.0) (0.2) (1.2) (6.9) (8.4) (0.0) (1.1)	
Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Switzerland	1700 660 0 1 32 540 22000 0 150 25	(10.0) (12.0) (0.2) (1.6) (13.0) (15.0) (0.0) (1.7) (0.3)	1 600 630 0 1 28 510 19 000 0 160 23	(9.7) (11.0) (0.1) (0.2) (1.4) (13.0) (13.0) (0.0) (1.8) (0.3)	1 100 630 0 1 25 370 18 000 0 150 20	(6.2) (11.0) (0.1) (0.2) (1.2) (9.1) (12.0) (0.0) (1.6) (0.3)	930 520 0 1 25 370 16 000 0 120 13	(5.4) (8.9) (0.0) (1.2) (9.0) (11.0) (0.0) (1.3) (0.2)	720 460 0 1 25 310 14 000 0 88 17	(4.1) (7.8) (0.0) (0.2) (1.2) (7.7) (9.9) (0.0) (1.0) (0.2)	660 420 0 1 25 280 12 000 0 100 25	(3.7) (6.9) (0.0) (0.2) (1.2) (6.9) (8.4) (0.0) (1.1) (0.3)	
Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Switzerland Tajikistan	1700 660 0 1 32 540 22000 0 150 25 800	(10.0) (12.0) (0.2) (1.6) (13.0) (15.0) (0.0) (1.7) (0.3) (10.0)	1 600 630 0 1 28 510 19 000 0 160 23 790	(9.7) (11.0) (0.1) (0.2) (1.4) (13.0) (13.0) (0.0) (1.8) (0.3) (10.0)	1100 630 0 1 25 370 18000 0 150 20 780	(6.2) (11.0) (0.1) (0.2) (1.2) (9.1) (12.0) (0.0) (1.6) (0.3) (9.7)	930 520 0 1 25 370 16 000 0 120 13 780	(5.4) (8.9) (0.0) (0.2) (1.2) (9.0) (11.0) (0.0) (1.3) (0.2) (9.5)	720 460 0 1 25 310 14 000 0 88 17 760	(4.1) (7.8) (0.0) (0.2) (1.2) (7.7) (9.9) (0.0) (1.0) (0.2) (9.0)	660 420 0 1 25 280 12 000 0 100 25 760	(3.7) (6.9) (0.0) (0.2) (1.2) (6.9) (8.4) (0.0) (1.1) (0.3) (8.8)	
Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Switzerland Tajikistan Turkey	1700 660 0 1 32 540 22000 0 150 25 800 850	(10.0) (12.0) (0.2) (1.6) (13.0) (15.0) (0.0) (1.7) (0.3) (10.0) (1.2)	1 600 630 0 1 28 510 19 000 0 160 23 790 740	(9.7) (11.0) (0.1) (0.2) (1.4) (13.0) (13.0) (0.0) (1.8) (0.3) (10.0) (1.0)	1 100 630 0 1 25 370 18 000 0 150 20 780 620	(6.2) (11.0) (0.1) (0.2) (1.2) (9.1) (12.0) (0.0) (1.6) (0.3) (9.7) (0.8)	930 520 0 1 25 370 16 000 0 120 13 780 590	(5.4) (8.9) (0.0) (0.2) (1.2) (9.0) (11.0) (0.0) (1.3) (0.2) (9.5) (0.8)	720 460 0 1 25 310 14 000 0 88 17 760 540	(4.1) (7.8) (0.0) (0.2) (1.2) (7.7) (9.9) (0.0) (1.0) (0.2) (9.0) (0.7)	660 420 0 1 25 280 12 000 0 100 25 760 540	(3.7) (6.9) (0.0) (0.2) (1.2) (6.9) (8.4) (0.0) (1.1) (0.3) (8.8) (0.7)	
Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Switzerland Tajikistan Turkey Turkmenistan	1700 660 0 1 32 540 22000 0 150 25 800 850 730	(10.0) (12.0) (0.2) (1.6) (13.0) (15.0) (0.0) (1.7) (0.3) (10.0) (1.2) (14.0)	1 600 630 0 1 28 510 19 000 0 160 23 790 740 590	(9.7) (11.0) (0.1) (0.2) (1.4) (13.0) (13.0) (0.0) (1.8) (0.3) (10.0) (10.0) (11.0)	1 100 630 0 1 25 370 18 000 0 150 20 780 620 530	$\begin{array}{c} (6.2) \\ (11.0) \\ (0.1) \\ (0.2) \\ (1.2) \\ (9.1) \\ (12.0) \\ (0.0) \\ (1.6) \\ (0.3) \\ (9.7) \\ (0.8) \\ (9.9) \end{array}$	930 520 0 1 25 370 16 000 0 120 13 780 590 640	(5.4) (8.9) (0.0) (1.2) (1.2) (9.0) (11.0) (0.0) (1.3) (0.2) (9.5) (0.8) (12.0)	720 460 0 1 25 310 14 000 0 88 17 760 540 550	(4.1) (7.8) (0.0) (1.2) (7.7) (9.9) (0.0) (1.0) (0.2) (9.0) (0.7) (10.0)	660 420 0 1 25 280 12 000 0 100 25 760 540 580	(3.7) (6.9) (0.0) (0.2) (1.2) (6.9) (8.4) (0.0) (1.1) (0.3) (8.8) (0.7) (10.0)	
Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Switzerland Tajikistan Turkey Turkmenistan Ukraine	1700 660 0 1 32 540 22000 0 150 25 800 850 730 7200	(10.0) (12.0) (0.2) (1.6) (13.0) (15.0) (0.0) (1.7) (0.3) (10.0) (1.2) (14.0) (16.0)	1 600 630 0 1 28 510 19 000 0 160 23 790 740 590 7 100	(9.7) (11.0) (0.1) (0.2) (1.4) (13.0) (13.0) (0.0) (1.8) (0.0) (1.8) (0.0) (10.0) (10.0) (11.0) (16.0)	1100 630 0 1 25 370 18000 0 150 20 780 620 530 6400	(6.2) (11.0) (0.1) (0.2) (1.2) (9.1) (12.0) (0.0) (1.6) (0.3) (9.7) (0.8) (9.9) (14.0)	930 520 0 1 25 370 16 000 0 120 13 780 590 640 5 800	(5.4) (8.9) (0.0) (1.2) (9.0) (11.0) (0.0) (1.3) (0.2) (9.5) (0.8) (12.0) (13.0)	720 460 0 1 25 310 14 000 0 8 8 8 17 760 540 5500	(4.1) (7.8) (0.0) (0.2) (1.2) (7.7) (9.9) (0.0) (1.0) (0.2) (9.0) (0.7) (10.0) (11.0)	660 420 0 1 25 280 12 000 0 100 25 760 540 580 4 500	(3.7) (6.9) (0.0) (0.2) (1.2) (6.9) (8.4) (0.0) (1.1) (0.3) (8.8) (0.7) (10.0) (10.0)	
Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Switzerland Tajikistan Turkey Turkmenistan Ukraine United Kingdom	1700 660 0 1 32 540 22000 0 150 25 800 850 730 7200 340	(10.0) (12.0) (0.2) (1.6) (13.0) (15.0) (0.0) (1.7) (0.3) (10.0) (1.2) (14.0) (16.0) (0.5)	1 600 630 0 1 28 510 19 000 0 160 23 790 740 590 740 590 7100 340	(9.7) (11.0) (0.1) (0.2) (1.4) (13.0) (13.0) (0.0) (1.8) (0.0) (1.8) (0.3) (10.0) (10.0) (11.0) (15.0) (0.5)	1100 630 0 1 25 370 18000 0 150 20 780 620 530 6400 360	(6.2) (11.0) (0.1) (0.2) (1.2) (9.1) (12.0) (0.0) (1.6) (0.3) (9.7) (0.8) (9.9) (14.0) (0.6)	930 520 0 1 25 370 16 000 0 120 13 780 590 640 5800 370	(5.4) (8.9) (0.0) (1.2) (9.0) (11.0) (0.0) (1.3) (0.2) (9.5) (0.8) (12.0) (13.0) (0.6)	720 460 0 1 25 310 14 000 0 88 77 760 5500 5500 350	(4.1) (7.8) (0.0) (0.2) (1.2) (7.7) (9.9) (0.0) (1.0) (0.2) (9.0) (0.7) (10.0) (11.0) (0.5)	660 420 0 1 25 280 12 000 0 100 25 760 540 580 4 500 310	(3.7) (6.9) (0.0) (0.2) (1.2) (6.9) (8.4) (0.0) (1.1) (0.3) (8.8) (0.7) (10.0) (10.0) (0.5)	
Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Switzerland Tajikistan Turkey Turknenistan Ukraine United Kingdom Uzbekistan	1700 660 0 1 32 540 22000 0 150 25 800 850 730 7200 340 2500	(10.0) (12.0) (0.2) (1.6) (13.0) (15.0) (0.0) (1.7) (0.3) (10.0) (12) (14.0) (16.0) (0.5) (8.7)	1 600 630 0 1 28 510 19 000 0 160 23 790 740 590 7100 340 2 200	(9.7) (11.0) (0.1) (0.2) (1.4) (13.0) (13.0) (0.0) (1.8) (0.3) (10.0) (10.0) (11.0) (11.0) (16.0) (0.5) (7.5)	1 100 630 0 1 25 370 18 000 0 150 0 500 6 200 360 2 200	$\begin{array}{c} (6.2) \\ (11.0) \\ (0.1) \\ (0.2) \\ (1.2) \\ (9.1) \\ (12.0) \\ (0.0) \\ (1.6) \\ (0.3) \\ (9.7) \\ (0.8) \\ (9.9) \\ (14.0) \\ (0.6) \\ (7.2) \end{array}$	930 520 0 1 25 370 16 000 0 120 13 780 590 640 5800 370 2 200	(5.4) (8.9) (0.0) (1.2) (9.0) (11.0) (0.0) (1.3) (0.2) (9.5) (0.8) (12.0) (13.0) (0.6) (7.1)	720 460 0 1 25 310 14 000 0 88 17 760 540 5500 5500 5500 350 2 000	(4.1) (7.8) (0.0) (0.2) (1.2) (7.7) (9.9) (0.0) (1.0) (0.2) (9.0) (0.7) (10.0) (11.0) (0.5) (6.6)	660 420 0 1 25 280 12 000 0 100 25 760 540 550 4 500 310 1 900	(3.7) (6.9) (0.0) (0.2) (1.2) (6.9) (8.4) (0.0) (1.1) (0.3) (8.8) (0.7) (10.0) (10.0) (10.0) (0.5) (6.1)	
Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Switzerland Tajikistan Turkey Turkmenistan Ukraine United Kingdom	1700 660 0 1 32 540 22000 0 150 25 800 850 730 7200 340	(10.0) (12.0) (0.2) (1.6) (13.0) (15.0) (0.0) (1.7) (0.3) (10.0) (1.2) (14.0) (16.0) (0.5)	1 600 630 0 1 28 510 19 000 0 160 23 790 740 590 740 590 7100 340	(9.7) (11.0) (0.1) (0.2) (1.4) (13.0) (13.0) (0.0) (1.8) (0.0) (1.8) (0.3) (10.0) (10.0) (11.0) (15.0) (0.5)	1100 630 0 1 25 370 18000 0 150 20 780 620 530 6400 360	(6.2) (11.0) (0.1) (0.2) (1.2) (9.1) (12.0) (0.0) (1.6) (0.3) (9.7) (0.8) (9.9) (14.0) (0.6)	930 520 0 1 25 370 16 000 0 120 13 780 590 640 5800 370	(5.4) (8.9) (0.0) (1.2) (9.0) (11.0) (0.0) (1.3) (0.2) (9.5) (0.8) (12.0) (13.0) (0.6)	720 460 0 1 25 310 14 000 0 88 77 760 5500 5500 350	(4.1) (7.8) (0.0) (0.2) (1.2) (7.7) (9.9) (0.0) (1.0) (0.2) (9.0) (0.7) (10.0) (11.0) (0.5)	660 420 0 1 25 280 12 000 0 100 25 760 540 580 4 500 310	(3.7) (6.9) (0.0) (0.2) (1.2) (6.9) (8.4) (0.0) (1.1) (0.3) (8.8) (0.7) (10.0) (10.0) (0.5)	

Table I. Estimated tuberculosis (TB) mortality per 100 000 population, European Region, 2011–2020ª

Note: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. HPCs: high-priority countries. * Excludes HIV coinfected cases.

201	7	201	۱8	201	.9	202	20	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, 2016–2020	% change in rate, 2011–2020	Country
										EU/EEA
36	(0.4)	49	(0.6)	41	(0.5)	41	(0.5)	0.6	-4.1	Austria
33	(0.3)	33	(0.3)	33	(0.3)	33	(0.3)	0.0	-5.7	
98	(1.4)	98	(1.4)	98	(1.4)	97	(1.4)	-3.3		Bulgaria
61	(1.5)	60	(1.5)	60	(1.5)	60	(1.5)	1.7	0.0	Croatia
3	(0.3)	5	(0.4)	5	(0.4)	5	(0.4)	15.4		Cyprus
38	(0.4)	39	(0.4)	23	(0.2)	23	(0.2)	-15.4		Czechia
14	(0.4)	10	(0.2)	10	(0.2)	10	(0.2)	-19.8		Denmark
23	(1.8)	13	(0.2)	16	(0.2)	16	(0.2)	-13.1		Estonia
35	(0.6)	30	(0.6)	30	(0.6)	30	(0.6)	3.5		Finland
440	(0.7)	440	(0.7)	440	(0.7)	440	(0.7)	0.0		France
300	(0.4)	310	(0.4)	270	(0.7)	270	(0.7)	-2.9		Germany
	(0.4)				(0.5)					,
58		52	(0.5)	52		52	(0.5)	2.7		Greece
63	(0.7)	84	(0.9)	62	(0.6)	62	(0.6)	-0.8		Hungary
2	(0.6)	2	(0.6)	2	(0.6)	2	(0.6)	1.2		Iceland
18	(0.4)	18	(0.4)	18	(0.4)	18	(0.4)	0.0		Ireland
310	(0.5)	310	(0.5)	310	(0.5)	310	(0.5)	0.0		Italy
75	(3.8)	65	(3.4)	64	(3.4)	64	(3.4)	-4.6	-1.5	Latvia
-	-	-	-	-	-	-	-	-	-	Liechtenstein
160	(5.7)	120	(4.3)	120	(4.4)	120	(4.4)	-8.2	-5.0	Lithuania
3	(0.5)	2	(0.4)	2	(0.4)	2	(0.4)	18.1	-1.5	Luxembourg
1	(0.2)	1	(0.2)	1	(0.2)	1	(0.2)	-25.1	-12.0	Malta
24	(0.1)	28	(0.2)	28	(0.2)	28	(0.2)	-2.9		Netherlands
18	(0.3)	18	(0.3)	18	(0.3)	19	(0.3)	0.0	-6.1	
560	(1.5)	570	(1.5)	570	(1.5)	570	(1.5)	-1.6		Poland
200	(2.0)	240	(2.4)	240	(2.4)	240	(2.4)	4.7	1.0	Portugal
950	(4.8)	940	(4.8)	930	(4.8)	920	(4.8)	-1.0		Romania
35	(0.6)	35	(0.6)	35	(0.6)	35	(0.6)	0.0	3.0	Slovakia
7	(0.4)	6	(0.3)	14	(0.7)	14	(0.7)	18.5		Slovenia
250	(0.4)	250	(0.5)	250	(0.5)	250	(0.5)	-0.5	-1.9	Spain
230	(0.2)	230	(0.2)	230	(0.2)	230	(0.2)	-4.1		Sweden
3 800	(0.2)	3 900	(0.2)	3 800	(0.2)	3 800	(0.2)	-1.4		Subtotal EU/EEA
5000	(0.0)	3 900	(0.9)	3 800	(0.0)	5000	(0.0)	-1,4		Non-EU/EEA
8	(0.3)	8	(0.3)	8	(0.3)	11	(0.4)	8.4	3.6	Albania
0	(0.1)	0	(0.3)	0	(0.6)	1	(0.4)	30.0		Andorra
45	(1.5)	30	(0.5)	30	(0.0)	30	(1.4)	-14.8		Armenia
		50	(1.0)	50	(1.0)		(1.0)	-14.0	-14./	AIIIIeIIIu
			(5.0)					E E	0.2	Azarbaijan
580	(5.9)	590	(5.9)	590	(5.9)	740	(7.3)	5.5		Azerbaijan Polarus
580 320	(5.9) (3.4)	590 260	(2.8)	590 260	(5.9) (2.8)	740 260	(7.3) (2.8)	-9.1	-12.2	Belarus
580 320 110	(5.9) (3.4) (3.2)	590 260 100	(2.8) (3.0)	590 260 93	(5.9) (2.8) (2.8)	740 260 110	(7.3) (2.8) (3.5)	- <i>9.1</i> 0.0	-12.2 -3.9	Belarus Bosnia and Herzegovina
580 320 110 170	(5.9) (3.4) (3.2) (4.2)	590 260 100 160	(2.8) (3.0) (4.0)	590 260 93 150	(5.9) (2.8) (2.8) (3.8)	740 260 110 190	(7.3) (2.8) (3.5) (4.8)	-9.1 0.0 2.2	-12.2 -3.9 -1.7	Belarus Bosnia and Herzegovina Georgia
580 320 110 170 13	(5.9) (3.4) (3.2) (4.2) (0.2)	590 260 100 160 20	(2.8) (3.0) (4.0) (0.2)	590 260 93 150 20	(5.9) (2.8) (2.8) (3.8) (0.2)	740 260 110 190 21	(7.3) (2.8) (3.5) (4.8) (0.2)	-9.1 0.0 2.2 7.5	-12.2 -3.9 -1.7 -2.1	Belarus Bosnia and Herzegovina Georgia Israel
580 320 110 170 13 580	(5.9) (3.4) (3.2) (4.2) (0.2) (3.2)	590 260 100 160 20 590	(2.8) (3.0) (4.0) (0.2) (3.2)	590 260 93 150 20 600	(5.9) (2.8) (2.8) (3.8) (0.2) (3.2)	740 260 110 190 21 610	(7.3) (2.8) (3.5) (4.8) (0.2) (3.2)	-9.1 0.0 2.2 7.5 -3.6	-12.2 -3.9 -1.7 -2.1 -11.9	Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan
580 320 110 170 13 580 380	(5.9) (3.4) (3.2) (4.2) (0.2) (3.2) (6.1)	590 260 100 160 20 590 360	(2.8) (3.0) (4.0) (0.2) (3.2) (5.7)	590 260 93 150 20 600 290	(5.9) (2.8) (3.8) (0.2) (3.2) (4.6)	740 260 110 190 21 610 300	(7.3) (2.8) (3.5) (4.8) (0.2) (3.2) (4.6)	-9.1 0.0 2.2 7.5	-12.2 -3.9 -1.7 -2.1 -11.9 -10.1	Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan
580 320 110 170 13 580 380 0	(5.9) (3.4) (3.2) (4.2) (0.2) (3.2) (6.1) (0.0)	590 260 100 160 20 590 360 0	(2.8) (3.0) (4.0) (0.2) (3.2) (5.7) (0.0)	590 260 93 150 20 600 290 0	(5.9) (2.8) (3.8) (0.2) (3.2) (4.6) (0.0)	740 260 110 190 21 610 300 0	(7.3) (2.8) (3.5) (4.8) (0.2) (3.2) (4.6) (0.0)	-9.1 0.0 2.2 7.5 -3.6 -9.6	-12.2 -3.9 -1.7 -2.1 -11.9 -10.1 -100.0	Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco
580 320 110 170 13 580 380 0 1	(5.9) (3.4) (3.2) (4.2) (0.2) (3.2) (6.1) (0.0) (0.2)	590 260 100 160 20 590 360 0 1	(2.8) (3.0) (4.0) (0.2) (3.2) (5.7) (0.0) (0.2)	590 260 93 150 20 600 290 0 1	(5.9) (2.8) (2.8) (3.8) (0.2) (3.2) (4.6) (0.0) (0.2)	740 260 110 190 21 610 300 0 1	(7.3) (2.8) (3.5) (4.8) (0.2) (3.2) (4.6) (0.0) (0.2)	-9.1 0.0 2.2 7.5 -3.6 -9.6 3.6	-12.2 -3.9 -1.7 -2.1 -11.9 -10.1 -100.0 1.6	Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro
580 320 110 170 13 580 380 0 1 1 25	(5.9) (3.4) (3.2) (4.2) (0.2) (3.2) (6.1) (0.0) (0.2) (1.2)	590 260 100 160 20 590 360 0 1 25	(2.8) (3.0) (4.0) (0.2) (3.2) (5.7) (0.0) (0.2) (1.2)	590 260 93 150 20 600 290 0 1 25	(5.9) (2.8) (3.8) (0.2) (3.2) (4.6) (0.0) (0.2) (1.2)	740 260 110 190 21 610 300 0 1 1 25	(7.3) (2.8) (3.5) (4.8) (0.2) (3.2) (4.6) (0.0) (0.2) (1.2)	-9.1 0.0 2.2 7.5 -3.6 -9.6 3.6 0.0	-12.2 -3.9 -1.7 -2.1 -11.9 -10.1 -100.0 1.6 -3.1	Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia
580 320 110 170 13 580 380 0 1	(5.9) (3.4) (3.2) (4.2) (0.2) (3.2) (6.1) (0.0) (0.2) (1.2) (5.5)	590 260 100 160 20 590 360 0 1	(2.8) (3.0) (4.0) (0.2) (3.2) (5.7) (0.0) (0.2)	590 260 93 150 20 600 290 0 1	(5.9) (2.8) (2.8) (3.8) (0.2) (3.2) (4.6) (0.0) (0.2)	740 260 110 190 21 610 300 0 1	(7.3) (2.8) (3.5) (4.8) (0.2) (3.2) (4.6) (0.0) (0.2)	-9.1 0.0 2.2 7.5 -3.6 -9.6 3.6	-12.2 -3.9 -1.7 -2.1 -11.9 -10.1 -100.0 1.6 -3.1	Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro
580 320 110 170 13 580 380 0 1 1 25	(5.9) (3.4) (3.2) (4.2) (0.2) (3.2) (6.1) (0.0) (0.2) (1.2)	590 260 100 160 20 590 360 0 1 25	(2.8) (3.0) (4.0) (0.2) (3.2) (5.7) (0.0) (0.2) (1.2)	590 260 93 150 20 600 290 0 1 25	(5.9) (2.8) (3.8) (0.2) (3.2) (4.6) (0.0) (0.2) (1.2)	740 260 110 190 21 610 300 0 1 1 25	(7.3) (2.8) (3.5) (4.8) (0.2) (3.2) (4.6) (0.0) (0.2) (1.2)	-9.1 0.0 2.2 7.5 -3.6 -9.6 3.6 0.0	-12.2 -3.9 -1.7 -2.1 -11.9 -10.1 -100.0 1.6 -3.1 -9.5	Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia
580 320 110 170 13 580 380 0 1 1 25 220	(5.9) (3.4) (3.2) (4.2) (0.2) (3.2) (6.1) (0.0) (0.2) (1.2) (5.5) (7.1)	590 260 100 160 20 590 360 0 1 25 210	(2.8) (3.0) (4.0) (0.2) (3.2) (5.7) (0.0) (0.2) (1.2) (5.3) (6.3)	590 260 93 150 20 600 290 0 1 25 210	(5.9) (2.8) (2.8) (3.8) (0.2) (4.6) (0.0) (0.0) (0.2) (1.2) (5.3)	740 260 110 190 21 610 300 0 1 25 210	(7.3) (2.8) (3.5) (4.8) (0.2) (3.2) (4.6) (0.0) (0.2) (1.2) (5.3)	-9.1 0.0 2.2 7.5 -3.6 -9.6 3.6 0.0 -6.4	-12.2 -3.9 -1.7 -2.1 -11.9 -10.1 -100.0 1.6 -3.1 -9.5	Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova
580 320 110 170 13 580 380 0 1 1 25 220 10 000 0 0	(5.9) (3.4) (3.2) (4.2) (0.2) (3.2) (6.1) (0.0) (0.2) (1.2) (5.5) (7.1) (0.0)	590 260 100 160 20 590 360 0 1 25 210 9 200 0	(2.8) (3.0) (4.0) (0.2) (5.7) (0.0) (0.2) (1.2) (5.3) (6.3) (0.0)	590 260 93 150 20 600 290 0 1 1 25 210 8 000 0	(5.9) (2.8) (3.8) (0.2) (3.2) (4.6) (0.0) (0.2) (1.2) (5.3) (5.5) (0.0)	740 260 110 190 21 610 300 0 1 25 210 7 300 0	(7.3) (2.8) (3.5) (4.8) (0.2) (3.2) (4.6) (0.0) (0.0) (0.2) (1.2) (5.3) (5.0) (0.0)	-9.1 0.0 2.2 7.5 -3.6 -9.6 3.6 0.0 -6.4 -12.2	-12.2 -3.9 -1.7 -2.1 -11.9 -10.1 -100.0 1.6 -3.1 -9.5 -11.5	Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino
580 320 110 170 13 580 380 0 1 1 25 220 10 000 0 94	(5.9) (3.4) (3.2) (4.2) (0.2) (3.2) (6.1) (0.0) (0.2) (1.2) (5.5) (7.1) (0.0) (1.1)	590 260 100 160 20 590 360 0 1 1 25 210 9 200 0 9 24	(2.8) (3.0) (4.0) (0.2) (5.7) (0.0) (0.2) (1.2) (5.3) (6.3) (0.0) (1.1)	590 260 93 150 20 600 290 0 1 25 210 8 000 0 94	(5.9) (2.8) (2.8) (3.8) (0.2) (3.2) (4.6) (0.0) (0.2) (1.2) (5.3) (5.5) (0.0) (1.1)	740 260 110 190 21 610 300 0 1 25 210 7 300 0 93	(7.3) (2.8) (3.5) (4.8) (0.2) (3.2) (4.6) (0.0) (0.0) (0.2) (1.2) (5.3) (5.0) (0.0) (1.1)	-9.1 0.0 2.2 7.5 -3.6 -9.6 3.6 0.0 -6.4 -12.2 0.0	-12.2 -3.9 -1.7 -2.1 -11.9 -10.1 -100.0 1.6 -3.1 -9.5 -11.5 -4.7	Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia
580 320 110 170 13 580 380 380 0 1 1 25 220 10 000 0 94 17	(5.9) (3.4) (3.2) (4.2) (0.2) (3.2) (6.1) (0.0) (0.2) (1.2) (5.5) (7.1) (0.0) (1.1) (0.2)	590 260 100 160 20 590 360 0 1 25 210 9 200 0 9 200 0 9 24 17	(2.8) (3.0) (4.0) (0.2) (5.7) (0.0) (0.2) (1.2) (5.3) (6.3) (0.0) (1.1) (0.2)	590 260 93 150 20 600 290 0 1 1 25 210 8 000 0 94 17	(5.9) (2.8) (2.8) (3.8) (0.2) (3.2) (4.6) (0.0) (0.2) (1.2) (5.3) (5.5) (0.0) (1.1) (0.2)	740 260 110 190 21 610 300 0 1 25 210 7300 0 93 17	(7.3) (2.8) (3.5) (4.8) (0.2) (3.2) (4.6) (0.0) (0.2) (1.2) (5.3) (5.0) (0.0) (1.1) (0.2)	-9.1 0.0 2.2 7.5 -3.6 -9.6 3.6 0.0 -6.4 -12.2 0.0 -9.6	-12.2 -3.9 -1.7 -2.1 -11.9 -10.1 -100.0 1.6 -3.1 -9.5 -11.5 -4.7 -5.1	Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Switzerland
580 320 110 170 13 580 380 380 0 11 25 220 10 000 0 94 17 750	(5.9) (3.4) (3.2) (4.2) (0.2) (3.2) (6.1) (0.0) (1.2) (5.5) (7.1) (0.0) (1.1) (0.2) (1.1) (0.2) (8.5)	590 260 100 160 20 590 360 0 1 25 210 9 200 0 9 200 0 9 94 17 740	(2.8) (3.0) (4.0) (0.2) (5.7) (0.0) (0.2) (1.2) (5.3) (6.3) (0.0) (1.1) (0.2) (1.1) (0.2) (8.2)	590 260 93 150 20 600 290 0 1 1 25 210 8 000 0 94 17 730	(5.9) (2.8) (2.8) (3.8) (0.2) (3.2) (4.6) (0.0) (0.2) (1.2) (5.3) (5.5) (0.0) (1.1) (0.2) (1.1) (0.2) (7.9)	740 260 110 190 21 610 300 0 1 25 210 7300 0 93 17 920	(7.3) (2.8) (3.5) (4.8) (0.2) (3.2) (4.6) (0.0) (0.2) (1.2) (5.3) (5.0) (0.0) (1.1) (0.2) (9.6)	-9.1 0.0 2.2 7.5 -3.6 -9.6 3.6 0.0 -6.4 -12.2 0.0 -9.6 2.2	-12.2 -3.9 -1.7 -2.1 -11.9 -10.1 -100.0 1.6 -3.1 -3.1 -9.5 -11.5 -4.7 -5.1 -0.5	Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Switzerland Tajikistan
580 320 110 170 13 580 380 0 11 25 220 10 000 0 94 17 750 500	(5.9) (3.4) (3.2) (4.2) (0.2) (3.2) (6.1) (0.0) (0.2) (1.2) (5.5) (7.1) (0.0) (1.1) (0.2) (8.5) (0.6)	590 260 100 160 20 590 360 0 1 25 210 9200 0 9200 0 94 17 740	(2.8) (3.0) (4.0) (0.2) (5.7) (0.0) (0.2) (1.2) (5.3) (6.3) (0.0) (1.1) (0.2) (1.1) (0.2) (8.2) (0.6)	590 260 93 150 20 600 290 0 1 25 210 8 000 0 94 17 730 420	(5.9) (2.8) (2.8) (3.2) (4.6) (0.0) (0.2) (1.2) (5.3) (5.5) (0.0) (1.1) (0.2) (7.9) (0.5)	740 260 110 190 21 610 300 0 1 25 210 7300 0 93 17 920 420	(7.3) (2.8) (3.5) (4.8) (0.2) (3.2) (4.6) (0.0) (0.2) (1.2) (5.3) (5.0) (0.0) (1.1) (0.2) (1.1) (0.2) (9.6) (0.5)	-9.1 0.0 2.2 7.5 -3.6 -9.6 3.6 0.0 -6.4 -12.2 0.0 -9.6 2.2 -7.4	-12.2 -3.9 -1.7 -2.1 -11.9 -10.1 -100.0 1.6 -3.1 -9.5 -11.5 -4.7 -5.1 -0.5 -9.3	Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Switzerland Tajikistan Turkey
580 320 110 170 13 580 380 0 1 1 25 220 10 000 0 94 17 750 500 590	(5.9) (3.4) (3.2) (4.2) (0.2) (3.2) (6.1) (0.0) (0.2) (1.2) (5.5) (7.1) (0.0) (1.1) (0.2) (8.5) (0.6) (10.0)	590 260 100 160 20 360 0 1 25 210 9 200 0 9 200 0 9 4 17 740 460 600	(2.8) (3.0) (4.0) (0.2) (3.2) (5.7) (0.0) (0.2) (1.2) (5.3) (6.3) (0.0) (1.1) (0.2) (8.2) (0.6) (10.0)	590 260 93 150 20 600 290 0 1 25 210 8 000 0 94 17 730 420 610	(5.9) (2.8) (2.8) (0.2) (3.2) (4.6) (0.0) (0.2) (1.2) (5.3) (5.5) (0.0) (1.1) (0.2) (7.9) (0.5) (10.0)	740 260 110 190 21 610 300 0 1 25 210 7300 0 93 17 920 420 620	(7.3) (2.8) (3.5) (4.8) (0.2) (4.6) (0.0) (0.2) (1.2) (5.3) (5.0) (0.0) (1.1) (0.2) (9.6) (0.5) (10.0)	-9.1 0.0 2.2 7.5 -3.6 -9.6 3.6 0.0 -6.4 -12.2 0.0 -9.6 2.2 -7.4 0.0	-12.2 -3.9 -1.7 -2.1 -11.9 -10.0 1.6 -3.1 -9.5 -11.5 -4.7 -5.1 -0.5 -9.3 -3.7	Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Switzerland Tajikistan Turkey Turkmenistan
580 320 110 170 3 580 380 0 0 1 1 25 220 10 000 0 94 17 750 500 590 4 000	(5.9) (3.4) (3.2) (4.2) (0.2) (3.2) (6.1) (0.0) (0.2) (1.2) (5.5) (7.1) (0.0) (1.1) (0.2) (1.1) (0.2) (1.1) (0.2) (1.1) (0.2) (1.2) (0.6) (10.0) (9.1)	590 260 100 160 20 590 360 0 1 25 210 9200 0 9200 0 94 17 740 460 600 4 000	(2.8) (3.0) (4.0) (0.2) (3.2) (5.7) (0.0) (0.2) (1.2) (5.3) (6.3) (0.0) (1.1) (0.2) (8.2) (0.6) (10.0) (9.0)	590 260 93 150 20 600 290 0 1 1 25 210 8000 0 94 17 730 420 610 3700	(5.9) (2.8) (2.8) (0.2) (3.2) (4.6) (0.0) (0.2) (1.2) (5.3) (5.5) (0.0) (1.1) (0.2) (7.9) (0.5) (10.0) (8.3)	740 260 110 190 21 610 300 0 1 1 25 210 7300 0 93 17 920 420 620 4100	(7.3) (2.8) (3.5) (4.8) (0.2) (3.2) (4.6) (0.0) (0.2) (1.2) (5.3) (5.0) (0.0) (1.1) (0.2) (9.6) (0.5) (10.0) (9.4)	-9.1 0.0 2.2 7.5 -3.6 -9.6 3.6 0.0 -6.4 -12.2 0.0 -9.6 2.2 2.2 -7.4 0.0 -1.5	-12.2 -3.9 -1.7 -2.1 -11.9 -10.1 -100.0 1.6 -3.1 -9.5 -11.5 -4.7 -5.1 -0.5 -9.3 -3.7 -5.7	Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Switzerland Tajikistan Turkay Ukraine
580 320 110 170 13 580 380 0 1 1 25 220 10 000 0 94 17 750 500 590 4 000 310	(5.9) (3.4) (3.2) (4.2) (0.2) (6.1) (0.0) (0.2) (1.2) (5.5) (7.1) (0.0) (1.1) (0.2) (8.5) (0.6) (10.0) (9.1) (0.5)	590 260 100 160 20 590 360 0 1 25 210 9 200 0 9 200 0 9 4 17 740 460 600 4 000 310	(2.8) (3.0) (4.0) (0.2) (3.2) (5.7) (0.0) (0.2) (1.2) (5.3) (6.3) (0.0) (1.1) (0.2) (1.1) (0.2) (1.1) (0.2) (1.0) (9.0) (9.0) (0.5)	590 260 93 150 20 600 290 0 1 1 25 210 8 000 0 94 17 730 420 610 3 700 310	(5.9) (2.8) (2.8) (0.2) (3.2) (4.6) (0.0) (0.2) (1.2) (5.3) (5.5) (0.0) (1.1) (0.2) (7.9) (0.5) (70.0) (8.3) (0.5)	740 260 110 190 21 610 300 0 1 25 210 7 300 0 93 17 920 420 620 4 100 310	(7.3) (2.8) (3.5) (4.8) (0.2) (3.2) (4.6) (0.0) (0.2) (1.2) (5.3) (5.0) (0.0) (1.1) (0.2) (9.6) (0.5) (0.0) (9.4) (0.5)	-9.1 0.0 2.2 7.5 -3.6 -9.6 0.0 -6.4 -12.2 0.0 -9.6 2.2 2.2 -7.4 0.0 -7.5 0.0	-12.2 -3.9 -1.7 -2.1 -11.9 -10.1 -100.0 1.6 -3.1 -9.5 -11.5 -4.7 -5.1 -0.5 -9.3 -3.7 -5.7 -5.7 -1.6	Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Switzerland Tajikistan Turkenistan Ukraine United Kingdom
580 320 110 170 13 580 380 0 1 1 25 220 10 000 0 94 17 750 500 590 4 000 310 1 600	(5.9) (3.4) (3.2) (4.2) (0.2) (3.2) (6.1) (0.0) (0.2) (1.2) (5.5) (7.1) (0.0) (1.1) (0.2) (8.5) (0.6) (10.0) (9.1) (0.5) (5.0)	590 260 100 160 20 590 0 1 25 210 9 200 0 9 200 0 9 4 17 740 460 600 4 000 310	$\begin{array}{c} (2.8) \\ (3.0) \\ (4.0) \\ (0.2) \\ (3.2) \\ (5.7) \\ (0.0) \\ (0.2) \\ (1.2) \\ (5.3) \\ (6.3) \\ (0.0) \\ (1.1) \\ (0.2) \\ (8.2) \\ (0.6) \\ (10.0) \\ (0.6) \\ (10.0) \\ (9.0) \\ (0.5) \\ (4.0) \end{array}$	590 260 93 150 20 600 290 0 1 1 25 210 8 000 0 94 17 730 420 610 3 700 310 1 000	(5.9) (2.8) (2.8) (3.8) (0.2) (4.6) (0.0) (0.2) (1.2) (5.3) (5.5) (0.0) (1.1) (0.2) (7.9) (0.5) (10.0) (8.3) (0.5) (3.2)	740 260 110 190 21 610 300 0 1 25 210 7 300 0 93 17 920 420 620 4100 310	(7.3) (2.8) (3.5) (4.8) (0.2) (3.2) (4.6) (0.0) (0.2) (1.2) (5.3) (5.0) (0.0) (1.1) (0.2) (9.6) (0.5) (0.5) (0.0) (9.4) (0.5) (3.2)	-9.1 0.0 2.2 7.5 -3.6 -9.6 3.6 0.0 -6.4 -12.2 0.0 -9.6 2.2 -7.4 0.0 -1.5 0.0 -1.5 0.0	-12.2 -3.9 -1.7 -2.1 -11.9 -10.1 -100.0 1.6 -3.1 -9.5 -11.5 -4.7 -5.1 -0.5 -9.3 -3.7 -5.7 -1.6 -10.5	Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Nontenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Switzerland Tajikistan Turkey Turkmenistan United Kingdom Uzbekistan
580 320 110 170 13 580 380 0 1 1 25 220 10 000 0 94 17 750 500 590 4 000 310	(5.9) (3.4) (3.2) (4.2) (0.2) (6.1) (0.0) (0.2) (1.2) (5.5) (7.1) (0.0) (1.1) (0.2) (8.5) (0.6) (10.0) (9.1) (0.5)	590 260 100 160 20 590 360 0 1 25 210 9 200 0 9 200 0 9 4 17 740 460 600 4 000 310	(2.8) (3.0) (4.0) (0.2) (3.2) (5.7) (0.0) (0.2) (1.2) (5.3) (6.3) (0.0) (1.1) (0.2) (1.1) (0.2) (1.1) (0.2) (1.0) (9.0) (9.0) (0.5)	590 260 93 150 20 600 290 0 1 1 25 210 8 000 0 94 17 730 420 610 3 700 310	(5.9) (2.8) (2.8) (0.2) (3.2) (4.6) (0.0) (0.2) (1.2) (5.3) (5.5) (0.0) (1.1) (0.2) (7.9) (0.5) (70.0) (8.3) (0.5)	740 260 110 190 21 610 300 0 1 25 210 7 300 0 93 17 920 420 620 4 100 310	(7.3) (2.8) (3.5) (4.8) (0.2) (3.2) (4.6) (0.0) (0.2) (1.2) (5.3) (5.0) (0.0) (1.1) (0.2) (9.6) (0.5) (0.0) (9.4) (0.5)	-9.1 0.0 2.2 7.5 -3.6 -9.6 3.6 0.0 -6.4 -12.2 0.0 -9.6 2.2 2.2 -7.4 0.0 -7.5 0.0	-12.2 -3.9 -1.7 -2.1 -11.9 -10.1 -100.0 1.6 -3.1 -9.5 -11.5 -4.7 -5.1 -0.5 -9.3 -3.7 -5.7 -1.6 -10.5 -9.7	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 United Kingdom

	20	11	20	12	20	13	20	14	20	15	20	16
Country	N	Rate per 100 000	N	Rate per 100000	N	Rate per 100000	N	Rate per 10000	N	Rate per 100000	N	Rate per 100 000
EU/EEA												
Austria	770	(9.2)	710	(8.4)	720	(8.4)	650	(7.5)	650	(7.5)	710	(8.1)
Belgium	1100	(10.0)	1000	(9.4)	1000	(9.3)	1000	(9.1)	1 100	(9.5)	1 100	(10.0)
Bulgaria	2 700	(37.0)	2 600	(35.0)	2 400	(33.0)	2 300	(31.0)	2 000	(28.0)	1900	(27.0)
Croatia	710	(17.0)	620	(14.0)	590	(14.0)	570	(13.0)	560	(13.0)	520	(12.0)
Cyprus	59	(17.0)	72	(14.0)	47	(14.0)	45	(3.9)	72	(6.2)	66	(5.6)
Czechia	650	(6.2)	650	(6.1)	540	(4.1)	550	(5.1)	580	(5.5)	590	(5.5)
Denmark		(7.4)		(7.0)		(6.7)		(5.9)		(6.5)	340	(5.9)
Estonia	410 340	(7.4)	390 300	(7.0)	380		340	(21.0)	370	(18.0)	220	(16.0)
Finland		(25.0)	300	(5.5)	300	(23.0) (5.6)	270 290	(21.0)	240 310	(18.0)	220	(18.0)
	360				310							
France	5 700	(9.0)	5 700	(9.0)	5 700	(8.9)	5 500	(8.5)	5 400	(8.4)	5 700	(8.7)
Germany	4 700	(5.8)	4 600	(5.7)	4 800	(5.9)	5 000	(6.1)	6 500	(8.0)	6 600	(8.0)
Greece	520	(4.8)	600	(5.5)	570	(5.3)	560	(5.2)	500	(4.7)	470	(4.4)
Hungary	1500	(15.0)	1 3 0 0	(14.0)	1 200	(12.0)	920	(9.4)	990	(10.0)	850	(8.7)
Iceland	9	(2.8)	12	(3.5)	13	(3.9)	9	(2.8)	8	(2.4)	7	(2.1)
Ireland	450	(9.7)	390	(8.5)	410	(8.9)	340	(7.4)	340	(7.3)	340	(7.2)
Italy	3 900	(6.6)	3 600	(5.9)	3 500	(5.8)	4 0 0 0	(6.6)	4 0 0 0	(6.6)	4 300	(7.2)
Latvia	990	(47.0)	1 100	(53.0)	1 000	(49.0)	850	(42.0)	800	(40.0)	740	(37.0)
Liechtenstein	-	-	-	-	-	-	-	-	-	-	-	-
Lithuania	2 000	(65.0)	1900	(62.0)	1800	(60.0)	1700	(57.0)	1 600	(55.0)	1 500	(54.0)
Luxembourg	29	(5.5)	52	(9.7)	44	(8.1)	28	(5.0)	34	(6.1)	33	(5.8)
Malta	34	(8.3)	48	(11.0)	58	(13.0)	52	(12.0)	37	(8.5)	58	(13.0)
Netherlands	1100	(6.7)	1100	(6.3)	960	(5.7)	940	(5.5)	980	(5.8)	1000	(5.9)
Norway	370	(7.4)	390	(7.9)	420	(8.2)	350	(6.8)	330	(6.3)	320	(6.1)
Poland	9 100	(24.0)	8 100	(21.0)	8 100	(21.0)	7 500	(20.0)	7 200	(19.0)	7 100	(19.0)
Portugal	2 900	(27.0)	2 900	(27.0)	2 700	(26.0)	2 500	(24.0)	2 400	(23.0)	2 100	(20.0)
Romania	20 000	(96.0)	19 000	(92.0)	18 000	(89.0)	17 000	(85.0)	16 000	(82.0)	15 000	(74.0)
Slovakia	430	(8.0)	370	(6.8)	460	(8.4)	370	(6.8)	350	(6.5)	320	(5.9)
Slovenia	210	(10.0)	150	(7.5)	160	(7.7)	160	(7.9)	150	(7.2)	140	(6.5)
Spain	7 400	(16.0)	6 500	(14.0)	6 0 0 0	(13.0)	5 500	(12.0)	4 6 0 0	(9.9)	5 400	(12.0)
Sweden	620	(6.5)	680	(7.1)	700	(7.3)	730	(7.5)	900	(9.2)	810	(8.2)
Subtotal EU/EEA	69 100	(15.5)	65 100	(14.6)	62 900	(14.1)	60 000	(13.4)	59 000	(13.2)	58 500	(13.1)
Non-EU/EEA												
Albania	490	(17.0)	470	(16.0)	550	(19.0)	470	(16.0)	480	(17.0)	480	(17.0)
Andorra	3	(4.1)	10	(13.0)	6	(7.1)	7	(8.7)	5	(5.9)	5	(6.0)
Armenia	1 600	(55.0)	1 500	(53.0)	1700	(60.0)	1700	(57.0)	1 500	(50.0)	1 300	(44.0)
Azerbaijan	11 000	(125.0)	8 000	(86.0)	7 300	(78.0)	7 200	(76.0)	6 800	(71.0)	6 400	(66.0)
Belarus	5 900	(62.0)	6 000	(63.0)	5 600	(59.0)	4 800	(51.0)	4 700	(50.0)	4 0 0 0	(42.0)
Bosnia and Herzegovina	1700	(46.0)	1800	(49.0)	1600	(44.0)	1500	(43.0)	1400	(40.0)	1 100	(33.0)
Georgia	5 0 0 0	(122.0)	4 800	(119.0)	4 700	(116.0)	4 300	(106.0)	4 000	(99.0)	3 700	(92.0)
Israel	470	(6.3)	580	(7.6)	350	(4.6)	420	(5.3)	320	(4.0)	290	(3.5)
Kazakhstan	22 000	(135.0)	20 000	(122.0)	18 000	(106.0)	16 000	(91.0)	14 000	(81.0)	13 000	(73.0)
Kyrgyzstan									8 100	(136.0)	8 100	(133.0)
	6 900	(125.0)	7 100	(127.0)	8 100	(142.0)	/ 300	(126.0)			2.00	(
	6 900 0	(125.0)	7 100 0	(127.0)	<i>8 100</i> 0	(142.0)	7 300 0	(126.0)		(0.0)	2	(6.0)
Monaco	0	(1.0)	0	(1.1)	0	(1.1)	0	(0.0)	0	(0.0)	2 100	(6.0)
Monaco Montenegro	0 130	(1.0) (20.0)	0 110	(1.1) (18.0)	0 140	(1.1) (22.0)	0 130	(0.0) (21.0)	0 92	(15.0)	100	(16.0)
Monaco Montenegro North Macedonia	0 130 420	(1.0) (20.0) (20.0)	0 110 430	(1.1) (18.0) (21.0)	0 140 400	(1.1) (22.0) (19.0)	0 130 350	(0.0) (21.0) (17.0)	0 92 350	(15.0) (17.0)	100 330	(16.0) (16.0)
Monaco Montenegro North Macedonia Republic of Moldova	0 130 420 4 <i>900</i>	(1.0) (20.0) (20.0) (119.0)	0 110 430 <i>5 100</i>	(1.1) (18.0) (21.0) (124.0)	0 140 400 5 200	(1.1) (22.0) (19.0) (127.0)	0 130 350 4 <i>700</i>	(0.0) (21.0) (17.0) (115.0)	0 92 350 4 100	(15.0) (17.0) <i>(102.0)</i>	100 330 4 <i>100</i>	(16.0) (16.0) <i>(101.0)</i>
Monaco Montenegro North Macedonia Republic of Moldova Russian Federation	0 130 420 4 <i>900</i> 116 <i>000</i>	(1.0) (20.0) (20.0) (119.0) (81.0)	0 110 430 5 100 110 000	(1.1) (18.0) (21.0) (124.0) (77.0)	0 140 400 5 200 106 000	(1.1) (22.0) (19.0) (127.0) (73.0)	0 130 350 4700 101000	(0.0) (21.0) (17.0) (115.0) (70.0)	0 92 350 4100 97000	(15.0) (17.0) (102.0) (67.0)	100 330 4 100 91 000	(16.0) (16.0) (101.0) (63.0)
Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino	0 130 420 4900 116 000 0	(1.0) (20.0) (20.0) (119.0) (81.0) (0.0)	0 110 430 5100 110 000 0	(1.1) (18.0) (21.0) (124.0) (77.0) (0.0)	0 140 400 5 200 106 000 0	(1.1) (22.0) (19.0) (127.0) (73.0) (0.0)	0 130 350 4700 101 000 0	(0.0) (21.0) (17.0) (115.0) (70.0) (0.0)	0 92 350 4 100 97 000 0	(15.0) (17.0) (102.0) (67.0) (0.0)	100 330 4 100 91 000 0	(16.0) (16.0) (101.0) (63.0) (0.0)
Monaco Montenegro North Macedonia <i>Republic of Moldova</i> <i>Russian Federation</i> San Marino Serbia	0 130 420 4900 116 000 0 2 500	(1.0) (20.0) (20.0) (119.0) (81.0) (0.0) (28.0)	0 110 430 5100 110 000 0 2 200	(1.1) (18.0) (21.0) (124.0) (77.0) (0.0) (24.0)	0 140 5 200 106 000 0 2 400	(1.1) (22.0) (19.0) (127.0) (73.0) (0.0) (27.0)	0 130 350 4700 101 000 0 2 100	(0.0) (21.0) (17.0) (115.0) (70.0) (0.0) (23.0)	0 92 350 4100 97000 0 1900	(15.0) (17.0) (102.0) (67.0) (0.0) (21.0)	100 330 4100 91000 0 1700	(16.0) (16.0) (101.0) (63.0) (0.0) (19.0)
Monaco Montenegro North Macedonia <i>Republic of Moldova</i> <i>Russian Federation</i> San Marino Serbia Switzerland	0 130 420 4900 116 000 0 2 500 600	(1.0) (20.0) (20.0) (119.0) (81.0) (0.0) (28.0) (7.6)	0 110 430 5100 110 000 0 2 200 480	(1.1) (18.0) (21.0) (124.0) (77.0) (0.0) (24.0) (6.0)	0 140 5 200 106 000 0 2 400 540	(1.1) (22.0) (19.0) (127.0) (73.0) (0.0) (27.0) (6.6)	0 130 350 4700 101 000 0 2 100 490	(0.0) (21.0) (17.0) (115.0) (70.0) (0.0) (23.0) (5.9)	0 92 350 4100 97000 0 1900 610	(15.0) (17.0) (102.0) (67.0) (0.0) (21.0) (7.4)	100 330 4100 91000 0 1700 660	(16.0) (16.0) (101.0) (63.0) (0.0) (19.0) (7.9)
Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Switzerland Tajikistan	0 130 420 4900 116 000 0 2 500 600 9 000	(1.0) (20.0) (119.0) (81.0) (0.0) (28.0) (7.6) (117.0)	0 110 5 100 110 000 0 2 200 480 8 500	(1.1) (18.0) (21.0) (124.0) (77.0) (0.0) (24.0) (6.0) (108.0)	0 140 5 200 106 000 0 2 400 540 8 000	(1.1) (22.0) (19.0) (127.0) (73.0) (0.0) (27.0) (6.6) (100.0)	0 130 350 4700 101 000 0 2 100 490 7 500	(0.0) (21.0) (17.0) (115.0) (70.0) (0.0) (23.0) (5.9) (91.0)	0 92 350 4100 97000 0 1900 610 7300	(15.0) (17.0) (102.0) (67.0) (0.0) (21.0) (7.4) (86.0)	100 330 4100 91000 0 1700 660 7400	(16.0) (16.0) (101.0) (63.0) (0.0) (19.0) (7.9) (85.0)
Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Switzerland Tajikistan Turkey	0 130 420 4900 116 000 0 2 500 600 9 000 17 000	(1.0) (20.0) (119.0) (81.0) (0.0) (28.0) (7.6) (117.0) (24.0)	0 110 430 5100 110 000 0 2 200 480 8 500 16 000	(1.1) (18.0) (21.0) (124.0) (77.0) (0.0) (24.0) (6.0) (108.0) (22.0)	0 140 5 200 106 000 0 2 400 5 400 5 400 8 000 15 000	(1.1) (22.0) (19.0) (127.0) (73.0) (0.0) (27.0) (6.6) (100.0) (20.0)	0 130 350 4700 0 0 2100 490 7500 15000	(0.0) (21.0) (17.0) (115.0) (70.0) (0.0) (23.0) (5.9) (91.0) (20.0)	0 92 350 4 100 97 000 0 1 900 610 7 300 14 000	(15.0) (17.0) (102.0) (67.0) (0.0) (21.0) (7.4) (86.0) (18.0)	100 330 4100 91000 0 1700 660 7400 14000	(16.0) (16.0) (101.0) (63.0) (0.0) (19.0) (7.9) (85.0) (18.0)
Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Switzerland Tajikistan Turkey Turkmenistan	0 130 420 4900 116 000 0 2 500 600 9 000 17 000 3 400	(1.0) (20.0) (20.0) (119.0) (81.0) (0.0) (28.0) (7.6) (117.0) (24.0) (66.0)	0 110 430 5100 0 0 2200 480 8500 16000 3700	(1.1) (18.0) (21.0) (124.0) (77.0) (0.0) (24.0) (6.0) (108.0) (22.0) (70.0)	0 140 5 200 106 000 0 2 400 5 40 8 000 15 000 3 800	(1.1) (22.0) (19.0) (127.0) (73.0) (0.0) (27.0) (6.6) (100.0) (20.0) (71.0)	0 130 350 4700 101 000 0 2 100 490 7 500 15 000 3 200	(0.0) (21.0) (17.0) (115.0) (70.0) (0.0) (23.0) (5.9) (91.0) (20.0) (58.0)	0 92 350 4100 97 000 0 1900 610 7 300 14 000 2 700	(15.0) (17.0) (102.0) (67.0) (0.0) (21.0) (7.4) (86.0) (18.0) (49.0)	100 330 4100 91000 0 1700 660 7400 14000 2600	(16.0) (16.0) (101.0) (63.0) (0.0) (19.0) (7.9) (85.0) (18.0) (46.0)
Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Switzerland Tajikistan Turkey Turkmenistan Ukraine	0 130 420 4900 116000 0 2500 600 9000 17000 3400 48000	(1.0) (20.0) (20.0) (119.0) (81.0) (0.0) (28.0) (7.6) (117.0) (24.0) (66.0) (105.0)	0 110 430 5 100 0 2 200 480 8 500 16 000 3 700 46 000	(1.1) (18.0) (21.0) (124.0) (77.0) (0.0) (24.0) (6.0) (108.0) (22.0) (70.0) (101.0)	0 140 5 200 106 000 0 2 400 540 8 000 15 000 3 800 44 000	(1.1) (22.0) (19.0) (127.0) (73.0) (0.0) (27.0) (6.6) (100.0) (20.0) (71.0) (96.0)	0 130 350 4700 0 2100 490 7500 15000 3200 43000	(0.0) (21.0) (17.0) (115.0) (70.0) (0.0) (23.0) (5.9) (91.0) (20.0) (58.0) (94.0)	0 92 350 4 100 97 000 0 1 900 610 7 300 14 000 2 700 41 000	(15.0) (17.0) (102.0) (67.0) (0.0) (21.0) (7.4) (86.0) (18.0) (49.0) (91.0)	100 330 4100 91000 0 1700 660 7400 14000 2600 39000	(16.0) (16.0) (101.0) (63.0) (0.0) (19.0) (7.9) (85.0) (18.0) (46.0) (87.0)
Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Switzerland Tajikistan Turkey Turkmenistan Ukraine United Kingdom	0 130 420 4900 116000 0 2500 600 9000 17000 3400 48000 9500	(1.0) (20.0) (20.0) (119.0) (81.0) (0.0) (28.0) (7.6) (117.0) (24.0) (24.0) (66.0) (105.0) (15.0)	0 110 430 5100 0 2200 480 8500 16000 3700 46000 9300	(1.1) (18.0) (21.0) (124.0) (77.0) (0.0) (24.0) (108.0) (22.0) (70.0) (101.0) (14.0)	0 140 5 200 106 000 0 2 400 540 8 000 15 000 3 800 44 000 8 300	(1.1) (22.0) (19.0) (127.0) (73.0) (0.0) (27.0) (6.6) (100.0) (20.0) (71.0) (96.0) (13.0)	0 130 350 4700 0 2100 490 7500 15000 3200 43000 7400	(0.0) (21.0) (17.0) (70.0) (0.0) (23.0) (5.9) (91.0) (20.0) (58.0) (94.0) (11.0)	0 92 350 4100 97 000 0 1900 610 7 300 14 000 2 700 41 000 6 600	(15.0) (17.0) (102.0) (67.0) (0.0) (21.0) (7.4) (86.0) (18.0) (49.0) (91.0) (10.0)	100 330 4100 91000 0 1700 660 7400 14000 2600 39000 6500	(16.0) (101.0) (63.0) (0.0) (19.0) (7.9) (85.0) (18.0) (46.0) (87.0) (9.8)
Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Switzerland Tajikistan Turkey Turkmenistan Ukraine United Kingdom Uzbekistan	0 130 420 4900 116 000 0 2 500 600 9 000 9 000 17 000 3 400 48 000 9 500 27 000	(1.0) (20.0) (20.0) (119.0) (81.0) (0.0) (28.0) (7.6) (117.0) (24.0) (24.0) (24.0) (66.0) (105.0) (15.0) (93.0)	0 110 430 5100 110 000 0 2 200 48 500 16 000 3 700 46 000 9 300 26 000	(1.1) (18.0) (21.0) (124.0) (77.0) (0.0) (24.0) (6.0) (108.0) (70.0) (70.0) (101.0) (14.0) (89.0)	0 140 5 200 106 000 0 2 400 5 400 8 000 15 000 3 800 44 000 8 300 26 000	(1.1) (22.0) (19.0) (127.0) (73.0) (0.0) (27.0) (6.6) (100.0) (20.0) (71.0) (96.0) (13.0) (86.0)	0 130 350 4700 101 000 0 2 100 490 7 500 15 000 3 200 43 000 7 400 25 000	(0.0) (21.0) (17.0) (115.0) (70.0) (0.0) (23.0) (5.9) (91.0) (20.0) (58.0) (94.0) (11.0) (82.0)	0 92 350 4 100 97 000 0 1 900 6 10 7 300 1 4 000 2 700 4 1 000 6 600 25 000	(15.0) (17.0) (102.0) (67.0) (0.0) (21.0) (7.4) (86.0) (18.0) (49.0) (91.0) (10.0) (79.0)	100 330 4100 91000 0 1700 660 7400 14000 2600 39000 6500 24000	(16.0) (101.0) (63.0) (0.0) (19.0) (7.9) (85.0) (18.0) (46.0) (87.0) (9.8) (76.0)
Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Switzerland Tajikistan Turkey Turkmenistan Ukraine United Kingdom	0 130 420 4900 116000 0 2500 600 9000 17000 3400 48000 9500	(1.0) (20.0) (20.0) (119.0) (81.0) (0.0) (28.0) (7.6) (117.0) (24.0) (24.0) (66.0) (105.0) (15.0)	0 110 430 5100 0 2200 480 8500 16000 3700 46000 9300	(1.1) (18.0) (21.0) (124.0) (77.0) (0.0) (24.0) (108.0) (22.0) (70.0) (101.0) (14.0)	0 140 5 200 106 000 0 2 400 540 8 000 15 000 3 800 44 000 8 300	(1.1) (22.0) (19.0) (127.0) (73.0) (0.0) (27.0) (6.6) (100.0) (20.0) (71.0) (96.0) (13.0)	0 130 350 4700 0 2100 490 7500 15000 3200 43000 7400	(0.0) (21.0) (17.0) (70.0) (0.0) (23.0) (5.9) (91.0) (20.0) (58.0) (94.0) (11.0)	0 92 350 4100 97 000 0 1900 610 7 300 14 000 2 700 41 000 6 600	(15.0) (17.0) (102.0) (67.0) (0.0) (21.0) (7.4) (86.0) (18.0) (49.0) (91.0) (10.0)	100 330 4100 91000 0 1700 660 7400 14000 2600 39000 6500	(16.0) (101.0) (63.0) (0.0) (19.0) (7.9) (85.0) (18.0) (46.0) (87.0) (9.8)

Table II. Estimated TB incidence per 100 000 population, European Region, 2011–2020

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

	201	17	201	18	20:	19	202	20	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, 2016–2020	% change in rate, 2011–2020	Country
									2010 2020	2011 2020	EU/EEA
ľ	650	(7.3)	540	(6.1)	530	(6.0)	440	(4.9)	-11.8	6.0	Austria
							890				
	1 100	(9.2)	1000	(9.1)	1000	(8.9)		(7.7)	-6.3	-2.9	Belgium
	1 800	(25.0)	1600	(23.0)	1 400	(21.0)	1 300	(19.0)	-8.4	-7.1	
	420	(10.0)	420	(10.0)	340	(8.3)	270	(6.6)	-13.9	-10.0	
	60	(5.1)	59	(4.9)	76	(6.3)	69	(5.7)	0.4		Cyprus
	570	(5.4)	500	(4.7)	530	(4.9)	410	(3.9)	-8.2		Czechia
	290	(5.1)	310	(5.4)	300	(5.2)	280	(4.9)	-4.5		Denmark
	200	(15.0)	170	(13.0)	170	(13.0)	140	(10.0)	-11.1		Estonia
	270	(4.9)	260	(4.8)	260	(4.7)	200	(3.6)	-6.4	-6.7	Finland
	5 900	(9.0)	5800	(8.9)	5 900	(9.0)	5 300	(8.2)	-1.5	-1.0	France
	6 200	(7.4)	6 100	(7.3)	5 300	(6.4)	4 600	(5.5)	-8.9	-0.6	Germany
	500	(4.7)	470	(4.4)	500	(4.8)	470	(4.5)	0.6	-0.7	Greece
	750	(7.7)	690	(7.1)	610	(6.3)	440	(4.6)	-14.7	-12.3	Hungary
	15	(4.5)	9	(2.7)	15	(4.4)	10	(2.8)	7.5	0.0	Iceland
	350	(7.3)	340	(7.0)	280	(5.8)	260	(5.3)	-7.4		
	4 4 0 0	(7.3)	4 300	(7.2)	3 700	(6.0)	4 0 0 0	(6.6)	-2.2	0.0	
	620	(32.0)	560	(29.0)	490	(26.0)	430	(23.0)	-11.2		Latvia
	- 020	()2.0)	500	(27.0)		(20.0)	450	(20.0)	-11.2	7.0	Liechtenstein
	1 500	(51.0)	1200	(44.0)	1200	(42.0)	790	(29.0)	-14.4	-8.6	
		(51.0)		(44.0)		(42.0)		(29.0)			Luxembourg
	37		48		55		37		0.4		
	48	(11.0)	63	(14.0)	110	(26.0)	160	(36.0)	29.0	17.7	
	890	(5.2)	910	(5.3)	860	(5.0)	710	(4.1)	-8.7	-5.3	
	270	(5.1)	220	(4.1)	180	(3.3)	170	(3.1)	-15.6		Norway
	6 400	(17.0)	6 0 0 0	(16.0)	5 700	(15.0)	3 600	(9.6)	-15.7	-9.7	Poland
	2 0 0 0	(20.0)	2 100	(21.0)	2 0 0 0	(19.0)	1600	(16.0)	-5.4	-5.6	Portugal
	14 000	(72.0)	13 000	(68.0)	13 000	(66.0)	12 000	(64.0)	-3.6	-4.4	Romania
	260	(4.8)	310	(5.8)	250	(4.5)	180	(3.2)	-14.2	-9.7	Slovakia
	130	(6.2)	110	(5.4)	110	(5.4)	86	(4.1)	-10.9	-9.4	Slovenia
	5 0 0 0	(11.0)	5 200	(11.0)	4700	(10.0)	3 400	(7.3)	-11.7	-8.3	Spain
	560	(5.7)	550	(5.5)	550	(5.5)	360	(3.6)	-18.6	-6.4	Sweden
	55 200	(12.3)	52 800	(11.7)	50 100	(11.1)	42 600	(9.5)	-7.8	-5.4	Subtotal EU/EEA
											Non-EU/EEA
	580	(20.0)	510	(18.0)	470	(16.0)	430	(15.0)	-3.1	-1.4	Albania
	1	(1.5)	2	(3.0)	6	(7.5)	2	(3.0)	-15.9		Andorra
	1 100	(36.0)	920	(31.0)	780	(26.0)	680	(23.0)	-15.0		Armenia
	6 500	(66.0)	6 300	(63.0)	6 0 0 0	(60.0)	5 900	(58.0)	-3.2		Azerbaijan
	3 500	(37.0)	2 900	(31.0)	2 800	(29.0)	2 500	(26.0)	-11.3	-9.2	Belarus
	960	(29.0)	830	(25.0)	900	(29.0)	850	(26.0)	-5.8		Bosnia and Herzegovina
											Ŭ
	3 400	(86.0)	3200	(80.0)	3 000	(74.0)	2 800	(70.0)	-6.6		
	270	(3.3)	340	(4.0)	250	(2.9)	180	(2.1)	-12.0		Israel
	12 000	(69.0)	12 000	(67.0)	13 000	(68.0)	13 000	(69.0)	-1.4		Kazakhstan
	7 700	(124.0)	7 300	(116.0)	7 100	(110.0)	6 900	(105.0)	-5.7		Kyrgyzstan
	0	(0.0)	1	(3.0)	0	(0.0)	0	(0.0)	0.0		Monaco
	86	(14.0)	97	(15.0)	92	(15.0)	99	(16.0)	0.0		Montenegro
	270	(13.0)	270	(13.0)	250	(12.0)	250	(12.0)	-6.9		North Macedonia
	3 900	(95.0)	3 500	(86.0)	3 200	(80.0)	3 000	(74.0)	-7.5		Republic of Moldova
	86 000	(59.0)	79 000	(54.0)	73 000	(50.0)	68 000	(46.0)	-7.6	-6.1	Russian Federation
	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0.0	0.0	San Marino
	1700	(19.0)	1500	(17.0)	1300	(14.0)	1 2 0 0	(13.0)	-9.1	-8.2	Serbia
	610	(7.2)	540	(6.4)	460	(5.4)	400	(4.7)	-12.2		Switzerland
	7 500	(85.0)	7 600	(84.0)	7 700	(83.0)	8 000	(84.0)	-0.3		Tajikistan
	14 000	(17.0)	13 000	(16.0)	13 000	(16.0)	13 000	(15.0)	-4.5		Turkey
	2 500	(43.0)	2 700	(46.0)	2 600	(45.0)	2 800	(47.0)	0.5		Turkmenistan
	37 000		36 000		34 000	(45.0)	32 000	(47.0)	-4.3		Ukraine
		(84.0)		(80.0)							
	5 900	(8.8)	5 400	(8.0)	5 400	(8.0)	4 700	(6.9)	-8.4		United Kingdom
	23 000	(73.0)	23 000	(70.0)	22 000	(67.0)	22 000	(66.0)	-3.5		Uzbekistan
	218 000	(46.0)	207 000	(43.4)	197 000	(41.1)	189 000	(39.2)	-5.4		Subtotal non-EU/EEA
	273 000	(29.6)	260 000	(28.1)	247 000	(26.6)	232 000	(24.9)	-5.7		Total European Region
	226 000	(55.7)	214 000	(52.5)	204 000	(49.8)	195 000	(47.4)	-5.3		Subtotal 18 HPCs

	20	011	20	12	20	13	20	14	20	15	20	16	
Country	N	Rate per 100 000	N	Rate per 100 000	N	Rate per 100 000	N	Rate per 100 000	N	Rate per 100 000	N	Rate per 100 000	
EU/EEA													
Austria	671	(8.0)	623	(7.4)	628	(7.4)	567	(6.7)	564	(6.6)	619	(7.1)	
Belgium	963	(8.8)	898	(8.1)	890	(8.0)	878	(7.9)	919	(8.2)	982	(8.7)	
Bulgaria	2 313	(31.4)	2 212	(30.2)	1930	(26.5)	1 825	(25.2)	1 619	(22.5)	1 525	(21.3)	
Croatia		-	539	(12.6)	510	(12.0)	498	(11.7)	485	(11.5)	452	(10.8)	
Cyprus	52	(6.2)	65	(7.5)	41	(4.7)	39	(4.5)	63	(7.4)	57	(6.7)	
Czechia	568	(5.4)	557	(5.3)	468	(4.5)	472	(4.5)	507	(4.8)	511	(4.8)	
Denmark	359	(6.5)	342	(6.1)	330	(5.9)	293	(5.2)	320	(5.7)	292	(5.1)	
Estonia	316	(23.8)	269	(20.3)	265	(20.1)	237	(18.0)	206	(15.7)	188	(14.3)	
Finland	318	(5.9)	269	(5.0)	263	(4.8)	257	(4.7)	270	(4.9)	223	(4.1)	
France	5 000	(7.7)	5 0 0 3	(7.7)	4 947	(7.5)	4 888	(7.4)	4 457	(6.7)	5 4 4 6	(8.2)	
Germany	4 176	(5.2)	4 038	(5.0)	4 0 9 4	(5.1)	4 350	(5.4)	5 6 2 6	(6.9)	5 7 3 9	(7.0)	
Greece	454	(4.1)	520	(4.7)	494	(4.5)	484	(4.4)	438	(4.0)	417	(3.9)	
Hungary	1 4 4 5	(14.5)	1 182	(11.9)	1040	(10.5)	799	(8.1)	858	(8.7)	737	(7.5)	
Iceland	9	(2.8)	11	(3.4)	11	(3.4)	9	(2.8)	7	(2.1)	6	(1.8)	
Ireland	387	(8.5)	333	(7.3)	350	(7.6)	290	(6.3)	266	(5.7)	290	(6.1)	
Italy	4 140	(7.0)	3 512	(5.9)	3 435	(5.8)	3 663	(6.0)	3 476	(5.7)	3 778	(6.2)	
Latvia	871	(42.0)	971	(47.5)	872	(43.1)	738	(36.9)	697	(35.1)	641	(32.6)	
Liechtenstein	1	(2.8)	2	(5.5)	0	(0.0)	0	(0.0)	1	(2.7)	2	(5.3)	
Lithuania	1 751	(57.4)	1 640	(54.6)	1 573	(52.9)	1 481	(50.3)	1 395	(47.8)	1 3 4 7	(46.6)	
Luxembourg	25	(4.9)	45	(8.6)	38	(7.1)	24	(4.4)	30	(5.3)	29	(5.0)	
Malta	32	(7.7)	41	(9.8)	50	(11.8)	45	(10.5)	32	(7.3)	50	(11.1)	
Netherlands	985	(5.9)	934	(5.6)	828	(4.9)	805	(4.8)	846	(5.0)	875	(5.2)	
Norway	320	(6.5)	340	(6.8)	354	(7.0)	299	(5.9)	282	(5.5)	273	(5.2)	
Poland	8 175	(21.5)	7 285	(19.1)	7 043	(18.5)	6 539	(17.2)	6 2 3 7	(16.4)	6 143	(16.2)	
Portugal	2 551	(24.1)	2 558	(24.3)	2 356	(22.5)	2 2 2 3	(21.3)	2 154	(20.8)	1891	(18.3)	
Romania	17 672	(87.5)	16 764	(83.4)	15 505	(77.4)	14 834	(74.4)	14 215	(71.5)	12 774	(64.6)	
Slovakia	397	(7.4)	344	(6.4)	398	(7.4)	320	(5.9)	308	(5.7)	281	(5.2)	
Slovenia	190	(9.3)	138	(6.7)	139	(6.8)	142	(6.9)	129	(6.3)	118	(5.7)	
Spain	6 410	(13.7)	5738	(12.3)	5 328	(11.4)	4 6 8 5	(10.1)	4 818	(10.4)	3 973	(8.6)	
Sweden	542	(5.8)	591	(6.2)	603	(6.3)	625	(6.5)	776	(8.0)	691	(7.0)	
Subtotal EU/EEA	61 0 93	(13.7)	57 764	(13.0)	54 783	(12.3)	52 309	(11.7)	52 001	(11.6)	50 350	(11.2)	
Non-EU/EEA													
Albania	422	(14.4)	408	(14.0)	474	(16.3)	408	(14.1)	415	(14.4)	415	(14.4)	
Andorra	3	(3.6)	9	(10.9)	5	(6.2)	6	(7.6)	4	(5.1)	4	(5.2)	
Armenia	1 2 6 1	(43.8)	1 213	(42.1)	1 397	(48.2)	1 329	(45.6)	1 171	(40.0)	1 027	(35.0)	
Azerbaijan	9 146	(100.0)	6 363	(68.7)	5 860	(62.4)	5 788	(60.9)	5 456	(56.7)	5 159	(53.0)	
Belarus	4 697	(49.9)	4 783	(50.8)	4 470	(47.4)	3 858	(40.9)	3 765	(39.9)	3 211	(34.0)	
Bosnia and Herzegovina	1360	(37.1)	1409	(39.1)	1 261	(35.6)	1 196	(34.3)	1092	(31.8)	907	(26.8)	
Georgia	4 547	(111.4)	3 940	(96.9)	3 434	(84.8)	3 200	(79.3)	3 152	(78.3)	2 983	(74.3)	
Israel	412	(5.5)	506	(6.6)	308	(4.0)	361	(4.6)	280	(3.5)	250	(3.1)	
Kazakhstan	25 074	(152.0)	18 006	(107.5)	18 958	(111.3)	15 244	(88.1)	14 006	(79.7)	12 322	(69.1)	
Kyrgyzstan	5 980	(108.4)	6 195	(110.2)	7 075	(123.4)	6 3 9 0	(109.3)	7 027	(117.9)	7 026	(115.7)	
Monaco	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	2	(5.3)	
Montenegro	110	(17.6)	98	(15.7)	119	(19.0)	113	(18.0)	80	(12.8)	87	(13.9)	
North Macedonia	335	(16.2)	346	(16.7)	318	(15.3)	284	(13.7)	282	(13.6)	263	(12.6)	
Republic of Moldova	4 233	(103.8)	4 4 0 9	(108.2)	4 485	(110.1)	4 058	(99.6)	3 608	(88.6)	3 571	(87.8)	
Russian Federation	112 910	(78.6)	105 753	(73.4)	106 053	(73.5)	102 340	(70.7)	99 590	(68.7)	92 407	(63.6)	
San Marino	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	0	(0.0)	
Serbia	2 174	(24.3)	1872	(20.9)	2 106	(23.6)	1 818	(20.4)	1649	(18.6)	1 472	(16.6)	
Serbia excluding Kosovo ¹	1 3 2 0	(17.9)	1168	(16.2)	1184	(16.2)	984	(13.8)	879	12.4	755	10.7	
Kosovo ¹	854	(48.6)	704	(38.7)	922	(54.0)	834	(44.8)	770	43.5	717	40.4	
Switzerland	524	(6.6)	416	(5.2)	466	(5.7)	423	(5.2)	531	(6.4)	573	(6.8)	
Tajikistan	7 035	(91.4)	6 508	(82.6)	5 576	(69.2)	5 807	(70.4)	5 894	(69.7)	5 965	(68.9)	
Turkey	15 054	(20.5)	14 139	(18.9)	13 170	(17.3)	13 108	(17.0)	12 550	(16.0)	12 186	(15.3)	
Turkmenistan	2 731	(52.8)	2 937	(55.8)	3 0 4 7	(56.8)	2 537	(46.4)	2 191	(39.4)	2 0 6 8	(36.5)	
Ukraine	34 237	(75.0)	40 990	(90.2)	36 510	(80.6)	31 701	(70.3)	30 151	(67.1)	29 052	(65.0)	
United Kingdom	8 407	(13.1)	8 269	(12.8)	7 384	(11.4)	6 6 2 2	(10.1)	5 854	(8.9)	5 793	(8.7)	
Uzbekistan	15 345	(53.0)	14 832	(50.4)	20 812	(69.5)	18 345	(60.3)	16 315	(52.7)	16 050	(51.0)	
Subtotal non-EU/EEA	255 997 317 090	(56.4) (35.3)	243 401 301 165	(53.2) (33.4)	243 288 298 071	(52.8) (32.9)	224 936 277 245	(48.5) (30.4)	215 063 267 064	(46.0) (29.2)	202 793 253 143	(43.1) (27.6)	
Total European Region													

Table III. New and relapse TB cases, a notification rates per 100 000 population and mean annual change in rates, European Region, 2011–2020

Note: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. HPCs: high-priority countries. ¹All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

201	17	20:	18	20	19	20	20	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, 2016–2020	% change in rate, 2011–2020	Country
										EU/EEA
561	(6.4)	470	(5.3)	464	(5.2)	382	(4.3)	-11.9	-6.7	Austria
911	(8.0)	910	(8.0)	890	(7.8)	778	(6.8)	-6.1	-2.8	Belgium
1 408	(19.8)	1290	(18.3)	1 288	(18.4)	887	(12.8)	-12.0	-9.5	Bulgaria
372	(9.0)	364	(8.9)	297	(7.3)	177	(4.4)	-20.3	-9.5	Croatia
52	(6.1)	51	(5.9)	66	(7.5)	34	(3.8)	-13.1	-5.2	Cyprus
495	(4.7)	434	(4.1)	455	(4.3)	360	(3.4)	-8.7		Czechia
253	(4.4)	270	(4.7)	260	(4.5)	205	(3.5)	-8.9		Denmark
172	(13.1)	145	(11.0)	147	(11.1)	120	(9.0)	-10.8		Estonia
242	(4.4)	226	(4.1)	225	(4.1)	174	(3.1)	-6.2		Finland
5 015	(7.5)	4 779	(7.1)	4 869	(7.2)	4 398	(6.5)	-5.4		France
5 371	(6.5)	5 326	(6.4)	4 6 4 8	(5.6)	4 010	(4.8)	-8.8		Germany
434	(4.0)	406	(3.8)	434	(4.0)	380	(3.5)	-2.1	-1.6	
650	(6.6)	602	(6.2)	528	(5.4)	384	(3.9)	-14.9		Hungary
13	(3.8)	8	(2.3)	13	(3.6)	12	(3.3)	16.3	-15.5	Iceland
283	(5.9)	290	(6.0)	247	(5.0)	229	(4.6)	-6.9		Ireland
	(6.3)		(6.2)		(5.3)					
3 828	(0.3)	3 777	(0.2)	3 185	(5.5)	2 163	(3.6)	-12.6		Italy Latvia
543		-	(2, ()	-	-	-	(5.2)	-	-	
12(0	(2.6)	1 0(2	(2.6)			2	(5.2)	-0.7		Liechtenstein
1268	(44.5)	1 0 6 3	(37.8)	1 006	(36.0)	688	(24.6)	-14.8		Lithuania
32	(5.4)	42	(7.0)	48	(7.8)	32	(5.1)	0.4		Luxembourg
42	(9.1)	55	(11.6)	98	(19.9)	140	(27.2)	25.1		Malta
772	(4.5)	780	(4.5)	739	(4.3)	614	(3.5)	-9.0	-5.6	Netherlands
237	(4.5)	188	(3.6)	150	(2.8)	144	(2.7)	-15.4	-9.4	,
5 535	(14.6)	5 196	(13.7)	4 983	(13.1)	3 150	(8.3)	-15.4		Poland
1870	(18.1)	1887	(18.3)	1872	(18.2)	1 4 0 2	(13.6)	-7.1		Portugal
12 303	(62.6)	11 581	(59.3)	11 070	(57.0)	7 193	(37.2)	-12.9		Romania
228	(4.2)	273	(5.0)	214	(3.9)	153	(2.8)	-14.2		Slovakia
112	(5.4)	98	(4.7)	98	(4.7)	75	(3.6)	-11.1	-10.0	Slovenia
4 522	(9.7)	4 614	(9.9)	4 406	(9.4)	2 949	(6.2)	-7.6		Spain
487	(4.9)	474	(4.7)	478	(4.7)	316	(3.1)	-18.7		Sweden
48 012	(10.6)	45 600	(10.1)	43 178	(9.6)	31 551	(7.0)	-11.1	-7.2	Subtotal EU/EEA
					())					Non-EU/EEA
503	(17.4)	440	(15.3)	412	(14.3)	240	(8.3)	-12.7		Albania
1	(1.3)	2	(2.6)	5	(6.5)	2	(2.6)	-15.9		Andorra
841	(28.6)	734	(24.9)	621	(21.0)	394	(13.3)	-21.5		Armenia
5 231	(53.1)	5 038	(50.6)	4 823	(48.0)	3 683	(36.3)	-9.0		Azerbaijan
2 781	(29.4)	2 359	(25.0)	2 207	(23.3)	1 514	(16.0)	-17.1		Belarus
766	(22.9)	666	(20.0)	580	(17.6)	357	(10.9)	-20.2		Bosnia and Herzegovina
2 597	(64.8)	2 316	(57.9)	2 169	(54.3)	1 671	(41.9)	-13.3		Georgia
234	(2.8)	292	(3.5)	217	(2.5)	158	(1.8)	-12.3	-11.5	Israel
12 449	(68.9)	12 832	(70.0)	12 501	(67.4)	9 603	(51.1)	-7.2		Kazakhstan
6 687	(108.0)	6 338	(100.5)	6 138	(95.7)	4 241	(65.0)	-13.4	-5.5	Kyrgyzstan
-	-	1	(2.6)	-	-	0	(0.0)	-100.0	-	Monaco
75	(12.0)	84	(13.4)	80	(12.7)	40	(6.4)	-17.7		Montenegro
216	(10.4)	217	(10.4)	199	(9.6)	143	(6.9)	-14.2	-9.1	North Macedonia
3 358	(82.7)	3 022	(74.6)	2 809	(69.5)	1 767	(43.8)	-16.0		Republic of Moldova
84 510	(58.1)	78 258	(53.7)	73 328	(50.3)	58 723	(40.2)	-10.8	-7.2	Russian Federation
0	(0.0)	0	(0.0)	0	(0.0)	-	-	-	0.0	San Marino
1 450	(16.4)	1 3 3 0	(15.1)	1 106	(12.6)	439	(5.0)	-25.9		Serbia
738	10.5	641	9.1	501	7.2	-	-	-	-	Serbia excluding Kosovo
712	39.9	689	38.5	605	33.8	439	(23.4)	-12.7	-7.8	Kosovo ¹
529	(6.3)	473	(5.5)	402	(4.7)	351	(4.1)	-12.2		Switzerland
5 895	(66.4)	5 726	(62.9)	5 755	(61.7)	4 148	(43.5)	-10.9		Tajikistan
11 821	(14.6)	11 576	(14.1)	11 247	(13.5)	8 830	(10.5)	-9.0		Turkey
1968	(34.2)	2 157	(36.9)	2 117	(35.6)	1 918	(31.8)	-3.4		Turkmenistan
27 229	(61.2)	26 512	(59.9)	25 379	(57.7)	17 533	(40.1)	-11.4		Ukraine
5 248	(7.9)	4 775	(7.1)	4 803	(7.1)	4 185	(40.1)	-8.4		United Kingdom
5 240 16 842	(7.9) (52.7)	4 / /5 16 413	(7.1)	4 003 16 272	(49.3)	4 105	(36.2)	-8.2		Uzbekistan
10 042 191 231	(32.7) (40.4)	10 413 181 561	(38.1)	10 2/2 173 170	(49.3) (36.1)	12 111 132 051	(30.2) (27.4)	-0.2 -10.7		Subtotal non-EU/EEA
	(40.4)	101 201	(30.1)	1/21/0	(30.1)	132 031	(21.4)	-10./	-1.1	Sustotat non"EU/EEA
239 243	(25.9)	227 161	(24.5)	216 348	(23.3)	163 602	(17.5)	-10.7	_7 5	Total European Region

		2016			2017			2018			2019			2020	
Country/area	N	Percentage among all TB	Rate per 100 000	N	Percentage among all TB	Rate per 100000	N	Percentage among all TB	Rate per 100 000	N	Percentage among all TB	Rate per 100 000	N	Percentage among all TB	Rate per 100000
EU/EEA															
Austria	30	(4.7)	2.4	21	(3.7)	1.7	28	(5.8)	2.2	22	(4.6)	1.7	12	(3.1)	0.9
Belgium	59	(5.7)	3.1	68	(7.0)	3.5	60	(6.1)	3.1	50	(5.2)	2.6	48	(5.8)	2.5
Bulgaria	126	(7.9)	12.6	108	(7.4)	10.8	72	(5.3)	7.2	59	(4.4)	5.9	24	(2.6)	2.4
Croatia	5	(1.1)	0.8	3	(0.8)	0.5	8	(2.2)	1.3	1	(0.3)	0.2	2	(1.1)	0.3
Cyprus	0	(0.0)	0.0	3	(5.7)	2.2	1	(1.9)	0.7	2	(2.9)	1.4	0	(0.0)	0.0
Czechia	10	(1.9)	0.6	6	(1.2)	0.4	5	(1.1)	0.3	4	(0.9)	0.2	2	(0.5)	0.1
Denmark	18	(5.5)	1.9	12	(4.4)	1.2	11	(3.8)	1.1	16	(5.7)	1.7	10	(4.6)	1.0
Estonia	4	(2.1)	1.9	0	(0.0)	0.0	2	(1.4)	0.9	1	(0.7)	0.5	1	(0.8)	0.5
Finland	6	(2.6)	0.7	6	(2.4)	0.7	2	(0.9)	0.2	9	(4.0)	1.0	5	(2.9)	0.6
France	1153	(20.1)	9.4	343	(6.8)	2.8	244	(4.8)	2.0	226	(4.4)	1.9	196	(4.3)	1.6
Germany	226	(3.8)	2.1	242	(4.4)	2.2	213	(3.9)	1.9	195	(4.1)	1.7	163	(3.9)	1.4
Greece	21	(4.8)	1.3	11	(2.4)	0.7	6	(1.4)	0.4	17	(3.7)	1.1	17	(4.3)	1.1
Hungary	6	(0.8)	0.4	6	(0.9)	0.4	3	(0.5)	0.2	10	(1.8)	0.7	5	(1.2)	0.4
Iceland	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	2	(16.7)	2.9
Ireland	17	(5.4)	1.7	6	(2.0)	0.6	7	(2.3)	0.7	10	(3.8)	1.0	6	(2.5)	0.6
Italy	158	(3.9)	1.9	168	(4.3)	2.1	164	(4.2)	2.0	180	(5.4)	2.3	104	(4.5)	1.3
Latvia	23	(3.5)	7.7	10	(1.8)	3.3	-	-	-	-	-	-	-	-	-
Liechtenstein	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0				0	(0.0)	0.0
Lithuania	47	(3.3)	11.1	44	(3.2)	10.4	19	(1.7)	4.5	27	(2.6)	6.4	13	(1.8)	3.1
Luxembourg	1	(3.4)	1.1	1	(3.1)	1.0	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0
Malta	0	(0.0)	0.0	0	(0.0)	0.0	1	(1.8)	1.5	2	(2.0)	3.0	7	(5.0)	10.1
Netherlands	49	(5.5)	1.8	34	(4.3)	1.2	21	(2.6)	0.8	48	(6.4)	1.8	19	(3.0)	0.7
Norway	13	(4.4)	1.4	17	(6.5)	1.8	7	(3.4)	0.7	4	(2.5)	0.4	11	(6.9)	1.2
Poland	103	(1.6)	1.8	68	(1.2)	1.2	52 50	(0.9)	0.9	81	(1.5)	1.4	39	(1.2)	0.7
Portugal	36	(1.9)	2.5	45	(2.4)	3.1		(2.6)	3.5	71	(3.7)	5.0	43	(3.0)	3.1
<i>Romania</i> Slovakia	596	(4.4)	19.4	533	(4.1)	17.4	542	(4.4)	17.7	390	(3.4)	12.8	262	(3.4)	8.6
	61 3	(20.6)	7.3	46	(18.5)	5.5	40	(14.2)	4.7	35	(16.4)	4.1	35 0	(22.2) (0.0)	4.1
Slovenia	321	(2.5) (6.3)	1.0 4.6	2 347	(1.8) (6.1)	0.6 5.0	302	(1.0) (6.3)	0.3 4.3	2 319	(2.0) (7.0)	0.6 4.6	188	(6.2)	0.0
Spain Sweden	521	(8.1)	3.4	26	(5.0)	1.5	31	(6.4)	4.5	19	(4.0)	4.0	100	(4.9)	0.9
Subtotal EU/EEA	3 150	(5.8)	5.4 4.6	20 2 176	(3.0) (4.3)	3.2	1892	(0.4)	2.8	1800	(4.0)	2.6	1230	(4.9)	1.8
Non-EU/EEA	5 150	(5.6)	4.0	21/0	(4.3)	3.2	1072	(4.0)	2.0	1000	(4.0)	2.0	1230	(3.1)	1.0
Albania	13	(3.1)	2.4	14	(2.8)	2.7	4	(0.9)	0.8	11	(2.7)	2.2	3	(1.3)	0.6
Andorra	0	(0.0)	0.0	0	(0.0)	0.0	4	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0
Armenia	21	(2.0)	3.5	20	(2.4)	3.3	37	(5.0)	6.1	38	(6.1)	6.2	23	(5.8)	3.7
Azerbaijan	175	(3.4)	7.8	166	(3.2)	7.2	200	(4.0)	8.6	179	(3.7)	7.6	2J 91	(2.5)	3.8
Belarus	13	(0.4)	0.8	13	(0.5)	0.8	12	(0.5)	0.8	8	(0.4)	0.5	4	(0.3)	0.2
Bosnia and Herzegovina	10	(1.1)	2.0	11	(1.4)	2.2	5	(0.8)	1.0	3	(0.5)	0.6	1	(0.3)	0.2
Georgia	123	(4.1)	15.9	94	(3.6)	12.0	77	(3.3)	9.7	72	(3.3)	9.0	48	(2.9)	6.0
Israel	13	(5.2)	0.6	16	(6.8)	0.7	16	(5.5)	0.7	7	(3.2)	0.3	40	(2.5)	0.2
Kazakhstan	326	(2.6)	6.7	404	(3.2)	8.0	362	(2.8)	6.9	351	(2.8)	6.6	303	(3.2)	5.5
Kyrgyzstan	407	(5.8)	21.0	436	(6.5)	21.9	310	(4.9)	15.2	305	(5.0)	14.6	180	(4.2)	8.5
Monaco	407	(0.0)	0.0	0	(3.5)	-	0	(4.7)	-	0	().0)	-	0	(4.2)	-
Montenegro	0	(0.0)	0.0	0	(0.0)	0.0	2	(2.4)	1.7	1	(1.3)	0.9	0	(0.0)	0.0
North Macedonia	25	(9.5)	7.2	10	(4.6)	2.9	12	(5.5)	3.5	12	(6.0)	3.5	10	(7.0)	2.9
Republic of Moldova	103	(2.9)	16.0	123	(3.7)	19.2	95	(3.1)	14.8	101	(3.6)	15.7	56	(3.2)	8.7
Russian Federation	2 876	(3.1)	11.4	2 494	(3.0)	9.7	2 169	(2.8)	8.3	2 028	(2.8)	7.7	1 627	(2.8)	6.1
San Marino	0	(31.)	-	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0
Serbia	17	(1.2)	1.2	22	(1.5)	1.6	29	(2.1)	2.1	15	(1.3)	1.1	11	(2.5)	0.8
Serbia excluding Kosovo ¹	0	(0.0)	0.0	7	(0.9)	0.7	6	(0.9)	0.6	4	(0.7)	0.4	-	-	-
Kosovo1	17	(2.4)	3.7	15	(2.1)	3.3	23	(3.3)	5.2	11	(1.8)	2.5	11	(2.5)	2.5
Switzerland	30	(5.2)	2.4	23	(4.3)	1.8	26	(5.5)	2.0	15	(3.7)	1.2	16	(4.6)	1.2
Tajikistan	389	(6.5)	12.4	353	(6.0)	10.9	346	(6.0)	10.3	404	(7.0)	11.7	240	(5.8)	6.8
Turkey	628	(5.2)	3.1	551	(4.7)	2.7	599	(5.2)	3.0	496	(4.4)	2.4	391	(4.4)	1.9
Turkmenistan	5	(0.2)	0.3	39	(2.0)	2.2	37	(1.7)	2.1	44	(2.1)	2.4	50	(2.6)	2.7
Ukraine	571	(2.0)	8.3	611	(2.2)	8.8	580	(2.2)	8.3	585	(2.3)	8.3	382	(2.2)	5.5
United Kingdom	224	(3.9)	1.9	195	(3.7)	1.7	159	(3.3)	1.3	182	(3.8)	1.5	153	(3.7)	1.3
Uzbekistan	2 010	(12.5)	22.5	1 989	(11.8)	21.8	2 029	(12.4)	21.8	2 190	(13.5)	23.1	1733	(14.3)	18.0
Subtotal non-EU/EEA	7 980	(3.9)	8.2	7 584	(4.0)	7.7	7 106	(3.9)	7.1	7 047	(4.1)	7.0	5 326	(4.0)	5.3
Total European Region	11 130	(4.4)	6.7	9 760	(4.1)	5.9	8 998	(4.0)	5.4	8 847	(4.1)	5.3	6 556	(4.0)	3.9
Subtotal 18 HPCs	8 443	(4.0)	10.1	7 988	(4.0)	9.4	7 488	(4.0)	8.7	7 278	(4.1)		5 428	(4.0)	6.2

Table IV. TB cases in children under 15 years, European Region, 2016–2020ª

Note: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. HPCs: high-priority countries. ^a For non-EU/EEA countries, new and relapse cases are included; for EU/EEA countries, all TB cases under 15 years of age are included. ¹All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

		2016			2017			2018			2019			2020		Mean
Country/area	N	%	Rate per 100 000	N	%	Rate per 100 000	N	%	Rate per 100 000	N	%	Rate per 100 000	N	%	Rate per 100 000	annual % change in rate, 2016– 2020
EU/EEA																2020
Austria	8	(3.0)	0.1	11	(4.2)	0.1	10	(4.8)	0.1	2	(1.0)	0.0	1	(0.6)	0.0	-40.9
Belgium	6	(1.4)	0.1	2	(0.5)	0.0	5	(1.2)	0.0	9	(2.1)	0.1	3	(0.9)	0.0	-16.3
Bulgaria	7	(1.2)	0.1	14	(2.7)	0.2	12	(2.5)	0.2	7	(1.7)	0.1	8	(3.9)	0.1	4.1
Croatia	0	(0.0)	0.0	0	(0.0)	0.0	1	(0.4)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	-
Cyprus	0	(0.0)	0.0	1	(3.0)	0.1	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	-
Czechia	4	(1.3)	0.0	3	(1.0)	0.0	10	(3.6)	0.1	8	(2.6)	0.1	8	(3.6)	0.1	18.5
Denmark ^c	4	(2.2)	0.1	1	(0.6)	0.0	4	(2.5)	0.1	3	(1.8)	0.1	1	(0.8)	0.0	-29.6
Estonia	18	(13.5)	1.4	26	(21.7)	2.0	22	(21.6)	1.7	17	(17.0)	1.3	16	(18.0)	1.2	-3.1
Finland	2	(1.6)	0.0	4	(2.9)	0.1	4	(3.1)	0.1	2	(1.6)	0.0	0	(0.0)	0.0	-100.0
France	33	(1.4)	0.0	48	(1.8)	0.1	46	(1.7)	0.1	20	(100.0)	0.0	20	(100.0)	0.0	-12.0
Germany	56	(2.6)	0.1	57	(2.6)	0.1	62	(2.8)	0.1	39	(2.0)	0.0	33	(2.1)	0.0	-12.6
Greece	3	(3.1)	0.0	6	(4.0)	0.1	5	(4.3)	0.0	6	(3.4)	0.1	5	(2.0)	0.0	13.8
Hungary	12	(4.0)	0.1	9	(3.1)	0.1	8	(2.6)	0.1	8	(3.3)	0.1	6	(3.8)	0.1	-15.8
Iceland	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	0	-	0.0	-
Ireland	4	(3.1)	0.1	2	(1.9)	0.0	4	(4.2)	0.1	1	(1.1)	0.0	0	(0.0)	0.0	-100.0
Italy	24	(3.1)	0.0	60	(3.1)	0.1	37	(2.1)	0.1	41	(2.4)	0.1	33	(3.4)	0.1	8.7
Latvia	32	(7.6)	1.6	29	(8.0)	1.5	-	-	-	-		-	-		-	-
Liechtenstein	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	-	-	-	0	(0.0)	0.0	-
Lithuania	126	(14.3)	4.4	118	(13.8)	4.1	96	(12.8)	3.4	100	(13.8)	3.6	61	(12.6)	2.2	-15.9
Luxembourg	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	-
Malta	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	-
Netherlands	6	(1.8)	0.0	6	(1.7)	0.0	3	(0.9)	0.0	7	(2.3)	0.0	4	(1.6)	0.0	-10.2
Norway	8	(5.4)	0.2	6	(4.4)	0.1	6	(6.1)	0.1	, 1	(1.2)	0.0	2	(2.6)	0.0	-29.8
Poland	31	(0.8)	0.2	37	(1.1)	0.1	37	(1.2)	0.1	32	(1.2)	0.0	29	(1.4)	0.0	-1.6
Portugal	14	(1.6)	0.1	11	(1.2)	0.1	6	(0.7)	0.1	9	(1.0)	0.1	4	(0.9)	0.0	-26.8
Romania	178	(2.9)	0.9	152	(2.5)	0.8	166	(2.8)	0.8	159	(1.2)	0.8	85	(0.9)	0.0	-16.4
Slovakia	2	(2.2)	0.0	4	(4.1)	0.0	1	(0.9)	0.0	1	(1.3)	0.0	0	(0.0)	0.0	-100.0
Slovenia	0	(0.0)	0.0	4	(1.2)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	1	(1.8)	0.0	
Spain	7	(2.2)	0.0	19	(2.2)	0.0	14	(0.0)	0.0	17	(0.0)	0.0	11	(1.8)	0.0	11.4
Sweden	12	(3.3)	0.0	8	(3.2)	0.0	5	(1.7)	0.0	5	(1.7)	0.0	4	(1.0)	0.0	-24.9
Subtotal EU/EEA	597	(2.8)	0.1	635	(2.8)	0.1	564	(1.0)	0.0	494	(2.1)	0.0	335	(2.4)	0.0	-13.5
Non-EU/EEA	571	(2.0)	0.1	033	(2.0)	0.1	504	(2.0)	0.1	-77	(2.17)	0.1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(2.0)	0.1	-13.5
Albania	2	(5.3)	0.1	2	(2.9)	0.1	3	(5.1)	0.1	2	(7.7)	0.1	1	(0.8)	0.0	-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	0.0
Armenia	61	(17.1)	2.1	51	(15.9)	1.7	51	(20.4)	1.7	38	(16.3)	1.3	28	(14.1)	0.9	-17.9
Azerbaijan	219	(17.1)	2.1	245	(12.4)	2.5	237	(12.0)	2.4	219	(10.5)	2.2	149	(14.1)	1.5	-10.1
Belarus	677	(38.0)	7.2	649	(38.4)	6.9	559	(36.6)	5.9	561	(37.7)	5.9	401	(39.5)	4.2	-12.3
Bosnia and Herzegovina	0//	(0.0)	0.0	049	(0.0)	0.9	2	(0.5)	0.1	1	(0.3)	0.0	401	(0.0)	4.2	0.0
Georgia	172	(10.8)	4.3	163	(11.3)	4.1	160	(12.2)	4.0	165	(12.1)	4.1	114	(10.7)	2.9	-9.6
Israel	9	(10.8)	4.5 0.1	7	(11.3)	0.1		(12.2)		9	(12.1)	0.1		(10.7)	0.1	
Kazakhstan	1 869	(7.4)	10.5	1406	(36.7)	7.8	15 1 706	(9.7)	0.2 9.3	1 534	(8.6)	8.3	5 1 758	(36.2)	9.4	-15.1 -2.8
	597	(27.3)	9.8	584		7.8 9.4	663	(27.1)		700		0.5 10.9	493			
Kyrgyzstan	597	(27.3)	9.8	584	(25.6)	9.4		(28. <i>9)</i>	10.5	700	(29.5)	10.9	493	(28.3)	7.6	-6.4 0.0
Monaco Montenegro	0	(0.0)	0.0	-	(0.0)	0.0	0 0	(0.0)	0.0	- 0	(0.0)	-	0	(0.0)	-	0.0
U	2					0.0	0		0.0	1		0.0			0.0	
North Macedonia		(1.3)	0.1	0	(0.0)			(0.0)			(0.8)	0.0	1 210	(1.2)		-15.9
Republic of Moldova	387	(25.7)	9.5	399	(27.6)	9.8	402	(28.8)	9.9	441	(32.9)	10.9	218	(26.0)	5.4	-13.2
Russian Federation	8 4 6 3	(27.3)	5.8	9 312	(32.0)	6.4	9 654	(34.5)	6.6	9 246	(35.3)	6.3	7 657	(36.3)	5.2	-2.6
San Marino	0	(4 1)	-	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	-	-	-	-
Serbia	5	(1.4)	0.1	1	(0.3)	0.0	2	(0.7)	0.0	2	(0.9)	0.0				-
Serbia excluding Kosovo ¹ Kosovo ¹	5	(1.4)	0.1	1	(0.3)	0.0	2	(0.7)	0.0	2	(0.9)	0.0	-	-	-	-
Switzerland	13	(4.6)	0.2	7	(2.6)	0.1	3	(1.1)	0.0	5	(2.6)	0.1	4	(2.3)	0.0	-26.1
Tajikistan	576	(22.5)	6.6	490	(20.1)	5.5	696	(28.0)	7.6	672	(29.0)	7.2	408	(24.2)	4.3	-10.4
Turkey	148	(2.9)	0.2	162	(3.3)	0.2	163	(3.5)	0.2	113	(2.4)	0.1	94	(2.5)	0.1	-11.9
Turkmenistan	-	(2+7)	-	-	().)/	-	-	-	-	-	(2)	-	-	(2.))	-	
Ukraine	3 687	(26.6)	8.2	3 388	(27.9)	7.6	3 587	(29.0)	8.1	3 438	(27.2)	7.8	2 515	(28.6)	5.8	-8.6
United Kingdom ^c	3 8	(20.0)	0.2	28	(27.9)	0.0	24	(1.2)	0.0	27	(27.2)	7.0	2 515	(20.0)	0.0	-5.5
			2.4	657	(1.4)	2.1	735	(1.2)	2.3	615	(1.4)	1.9	721	(18.3)	2.2	-5.5
IIzhekistan	757							(13.Z)	2.3	010	(11.7)	1.7	121	(10.)	2.2	
Uzbekistan Subtotal non-FII/FFA	757 17 682	(100.0)								17 790		2.9	14 509	(27.9)	2.1	_1.9
Uzbekistan Subtotal non-EU/EEA Total European Region	757 17 682 18 279	(100.0) (25.7) (20.6)	3.8 2.0	17 551 18 186	(25.3)	3.8	18 662 19 226	(26.4)	4.0	17 789 18 283	(26.0) (21.3)	3.8 2.0	14 598 14 933	(27.8) (23.1)	3.1 1.6	-4.8 -4.9

Table V. RR/MDR-TB^a notification among new bacteriologically confirmed^b pulmonary TB cases with available DST results, European Region, 2016–2020

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 DST or resistance prediction. DST: drug-susceptibility testing. HPCs: high-priority countries. RR/MDR-TB: rifampicin-resistant or multidrug-resistant tuberculosis. TESSy: the European Surveillance System. Includes cases that are RR/MDR but that also meet the pre-XDR or XDR case definitions (pre-XDR and XDR cases have not been excluded). Bacteriologically confirmed cases – cases with positive identification for *Mycobacterium tuberculosis* complex confirmed by culture and/or line probe assay for non-EU/EEA countries, culture-positive OR microscopy-positive and nucleic acid amplification test-positive cases for EU/EEA countries. 'Previous TB history is defined as previous diagnosis. 'All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

Country/area N S Early Decision N S			2016			2017			2018			2019			2020		Mean
Byper A Byper A 	Country/area	N	%	per	N	%	per	N	%	per	N	%	per	N	%	per	change in rate, 2016–
Belgiani 15 68.0 0.0 1 17 0.0 1 0.00 0.0 <td>EU/EEA</td> <td></td>	EU/EEA																
julgaria is (iii) (iiii) (iii) (iiii) (iiii) (iiii) (iiii) (iiii) (iiiii)	Austria	3	(17.6)	0.0	3	(20.0)	0.0	3	(21.4)	0.0	1	(8.3)	0.0	1	(20.0)	0.0	-24.4
Casila 0 0.0 <td>Belgium</td> <td>3</td> <td>(8.6)</td> <td>0.0</td> <td>2</td> <td>(5.1)</td> <td>0.0</td> <td>1</td> <td>(2.9)</td> <td>0.0</td> <td>4</td> <td>(10.0)</td> <td>0.0</td> <td>0</td> <td>(0.0)</td> <td>0.0</td> <td>-100.0</td>	Belgium	3	(8.6)	0.0	2	(5.1)	0.0	1	(2.9)	0.0	4	(10.0)	0.0	0	(0.0)	0.0	-100.0
Cyrus 0 0.00 0	Bulgaria	15	(18.5)	0.2	15	(18.1)	0.2	16	(22.2)	0.2	7	(14.0)	0.1	4	(11.1)	0.1	-27.6
Cacha 2 16.7 0.0 16.0 0.0 </td <td>Croatia</td> <td>0</td> <td>(0.0)</td> <td>0.0</td> <td>0</td> <td>(0.0)</td> <td>0.0</td> <td>1</td> <td>(6.3)</td> <td>0.0</td> <td>1</td> <td>(7.7)</td> <td>0.0</td> <td>1</td> <td>(16.7)</td> <td>0.0</td> <td>-</td>	Croatia	0	(0.0)	0.0	0	(0.0)	0.0	1	(6.3)	0.0	1	(7.7)	0.0	1	(16.7)	0.0	-
Demark 0 0.00	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	-
stand 7 (5.3) 6.3 7 (5.5) 0.8 70 0.70 0.0 </td <td>Czechia</td> <td>2</td> <td>(16.7)</td> <td>0.0</td> <td>3</td> <td>(18.8)</td> <td>0.0</td> <td>0</td> <td>(0.0)</td> <td>0.0</td> <td>0</td> <td>(0.0)</td> <td>0.0</td> <td>3</td> <td>(30.0)</td> <td>0.0</td> <td>10.3</td>	Czechia	2	(16.7)	0.0	3	(18.8)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	3	(30.0)	0.0	10.3
Fieland 10 0.00 <t< td=""><td>Denmark</td><td>0</td><td>(0.0)</td><td>0.0</td><td>0</td><td>(0.0)</td><td>0.0</td><td>0</td><td>(0.0)</td><td>0.0</td><td>0</td><td>(0.0)</td><td>0.0</td><td>1</td><td>(14.3)</td><td>0.0</td><td>-</td></t<>	Denmark	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	1	(14.3)	0.0	-
France [18] (6.8) (0.0) 33 (1.9) (0.0) 23 (1.2) (0.0) 0.0 23 (1.0) (0.0) 0.0 0.0 0.0 11 (0.0) 0.0 0.0 Greece (2.0) (0.	Estonia	7	(53.8)	0.5	11	(52.4)	0.8	10	(55.6)	0.8	10	(47.6)	0.8	3	(30.0)	0.2	-19.3
Germany 18 (12.8) 0.0 25 (2.8) 0.0 23 (17.1) 0.0 15 (15.9) 0.0 15 (17.1) 0.0 -7.11 Hungary 8 (21.6) 0.0	Finland	0	(0.0)	0.0	2	(66.7)	0.0	0	(0.0)	0.0	1	(25.0)	0.0	0	(0.0)	0.0	-
Greec 12 0200 0.0 1 0.00 0.0 1 0.57 0.00 1 0.73 0.00 1 0.73 0.00 1 0.73 0.00 1 0.73 0.70 0.73 0.73 0.70 0.73 0.74 0.73 0.70 0.73 0.74 0.73 0.70 0.73 0.74 0.73 0.74 0.73 0.74 0.73 0.74 0.73 0.74 0.73 0.74 0.73 0.74 0.73 0.74 0.73 0.74 0.73 0.74 0.73 0.74 0.73 0.74 0.74 0.73 0.74 0.74 0.73 0.74 0.74 0.73 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74 <t< td=""><td>France</td><td>18</td><td>(6.8)</td><td>0.0</td><td>33</td><td>(13.9)</td><td>0.0</td><td>36</td><td>(14.8)</td><td>0.1</td><td>18</td><td>(100.0)</td><td>0.0</td><td>11</td><td>(100.0)</td><td>0.0</td><td>-11.8</td></t<>	France	18	(6.8)	0.0	33	(13.9)	0.0	36	(14.8)	0.1	18	(100.0)	0.0	11	(100.0)	0.0	-11.8
Hungary 8 21.40 0.1 4 (1.8) 0.0 5 (1.7) 0.0 5 (2.7) 0.0	Germany	18	(12.8)	0.0	25	(20.8)	0.0	23	(17.2)	0.0	18	(15.0)	0.0	5	(5.3)	0.0	-27.6
ical and 0 0.00 <t< td=""><td>Greece</td><td>2</td><td>(20.0)</td><td>0.0</td><td>1</td><td>(5.9)</td><td>0.0</td><td>0</td><td>(0.0)</td><td>0.0</td><td>1</td><td>(5.9)</td><td>0.0</td><td>1</td><td>(7.1)</td><td>0.0</td><td>-15.8</td></t<>	Greece	2	(20.0)	0.0	1	(5.9)	0.0	0	(0.0)	0.0	1	(5.9)	0.0	1	(7.1)	0.0	-15.8
lecland 0 0.00 <th< td=""><td>Hungary</td><td>8</td><td>(21.6)</td><td>0.1</td><td>4</td><td>(14.8)</td><td>0.0</td><td>5</td><td>(14.7)</td><td>0.1</td><td>5</td><td>(22.7)</td><td>0.1</td><td>5</td><td>(23.8)</td><td>0.1</td><td>-10.9</td></th<>	Hungary	8	(21.6)	0.1	4	(14.8)	0.0	5	(14.7)	0.1	5	(22.7)	0.1	5	(23.8)	0.1	-10.9
irelands 2 (ir.) 0.0 0 0.0 0.0 0.0 1 11.1 0.0 </td <td></td> <td></td> <td></td> <td>0.0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.0</td> <td></td> <td></td> <td>0.0</td> <td>-</td>				0.0									0.0			0.0	-
Lariya 12 (23) 1.1 18 (0.0) 0.0 0 0.0 </td <td>Ireland^c</td> <td>2</td> <td></td> <td>0.0</td> <td>0</td> <td></td> <td>0.0</td> <td>0</td> <td>(0.0)</td> <td>0.0</td> <td>1</td> <td></td> <td>0.0</td> <td>0</td> <td>(0.0)</td> <td>0.0</td> <td>-100.0</td>	Ireland ^c	2		0.0	0		0.0	0	(0.0)	0.0	1		0.0	0	(0.0)	0.0	-100.0
Lativa 12 72 73 74 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>4</td><td></td><td></td><td></td><td></td><td></td><td>-9.3</td></th<>											4						-9.3
Liechtenstein 0 <									_	-	-		-	-	-	-	-
Lithuanin 127 (4) a.6 (4,4) (5,4) (5,1) 92 (4) a.3 770 (8) a.9 2.5 4.8 (3) a.1 5 -33 Lusenbourg 0 (0,0) 0.0 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>(0,0)</td><td>0.0</td><td>-</td><td>-</td><td>-</td><td>0</td><td>(0,0)</td><td>0.0</td><td>-</td></t<>									(0,0)	0.0	-	-	-	0	(0,0)	0.0	-
Lucemborg 0 0.0																	-23.1
Maila 0 0.0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>20.1</td>																	20.1
Netherlands 5 (3.8.) 0.0 1 (7.1) 0.0 0.0 0.0 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td></th<>																	-
Norway* 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1 13.3 0.0 0 0.0 -13. Poland 20 (4.3) 0.0 1 (1.3) 0.0 11 (3.3) 0.0 13.3 0.0 13.3 0.0 13.3 0.0 14 (1.3) 0.0 11 (1.3) 0.0 13.3 0.0 13.3 0.0 13.3 0.0 13.3 0.0 13.3 0.0 14 19.3 0.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 13.3 0.0 -24.3 Subclat LI/EA 656 (4.3) 0.0 12 17.0 13.4 10.0 10.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>_100.0</td>																	_100.0
Palari 20 (A) 0.1 15 (B, B) 0.0 18 (A) 0.0 12 (B, D) 0.0 11 (B, D) 0.0 13 (B, D) 0.0 13 (B, D) 0.0 13 (D, D) 0.0 0.0 <		-															-100.0
Portugal 3 (4,3) 0.0 2 (2,9) 0.0 2 (3,9) 0.0 5 (7,7) 0.0 3 (0,7) 0.0 3 (0,7) 0.0 3 (0,7) 0.0 3 (0,7) 0.0 2 (3,3) 0.0 4 (1,0) 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0	,																12.0
Romania 365 (fi.6) 1.8 2.91 (fi.5) 1.5 2.70 (fi.4) 1.1 219 (fi.4) 0.0 -16. Slovekia 1 6.6 0.0 2 (7.7) 0.0 2 (13.3) 0.0 4 (19.0) 0.0 1 1 (19.0) 0.0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>																	
Slovakia 1 (5.6) 0.0 2 (7.7) 0.0 2 (13.3) 0.0 4 (19.0) 0.1 1 (9.1) 0.0 0 0.0 Slovenia 0 0.0	•																
Slovenia 0 0.0 <t< td=""><td></td><td>305</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>		305															
Spain 4 (0.8) 0.0 13 (2.3) 0.0 4 (9.3) 0.0 1 (1.7) 0.0 1 (3.3) 0.0 -29.4 Sweden 3 (5.8) 0.0 2 (9.5) 0.0 2 (8.2) 0.0 0 (0.0) 0.0 1 (1.0) 0.0 2.4 Non-EU/EEA 0.1 0.0 <		1															-0.1
Sweden 3 (15.8) 0.0 2 (9.5) 0.0 2 (18.2) 0.0 0.																	-
Subtolat EU/EEA 636 (14,5) 6.1 601 (14,8) 0.1 497 (15.0) 0.1 380 (13.4) 0.1 260 (12.8) 0.1 -20. Non-EU/EEA (100.0) 0.0																	
Non-EU/EEA C C C C																	
Albania 2 (100.0) 0.1 1 2 0.0 0.1 1 2 0.0 0.1 1.0 3 (2.1) 0.0 1.0 1.0 Andorra 0 0.00 0.0 0.00 <		636	(14.5)	0.1	601	(14.8)	0.1	497	(15.0)	0.1	380	(13.4)	0.1	260	(12.8)	0.1	-20.1
Andorra 0 0.0 <th< td=""><td></td><td></td><td>(100.0)</td><td>0.4</td><td></td><td>(22.2)</td><td>0.4</td><td></td><td>(05.0)</td><td></td><td></td><td></td><td>0.4</td><td></td><td>(22.4)</td><td>0.4</td><td>10.0</td></th<>			(100.0)	0.4		(22.2)	0.4		(05.0)				0.4		(22.4)	0.4	10.0
Armenia 67 (64,4) 2.3 48 (44,4) 1.6 34 (41,5) 1.2 27 (40,9) 0.9 24 (50,0) 0.8 -22.4 Azerbaijan 706 (39,5) 7.3 762 (28.3) 7.7 701 (25.6) 7.0 533 (24.4) 5.3 552 (24.4) 5.4 -6.5 Belarus 050ia 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 0 0 0.0 0 0 0.0 <																	
Azerbaijan 706 (39,5) 7.3 762 (28,3) 7.7 701 (25,6) 7.0 533 (24,4) 5.3 552 (24,4) 5.4 -6.4 Belrus 569 (71,7) 6.0 468 (66,9) 5.0 425 (69,4) 4.5 313 (59,8) 3.3 424 (74,5) 4.5 -7.7 Bosnia and Herzegovina 0 (0.0) 0.0 (0.0) 0.0 0 0.0 <																	
Belarus 569 (71,7) 6.0 468 (66,9) 5.0 425 (69,4) 4.5 313 (59,8) 3.3 424 (74,5) 4.5 Bosnia and Herzegovina 0 (0.0) 0.0 0 0.0 0 0.0																	
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 0 (0.0) 0.0 0 (0.0) 0.0 0 (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 192 (30.8) 4.8 161 (30.0) 4.0 137 (30.9) 3.4 139 (32.1) 3.5 77 (26.5) 1.9 -20.3 Israel 0 (0.0) 0.0 1 (50.0) 0.0 0 0.0 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-7.1</td></t<>																	-7.1
Israel 0 (0.0) 0.0 1 (50.0) 0.0 0 0.0 0 0.0 0																	-
Kazakhstan 1 050 (5.9) 5.9 1 557 (60.3) 8.6 2 337 (64.3) 12.8 1 446 (44.5) 7.8 1 101 (49.7) 5.9 -0. Kyrgyzstan 619 (60.2) 10.2 6666 (60.9) 10.8 850 (68.3) 13.5 603 (60.1) 9.4 377 (54.0) 5.8 -13 Monaco 0 - - - 0 - - 0 - - 0 - - 0 - - 0	-				161												-20.3
Kyrgyzstan 619 (60.2) 10.2 666 (60.9) 10.8 850 (68.3) 11.5 603 (60.1) 9.4 377 (54.0) 5.8 -13 Monaco 0 0 0 0 0 0 0 0.0																	-
Monaco 0 - - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - - 0 - <td>Kazakhstan</td> <td></td> <td></td> <td></td> <td>1 557</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>7.8</td> <td></td> <td></td> <td></td> <td>-0.1</td>	Kazakhstan				1 557								7.8				-0.1
Montenegro 0 (0.0) 0.0 1 (11.1) 0.2 1 (33.3) 0.2 0 (0.0) 0.0 0.0 0.0 North Macedonia 0 (0.0) 0.0 0.0 (0.0) 0.0 <td>Kyrgyzstan</td> <td>619</td> <td>(60.2)</td> <td>10.2</td> <td>666</td> <td>(60.9)</td> <td>10.8</td> <td>850</td> <td>(68.3)</td> <td>13.5</td> <td>603</td> <td>(60.1)</td> <td>9.4</td> <td>377</td> <td>(54.0)</td> <td>5.8</td> <td>-13.2</td>	Kyrgyzstan	619	(60.2)	10.2	666	(60.9)	10.8	850	(68.3)	13.5	603	(60.1)	9.4	377	(54.0)	5.8	-13.2
North Macedonia 0 (0.0) 0.0 0 (0.0) 0.0 0 (0.0) 0.0 0.0 1 (10.0) 0.0 0.0 Republic of Moldova 295 (55.7) 7.3 280 (55.0) 6.9 359 (59.6) 8.9 118 (34.2) 2.9 195 (53.1) 4.8 -9.7 Russian Federation 17508 (65.2) 12.1 16567 (66.8) 11.4 17011 (70.6) 11.7 17199 (70.8) 11.8 14306 (68.4) 9.8 -5.0 San Marino 0 - - 0 - 0.0 0 0 0.0	Monaco	0	-	-	-	-	-	0	-	-	0	-	-	-	-	-	-
Republic of Moldova 295 (55.7) 7.3 280 (55.0) 6.9 359 (59.6) 8.9 118 (34.2) 2.9 195 (53.1) 4.8 -9.3 Russian Federation 17508 (65.2) 12.1 16567 (66.8) 11.4 17011 (70.6) 11.7 17199 (70.8) 11.8 14306 (68.4) 9.8 -5.0 San Marino 0 - - 0 - 0.0 0 - 0.0 0 - 0.0 0.0 0 0.0 0.0 0.0 0 0.0	Montenegro	0	(0.0)	0.0	1	(11.1)	0.2	1	(33.3)	0.2	0	(0.0)	0.0	0	(0.0)	0.0	-
Russian Federation 17 508 (65.2) 12.1 16 567 (66.8) 11.4 17 011 (70.6) 11.7 17 199 (70.8) 11.8 14 306 (68.4) 9.8 -5.0 San Marino 0 - - 0 - 0.0 0 - 0.0 0 - 0.0 0 - 0.0 0 - 0.0 0 - 0.0 0 - 0.0 0 - 0.0 0 - 0.0 0 0 - 0.0 0 0 - 0.0 0 0 - 0.0 0	North Macedonia	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	1	(10.0)	0.0	-
Russian Federation 17 508 (65.2) 12.1 16 567 (66.8) 11.4 17 011 (70.6) 11.7 17 199 (70.8) 11.8 14 306 (68.4) 9.8 -5.0 San Marino 0 - - 0 - 0.0 0 - 0.0 0 - 0.0 0 - 0.0 0 - 0.0 0 - 0.0 0 - 0.0 0 - 0.0 0 - 0.0 0 0 - 0.0 0 0 - 0.0 0 0 - 0.0 0	Republic of Moldova	295	(55.7)	7.3	280	(55.0)	6.9	359	(59.6)	8.9	118	(34.2)	2.9	195	(53.1)	4.8	-9.7
San Marino 0 - - 0 - 0.0 0 - 0.0 0 - 0.0 0 - 0.0 <				12.1	16 567		11.4	17 011					11.8	14 306			-5.0
Serbia 5 (12.5) 0.1 4 (13.3) 0.0 1 (3.7) 0.0 0 (0.0) 0.0 -	San Marino																0.0
Serbia excluding Kosovo ¹ 3 (7.5) 0.0 4 (13.3) 0.0 1 (3.7) 0.0 0 0.0 0 0.0 <th0< td=""><td></td><td></td><td>(12.5)</td><td>0.1</td><td></td><td>(13.3)</td><td></td><td></td><td>(3.7)</td><td></td><td></td><td>(0.0)</td><td></td><td></td><td>-</td><td>-</td><td>-</td></th0<>			(12.5)	0.1		(13.3)			(3.7)			(0.0)			-	-	-
Kosovo ¹ 2 (6.3) 0.1 0 (0.0) 0.0 0 (0.0) 0.0 0 (0.0) 0.0 0		-												-	-	-	-
Switzerland 1 (7.1) 0.0 2 (22.2) 0.0 1 (6.7) 0.0 4 (16.7) 0.0 0 0.0 0.0 0.0 100.0 Tajikistan 172 (44.9) 2.0 153 (23.5) 1.7 208 (37.8) 2.3 206 (40.4) 2.2 147 (43.2) 1.5 -6. Turkey 92 (15.7) 0.1 777 (14.1) 0.1 53 (11.9) 0.1 37 (9.7) 0.0 33 (11.1) 0.0 -23. Turkmenistan -	U											(0.0)		-	-		-
Tajikistan 172 (44.9) 2.0 153 (23.5) 1.7 208 (37.8) 2.3 206 (40.4) 2.2 147 (43.2) 1.5 -6. Turkey 92 (15.7) 0.1 77 (14.1) 0.1 53 (11.9) 0.1 37 (9.7) 0.0 33 (11.1) 0.0 -23. Turkmenistan -												(16.7)		0	(0.0)	0.0	-100.0
Turkey 92 (15.7) 0.1 77 (14.1) 0.1 53 (11.9) 0.1 37 (9.7) 0.0 33 (11.1) 0.0 -23 Turkmenistan - <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-6.1</td></th<>																	-6.1
Turkmenistan - <t< td=""><td>,</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-23.7</td></t<>	,																-23.7
Ukraine 3 654 (47.0) 8.2 3 113 (47.9) 7.0 2 888 (46.4) 6.5 2 498 (42.9) 5.7 1 662 (41.3) 3.8 -17.4 United Kingdom ⁴ 8 (5.4) 0.0 6 (4.7) 0.0 8 (5.3) 0.0 4 (3.3) 0.0 4 (5.3) 0.0 -16.4 Uzbekistan 1199 (97.6) 3.8 1200 (57.5) 3.8 687 (34.1) 2.1 467 (21.8) 1.4 679 (38.4) 2.0 -14.4 Subtotal non-EU/EEA 26139 (59.5) 5.6 25 668 (54.5) 5.4 25 702 (59.9) 5.5 23 596 (57.3) 5.0 19 585 (57.7) 4.2 -7.7 Total European Region 26 775 (55.4) 2.9 25 669 (54.5) 3.0 26 199 (56.7) 2.8 23 976 (54.5) 2.6 19 845 (55.2) 2.2 -7.7																	25.7
United Kingdom ⁴ 8 (5.4) 0.0 6 (4.7) 0.0 8 (5.3) 0.0 4 (3.3) 0.0 4 (5.3) 0.0 -16.4 Uzbekistan 1199 (97.6) 3.8 1200 (57.5) 3.8 687 (34.1) 2.1 467 (21.8) 1.4 679 (38.4) 2.0 -14.0 Subtotal non-EU/EEA 26139 (59.5) 5.6 25 68.2 5.4 25 702 (59.9) 5.5 23 596 (57.3) 5.0 19 585 (57.7) 4.2 -7.7 Total European Region 26 775 (55.4) 2.9 25 669 (54.5) 3.0 26 199 (56.7) 2.8 23 976 (54.5) 2.6 19 845 (55.2) 2.2 -7.3																	. 17 4
Uzbekistan 1199 (97.6) 3.8 1200 (57.5) 3.8 687 (34.1) 2.1 467 (21.8) 1.4 679 (38.4) 2.0 -14.0 Subtotal non-EU/EEA 26139 (59.5) 5.6 25 068 (58.2) 5.4 25 702 (59.9) 5.5 23 596 (57.3) 5.0 19 585 (57.7) 4.2 -7.7 Total European Region 26 775 (55.4) 2.9 25 669 (54.5) 3.0 26 199 (56.7) 2.8 23 976 (54.5) 2.6 19 845 (55.2) 2.2 -7.3																	
Subtotal non-EU/EEA 26 139 (59.5) 5.6 $\frac{25}{068}$ (58.2) 5.4 25 702 (59.9) 5.5 23 596 (57.3) 5.0 19 585 (57.7) 4.2 -7. Total European Region 26 775 (55.4) 2.9 25 669 (54.5) 3.0 26 199 (56.7) 2.8 23 976 (54.5) 2.6 19 845 (55.2) 2.2 -7.3	0																
Subtrat non-Editer 26 159 (55.3) 5.6 068 (56.2) 5.4 25 192 (55.9) 5.3 25 356 (57.5) 5.6 19 565 (57.7) 4.2 -7. Total European Region 26 775 (55.4) 2.9 25 669 (54.5) 3.0 26 199 (56.7) 2.8 23 976 (54.5) 2.6 19 845 (55.2) 2.2 -7.:																	
					068												-7.1
		1															-7.3

Table VI. RR/MDR-TB^a notification among previously treated bacteriologically confirmed^b pulmonary TB cases with available DST results, European Region, 2016-2020

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 DST or resistance prediction. DST: drug, susceptibility testing.
HPCs: high-priority countries.
RR/MDR.TB: rifampicin-resistant or multidrug-resistant tuberculosis.
TESSy: the European Surveillance System.
*Includes cases that are RR/MDR but that also meet the pre-XDR or XDR case definitions (pre-XDR and XDR cases have not been excluded).
*Bacteriologically contrined as previous diagnosis.
-*Includes cases for EU/EEA countries.
CPrevious TB history is defined as previous diagnosis.
*All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

		2016			2017			2018			2019			2020		Mean
Country	N	%	Rate per 100 000	N	%	Rate per 100 000	N	%	Rate per 100 000	N	%	Rate per 100 000	N	%	Rate per 100 000	annual % change in rate 2016– 2020
EU/EEA																
Austria	17	(3.6)	0.2	19	(4.5)	0.2	18	(5.2)	0.2	6	(1.8)	0.1	2	(0.7)	0.0	-41.8
Belgium	12	(1.6)	0.1	8	(1.1)	0.1	9	(1.3)	0.1	17	(2.4)	0.1	17	(2.8)	0.1	8.6
Bulgaria	22	(3.3)	0.3	29	(4.8)	0.4	28	(5.1)	0.4	14	(3.1)	0.2	10	(4.1)	0.1	-17.3
Croatia	0	(0.0)	0.0	0	(0.0)	0.0	2	(0.7)	0.0	2	(0.8)	0.0	1	(0.8)	0.0	-
Cyprus	1	(2.4)	0.1	1	(2.6)	0.1	0	(0.0)	0.0	1	(1.9)	0.1	0	(0.0)	0.0	-100.0
Czechia	7	(1.9)	0.1	8	(2.3)	0.1	12	(3.7)	0.1	8	(2.4)	0.1	11	(4.3)	0.1	11.6
Denmark	5	(2.0)	0.1	2	(0.9)	0.0	4	(1.8)	0.1	4	(1.8)	0.1	2	(1.1)	0.0	-20.9
Estonia	26	(17.1)	2.0	37	(26.1)	2.8	32	(26.2)	2.4	27	(21.3)	2.0	19	(18.1)	1.4	-7.8
Finland	6	(3.3)	0.1	6	(3.1)	0.1	4	(2.2)	0.1	3	(1.7)	0.1	1	(0.7)	0.0	-36.2
France	51	(1.9)	0.1	81	(2.8)	0.1	82	(2.7)	0.1	75	(100.0)	0.1	67	(100.0)	0.1	6.8
Germany	116	(2.9)	0.1	134	(3.4)	0.2	130	(3.3)	0.2	100	(2.9)	0.1	91	(3.2)	0.1	-6.2
Greece	5	(4.2)	0.0	9	(4.7)	0.1	6	(3.9)	0.1	7	(3.1)	0.1	12	(3.4)	0.1	24.7
Hungary	20	(5.9)	0.2	13	(4.1)	0.1	13	(3.9)	0.1	13	(5.0)	0.1	11	(6.2)	0.1	-13.7
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	7	(3.0)	0.1	6	(3.0)	0.1	7	(3.4)	0.1	6	(3.4)	0.1	1	(1.0)	0.0	-39.3
Italy	33	(3.8)	0.1	73	(3.7)	0.1	49	(2.7)	0.1	45	(2.6)	0.1	39	(3.3)	0.1	4.7
Latvia	56	(10.4)	2.8	48	(11.1)	2.5	-	-	-	-	-	-	-	-	-	-
Liechtenstein	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	-	-	-	0	(0.0)	0.0	-
Lithuania	255	(21.2)	8.8	264	(23.0)	9.3	189	(19.1)	6.7	173	(18.5)	6.2	105	(16.5)	3.8	-19.2
Luxembourg	1	(4.0)	0.2	1	(4.3)	0.2	1	(2.9)	0.2	1	(3.1)	0.2	0	(0.0)	0.0	-100.0
Malta	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	2	(5.0)	0.4	-
Netherlands	15	(2.7)	0.1	10	(1.9)	0.1	6	(1.1)	0.0	9	(1.9)	0.1	12	(3.0)	0.1	-6.0
Norway	11	(4.8)	0.2	9	(4.2)	0.2	6	(3.6)	0.1	2	(1.5)	0.0	2	(1.5)	0.0	-35.2
Poland	52	(1.2)	0.1	52	(1.4)	0.1	58	(1.5)	0.2	45	(1.2)	0.1	42	(1.7)	0.1	-5.2
Portugal	19	(1.7)	0.2	13	(1.2)	0.1	11	(1.0)	0.1	15	(1.7)	0.1	9	(1.7)	0.1	-16.9
Romania	550	(6.4)	2.8	454	(5.5)	2.3	442	(5.5)	2.3	381	(4.9)	2.0	252	(5.1)	1.3	-17.3
Slovakia	3	(2.7)	0.1	7	(5.2)	0.1	3	(2.1)	0.1	5	(4.4)	0.1	1	(1.5)	0.0	-24.1
Slovenia	0	(0.0)	0.0	1	(0.9)	0.0	0	(0.0)	0.0	0	(0.0)	0.0	1	(1.4)	0.0	-
Spain	15	(1.4)	0.0	35	(2.0)	0.1	23	(2.1)	0.0	19	(1.4)	0.0	15	(1.8)	0.0	-0.5
Sweden	25	(4.2)	0.3	12	(2.8)	0.1	13	(3.2)	0.1	10	(2.5)	0.1	6	(2.3)	0.1	-30.8
Total EU/EEA	1 3 3 0	(4.5)	0.3	1 332	(4.4)	0.3	1 148	(4.0)	0.3	988	(4.0)	0.2	731	(4.3)	0.2	-13.9

Table VII. RR/MDR-TB^a notification among all bacteriologically confirmed^b TB cases with available DST results EU/EEA 2016-2020

Note: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 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 DST or resistance prediction. DST: drug-susceptibility testing. RR/MDR-TB: rifampicin-resistant or multidrug-resistant tuberculosis. TESSy: the European Surveillance System. * Includes cases that are RR/MDR but that also meet the pre-XDR or XDR case definitions (pre-XDR and XDR cases have not been excluded). b Culture-positive OR microscopy-positive and nucleic acid amplification test-positive cases.

		2016			2017			2018			2019			2020	
Country/area	RR/MDR-TB cases tested for FQL (N)	Pre-XDR-TB cases (N)	Percentage among cases tested for FQL	RR/MDR-TB cases tested for FQL (N)	Pre-XDR-TB cases (N)	Percentage among cases tested for FQL	RR/MDR-TB cases tested for FQL (N)	Pre-XDR-TB cases (N)	Percentage among cases tested for FQL	RR/MDR-TB cases tested for FQL (N)	Pre-XDR-TB cases (N)	Percentage among cases tested for FQL	RR/MDR-TB cases tested for FQL (N)	Pre-XDR-TB cases (N)	Percentage among cases tested for FQL
EU/EEA															
Austria	15	4	(26.7)	16	4	(25.0)	15	4	(26.7)	3	2	(66.7)	2	0	(0.0)
Belgium	9	0	(0.0)	3	0	(0.0)	7	5	(71.4)	11	2	(18.2)	5	1	(20.0)
Bulgaria	22	3	(13.6)	27	4	(14.8)	28	5	(17.9)	14	4	(28.6)	10	2	(20.0)
Croatia	0	-	-	0	-	-	1	0	(0.0)	1	1	(100.0)	0	-	-
Cyprus	0	-	-	1	1	(100.0)	0	-	-	1	0	(0.0)	0	-	-
Czechia	5	0	(0.0)	6	2	(33.3)	10	1	(10.0)	2	0	(0.0)	7	4	(57.1)
Denmark	4	0	(0.0)	1	0	(0.0)	4	0	(0.0)	3	0	(0.0)	2	0	(0.0)
Estonia	25	7	(28.0)	35	11	(31.4)	32	10	(31.3)	25	5	(20.0)	19	6	(31.6)
Finland	3	1	(33.3)	6	1	(16.7)	4	1	(25.0)	2	0	(0.0)	0	-	-
France	46	12	(26.1)	57	14	(24.6)	61	16	(26.2)	60	15	(25.0)	41	8	(19.5)
Germany	72	23	(31.9)	85	14	(16.5)	87	26	(29.9)	59	15	(25.4)	51	10	(19.6)
Greece	0	-	-	6	1	(16.7)	6	1	(16.7)	4	0	(0.0)	3	0	(0.0)
Hungary	17	10	(58.8)	12	5	(41.7)	12	6	(50.0)	13	6	(46.2)	10	0	(0.0)
Iceland	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-
Ireland	6	2	(33.3)	5	1	(20.0)	5	0	(0.0)	3	0	(0.0)	0	-	-
Italy	22	13	(59.1)	28	11	(39.3)	17	14	(82.4)	34	12	(35.3)	34	8	(23.5)
Latvia	53	22	(41.5)	47	18	(38.3)	-	-	-	-	-	-	-	-	-
Liechtenstein	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-
Lithuania	253	88	(34.8)	263	108	(41.1)	188	76	(40.4)	159	75	(47.2)	104	34	(32.7)
Luxembourg	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-
Malta	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-
Netherlands	9	0	(0.0)	6	0	(0.0)	3	1	(33.3)	7	2	(28.6)	4	0	(0.0)
Norway	8	0	(0.0)	6	1	(16.7)	6	1	(16.7)	2	1	(50.0)	2	0	(0.0)
Poland	38	13	(34.2)	36	11	(30.6)	41	18	(43.9)	31	7	(22.6)	14	12	(85.7)
Portugal	12	3	(25.0)	8	2	(25.0)	1	0	(0.0)	5	0	(0.0)	3	0	(0.0)
Romania	238	95	(39.9)	225	76	(33.8)	265	70	(26.4)	147	51	(34.7)	96	27	(28.1)
Slovakia	3	1	(33.3)	5	2	(40.0)	2	1	(50.0)	5	0	(0.0)	1	0	(0.0)
Slovenia	0	-	-	1	0	(0.0)	0	-	(22.2)	0	-	-	1	0	(0.0)
Spain	5	2	(40.0)	9	1	(11.1)	10	2	(20.0)	5	0	(0.0)	3	1	(33.3)
Sweden	14	5	(35.7)	10	0	(0.0) (31.9)	7	0	(0.0)	6	0	(0.0)	5	2	(40.0)
Subtotal EU/EEA Non-EU/EEA	879	304	(34.6)	904	288	(31.9)	812	258	(31.8)	602	198	(32.9)	417	115	(27.6)
Albania	-		-	0	0		-		-	-	-	-	-		
Andorra	0	-	-	0	0	-	0	-	-	0	-	-	_	-	_
Armenia	57	- 12	(21.1)	98	20	(20.4)	85	- 18	(21.2)	63	- 19	(30.2)	52	- 11	(21.2)
Azerbaijan	535	209	(39.1)	90 812	20	(20.4)	864	148	(21.2)	63 704	153	(21.7)	52 576	87	(21.2)
Belarus	674	209	(32.3)	1 117	464	(41.5)	984	272	(17.1)	874	277	(31.7)	825	354	(42.9)
Bosnia and Herzegovina	0/4	210	(52.5)	-	404	(41.5)	704	2/2	(27.0)	- 074	2//	(31.7)	- 025	- 554	(42.7)
Georgia	315	106	(33.7)	266	93	(35.0)	211	75	(35.5)	242	65	(26.9)	173	50	(28.9)
Israel	9	3	(33.3)	8	1	(12.5)	15	3	(20.0)	242	1	(11.1)	5	1	(20.0)
Kazakhstan	-	-	()),)	2 187	278	(12.7)	3 577	349	(9.8)	2 460	635	(25.8)	2 848	399	(14.0)
Kyrgyzstan	407	114	(28.0)	659	220	(33.4)	666	117	(17.6)	909	97	(10.7)	869	149	(17.1)
Monaco	-	-	(20.0)	-	-	(55.4)	-	-	-	-	-	-	-	-	-
Montenegro	0	-	-	1	1	(100.0)	1	0	(0.0)	0	-	-	0	-	-
North Macedonia	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-
Republic of Moldova	603	108	(17.9)	533	89	(16.7)	658	157	(23.9)	559	121	(21.6)	413	188	(45.5)
Russian Federation	0	-	-	22 528	5 672	(25.2)	23 919	7 737	(32.3)	25 331	9 077	(35.8)	20 449	7 822	(38.3)
San Marino	0	-	-	0	-	-	0	-	-	0	-	-		-	-
Serbia	-	-	-	0	-		-	-	-	-	-	-	-	-	-
Serbia excluding Kosovo ¹	-	-	-	0	-	-	-	-	-	-	-	-	-	-	-
Kosovo ¹	-	-	-	0	-	-	-	-	-	-	-	-	-	-	-
Switzerland	13	1	(7.7)	-	-	-	4	1	(25.0)	9	0	(0.0)	4	2	(50.0)
Tajikistan	644	331	(51.4)	464	55	(11.9)	583	197	(33.8)	362	16	(4.4)	512	121	(23.6)
Turkey	156	23	(14.7)	121	9	(7.4)	142	16	(11.3)	90	22	(24.4)	99	14	(14.1)
Turkmenistan	-	-	-	-	-	-	-	-	-	-	-	-	0	-	-
Ukraine	10 141	3 464	(34.2)	6 501	1965	(30.2)	6 475	2 498	(38.6)	5 936	890	(15.0)	4 177	1 120	(26.8)
United Kingdom	44	8	(18.2)	31	10	(32.3)	25	6	(24.0)	29	5	(17.2)	32	8	(25.0)
Uzbekistan	1 802	211	(11.7)	540	51	(9.4)	1 422	11	(0.8)	466	209	(44.8)	1 400	378	(27.0)
Subtotal non-EU/EEA	15 400	4 808	(31.2)	35 866	9 136	(25.5)	39 631	11 605	(29.3)	38 043	11 587	(30.5)	32 434	10 704	(33.0)
,															
Total European Region	16 279	5 112	(31.4)	36 770	9 4 2 4	(25.6)	40 443	11 863	(29.3)	38 645	11 785	(30.5)	32 851	10 819	(32.9)

Table VIII. Pre-XDR-TB notification among pulmonary RR/MDR-TB^a cases with DST results to fluoroquinolones, European Region, 2016–2020^b

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. FQL: fluroquinolones. HPCs: high-priority countries. RR/MDR-TB: rifampicin-resistant or multidrug-resistant tuberculosis. XDR-TB: extensively drug-resistant tuberculosis. *Includes cases that are RR/MDR but that also meet the pre-XDR or XDR case definitions (pre-XDR and XDR cases have not been excluded). *Includes colly 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). *All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

	2 (N)	Cases with HIV sta		HIV po	sitive	2 (N)	Cases wit HIV st		HIV po	sitive	(N)	Cases wit HIV s		HIV po	sitive
Country/area	All TB cases (N)	N	%	N	% ^b	All TB cases (N)	N	«««»	N	% ^b	All TB cases (N)	N	%	N	% ^b
EU/EEA	A					×					×				
lustria	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Belgium	1042	477	(45.8)	33	(6.9)	967	514	(53.2)	43	(8.4)	977	502	(51.4)	35	(7.0)
Bulgaria	1 6 0 3	1260	(78.6)	0	(0.0)	1 463	1 204	(82.3)	3	(0.2)	1 358	1 118	(82.3)	0	(0.0)
Croatia	464	4	(0.9)	0	(0.0)	378	3	(0.8)	0	(0.2)	372	2	(02.5)	0	(0.0)
Cyprus	60	48	(80.0)	0	(0.0)	53	49	(92.5)	0	(0.0)	52	41	(78.8)	1	(2.4)
Izechia	516	205	(30.0)	5	(0.0)	501	195	(38.9)	8	(0.0)	443	190	(42.9)	4	(2.4)
Denmark	330	150	(45.5)	9	(6.0)	275	211	(76.7)	3	(1.4)	291	234	(80.4)	3	(1.3)
Estonia	192	185	(96.4)	22	(0.0)	176	164	(93.2)	14	(8.5)	147	137	(93.2)	13	(9.5)
Finland	-	-	(90.4)	- 22	(11.3)	-	-	(95.2)	-	(0.)	- 14/	-	(95.2)	-	(9.)
rance	-	-	-	-	-	-	-	_	-	-	-	-	-	-	_
Germany	_	-	_	_	_	_	_	_	-	-	-	-	_	-	_
Greece	440	296	(67.3)	8	(2.7)	467	389	(83.3)	13	(3.3)	432	362	(83.8)	11	(3.0)
	786	19	(07.3)	1	(5.3)	685	18	(2.6)	1	(5.6)	640	23	(3.6)	3	(13.0)
lungary celand	6	6	(100.0)	0	(0.0)	14	18	(92.9)	0	(0.0)	640	23	(100.0)	5	(13.0)
reland	315	139	(100.0)	4	(0.0)	300		(52.0)		(0.0)	310	160	(100.0)	13	(12.5)
	515	139	(44.1)	4	(2.9)	300	156	(32.0)	14	(9.0)	510	160	(51.6)	- 13	(8.1)
taly .atvia	660	507	(76.8)	57	(11.2)	552	471	(85.3)	52	(11.0)	-	-	-	-	_
	660	507	(/0.8)	57	(11.2)	552	4/1	(85.3)	52	(11.0)	-	-	_	-	_
iechtenstein ithuania	1 / / 2		(78.9)	4.4	(3.6)	1 207	1 125	(81.1)		(3.7)			(83.5)		(3.4)
.ithuania	1 4 4 2 2 9	1 138 5	(78.9)	41 2	(3.6)	1 <i>3</i> 87 32	1 125 3	(81.1)	42	(3.7)	1 142 42	954 7	(83.5)	32 0	(3.4)
uxembourg											42	-	(16.7)	-	(0.0)
Malta Jothoriondo	50	46	(92.0)	8	(17.4)	42	37	(88.1)	0	(0.0)					
Vetherlands	887	646	(72.8)	20	(3.1)	783	602	(76.9)	23	(3.8)	795	624	(78.5)	21	(3.4)
lorway	295	255	(86.4)	10	(3.9)	261	228	(87.4)	7	(3.1)	208	184	(88.5)	7	(3.8)
Poland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	(0, 5)
Portugal	1936	1697	(87.7)	183	(10.8)	1 914	1744	(91.1)	149	(8.5)	1936	1698	(87.7)	161	(9.5)
Romania	13 601	10 844	(79.7)	305	(2.8)	12 997	10 890	(83.8)	232	(2.1)	12 199	10 355	(84.9)	255	(2.5)
Slovakia	296	132	(44.6)	0	(0.0)	249	227	(91.2)	0	(0.0)	281	238	(84.7)	2	(0.8)
Slovenia	118	95	(80.5)	1	(1.1)	112	80	(71.4)	0	(0.0)	99	80	(80.8)	0	(0.0)
Spain	5 070	3 021	(59.6)	243	(8.0)	5 6 6 0	2 845	(50.3)	266	(9.3)	4 766	76	(1.6)	35	(46.1)
Sweden	-	-	(=0.0)	-	-	-	-	(====)	-	-	-	-	-	-	(0 =)
Subtotal EU/EEA	30 138	21 175	(70.3)	952	(4.5)	29 268	21 168	(72.3)	871	(4.1)	26 498	16 993	(64.1)	597	(3.5)
lon-EU/EEA Ilbania	415	223	(53.7)	6	(2.7)	503	235	(46.7)	4	(1.7)	440	215	(48.9)	6	(2.8)
Andorra	415	0	(0.0)	6	(2.7)	505		(40.7)	4	(0.0)	2	215	(48.9)	0	(2.0)
				57	(5.6)		0		0			699			(10.3)
Armenia	1 027	1 027	(100.0)	57 99		841	838	(99.6)	66	(7.9)	734		(95.2)	72	
lzerbaijan Poloruo	5 159	4 722	(91.5)		(2.1)	5 231	5 889	(112.6)	95	(1.6)	5 038	6 4 8 3	(128.7)	87	(1.3)
Belarus	3 211	3 148	(98.0)	275	(8.7)	2 781	2 781	(100.0)	202	(7.3)	2 359	2 359	(100.0)	182	(7.7)
Bosnia and Herzegovina	907	1	(0.1)	1	(100.0)	-	2 (/ 2	(0 (0)	-	(1 0)	-	-	(02.0)	-	(2.4)
Georgia	2 983	2 866	(96.1)	61	(2.1)	2 597	2 4 4 2	(94.0)	43	(1.8)	2 316	2 174	(93.9)	45	(2.1)
srael	250	250	(100.0)	18	(7.2)	234	234	(100.0)	12	(5.1)	292	292	(100.0)	12	(4.1)
Kazakhstan Kurauzatan	12 322	10 616	(86.2)	576	(5.4)	12 449	11 056	(88.8)	443	(4.0)	12 832	12 236	(95.4)	717	(5.9)
Kyrgyzstan Annor	7 026	6 254	(89.0)	210	(3.4)	6 687	5966	(89.2)	216	(3.6)	6 338	5 771	(91.1)	187	(3.2)
Aonaco Aonaco	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aontenegro	87	60	(69.0)	0	(0.0)	75	63	(84.0)	0	(0.0)	84	43	(51.2)	0	(0.0)
North Macedonia	263	207	(78.7)	0	(0.0)	216	178	(82.4)	0	(0.0)	217	126	(58.1)	3	(2.4)
Republic of Moldova	3 571	3 366	(94.3)	293	(8.7)	3 358	3 352	(99.8)	277	(8.3)	3 022	2 893	(95.7)	248	(8.6)
Russian Federation	92 407	79 935	(86.5)	16 570	(20.7)	84 510	81 443	(96.4)	15 695	(19.3)	78 258	74 075	(94.7)	14797	(20.0)
San Marino	0	-	-	-	-	0	-	-	-	-	0	-	-	-	
Serbia	755	84	(11.1)	5	(6.0)	1 450	71	(4.9)	8	(11.3)	641	56	(8.7)	8	(14.3)
Serbia excluding Kosovo ¹	755	84	(11.1)	5	(6.0)	738	91	(12.3)	8	(8.8)	641	56	(8.7)	8	(14.3)
Kosovo	-	-	-	-	-	712	0	(0.0)	-	-	-	-	-	-	-
witzerland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tajikistan	5 965	5 850	(98.1)	201	(3.4)	5 895	5 937	(100.7)	219	(3.7)	5 726	5 5 4 5	(96.8)	227	(4.1)
urkey	12 186	8 549	(70.2)	56	(0.7)	11 821	8 423	(71.3)	65	(0.8)	11 576	8 2 3 4	(71.1)	67	(0.8)
Turkmenistan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ikraine	29 052	28 194	(97.0)	5 832	(20.7)	27 229	26 623	(97.8)	5 955	(22.4)	26 512	26 312	(99.2)	6053	(23.0)
Inited Kingdom	-	-	-	-	-	5 248	4 407	(84.0)	128	(2.9)	4 775	4 0 6 0	(85.0)	115	(2.8)
Jzbekistan	16 050	18 441	(114.9)	758	(4.1)	16 842	16 842	(100.0)	935	(5.6)	16 413	16 413	(100.0)	736	(4.5)
Subtotal non-EU/EEA	193 640	173 793	(89.8)	25 018	(14.4)	187 968	176 780	(94.0)	24 363	(13.8)	177 575		(94.6)	23 562	(14.0)
otal European Region	223 778	194 968	(87.1)	25 970	(13.3)	217 236	197 948	(91.1)	25 234	(12.7)	204 073	184 979	(90.6)	24 159	(13.1)
Subtotal 18 HPCs	208 457	186 902	(89.7)	25 413	(13.6)	196 816	185 446	(94.2)	24 554	(13.2)	185 970	175 758	(94.5)	23 718	(13.5)

Table IX. TB cases with HIV infection, European Region, 2016–2020^a

Note: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. HPCs: high-priority countries. "HIV prevalence may be underestimated due to incomplete HIV testing and/or reporting of HIV serostatus. Countries/areas were only included in this analysis 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. '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		HIV po	sitive	s (N)	Cases wit HIV s		HIV po:	sitive	
All TB cases (N)	N	%	N	%⁵	All TB cases (N)	N	%	N	% ^b	Country/area
					<					EU/EEA
_	-	-	-	-	-	-	-	-	-	Austria
963			43	(8.6)			(46.9)			
		(52.1)			830	389		33	(8.5)	
1 344		(82.1)	1	(0.1)	930	781	(84.0)	1	(0.1)	
305		(1.6)	0	(0.0)	183	4	(2.2)	0	(0.0)	
69	43	(62.3)	2	(4.7)	36	30	(83.3)	2	(6.7)	Cyprus
461	270	(58.6)	8	(3.0)	367	201	(54.8)	7	(3.5)	Czechia
281	227	(80.8)	7	(3.1)	219	166	(75.8)	4	(2.4)	Denmark
150	141	(94.0)	16	(11.3)	124	116	(93.5)	13	(11.2)	Estonia
-	-	-	-	-	-	-	-	-	-	Finland
-	-	-	-	-	-	-	-	-	-	France
-	-	-	-	-	-	-	-	-	-	Germany
459		(88.9)	19	(4.7)	396	396	(100.0)	17	(4.3)	Greece
		(5.8)		(9.4)				2		
552			3		406	18	(4.4)		(11.1)	Hungary
13		(84.6)	0	(0.0)	-	-	-	-	-	Iceland
266		(39.8)	10	(9.4)	240	84	(35.0)	3	(3.6)	Ireland
-	-	-	-	-	-	-	-	-	-	Italy
-	-	-	-	-	-	-	-	-	-	Latvia
-	-	-	-	-	-	-	-	-	-	Liechtenstein
1 058	1 0 2 0	(96.4)	27	(2.6)	726	714	(98.3)	20	(2.8)	Lithuania
50		(74.0)	0	(0.0)	34	28	(82.4)	0		Luxembourg
-	-	-	-	-	-	-	-	-	-	Malta
754		(79.0)	21	(3.5)	623	489	(78.5)	14	(2.9)	Netherlands
162		(82.1)	6	(4.5)		122	(76.3)	2		
					160				(1.6)	
-	-	-	-	-	-	-	-	-	-	Poland
1932		(84.9)	153	(9.3)	1445	1087	(75.2)	111	(10.2)	Portugal
11 618		(87. <i>9</i>)	200	(2.0)	7 698	6 513	(84.6)	150	(2.3)	Romania
214	148	(69.2)	4	(2.7)	158	82	(51.9)	2	(2.4)	Slovakia
101	73	(72.3)	1	(1.4)	77	58	(75.3)	0	(0.0)	Slovenia
4 5 4 3	2 597	(57.2)	233	(9.0)	3 0 4 4	1759	(57.8)	173	(9.8)	Spain
-	-	_	-	-	-	-	-	-	-	Sweden
		(76.3)	754	(3.9)	17 696	13 037	(73.7)	554	(4.2)	Subtotal EU/EEA
25 205	10 312	(10.3)		(3.3)	-1 - 7 - 7 - 7	-) -)	(13.11)		(4)	
25 295	19 312		101							Non-Ell/FEA
		(80.3)		(2.2)	240	100	(8.2.0)	2	(1.0)	Non-EU/EEA
412	368	(89.3)	8	(2.2)	240	199	(82.9)	2		Albania
412	368 0	(0.0)	8 0	(0.0)	2	0	(0.0)	0	-	Albania Andorra
412 5 621	368 0 591	(0.0) <i>(95.2)</i>	8 0 62	(0.0) <i>(10.5)</i>	2 <i>39</i> 4	0 369	(0.0) <i>(93.7)</i>	0 39	- (10.6)	Albania Andorra Armenia
412 5 621 4 823	368 0 591 4 534	(0.0) (95.2) (94.0)	8 0 62 71	(0.0) (10.5) (1.6)	2 394 3 683	0 369 3683	(0.0) (93.7) (100.0)	0 39 83	(10.6) (2.3)	Albania Andorra Armenia Azerbaijan
412 5 621	368 0 591 4 534	(0.0) <i>(95.2)</i>	8 0 62	(0.0) <i>(10.5)</i>	2 <i>39</i> 4	0 369	(0.0) <i>(93.7)</i>	0 39	(10.6) (2.3)	Albania Andorra Armenia Azerbaijan Belarus
412 5 621 4 823 2 207	368 0 591 4 534 2 207 -	(0.0) (95.2) (94.0) (100.0) -	8 0 62 71 157 –	(0.0) (10.5) (1.6) (7.1) -	2 394 3 683 1 514 –	0 369 3683 1514 -	(0.0) (93.7) (100.0) (100.0) -	0 39 83 135 -	(10.6) (2.3) (8.9)	Albania Andorra <i>Armenia</i> <i>Azerbaijan</i> <i>Belarus</i> Bosnia and Herzegovina
412 5 621 4 823	368 0 591 4 534 2 207 -	(0.0) (95.2) (94.0)	8 0 62 71 157	(0.0) (10.5) (1.6) (7.1)	2 394 3 683 1 514	0 369 3683 1514	(0.0) (93.7) (100.0)	0 39 83 135	(10.6) (2.3) (8.9)	Albania Andorra Armenia Azerbaijan Belarus
412 5 621 4 823 2 207	368 0 591 4 534 2 207 - 1 841	(0.0) (95.2) (94.0) (100.0) -	8 0 62 71 157 –	(0.0) (10.5) (1.6) (7.1) –	2 394 3 683 1 514 –	0 369 3683 1514 -	(0.0) (93.7) (100.0) (100.0) -	0 39 83 135 -	(10.6) (2.3) (8.9)	Albania Andorra <i>Armenia</i> <i>Azerbaijan</i> <i>Belarus</i> Bosnia and Herzegovina
412 5 621 4 823 2 207 - 2 169	368 0 591 4 534 2 207 - 1 841 217	(0.0) (95.2) (94.0) (100.0) - (84.9)	8 0 62 71 157 – 33	(0.0) (10.5) (1.6) (7.1) – (1.8)	2 394 3 683 1 514 - 1 669	0 369 3683 1514 - 1490	(0.0) (93.7) (100.0) (100.0) - (89.3)	0 39 83 135 - 29	- (10.6) (2.3) (8.9) - (1.9) (9.5)	Albania Andorra Armenia Azerbaijan Belarus Bosnia and Herzegovina Georgia
412 5 621 4 823 2 207 - 2 169 217 12 501	368 0 591 4 534 2 207 - 1 841 217 12 375	(0.0) (95.2) (94.0) (100.0) - (84.9) (100.0) (99.0)	8 0 62 71 157 - 33 8 666	(0.0) (10.5) (1.6) (7.1) - (1.8) (3.7) (5.4)	2 394 3 683 1 514 - 1 669 158 9 603	0 369 3683 1514 - 1490 158 9440	(0.0) (93.7) (100.0) (100.0) - (89.3) (100.0) (98.3)	0 39 83 135 - 29 15 614	(10.6) (2.3) (8.9) (1.9) (9.5) (6.5)	Albania Andorra Armenia Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan
412 5 621 4 823 2 207 - 2 169 217	368 0 591 4 534 2 207 - 1 841 217 12 375	(0.0) (95.2) (94.0) (100.0) - (84.9) (100.0)	8 0 62 71 157 – 33 8	(0.0) (10.5) (1.6) (7.1) - (1.8) (3.7)	2 394 3 683 1 514 - 1 669 158	0 369 3683 1514 - 1490 158	(0.0) (93.7) (100.0) (100.0) - (89.3) (100.0)	0 39 83 135 - 29 15	- (10.6) (2.3) (8.9) - (1.9) (9.5) (6.5) (3.3)	Albania Andorra Armenia Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan
412 5 621 4 823 2 207 - 2 169 217 12 501 6 138	368 0 591 4 534 2 207 - 1 841 217 12 375 5 810 -	(0.0) (95.2) (94.0) (100.0) - (84.9) (100.0) (99.0) (94.7) -	8 0 62 71 157 - 33 8 666 131	(0.0) (10.5) (1.6) (7.1) (1.8) (3.7) (5.4) (2.3)	2 394 3 683 1 514 - 1 669 158 9 603 4 241 -	0 369 3683 1514 - 1490 158 9440 4007 -	(0.0) (93.7) (100.0) (100.0) - (89.3) (100.0) (98.3) (94.5) -	0 39 83 135 - 29 15 614 131 -	- (10.6) (2.3) (8.9) - (1.9) (9.5) (6.5) (3.3) -	Albania Andorra Armenia Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco
412 5 621 4 823 2 207 - 2 169 217 12 501 6 138 - 80	368 0 591 4 534 2 207 - 1 841 217 12 375 5 810 - 76	(0.0) (95.2) (94.0) (100.0) - (84.9) (100.0) (99.0) (99.0) (94.7) - (95.0)	8 0 62 71 157 - 33 8 666 131 - 0	(0.0) (10.5) (1.6) (7.1) (1.8) (3.7) (5.4) (2.3) (2.3) (0.0)	2 394 3 683 1 514 - 1 669 158 9 603 4 241 - 40	0 369 3683 1514 - 1490 158 9440 4007 - 35	(0.0) (93.7) (100.0) (100.0) - (89.3) (100.0) (98.3) (94.5) - (87.5)	0 39 83 135 - 29 15 614 131 - 0	- (10.6) (2.3) (8.9) - (1.9) (9.5) (6.5) (3.3) - (0.0)	Albania Andorra Armenia Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro
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		2015		ļ	2016		ļ	2017			2018			2019	
Country/area	Cases	Succ		Cases	Succ		Cases	Succ		Cases	Succ		Cases	Succ	
	reported	N	(%)	reported	N	(%)	reported	N	(%)	reported	N	(%)	reported	N	(%)
EU/EEA															
Austria	553	404	(73.1)	604	452	(74.8)	543	375	(69.1)	455	334	(73.4)	459	341	(74.3)
Belgium	905	719	(79.4)	973	793	(81.5)	905	718	(79.3)	902	737	(81.7)	877	709	(80.8)
Bulgaria	1 598	1 350	(84.5)	1 510	1 2 9 1	(85.5)	1 386	1 167	(84.2)	1268	1 0 8 5	(85.6)	1 278	1 0 4 5	(81.8)
Croatia	484	275	(56.8)	452	264	(58.4)	372	245	(65.9)	363	107	(29.5)	295	72	(24.4)
Cyprus	63	35	(55.6)	56	37	(66.1)	51	34	(66.7)	51	30	(58.8)	65	18	(27.7)
Czechia	499	343	(68.7)	505	346	(68.5)	489	337	(68.9)	422	290	(68.7)	447	330	(73.8)
Denmark	314	157	(50.0)	288	113	(39.2)	251	99	(39.4)	266	48	(18.0)	259	117	(45.2)
Estonia	172	143	(83.1)	165	132	(80.0)	139	112	(80.6)	115	96	(83.5)	120	91	(75.8)
Finland	261	100	(38.3)	217	69	(31.8)	236	85	(36.0)	222	51	(23.0)	222	85	(38.3)
France	-	-	(2002)	-	-	-		-	-	-	-	(-	-	(=====
Germany	5 5 2 5	3 590	(65.0)	5 635	3 9 2 6	(69.7)	5 253	3 716	(70.7)	5 214	3 7 2 1	(71.4)	4 566	3 130	(68.6)
Greece	-	-	(0)10)	-	-	(0)(1)	-	-	(, 01,)	-	-	(,,		-	(0010)
Hungary	851	600	(70.5)	722	511	(70.8)	639	429	(67.1)	591	388	(65.7)	517	336	(65.0)
Iceland	7	7	(100.0)	6	5	(83.3)	13	429	(92.3)	8	8	(100.0)	13	13	(100.0)
Ireland	265	191	(72.1)	285	168	(58.9)	277	163	(58.8)	284	110	(38.7)	243	9	(3.7)
	205	-	(/ 2.1)	200	100	(50.9)	277	- 201	(20.0)	204	-	(30.7)	245	9	(5.7)
Italy							-	_	-	-	-	-	-	_	
Latvia	642	540	(84.1)	592	505	(85.3)			-						-
Liechtenstein	1 210	0	(0.0)	2	2	(100.0)	1 000	1	(100.0)	-	-	(07.0)	-	-	(071)
Lithuania	1 219	975	(80.0)	1 152	958	(83.2)	1 086	905	(83.3)	926	806	(87.0)	866	754	(87.1)
Luxembourg	-	-	-	-	-	-	-	-	-	-	-	-	47	17	(36.2)
Malta	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Netherlands	838	732	(87.4)	864	758	(87.7)	762	665	(87.3)	774	668	(86.3)	730	630	(86.3)
Norway ^c	277	244	(88.1)	262	226	(86.3)	228	214	(93.9)	182	160	(87.9)	149	126	(84.6)
Poland	6 196	3 293	(53.1)	6 0 9 9	3 300	(54.1)	-	-	-	-	-	-	-	-	-
Portugal	2 130	1 5 5 6	(73.1)	1872	1 316	(70.3)	1 859	1 350	(72.6)	1877	1 3 6 5	(72.7)	1 859	1 3 2 7	(71.4)
Romania	13 908	11 834	(85.1)	12 458	10 729	(86.1)	12 007	10 348	(86.2)	11 271	9 483	(84.1)	10 812	9 051	(83.7)
Slovakia	305	263	(86.2)	279	241	(86.4)	222	204	(91.9)	271	249	(91.9)	209	196	(93.8)
Slovenia	129	105	(81.4)	118	84	(71.2)	111	85	(76.6)	98	77	(78.6)	98	69	(70.4)
Spain	4 798	3 454	(72.0)	3 964	2 6 6 9	(67.3)	4 499	2 7 2 1	(60.5)	4 596	2 0 6 5	(44.9)	4 386	2 0 4 5	(46.6)
Sweden	754	659	(87.4)	669	607	(90.7)	477	413	(86.6)	462	361	(78.1)	468	286	(61.1)
Subtotal EU/EEA	42 694	31 569	(73.9)	39 749	29 502	(74.2)	31 806	24 398	(76.7)	30 618	22 239	(72.6)	28 985	20 797	(71.8)
Non-EU/EEA															
Albania	409	354	(86.6)	409	357	(87.3)	499	435	(87.2)	434	386	(88.9)	412	364	(88.3)
Andorra	4	4	(100.0)	4	3	(75.0)	1	1	(100.0)	2	2	(100.0)	5	3	(60.0)
Armenia	910	721	(79.2)	869	703	(80.9)	710	563	(79.3)	615	497	(80.8)	485	399	(82.3)
Azerbaijan	1 475	1 2 2 1	(82.8)	1464	1 2 2 5	(83.7)	1 777	1 492	(84.0)	1 751	1 471	(84.0)	1 702	1 4 2 9	(84.0)
Belarus	2 525	2 243	(88.8)	2 123	1 894	(89.2)	1 792	1 587	(88.6)	1 418	1 250	(88.2)	1 302	1 153	(88.6)
Bosnia and Herzegovina	1 0 9 2	707	(64.7)	907	505	(55.7)	766	343	(44.8)	666	189	(28.4)	580	185	(31.9)
Georgia	2 841	2 386	(84.0)	2 715	2 263	(83.4)	2 351	1977	(84.1)	2 071	1 735	(83.8)	1 947	1 659	(85.2)
Israel	263	2 500	(82.9)	250	198	(79.2)	225	196	(87.1)	292	227	(77.7)	217	182	(83.9)
Kazakhstan	14 006	12 691	(90.6)	6 775	5 962	(88.0)	8 589	7 826	(91.1)	7 859	7 093	(90.3)	7 429	6 704	(90.2)
Kyrgyzstan	6 139	5 063	(82.5)	6 072	4 968	(81.8)	5 752	4 728	(82.2)	5 333	4 321	(81.0)	5 110	4 155	(81.3)
Monaco			(02.)	2	4 200	(0.0)	-	- 720	(02.2)	1	4 521	(0.0)	5110	- 155	(01.5)
	80	74	(92.5)	87	70	(80.5)	75	65	(96 7)	81	77	(95.1)	82	78	(95.1)
Montenegro									(86.7)						
North Macedonia	282	243	(86.2)	263	232	(88.2)	219	193	(88.1)	214	187	(87.4)	199	177	(88.9)
Republic of Moldova	2 992	2 379	(79.5)	3 048	2 515	(82.5)	2 715	2 187	(80.6)	2 312	1 954	(84.5)	2 215	1 854	(83.7)
Russian Federation	80 424	57 060	(70.9)	73 137	52 335	(71.6)	67 593	46 938	(69.4)	59 850	41 154	(68.8)	54 589	37 208	(68.2)
San Marino	0	-	-	0	-	-	0	-	-	0	-	-	-	-	
Serbia	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)	602	513	(85.2)
Serbia excluding Kosovo ¹	882	733	(83.1)		590	(80.5)	738	616	(83.5)	579	459	(79.3)	-	-	-
Kosovo	765	738	(96.5)	710	601	(84.6)	702	623	(88.7)	686	573	(83.5)	602	513	(85.2)
Switzerland	-	-	-	565	384	(68.0)	518	406	(78.4)	376	309	(82.2)	391	267	(68.3)
Tajikistan	5 298	4 734	(89.4)	5 324	4 751	(89.2)	5 2 5 9	4 789	(91.1)	4 995	4 452	(89.1)	5 114	4 643	(90.8)
Turkey	12 362	10 735	(86.8)	12 017	10 462	(87.1)	11 638	10 014	(86.0)	11 407	9 691	(85.0)	11 095	9 2 3 1	(83.2)
Turkmenistan	1669	1 451	(86.9)	2 068	1738	(84.0)	1968	1 676	(85.2)	2 157	1780	(82.5)	2 117	1 749	(82.6)
Ukraine	23 892	17 939	(75.1)	22 615	17 234	(76.2)	21 165	16 189	(76.5)	20 221	15 607	(77.2)	19 414	15 381	(79.2)
United Kingdom ^c	5 802	4 594	(79.2)	5 675	4 570	(80.5)	5 176	4 216	(81.5)	4 684	3724	(79.5)	4 7 3 9	3 675	(77.5)
Uzbekistan	15 220	13 536	(88.9)	14 743	12 906	(87.5)	15 167	13 554	(89.4)	14 423	13 217	(91.6)	14 224	12 820	(90.1)
Subtotal non-EU/EEA	179 332	139 824	(78.0)		126 466	(77.8)	155 395	120 614	(77.6)	142 427	110 355	(77.5)	133 970	103 829	(77.5)
Total European Region	222 026	171 393	(77.2)		155 968	(77.1)	187 201	145 012	(77.5)	173 045	132 594	(76.6)	162 955	124 626	(76.5)
	V2U	111373	(11-4)	2V2 J27	122 700	(11)	107 201	177 12	(11.3)	112042	126 274	(10.0)	104 733	127 020	((0,0)

Table X. Treatment success after 12 months for new^a and relapse TB cases, European Region, 2015–2019^b

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 outcome are not reported. For inclusion in the cohort, drug-susceptibility data are also required. HPCs: high-priority countries. *For EU/EEA countries, cases with unknown TB history are considered as new cases. *Excluding rifampicin-resistant cases. *Previous TB history is defined as previous diagnosis. *All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

	,	2014			2015			2016			2017			2018	
Country/area	Cases	Succ		Cases	Succ		Cases	Succ		Cases	Succ		Cases	Succ	
	reported	N	(%)	reported	N	(%)	reported	N	(%)	reported	N	(%)	reported	N	(%)
EU/EEA															
Austria	21	13	(61.9)	13	12	(92.3)	17	11	(64.7)	19	10	(52.6)	18	15	(83.3)
Belgium	13	7	(53.8)	16	16	(100.0)	12	10	(83.3)	8	6	(75.0)	9	7	(77.8)
Bulgaria	44	22	(50.0)	28	17	(60.7)	22	12	(54.5)	29	18	(62.1)	28	17	(60.7)
Croatia	1	0	(0.0)	1	1	(100.0)	0	-	-	0	-	-	2	0	(0.0)
Cyprus	0	-	-	0	-	-	-	-	-	-	-	-	0	-	-
Czechia	7	3	(42.9)	9	3	(33.3)	5	2	(40.0)	8	3	(37.5)	12	4	(33.3)
Denmark	2	1	(50.0)	7	0	(0.0)	5	3	(60.0)	2	1	(50.0)	4	0	(0.0)
Estonia	51	32	(62.7)	40	25	(62.5)	25	18	(72.0)	35	28	(80.0)	31	23	(74.2)
Finland	7	2	(28.6)	9	4	(44.4)	6	4	(66.7)	5	2	(40.0)	3	2	(66.7)
France	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Germany	105	35	(33.3)	131	54	(41.2)	121	45	(37.2)	138	75	(54.3)	131	83	(63.4)
Greece	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hungary	4	4	(100.0)	9	2	(22.2)	20	8	(40.0)	13	6	(46.2)	13	6	(46.2)
Iceland	0	-	_	0	-	-	0	_	-	0	-	_	0	-	
Ireland	2	1	(50.0)	1	0	(0.0)	7	5	(71.4)	6	2	(33.3)	8	1	(12.5)
Italy	_	-	-	-	-	-	-	-	-	-	-	-	-	-	
Latvia	71	52	(73.2)	63	39	(61.9)	-	-	-	-	-	-	-	-	-
Liechtenstein	0	-		0	-	-	0	-	-	0	-	-	0	-	-
Lithuania	279	91	(32.6)	248	99	(39.9)	255	110	(43.1)	264	111	(42.0)	189	103	(54.5)
Luxembourg	-	_	(32.0)	-	-	()),))	-	-	(+2.1)	- 204	_	(,2.0)	-	-	()+,)
Malta	_	_	_	_	_	_	-	_	-	_	_	_	-	_	_
Netherlands	7	6	(85.7)	10	6	(60.0)	15	11	(73.3)	10	8	(80.0)	6	5	(83.3)
Norway	11	9	(81.8)	6	6	(100.0)	11	10	(90.9)	9	8	(88.9)	6	5	(83.3)
Poland	49	9	(18.4)	45		(35.6)	-	-	(90.9)	-	0	(00.7)	-	0	(0).)
	28	15	(53.6)	26	16 9	(34.6)	19	- 5	(26.3)	13	10	(76.9)	- 11	7	(63.6)
Portugal	597			589				271		455	183		439	/ 192	
Romania		246	(41.2)	3	259 1	(44.0)	547		(49.5)			(40.2)	439	192	(43.7)
Slovakia	4	2	(50.0)	-		(33.3)	3	0	(0.0)	7	2	(28.6)	-		(66.7)
Slovenia	0	-	-	0	-	-	0	-	-	1	0	(0.0)	0	-	-
Spain	0		-									-			(40.0.0)
Sweden	17	15	(88.2)	26	24	(92.3)	25	23	(92.0)	12	10	(83.3)	14	14	(100.0)
Subtotal EU/EEA	1 320	565	(42.8)	1 280	593	(46.3)	1 115	548	(49.1)	1 0 3 4	483	(46.7)	927	486	(52.4)
Non-EU/EEA				2	2	(40.0.0)	4	4	(400.0)	0				2	(75.0)
Albania	-	-	-	3	3	(100.0)	1	1	(100.0)	0	-	-	4	3	(75.0)
Andorra	0	-	-	0	-	-	0	-	-	0	-	-	0	-	(15.0)
Armenia	118	68	(57.6)	95	40	(42.1)	118	58	(49.2)	104	52	(50.0)	85	39	(45.9)
Azerbaijan	745	441	(59.2)	800	473	(59.1)	798	480	(60.2)	858	509	(59.3)	821	471	(57.4)
Belarus	1 472	872	(59.2)	1 400	899	(64.2)	1 180	796	(67.5)	1 0 6 7	752	(70.5)	919	670	(72.9)
Bosnia and Herzegovina	3	2	(66.7)	1	1	(100.0)	0	-	-	-	-	-	-	-	
Georgia	411	201	(48.9)	412	231	(56.1)	339	222	(65.5)	316	203	(64.2)	230	155	(67.4)
Israel	16	12	(75.0)	10	8	(80.0)	9	6	(66.7)	7	5	(71.4)	14	9	(64.3)
Kazakhstan	6 320	4 813	(76.2)	6 482	5 063	(78.1)	6 260	4 979	(79.5)	5 338	4 340	(81.3)	4 336	3 499	(80.7)
Kyrgyzstan	1 157	650	(56.2)	1 162	624	(53.7)	1 2 3 2	655	(53.2)	1 166	643	(55.1)	1 2 4 4	775	(62.3)
Monaco	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Montenegro	2	0	(0.0)	1	1	(100.0)	0	-	-	0	-	-	1	1	(100.0)
North Macedonia	3	1	(33.3)	5	2	(40.0)	2	1	(50.0)	1	0	(0.0)	2	1	(50.0)
Republic of Moldova	919	457	(49.7)	996	487	(48.9)	979	518	(52.9)	962	537	(55.8)	921	541	(58.7)
Russian Federation	20 089	10 170	(50.6)	22 607	12 117	(53.6)	22 593	12 141	(53.7)	22 901	12 629	(55.1)	28706	14 757	(51.4)
San Marino	0	-	-	0	-	-	0	-	-	0	-	-	-	-	-
Serbia	19	12	(63.2)	10	9	(90.0)	12	9	(75.0)	10	7	(70.0)	-	-	-
Serbia excluding Kosovo ¹	13	7	(53.8)	5	4	(80.0)	10	7	(70.0)	6	4	(66.7)	-	-	-
Kosovo1	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)	9	6	(66.7)
	804	398	(49.5)	682	398	(58.4)	681	440	(64.6)	546	352	(64.5)	727	510	(70.2)
Tajikistan			(63.4)	230	156	(67.8)	211	131	(62.1)	202	139	(68.8)	180	99	(55.0)
	257	163	(0).4/							343	226	(65.9)	549	248	(45.2)
Tajikistan	257 213	163 143	(67.1)	210	142	(67.6)	557	303	(54.4)	545	220	(0).))	547		
Tajikistan Turkey Turkmenistan	213	143	(67.1)	210											(50.5)
Tajikistan Turkey Turkmenistan Ukraine	213 7 174	143 3 297	(67.1) (46.0)	210 7 592	3 855	(50.8)	7 277	3 590	(49.3)	6 685	3 407	(51.0)	5 953	3 006	(50.5) (75.0)
Tajikistan Turkey Turkmenistan Ukraine United Kingdom	213 7 174 53	143 3 297 32	(67.1) (46.0) (60.4)	210 7 592 45	<i>3 855</i> 32	(50.8) (71.1)	<i>7 277</i> 59	<i>3 590</i> 39	(49.3) (66.1)	6 685 56	<i>3 407</i> 35	<i>(51.0)</i> (62.5)	<i>5 953</i> 40	<i>3 006</i> 30	(75.0)
Tajikistan Turkey Turkmenistan Ukraine United Kingdom Uzbekistan	213 7 174 53 3 602	143 3 297 32 2 216	(67.1) (46.0) (60.4) (61.5)	210 7 592 45 2 149	3 855 32 1 259	(50.8) (71.1) (58.6)	7 277 59 1 986	3 590 39 1 140	(49.3) (66.1) (57.4)	6 685 56 2 265	3 407 35 1 372	(51.0) (62.5) (60.6)	5 953 40 2 039	3 006 30 1 375	(75.0) (67.4)
Tajikistan Turkey Turkmenistan Ukraine United Kingdom	213 7 174 53	143 3 297 32	(67.1) (46.0) (60.4)	210 7 592 45	<i>3 855</i> 32	(50.8) (71.1)	<i>7 277</i> 59	<i>3 590</i> 39	(49.3) (66.1)	6 685 56	<i>3 407</i> 35	<i>(51.0)</i> (62.5)	<i>5 953</i> 40	<i>3 006</i> 30	(75.0)

Table XI. Treatment success after 24 months of RR/MDR-TB^a cases started on treatment^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 outcome are not reported. For inclusion in the cohort, drug-susceptibility data are also required. HPCs: high-priority countries. RR/MDR-TB: rifampicin-resistant/multidrug-resistant tuberculosis. *Includes cases that are RR/MDR but that also meet the pre-XDR or XDR case definitions (pre-XDR and XDR cases have not been excluded). *For EU/EEA countries, cases diagnosed postmortem were excluded, and cases with no data on treatment enrolment were assumed to be enrolled in treatment. *All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

		2014			2015			2016			2017			2018	
	cases	Suco	cess	ises	Suc	ess	cases	Succ	cess	cases	Suco	cess	ises	Succ	ess
Country/area	R TB ca			R TB ca			R TB ca			R TB ca			R TB ca		
	Pre-XDR TB ((N)	N	(%)	Pre-XDR TB cases (N)	N	(%)	Pre-XDR TB (N)	N	(%)	Pre-XDR TB ((N)	N	(%)	Pre-XDR TB cases (N)	N	(%)
EU/EEA															
Austria	2	1	(50.0)	2	1	(50.0)	5	4	(80.0)	6	3	(50.0)	5	3	(60.0)
Belgium	3	1	(33.3)	4	4	(100.0)	0	-	-	0	-	-	5	4	(80.0)
Bulgaria	10	4	(40.0)	6	3	(50.0)	3	0	(0.0)	4	2	(50.0)	5	2	(40.0)
Croatia	0	-	-	1	1	(100.0)	0	-	-	0	-	-	0	-	-
Cyprus	0	-	-	0	-	-	-	-	-	-	-	-	0	-	-
Czechia	1	0	(0.0)	5	1	(20.0)	0	-	-	2	1	(50.0)	3	0	(0.0)
Denmark	0	-	-	2	0	(0.0)	0	-	-	0	-	-	0	-	-
Estonia	16	5	(31.3)	14	7	(50.0)	6	3	(50.0)	11	6	(54.5)	10	9	(90.0)
Finland	1	0	(0.0)	1	0	(0.0)	2	1	(50.0)	0	-	-	1	1	(100.0)
France	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Germany	18	6	(33.3)	24	8	(33.3)	24	8	(33.3)	15	7	(46.7)	27	14	(51.9)
Greece	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hungary	1	1	(100.0)	3	1	(33.3)	10	5	(50.0)	5	2	(40.0)	6	1	(16.7)
Iceland	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-
Ireland	0	-	-	0	-	-	2	1	(50.0)	1	1	(100.0)	0	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Latvia	17	12	(70.6)	18	10	(55.6)	-	-	-	-	-	-	-	-	-
Liechtenstein	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-
Lithuania	106	12	(11.3)	100	19	(19.0)	88	11	(12.5)	108	12	(11.1)	76	23	(30.3)
Luxembourg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Malta	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Netherlands	0	-	-	0	-	-	0	-	-	1	0	(0.0)	2	2	(100.0)
Norway	2	1	(50.0)	0	-	-	0	-	-	2	2	(100.0)	1	1	(100.0)
Poland	10	1	(10.0)	9	4	(44.4)	-	-	-	-	-	-	-	-	-
Portugal	3	2	(66.7)	6	1	(16.7)	4	0	(0.0)	2	2	(100.0)	0	-	-
Romania	105	22	(21.0)	123	48	(39.0)	96	34	(35.4)	76	8	(10.5)	69	10	(14.5)
Slovakia	1	1	(100.0)	0	-	-	1	0	(0.0)	2	0	(0.0)	1	0	(0.0)
Slovenia	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sweden	1	0	(0.0)	2	1	(50.0)	6	4	(66.7)	1	0	(0.0)	0	-	(00.0)
Subtotal EU/EEA	297	69	(23.2)	320	109	(34.1)	247	71	(28.7)	247	46	(18.6)	211	70	(33.2)
Non-EU/EEA							0			0			0		
Albania	-	-	-	-	-	-	0	-	-	0	-	-	0	-	-
Andorra	0	-	-	0	-	-	0	-	(20.0)	0	-	-	0	- 3	(24 1)
Armenia	10	4	(40.0)	8	4	(50.0)	10	3	(30.0)	16	7	(43.8)	14		(21.4)
Azerbaijan Belarua	69	16	(23.2)	-	-	([2,0])	-	-	-	182	115	(63.2)	189	116	(61.4)
Belarus	4 <i>31</i> 0	157	(36.4)	508	268	(52.8)	393	207	(52.7)	419	256	(61.1)	383	293	(76.5)
Bosnia and Herzegovina	56	- 18	(32.1)	62	35	(56.5)	- 55	31	(56.4)	47	- 28	(59.6)	- 54	29	(52.7)
Georgia											28			29	(53.7)
Israel Kazakhstan	2 318	1 98	(50.0) <i>(30.8)</i>	1 <i>391</i>	1 126	(100.0) <i>(32.2)</i>	2 435	2 207	(100.0) <i>(47.6)</i>	1 300	145	(0.0) (48.3)	2 386	293	(50.0) <i>(75.9)</i>
<i>Kyrgyzstan</i> Monaco	32	5	(15.6)	51 -	9	(17.6)	68	10	(14.7)	157	91 _	(58.0)	105	55 -	(52.4)
Monaco Montenegro	- 0	-	-	- 0	-	-	-	-	(100.0)	- 1	-	(100.0)	- 0	-	_
North Macedonia	0	-	-	0	-	-	0	1	(100.0)	0	1	(100.0)	0	-	-
Republic of Moldova	9	- 3	(33.3)	32	- 5	(15.6)	65	- 17	(26.2)	62	- 20	(32.3)	62	- 32	(51.6)
Russian Federation	2 2 0 9	687	(33.3)	2 882	960	(33.3)	2 9 0 9	1 0 9 4	(37.6)	4 140	1 710	(32.3)	27	32 11	(40.7)
San Marino	2 209	- 60	(31.1)	2 882	960	(33.3)	2 909	1094	(37.0)	4 140	- 1/10	(41.5)		-	(40.7)
Serbia	0	-	-	0	-		1	0	(0.0)	0	-	-	-	-	-
Serbia excluding Kosovo ¹	-	-	-	-	-	-	-	-	(0.0)	0	-	-	-	-	-
Kosovo ¹	-	-	-	-	-	-	-	-	-	0	-	-	-	-	-
Switzerland	1	0	(0.0)	0	_	-	0	_	_	0	-	-	1	1	(100.0)
Tajikistan	0	-	(0.0)	0		-	43	20	-	250	155	(62.0)	63	42	(66.7)
Turkey	2	0	(0.0)	3	2	(66.7)	43 9	20	(55.6)	230	0	(02.0)	8	42	(12.5)
Turkmenistan	-	-	(0.0)	-	-	(00.7)	7	-	()).0)	5	2	(40.0)	28	8	(12.5)
Ukraine	1 097	278	(25.3)	1 206	424	(35.2)	1 353	501	(37.0)	1 376	473	(34.4)	1 479	o 505	(20.0)
	3	1	(33.3)	8	424	(25.0)	7	3	(42.9)	3	4/5	(33.3)	5	2	(40.0)
United Kingdom	5	1	(55.5)									(62.8)	5 404	280	(40.0)
United Kingdom				1/7	2/-	1.1.2.1									(07.5/
Uzbekistan	-	1 268	(20 9)	147 5 299	34 1870	(23.1)	184	91 2 192	(49.5) (39.6)	258 7 219	162 3 166				
		1 268 1 337	(29.9) (29.5)	147 5 299 5 619	34 1 870 1 979	(23.1) (35.3) (35.2)	5 535 5 782	2 192 2 263	(49.5) (39.6) (39.1)	7 219 7 466	3 166 3 212	(43.9) (43.0)	3 210 3 421	1 672 1 742	(52.1)

Table XII. Treatment success after 24 months of pre-XDR-TB^a cases started on treatment,^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/EA: country data are shown as missing (-) when data on treatment outcome are not reported. For inclusion in the cohort, drug-susceptibility data are also required. HPCs: high-priority countries. Pre-XDR-TB: pre-extensively drug-resistant tuberculosis. * Pre-XDR-TB defined as resistance to rifampicin (RR/MDR-TB) as well as resistance to any fluoroquinolone. Includes cases that are pre-XDR-TB but that also meet the XDR case definition (XDR cases have not been excluded). * Por EVDR-TEA countries, cases diagnosed postmortem are excluded, and cases with no treatment enrolment data reported are assumed to be enrolled in treatment. * All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).

		2013			2014			2015			2016			2017	
		Suco	cess		Suco	ess		Suco	ess		Suc	ess		Succ	ess
Country/area	XDR-TB cases (N)	N	(%)	XDR-TB cases (N)	N	(%)									
EU/EEA															
Austria	7	4	(57.1)	2	2	(100.0)	1	1	(100.0)	2	2	(100.0)	2	0	(0.0)
Belgium	4	3	(75.0)	3	3	(100.0)	4	4	(100.0)	0	-	-	0	-	-
Bulgaria	7	2	(28.6)	5	2	(40.0)	1	1	(100.0)	1	0	(0.0)	4	2	(50.0)
Croatia	0	-	-	0	-	_	0	-	_	0	-	_	0	-	_
Cyprus	0	-	-	0	-	-	0	-	-	_	-	-	0	-	-
Czechia	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-
Denmark	1	1	(100.0)	0	-	-	2	0	(0.0)	0	-	-	0	-	-
Estonia	4	1	(25.0)	6	3	(50.0)	6	3	(50.0)	0	-	-	3	1	(33.3)
Finland	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-
France	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Germany	11	1	(9.1)	11	3	(27.3)	16	6	(37.5)	19	6	(31.6)	13	5	(38.5)
Greece	-	-	_	-	_	_	-	-	_	-	-	_	-	_	_
Hungary	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-
Iceland	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-
Ireland	-	-	-	0	-	-	0	-	-	-	-	-	-	-	-
Italy	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Latvia	0	-	-	8	7	(87.5)	-	-	-	-	-	-	-	-	-
Liechtenstein	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-
Lithuania	0	-	-	0	-	-	0	-	-	0	-	-	1	0	(0.0)
Luxembourg	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-
Malta	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Netherlands	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-
Norway	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-
Poland	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-
Portugal	2	2	(100.0)	1	0	(0.0)	2	0	(0.0)	2	0	(0.0)	2	2	(100.0)
Romania	0	-	-	0	-	-	0	-	-	0	-	-	1	0	(0.0)
Slovakia	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-
Slovenia	0	-	-	0	-	-	0	-	-	0	-	-	0	-	-
Spain	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sweden	1	1	(100.0)	1	0	(0.0)	1	1	(100.0)	3	1	(33.3)	0	-	-
Total EU/EEA	37	15	(40.5)	37	20	(54.1)	33	16	(48.5)	27	9	(33.3)	26	10	(38.5)

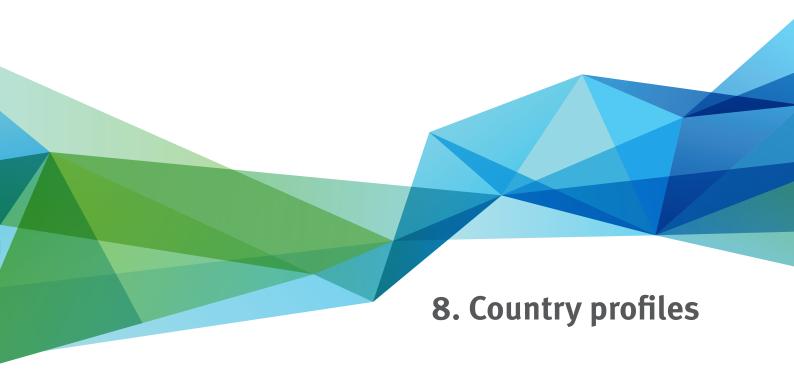
Table XIII. Treatment success after 36 months of XDR-TB^a cases notified in EU/EEA, 2013-2017

Note: WHO European Region 18 TB high-priority countries presented in italics. EU/EEA: country data are shown as missing (-) when data on treatment outcome are not reported. For inclusion in the cohort, drug-susceptibility data are also required. TESSy: the European Surveillance System. XDR TB: extensively drug-resistant tuberculosis. *XDR-TB defined as resistance to rifampicin and to at least one fluoroquinolone (pre-XDR-TB) as well as resistance to at least one additional Group A drug. Group A drugs include levofloxacin, moxifloxacin, bedaquiline and linezolid. For EU/EEA countries, linezolid resistance is not yet reported to TESSy, therefore XDR-TB is assessed on resistance to levofloxacin, moxifloxacin and/or bedaquiline (in addition to meeting pre-XDR-TB criteria).

		2016			2017			2018			2019			2020	
Country/area	New and relapse TB cases ^b	Cases test WHO recor rapid diag		New and relapse TB cases ^b	Cases test WHO recor rapid diag	nmended	New and relapse TB cases ^b	Cases to using recomm rapid diag	WHO lended	New and relapse TB cases ^b	Cases test WHO recon rapid diag	nmended	New and relapse TB cases ^b	Cases test WHO recor rapid diag	mmended
	N	N	(%)	N	N	(%)	N	N	(%)	N	N	(%)	N	N	(%)
EU/EEA			(10)			(10)			(10)			(10)			(70)
Austria	619	490	(79.2)	561	444	(79.1)	470	376	(80.0)	464	366	(78.9)	382	263	(68.8)
Belgium ^d	982	473	(48.2)	911	484	(53.1)	910	522	(57.4)	890	613	(68.9)	778	533	(68.5)
Bulgaria	1 525	6	(0.4)	1 408	5	(0.4)	1290	7	(0.5)	1288	17	(1.3)	887	2	(0.2)
Croatia	452	0	(0.0)	372	0	(0.0)	364	0	(0.0)	297	0	(0.0)	177	0	(0.0)
Cyprus	57	4	(7.0)	52	14	(26.9)	51	17	(33.3)	66	30	(45.5)	34	12	(35.3)
Czechia	511	252	(49.3)	495	334	(67.5)	434	274	(63.1)	455	313	(68.8)	360	257	(71.4)
Denmark ^d	292	209	(71.6)	253	198	(78.3)	270	262	(97.0)	260	238	(91.5)	205	197	(96.1)
Estonia	188	144	(76.6)	172	138	(80.2)	145	127	(87.6)	147	132	(89.8)	120	105	(87.5)
Finland	223	62	(27.8)	242	91	(37.6)	226	105	(46.5)	225	130	(57.8)	174	107	(61.5)
France	5 4 4 6	0	(0.0)	5 015	0	(0.0)	4 779	0	(0.0)	4 869	0	(0.0)	4 398	0	(0.0)
Germany	5 7 3 9	4 454	(77.6)	5 371	4 328	(80.6)	5 3 2 6	4 497	(84.4)	4 6 4 8	4 0 0 5	(86.2)	4 010	3 428	(85.5)
Greece	417	168	(40.3)	434	204	(47.0)	406	181	(44.6)	434	219	(50.5)	380	96	(25.3)
Hungary	737	0	(0.0)	650	0	(0.0)	602	0	(0.0)	528	0	(0.0)	384	0	(0.0)
Iceland	6	5	(83.3)	13	12	(92.3)	8	8	(100.0)	13	12	(92.3)	12	5	(41.7)
Ireland ^d	290	118	(40.7)	283	124	(43.8)	290	140	(48.3)	247	114	(46.2)	229	176	(76.9)
Italy	3 778	-	-	3 828	-	-	3 777	-	-	3 185	-	-	2 163	-	-
Latvia	641	0	(0.0)	543	178	(32.8)	-	-	-	-	-	-	-	-	-
Liechtenstein	2	0	(0.0)	1	1	(100.0)	1	1	(100.0)	-	-	-	2	2	(100.0)
Lithuania	1 3 4 7	0	(0.0)	1 268	0	(0.0)	1 0 6 3	0	(0.0)	1006	0	(0.0)	688	0	(0.0)
Luxembourg	29	0	(0.0)	32	0	(0.0)	42	0	(0.0)	48	0	(0.0)	32	0	(0.0)
Malta	50	17	(34.0)	42	13	(31.0)	55	0	(0.0)	98	0	(0.0)	140	0	(0.0)
Netherlands	875	588	(67.2)	772	576	(74.6)	780	582	(74.6)	739	573	(77.5)	614	494	(80.5)
Norway ^d	273	204	(74.7)	237	183	(77.2)	188	150	(79.8)	150	128	(85.3)	144	123	(85.4)
Poland	6 143	888	(14.5)	5 535	1037	(18.7)	5 196	1 0 5 4	(20.3)	4 983	1094	(22.0)	3 150	876	(27.8)
Portugal	1 8 9 1	349	(18.5)	1870	404	(21.6)	1887	481	(25.5)	1872	543	(29.0)	1 4 0 2	434	(31.0)
Romania	12 774	846	(6.6)	12 303	3 214	(26.1)	11 581	2 757	(23.8)	11 070	2 840	(25.7)	7 193	2 211	(30.7)
Slovakia	281	58	(20.6)	228	56	(24.6)	273	66	(24.2)	214	60	(28.0)	153	45	(29.4)
Slovenia	118	96	(81.4)	112	95	(84.8)	98	81	(82.7)	98	84	(85.7)	75	62	(82.7)
Spain	3 973	976	(24.6)	4 522	1 2 2 8	(27.2)	4 614	1 181	(25.6)	4 406	1 261	(28.6)	2 949	940	(31.9)
Sweden	691	461	(66.7)	487	412	(84.6)	474	326	(68.8)	478	386	(80.8)	316	274	(86.7)
Subtotal EU/EEA	50 350	10 868	(21.6)	48 012	13 773	(28.7)	45 600	13 195	(28.9)	43 178	13 158	(30.5)	31 551	10 642	(33.7)
Non-EU/EEA															
Albania	-	-	-	-	-	-	-	-	-	412	135	(32.8)	240	138	(57.5)
Andorra	4	4	(100.0)	1	1	(100.0)	2	2	(100.0)	5	5	(100.0)	2	2	(100.0)
Armenia	1 027	57	(5.6)	841	631	(75.0)	734	619	(84.3)	621	512	(82.4)	394	326	(82.7)
Azerbaijan	5 159	2 025	(39.3)	5 231	2 869	(54.8)	5 038	3 472	(68.9)	4 823	4 096	(84.9)	3 683	3 033	(82.4)
Belarus	3 211	2 555	(79.6)	2 781	2 452	(88.2)	2 359	2 201	(93.3)	2 207	2 035	(92.2)	1 514	1 426	(94.2)
Bosnia and Herzegovina	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Georgia	2 983	2 421	(81.2)	2 597	2 099	(80.8)	2 316	1 940	(83.8)	2 169	1 824	(84.1)	1 669	1 4 6 4	(87.7)
Israel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kazakhstan	12 322	10 505	(85.3)	12 449	10 226	(82.1)	12 832	11 454	(89.3)	12 501	11 513	(92.1)	9 603	9 2 1 9	(96.0)
Kyrgyzstan	7 026	2 533	(36.1)	6 687	4 330	(64.8)	6 338	3 910	(61.7)	6 138	4 575	(74.5)	4 241	2 495	(58.8)
Monaco	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Montenegro	87	25	(28.7)	75	48	(64.0)	84	64	(76.2)	80	57	(71.3)	40	35	(87.5)
North Macedonia	-	-	-	216	152	(70.4)	217	147	(67.7)	-	-	-	-	-	-
Republic of Moldova	3 571	1 813	(50.8)	3 358	3 129	(93.2)	3 022	2 857	(94.5)	2 809	2 809	(100.0)	1 767	1664	(94.2)
Russian Federation	92 407	64 512	(69.8)	84 510	65 843	(77.9)	78 258	57 344	(73.3)	73 328	58 300	(79.5)	58723	47 901	(81.6)
San Marino	0	-	-	0	-	(40.0)	0	-	(20.0)	0	-	(27.1)	-	-	-
Serbia	-	-	-	1 450	275	(19.0)	1330	399	(30.0)	1 106	414	(37.4)			-
Serbia excluding Kosovo ¹	-	-	-	738	0	(0.0)	641	0	(0.0)	501	0	(0.0)	-	-	_
Kosovo ¹	-	-	-	712	275	(38.6)	689	399	(57.9)	605	414	(68.4)	-	-	_
Switzerland	- E 0//E	-	(72.2)	529	354	(66.9)	E 726	4 225	(7/, 0)	402	304	(75.6)	4.14.0	2 502	(01.1)
Tajikistan	5 965	4 368	(73.2)	5 895	3 075	(52.2)	5726	4 235	(74.0)	5 755	4 915	(85.4)	4 148	3 502	(84.4)
Turkou	-	-	-	1 968	1 / 00	(75 6)	2 157	1 (11	(74.7)	2 117	1 (50	(77.0)	1 010	-	(274)
Turkey				1 968	1,488	(75.6)	2 157	1 611	(74.7) (87.1)	2 117 25 379	1 650 22 537	(77.9)	1 918	711 16 774	(37.1)
Turkmenistan	-	-								15 3/0	11537			16///	(95.7)
Turkmenistan Ukraine	-	-	-	-	-	(7 ()	26 512	23,093				(88.8)	17 533		144 .
Turkmenistan Ukraine United Kingdom	- 5 793	- 381	(6.6)	- 5 248	397	(7.6)	4 775	367	(7.7)	4 803	492	(10.2)	4 185	475	(11.4)
Turkmenistan Ukraine United Kingdom Uzbekistan	- 5 793 16 050	- 381 12 270	(6.6) (76.4)	- 5 248 16 842	397 11 368	(7.6) (67.5)	4 775 16 413	367 14 390	(7.7) (87.7)	4 803 16 272	492 12 074	(10.2) (74.2)	4 185 12 111	475 11 062	(91.3)
Turkmenistan Ukraine United Kingdom	- 5 793	- 381	(6.6)	- 5 248	397	(7.6)	4 775	367	(7.7)	4 803	492	(10.2)	4 185	475	

Table XIV. New and relapsed TB cases tested using WHO-recommended rapid diagnostics such as Xpert MTB/RIF,^a European Region, 2016–2020

Note: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. *Note:* European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 IB HPCs are presented in italics. #PCs: high-priority countries. *See:WHO (2013). Automated real-time nucleic acid amplification technology for rapid and simultaneous detection of tuberculosis and rifampicin resistance. Policy update. Geneva: World Health Organization (WHOWHO/HTM/TB/2013.16; https://apps.who.int/iris/handle/10665/112472, accessed 7 February 2022). *Cases with unknown previous TB history are included among new TB cases. *All nucleic acid amplification tests are counted as "tested using WHO-recommended rapid diagnostics" for EU/EEA countries. *Previous TB history is defined as previous diagnosis. *All references to Kosovo in this document should be understood to be in the context of the United Nations Security Council resolution 1244 (1999).



Abbreviations used in country profiles

ART	antiretroviral therapy
C+	culture-positive
DR-TB	drug-resistant tuberculosis
DRS	drug-resistance surveillance
DST	drug-susceptibility testing
MDR-TB	multidrug-resistant tuberculosis
EQA	external quality assessment
pre-XDR-TB	pre-extensively drug-resistant tuberculosis
RR/MDR-TB	rifampicin-resistant or multidrug-resistant tuberculosis
RR-TB	rifampicin-resistant tuberculosis
ТВ	tuberculosis

Albaı

Population estimate 2020 by United Nations Statistical Database: 2 877 800

TB cases, 2020

Total number of cases		240
Notification rate per 100 000		8.3
New ^a and relapse		240
New ^a and relapse notification rate per 100 000		8.3
Pulmonary	201	(83.8%)
of which microscopy-positive	-	-
of which laboratory-confirmed	147	(73.1%)
Laboratory-confirmed TB cases	-	-
Mean age of new native TB cases	45.	4 years
Mean age of new foreign TB cases	-	-
Foreign origin of all TB cases	0	(0.0%)
New (not previously treated)	223	(92.9%)
Estimates		
Estimated new and relapse cases N, best [low-high]	430	[370-500]

Drug-resistance surveillance and TB/HIV coinfection, 2020

Completeness of DRS data ^a	Yes				
Completeness of HIV data ^b	,	Yes			
Case-linked data-reporting	,	Yes			
Cases with DST results	138	(93.9%)			
Estimated RR-TB among notified bacteriologically confirmed pulmonary cases N, best [low–high]	4	[0-8]			
Pulmonary RR/MDR-TB cases notified	4	(2.9%)			
of which pre-XDR-TB cases	0	(0.0%)			
Notified RR/MDR-TB	4	-			
of which pre-XDR-TB cases	0	(0.0%)			
TB cases tested for HIV	199	(82.9%)			
HIV-positive TB cases	2	(1.0%)			
of these on ART	2	(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.

2011-2020

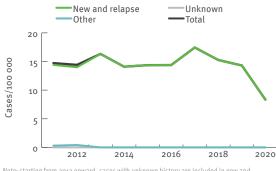
Treatment outcome monitoring

Geographical coverage	Na	tional				
Outcome cohort	TB case	id relapse is notified 2019ª	RR/MDR-TB cases enrolled into DR-TB treatment in 2018 ^b			
Case-linked data-reporting	,	Yes	-			
Cases notified	412			4		
Success	364	(88.3%)	3	(75.0%)		
Died	19	(4.6%)	1	(25.0%)		
Failed	0	(0.0%)	0	(0.0%)		
Lost to follow-up	18	(4.4%)	0	(0.0%)		
Not evaluated	11	(2.7%)	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.

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

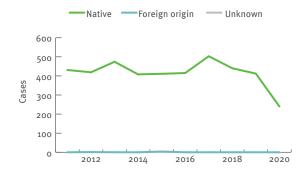
New and relapse TB cases - notification rates by age group,



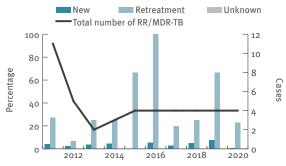
TB notification rates by previous treatment history, 2011–2020

Note: starting from 2013 onward, cases with unknown history are included in new and relapses.

TB cases by geographical origin, 2011–2020



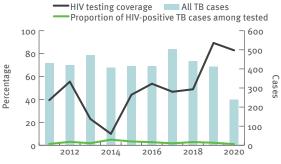
RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020





Note: data up to 2012 include new TB cases only.

TB/HIV coinfection, 2011–2020



Note: data up to 2014 include all TB cases.

Treatment outcome, new and relapse TB cases, 2010-2019



Note: 2010-2011 cohorts include new cases only.

Α rra

Total population estimate 2020 by United Nations Statistical Database: 77 267

TB cases, 2020

Notifications		
Total number of cases		2
Notification rate per 100000		2.6
New ^a and relapse		2
New ^a and relapse notification rate per 100 000		2.6
Pulmonary	1	(50.0%)
of which microscopy-positive	-	-
of which laboratory-confirmed	1	(100.0%)
Laboratory-confirmed TB cases	-	-
Mean age of new native TB cases	40.	D years
Mean age of new foreign TB cases	-	-
Foreign origin of all TB cases	0	(0.0%)
New (not previously treated)	2	(100.0%)
Estimates		
Estimated new and relapse cases N, best [low-high]	2	[2-3]

Drug resistance surveillance and TB/HIV coinfection, 2020

Completeness of DRS data ^a		Yes	
Completeness of HIV data ^b	No		
Case-linked data-reporting		Yes	
Cases with DST results	1	(100.0%)	
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low–high]	0	[0-1]	
Pulmonary RR/MDR-TB cases notified	0	(0.0%)	
of which pre-XDR-TB cases	0	(0.0%)	
Notified RR/MDR-TB	0	-	
of which pre-XDR-TB cases	0	(0.0%)	
TB cases tested for HIV	0	(0.0%)	
HIV-positive TB cases	-	-	
of these on ART	-	-	

New and relapse

Geographical coverage

Treatment outcome monitoring

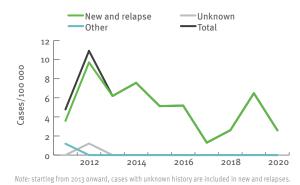
Outcome cohort	TB cas	nd relapse es notified 2019ª	RR/MDR-TB cases enrolled into DR-TE treatment in 2018 –		
Case-linked data-reporting		Yes			
Cases notified		5		0	
Success	3	(60.0%)	0	-	
Died	1	(20.0%)	0	-	
Failed	0	(0.0%)	0	-	
Lost to follow-up	1	(20.0%)	0	-	
Not evaluated	0	(0.0%)	0	-	

National

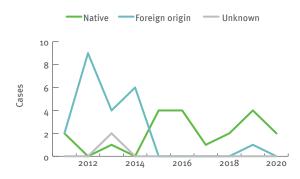
^a Treatment outcome as presented is treatment outcome after 12 months.
^b Treatment outcome as presented is treatment outcome after 24 months.

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

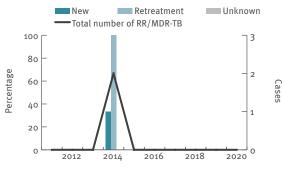
a National coverage 100% or culturing ≥ 90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA ≥ 95%. b More than 50% of TB cases with reported HIV status. TB notification rates by previous treatment history, 2011–2020



TB cases by geographical origin, 2011-2020



RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020

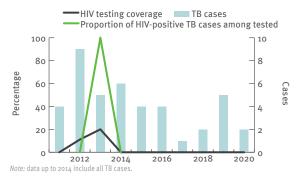


New and relapse TB cases – notification rates by age group, 2011–2020



Note: data up to 2012 include new TB cases only.

TB/HIV coinfection, 2011–2020



Treatment outcome, new and relapse TB cases, 2010-2019



Note: 2010–2011 cohorts include new cases only.

Armenia

Total population estimate 2020 by United Nations Statistical Database: 2 963 234

TB cases, 2020

Notifications		
Total number of cases		444
Notification rate per 100000		15.0
New ^a and relapse		394
New ^a and relapse notification rate per 100 000		13.3
Pulmonary	337	(75.9%)
of which microscopy-positive	-	-
of which laboratory-confirmed	251	(74.5%)
Laboratory-confirmed TB cases	-	-
Mean age of new native TB cases	44.	0 years
Mean age of new foreign TB cases	-	-
Foreign origin of all TB cases	4	(0.9%)
New (not previously treated)	369	(83.1%)
Estimates		
Estimated new and relapse cases N, best [low-high]	680	[520-870]

Drug resistance surveillance and TB/HIV coinfection, 2020

Completeness of DRS data ^a		Yes
Completeness of HIV data ^b	,	Yes
Case-linked data-reporting	,	Yes
Cases with DST results	246	(98.0%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low–high]	54	[42-66]
Pulmonary RR/MDR-TB cases notified	52	(21.1%)
of which pre-XDR-TB cases	11	(21.2%)
Notified RR/MDR-TB	52	-
of which pre-XDR-TB cases	7	(13.5%)
TB cases tested for HIV	369	(93.7%)
HIV-positive TB cases	39	(10.6%)
of these on ART	0	(0.0%)

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	National			
Outcome cohort	New and relapse TB cases notified in 2019ª		RR/MDR-TB cases enrolled into DR-TB treatment in 2018 ^b	
Case-linked data-reporting	Yes		-	
Cases notified	485			85
Success	399	(82.3%)	39	(45.9%)
Died	36	(7.4%)	13	(15.3%)
Failed	19	(3.9%)	11	(12.9%)
Lost to follow-up	29	(6.0%)	22	(25.9%)
Not evaluated	2	(0.4%)	0	(0.0%)

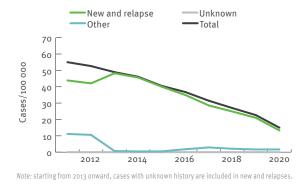
^a Treatment outcome as presented is treatment outcome after 12 months.
^b Treatment outcome as presented is treatment outcome after 24 months.

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

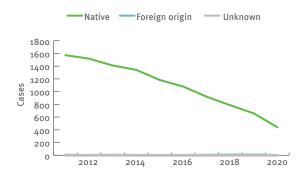
^b More

TB notification rates by previous treatment history, 2011–2020

New and relapse TB cases – notification rates by age group, 2011–2020

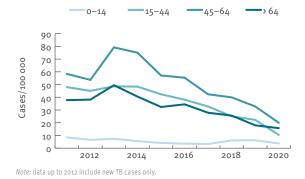


TB cases by geographical origin, 2011-2020

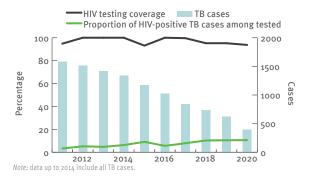


RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020

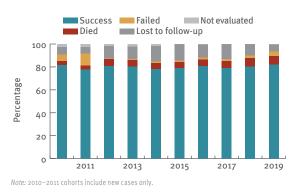




TB/HIV coinfection, 2011–2020



Treatment outcome, new and relapse TB cases, 2010–2019



Austria

Total population at 9 April 2021 by EUROSTAT: 8 901 064

TB cases, 2020

Notifications		
Total number of cases	388	
Notification rate per 100 000	4.4	
New ^a and relapse	382	
New ^a and relapse notification rate per 100 000	4.3	
Pulmonary	295	(76.0%)
of which microscopy-positive	65	(22.0%)
of which laboratory-confirmed	227	(76.9%)
Laboratory-confirmed TB cases	281	(72.4%)
Mean age of new native TB cases	53.3 years	
Mean age of new foreign TB cases	40.3 years	
Foreign origin of all TB cases	215	(55.4%)
New (not previously treated)	296	(76.3%)
Estimates		
Estimated new and relapse cases N, best [low-high]	440	[380-510]

Drug resistance surveillance and TB/HIV coinfection, 2020

Completeness of DRS data ^a	Yes	
Completeness of HIV data ^b	No Yes	
Case-linked data-reporting		
Cases with DST results	269	(95.7%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low–high]	8	[3-13]
Pulmonary RR/MDR-TB cases notified	1	(0.5%)
of which pre-XDR-TB cases	0	(0.0%)
Notified RR/MDR-TB	1	-
of which pre-XDR-TB cases	0	(0.0%)
TB cases tested for HIV	-	-
HIV-positive TB cases	-	-
of these on ART	_	-

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

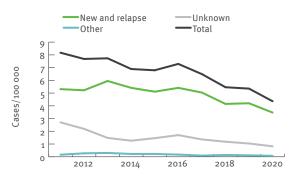
Treatment outcome monitoring

Geographical coverage	National			
Outcome cohort	New culture-positive pulmonary TB cases notified in 2019ª		All RR/MDR-TB cases notified in 2018 ^b	
Case-linked data-reporting	Yes		-	
Cases notified	195		18	
Success	149	(76.4%)	15	(83.3%)
Died	15	(7.7%)	1	(5.6%)
Failed	0	(0.0%)	0	(0.0%)
Lost to follow-up	1	(0.5%)	0	(0.0%)
Still on treatment	18	(9.2%)	1	(5.6%)
Not evaluated	12	(6.2%)	1	(5.6%)

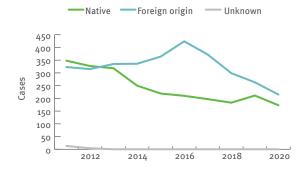
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

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

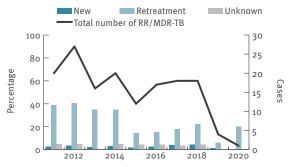
TB notification rates by previous treatment history, 2011–2020



TB cases by geographical origin, 2011–2020



RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020



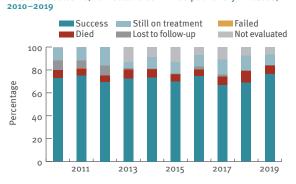
New and relapse TB cases – notification rates by age group, 2011–2020



TB/HIV coinfection, 2011–2020

Data not reported

Treatment outcome, new culture-confirmed pulmonary TB cases,



Azerbaijan

Total population estimate 2020 by United Nations Statistical Database: 10 139 175

TB cases, 2020

Total number of cases		4 991	
Notification rate per 100 000		49.2	
New ^a and relapse		3 683	
New ^a and relapse notification rate per 100 000		36.3	
Pulmonary	4 380	(87.8%)	
of which microscopy-positive	-	-	
of which laboratory-confirmed	3 617	(82.6%)	
Laboratory-confirmed TB cases	-	-	
Mean age of new native TB cases	26.9 years		
Mean age of new foreign TB cases	-	-	
Foreign origin of all TB cases	-	-	
New (not previously treated)	2 558	(51.3%)	
Estimates			
Estimated new and relapse cases N, best [low-high]	5 900	[4 500-7 500]	

Drug resistance surveillance and TB/HIV

Completeness of DRS data ^a	Yes		
Completeness of HIV data ^b	Yes		
Case-linked data-reporting	Yes		
Cases with DST results	3 505	(96.9%)	
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low–high]	720	[670-760]	
Pulmonary RR/MDR-TB cases notified	701	(20.0%)	
of which pre-XDR-TB cases	87	(15.1%)	
Notified RR/MDR-TB	764	-	
of which pre-XDR-TB cases	108	(14.1%)	
TB cases tested for HIV	3 683	(100%)	
HIV-positive TB cases	83	(1.9%)	
of these on ART	77	(92.8%)	

Treatment outcome monitoring

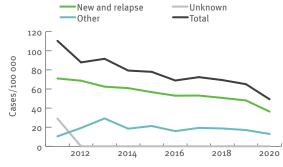
Geographical coverage	Nat	ional		
Outcome cohort	New and relapse TB cases notified in 2019ª		enrolled	R-TB cases into DR-TB nt in 2018 ⁶
Case-linked data-reporting	Yes			-
Cases notified	1702		8	321
Success	1429	(84.0%)	471	(57.4%)
Died	66	(3.9%)	94	(11.4%)
Failed	53	(3.1%)	142	(17.3%)
Lost to follow-up	134	(7.9%)	114	(13.9%)
Not evaluated	20	(1.2%)	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.

 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.

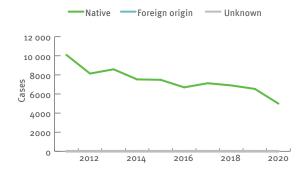
New and relapse TB cases – notification rates by age group, 2011–2020



TB notification rates by previous treatment history, 2011–2020

Note: starting from 2013 onward, cases with unknown history are included in new and relapse.

TB cases by geographical origin, 2011-2020



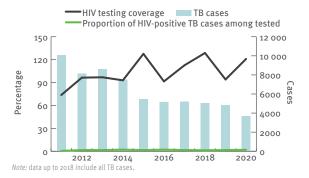
RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020





Note: data up to 2012 include new TB cases only.

TB/HIV coinfection, 2011–2020



Treatment outcome, new and relapse TB cases, 2010–2019



¹²⁷

Belarus

Total population estimate 2020 by United Nations Statistical Database: 9 449 321

TB cases, 2020

Notifications			
Total number of cases		1778	
Notification rate per 100000		18.8	
New ^a and relapse		1 514	
New ^a and relapse notification rate per 100 000		16.0	
Pulmonary	1658	(93.3%)	
of which microscopy-positive	-	-	
of which laboratory-confirmed	1584	(95.5%)	
Laboratory-confirmed TB cases	-	-	
Mean age of new native TB cases	48.6 years		
Mean age of new foreign TB cases	-	-	
Foreign origin of all TB cases	0	(0.0%)	
New (not previously treated)	1 171	(65.9%)	
Estimates			
Estimated new and relapse cases N, best [low-high]	2 500	[1 900-3 100]	

Drug-resistance surveillance and TB/HIV coinfection, 2020

Completeness of DRS data ^a	Yes		
Completeness of HIV data ^b		Yes	
Case-linked data-reporting		Yes	
Cases with DST results	1584	(100.0%)	
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low–high]	820	[790-860]	
Pulmonary RR/MDR-TB cases notified	825	(52.1%)	
of which pre-XDR-TB cases	354	(42.9%)	
Notified RR/MDR-TB	874	-	
of which pre-XDR-TB cases	354	(40.5%)	
TB cases tested for HIV	1 5 1 4	(100.0%)	
HIV-positive TB cases	135	(8.9%)	
of these on ART	124	(91.9%)	

Treatment outcome monitoring

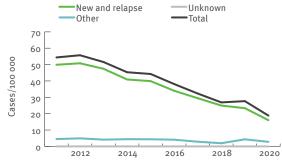
Geographical coverage	Nat	ional		
Outcome cohort	New and relapse TB cases notified in 2019ª		enrolled	R-TB cases into DR-TB nt in 2018 ⁶
Case-linked data-reporting	Yes			-
Cases notified	1	1 302		919
Success	1 153	(88.6%)	670	(72.9%)
Died	93	(7.1%)	87	(9.5%)
Failed	28	(2.2%)	60	(6.5%)
Lost to follow-up	28	(2.2%)	95	(10.3%)
Not evaluated	0	(0.0%)	7	(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

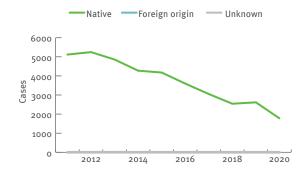
 ^a National coverage 100% or culturing ≥ 90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA ≥ 95%.
 ^b More than 50% of TB cases with reported HIV status. TB notification rates by previous treatment history, 2011–2020

New and relapse TB cases - notification rates by age group, 2011-2020

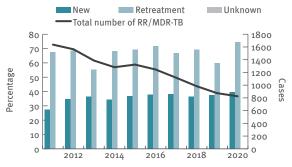


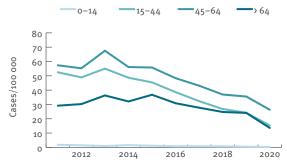
Note: starting from 2013 onward, cases with unknown history are included in new and relapses.

TB cases by geographical origin, 2011-2020



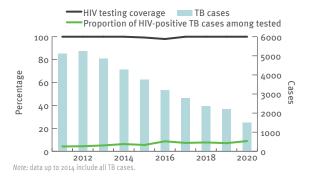
RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020





Note: data up to 2012 include new TB cases only.

TB/HIV coinfection, 2011–2020



Treatment outcome, new and relapse TB cases, 2010-2019^a



Note: 2010-2011 cohorts include new cases only.

Belgium

Total population at 9 April 2021 by EUROSTAT: 11 522 440

TB cases, 2020

Notifications Total number of cases 830 Notification rate per 100000 New^a and relapse 778 New^a and relapse notification rate per 100 000 6.8 Pulmonary 574 (69.2%) of which microscopy-positive 271 (47.2%) of which laboratory-confirmed 461 (80.3%) Laboratory-confirmed TB cases (76.7%) 637 Mean age of new native TB cases 45.6 years Mean age of new foreign TB cases 34.7 years Foreign origin of all TB cases (56.9%) 472 New (not previously treated) (73.1%) 607 Estimates Estimated new and relapse cases N, 890 [770-1000] best [low-high]

Drug resistance surveillance and TB/HIV coinfection, 2020

Completeness of DRS data ^a	Yes		
Completeness of HIV data ^b	No		
Case-linked data-reporting	Yes		
Cases with DST results	613	(96.2%)	
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low–high]	13	[6-20]	
Pulmonary RR/MDR-TB cases notified	9	(2.0%)	
of which pre-XDR-TB cases	1	(20.0%)	
Notified RR/MDR-TB	17	-	
of which pre-XDR-TB cases	3	(17.6%)	
TB cases tested for HIV	389	(46.9%)	
HIV-positive TB cases	33	(8.5%)	
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.

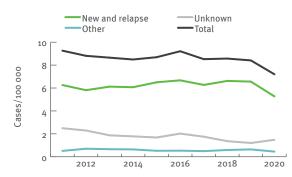
Treatment outcome monitoring Geographical coverage National

coverage	110	National		
Outcome cohort New culture-positive pulmonary TB cases notified in 2019 ^a		pulmonary TB cases		R-TB cases d in 2018 ⁶
Case-linked data-reporting	Yes		/es –	
Cases notified	445			9
Success	353	(79.3%)	7	(77.8%
Died	34	(7.6%)	1	(11.1%)
Failed	4	(0.9%)	0	(0.0%)
Lost to follow-up	33	(7.4%)	1	(11.1%)
Still on treatment	13	(2.9%)	0	(0.0%)
Not evaluated	8	(1.8%)	0	(0.0%)

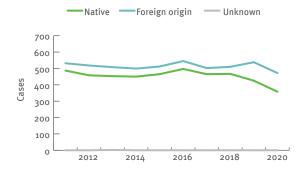
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

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

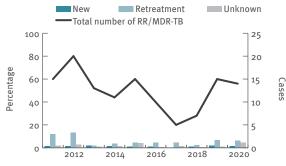
TB notification rates by previous treatment history, 2011–2020



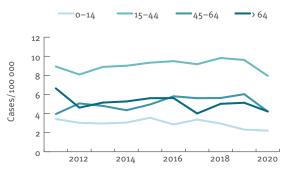
TB cases by geographical origin, 2011–2020



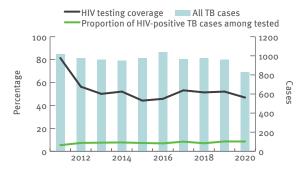
RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020

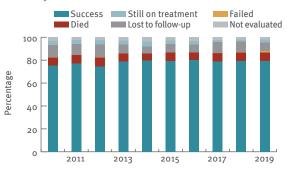


New and relapse TB cases – notification rates by age group, 2011–2020



TB/HIV coinfection, 2011–2020





Bosnia and Herzegovina

Total population estimate 2020 by United Nations Statistical Database: 3 280 815

TB cases, 2020

Cases/100 000

Notifications		
Total number of cases		357
Notification rate per 100 000		10.9
New ^a and relapse		357
New ^a and relapse notification rate per 100 000		10.9
Pulmonary	332	(93.0%)
of which microscopy-positive	-	-
of which laboratory-confirmed	240	(72.3%)
Laboratory-confirmed TB cases	-	-
Mean age of new native TB cases	51.	.3 years
Mean age of new foreign TB cases	-	-
Foreign origin of all TB cases	5	(1.4%)
New (not previously treated)	322	(90.2%)
Estimates		
Estimated new and relapse cases N, best [low-high]	850	[650-1100]

Drug resistance surveillance and TB/HIV

connection, 2020		
Completeness of DRS data ^a	,	Yes
Completeness of HIV data ^b	No	
Case-linked data-reporting	Yes	
Cases with DST results	231	(96.3%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary cases N, best [low–high]	0	[0-3]
Pulmonary RR/MDR-TB cases notified	0	(0.0%)
of which pre-XDR-TB cases	-	-
Notified RR/MDR-TB	0	-
of which pre-XDR-TB cases	-	-
TB cases tested for HIV	15	(4.2%)
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.

National

Treatment outcome monitoring

Geographical

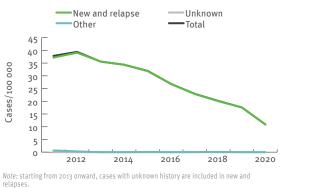
coverage				
Outcome cohort	New and relapse TB cases notified in 2019ª		enrolled	-TB cases into DR-TE t in 2018 ^t
Case-linked data-reporting	Yes			_
Cases notified	580			0
Success	185	(31.9%)	0	-
Died	28	(4.8%)	0	-
Failed	10	(1.7%)	0	-
Lost to follow-up	3	(0.5%)	0	-
Not evaluated	354	(61.0%)	0	-

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

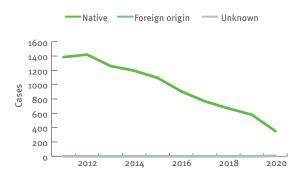
^a Cases with unknown previous TB history included in new cases.

TB notification rates by previous treatment history, 2011–2020

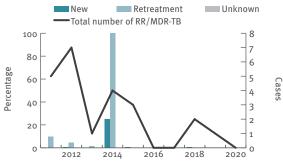
New and relapse TB cases - notification rates by age group, 2011-2020



TB cases by geographical origin, 2011-2020

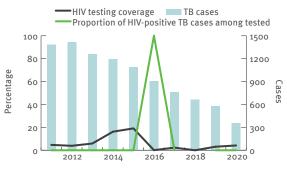


RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020



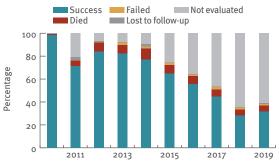


TB/HIV coinfection, 2011–2020



Note: data up to 2014 include all TB cases.

Treatment outcome, new and relapse TB cases, 2010-2019



Note: 2010-2011 cohorts include new cases only.

Bulgaria

Total population at 9 April 2021 by EUROSTAT: 6 951 482

TB cases, 2020

Notifications		
Total number of cases		930
Notification rate per 100 000		13.4
New ^a and relapse		887
New ^a and relapse notification rate per 100 000		12.8
Pulmonary	746	(80.2%)
of which microscopy-positive	377	(50.5%)
of which laboratory-confirmed	424	(56.8%)
Laboratory-confirmed TB cases	433	(46.6%)
Mean age of new native TB cases	5	1.5 years
Mean age of new foreign TB cases	3	7.5 years
Foreign origin of all TB cases	2	(0.2%)
New (not previously treated)	820	(88.2%)
Estimates		
Estimated new and relapse cases N, best [low-high]	1300	[1 000-1 700]

Drug resistance surveillance and TB/HIV coinfection, 2020

Completeness of DRS data ^a	Yes	
Completeness of HIV data ^b	١	/es
Case-linked data-reporting	Yes	
Cases with DST results	246	(56.8%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low–high]	24	[16-32]
Pulmonary RR/MDR-TB cases notified	12	(5.0%)
of which pre-XDR-TB cases	2	(22.2%)
Notified RR/MDR-TB	12	-
of which pre-XDR-TB cases	2	(22.2%)
TB cases tested for HIV	781	(84.0%)
HIV-positive TB cases	1	(0.1%)
of these on ART	1	(100.0%)

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.

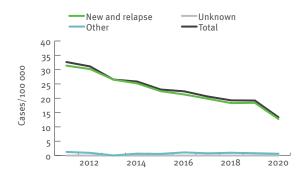
Geographical National

coverage	Nat	ional		
Outcome cohort	New culture-positive pulmonary TB cases notified in 2019 ^a Yes		All RR/MDR-TB ca notified in 2018	
Case-linked data-reporting				-
Cases notified	549		28	
Success	449	(81.8%)	17	(60.7%)
Died	44	(8.0%)	4	(14.3%)
Failed	7	(1.3%)	1	(3.6%)
Lost to follow-up	34	(6.2%)	5	(17.9%)
Still on treatment	0	(0.0%)	0	(0.0%)
Not evaluated	15	(2.7%)	1 (3.6%	

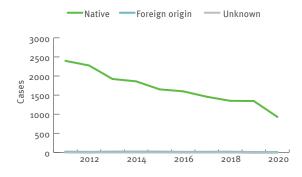
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

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

TB notification rates by previous treatment history, 2011–2020



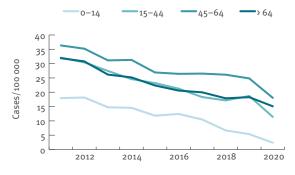
TB cases by geographical origin, 2011-2020



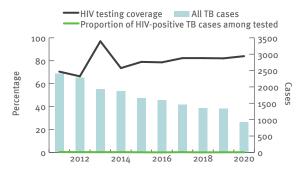
RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020

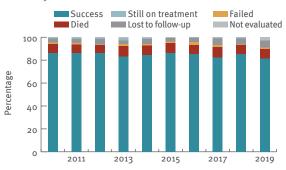


New and relapse TB cases – notification rates by age group, 2011–2020



TB/HIV coinfection, 2011–2020





Croatia

Total population at 9 April 2021 by EUROSTAT: 4 058 165

TB cases, 2020

Notifications		
Total number of cases		183
Notification rate per 100 000		4.5
New ^a and relapse		177
New ^a and relapse notification rate per 100 000		4.4
Pulmonary	104	(56.8%)
of which microscopy-positive	67	(64.4%)
of which laboratory-confirmed	99	(95.2%)
Laboratory-confirmed TB cases	146	(79.8%)
Mean age of new native TB cases	86.0 years	
Mean age of new foreign TB cases		-
Foreign origin of all TB cases	0	(0.0%)
New (not previously treated)	1	(0.5%)
Estimates		
Estimated new and relapse cases N, best [low-high]	270	[230-310]

Drug resistance surveillance and TB/HIV coinfection, 2020

Completeness of DRS data ^a	Yes	
Completeness of HIV data ^b	No	
Case-linked data-reporting	Yes	
Cases with DST results	131	(89.7%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low–high]	1	[0-3]
Pulmonary RR/MDR-TB cases notified	1	(1.2%)
of which pre-XDR-TB cases	0	-
Notified RR/MDR-TB	1	-
of which pre-XDR-TB cases	0	-
TB cases tested for HIV	4	(2.2%)
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.

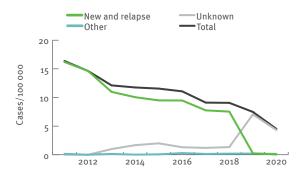
Treatment outcome monitoring

Geographical coverage	National			
Outcome cohort	pulmona	ure-positive ry TB cases d in 2019 ⁶	All RR/MDR-TB cas notified in 2018	
Case-linked data-reporting	Yes			-
Cases notified		2 2		2
Success	2	(100%)	0	(0.0%)
Died	0	(0.0%)	1	(50.0%)
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	0	(0.0%)	(0.0%) 1 (50.0	

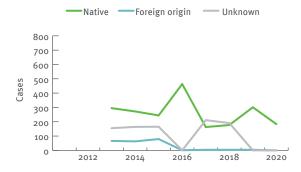
^a For 2019, cases with unknown treatment history included in new cases. ^b Treatment outcome as presented is treatment outcome after 12 months. ^c Treatment outcome as presented is treatment outcome after 24 months.

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

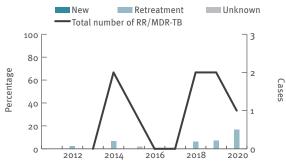
TB notification rates by previous treatment history, 2011–2020



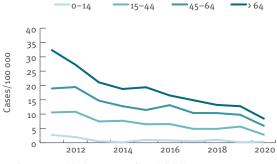
TB cases by geographical origin, 2011–2020



RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020

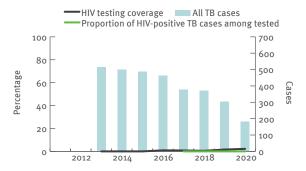


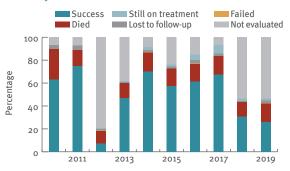
New and relapse TB cases – notification rates by age group, 2011–2020



Note: for 2019, cases with unknown treatment history included in new cases.

TB/HIV coinfection, 2011–2020





Cyprus

Total population at 9 April 2021 by EUROSTAT: 888 005

TB cases, 2020

Notifications		
Total number of cases		36
Notification rate per 100 000		4.1
New ^a and relapse		34
New ^a and relapse notification rate per 100 000		3.8
Pulmonary	30	(83.3%)
of which microscopy-positive	10	(33.3%)
of which laboratory-confirmed	27	(90.0%)
Laboratory-confirmed TB cases	28	(77.8%)
Mean age of new native TB cases	55.4	years
Mean age of new foreign TB cases	32.9	9 years
Foreign origin of all TB cases	31	(86.1%)
New (not previously treated)	34	(94.4%)
Estimates		
Estimated new and relapse cases N, best [low-high]	69	[59-80]

Drug resistance surveillance and TB/HIV coinfection, 2020

Completeness of DRS data ^a		Yes
Completeness of HIV data ^b		Yes
Case-linked data-reporting	Yes	
Cases with DST results	28	(100.0%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low–high]	0	[0-1]
Pulmonary RR/MDR-TB cases notified	0	-
of which pre-XDR-TB cases	0	-
Notified RR/MDR-TB	0	-
of which pre-XDR-TB cases	0	-
TB cases tested for HIV	30	(83.3%)
HIV-positive TB cases	2	(6.7%)
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.

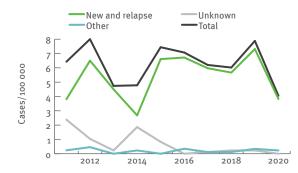
Treatment outcome monitoring

Geographical coverage	Na	tional		
Outcome cohort			All RR/MDR-TB ca notified in 201	
Case-linked data-reporting			Yes	
Cases notified		47	(D
Success	12	(25.5%)	0	-
Died	0	(0.0%)	0	-
Failed	0	(0.0%)	0	-
Lost to follow-up	6	(12.8%)	0	-
Still on treatment	7	(14.9%)	0	-
Not evaluated	22	(46.8%)	0	-

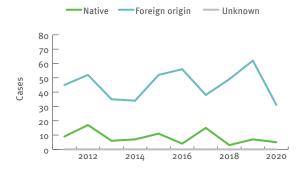
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

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

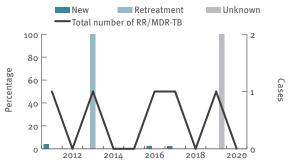
TB notification rates by previous treatment history, 2011–2020



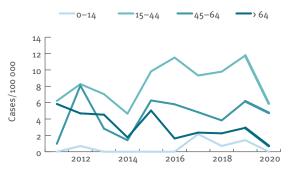
TB cases by geographical origin, 2011–2020



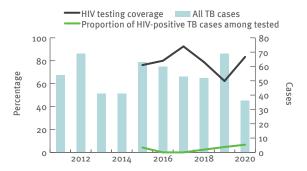
RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020

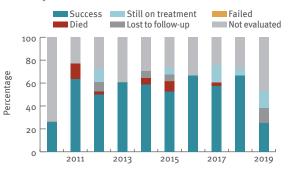


New and relapse TB cases – notification rates by age group, 2011–2020



TB/HIV coinfection, 2011–2020





Czechia

Total population at 9 April 2021 by EUROSTAT: 10 693 939

TB cases, 2020

Notifications		
Total number of cases		367
Notification rate per 100 000		3.4
New ^a and relapse		360
New ^a and relapse notification rate per 100 000		3.4
Pulmonary	321	(87.5%)
of which microscopy-positive	166	(51.7%)
of which laboratory-confirmed	254	(79.1%)
Laboratory-confirmed TB cases	285	(77.7%)
Mean age of new native TB cases	57.1 years	
Mean age of new foreign TB cases	40.	2 years
Foreign origin of all TB cases	126	(34.3%)
New (not previously treated)	351	(95.6%)
Estimates		
Estimated new and relapse cases N, best [low-high]	410	[350-480]

Drug resistance surveillance and TB/HIV coinfection, 2020

Completeness of DRS data ^a	Yes	
Completeness of HIV data ^b	Yes	
Case-linked data-reporting	١	/es
Cases with DST results	257	(90.2%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	13	[6-20]
Pulmonary RR/MDR-TB cases notified	11	(4.7%)
of which pre-XDR-TB cases	4	(57.1%)
Notified RR/MDR-TB	11	-
of which pre-XDR-TB cases	4	(36.4%)
TB cases tested for HIV	201	(54.8%)
HIV-positive TB cases	7	(3.5%)
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.

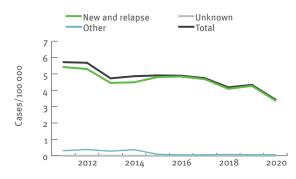
Treatment outcome monitoring

Geographical coverage	Nat	ional		
Outcome cohort Case-linked data-reporting Cases notified	pulmonai	re-positive ry TB cases I in 2019ª	All RR/MDR-TB cas notified in 2018	
	Yes 335		-	
				12
Success	235	(70.1%)	4	(33.3%)
Died	40	(11.9%)	1	(8.3%)
Failed	1	(0.3%)	0	(0.0%)
Lost to follow-up	40	(11.9%)	4	(33.3%)
Still on treatment	12	(3.6%)	1	(8.3%)
Not evaluated	7	(2.1%)	2 (16.79	

^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.

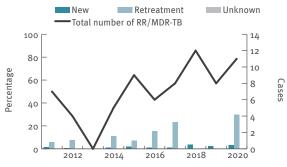
TB notification rates by previous treatment history, 2011–2020



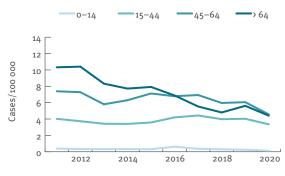
TB cases by geographical origin, 2011-2020



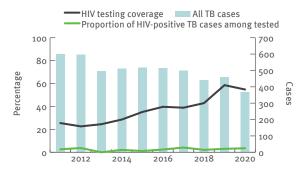
RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020

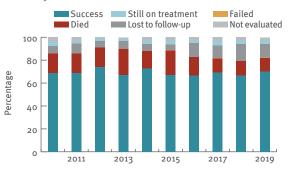


New and relapse TB cases – notification rates by age group, 2011–2020



TB/HIV coinfection, 2011–2020





Denmark

Total population at 9 April 2021 by EUROSTAT: 5 822 763

TB cases, 2020

	221
	3.8
	207
	3.6
160	(72.4%)
76	(47.5%)
134	(83.8%)
180	(81.4%)
48.7 years	
40.	6 years
159	(71.9%)
207	(93.7%)
280	[240-320]
	160 76 134 180 48. 40. 159 207

Drug resistance surveillance and TB/HIV coinfection, 2020

Completeness of DRS data ^a		Yes
Completeness of HIV data ^b	,	Yes
Case-linked data-reporting	Yes	
Cases with DST results	179	(99.4%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low–high]	2	[0-5]
Pulmonary RR/MDR-TB cases notified	2	(1.5%)
of which pre-XDR-TB cases	0	(0.0%)
Notified RR/MDR-TB	2	-
of which pre-XDR-TB cases	0	(0.0%)
TB cases tested for HIV	168	(76.0%)
HIV-positive TB cases	4	(2.4%)
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.

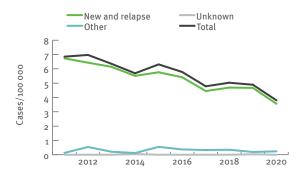
Treatment outcome monitoring

Geographical coverage	Na	tional		
Outcome cohort	pulmona	ure-positive ry TB cases d in 2019ª	All RR/MDR-TB cas notified in 2018 ^b	
Case-linked data-reporting	Yes		-	
Cases notified		170	4	
Success	77	(45.3%)	0	(0.0%)
Died	1	(0.6%)	0	(0.0%)
Failed	0	(0.0%)	0	(0.0%)
Lost to follow-up	1	(0.6%)	0	(0.0%)
Still on treatment	3	(1.8%)	0	(0.0%)
Not evaluated	88	(51.8%)	4	(100.0%)

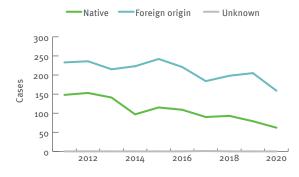
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

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

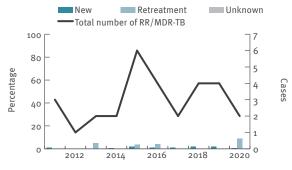
TB notification rates by previous treatment history, 2011–2020



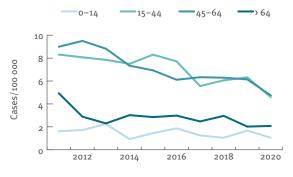
TB cases by geographical origin, 2011-2020



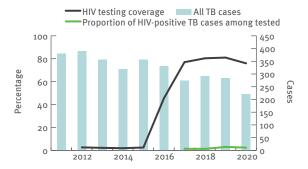
RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020

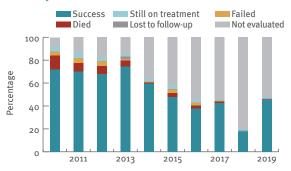


New and relapse TB cases – notification rates by age group, 2011–2020



TB/HIV coinfection, 2011–2020





Estonia

Total population at 9 April 2021 by EUROSTAT: 1 328 976

TB cases, 2020

	124
	124
	9.3
	120
	9.0
115	(92.7%)
54	(47.0%)
100	(87.0%)
107	(86.3%)
53.	9 years
60	.1 years
36	(29.0%)
109	(87.9%)
140	[120-160]
	54 100 107 53. 60 36 109

Drug resistance surveillance and TB/HIV coinfection, 2020

Completeness of DRS data ^a	Yes	
Completeness of HIV data ^b	Yes	
Case-linked data-reporting	,	Yes
Cases with DST results	105	(98.1%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low–high]	22	[14-30]
Pulmonary RR/MDR-TB cases notified	19	(19.4%)
of which pre-XDR-TB cases	6	(31.6%)
Notified RR/MDR-TB	19	-
of which pre-XDR-TB cases	6	(31.6%)
TB cases tested for HIV	116	(93.5%)
HIV-positive TB cases	13	(11.2%)
of these on ART	11	(84.6%)

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 National

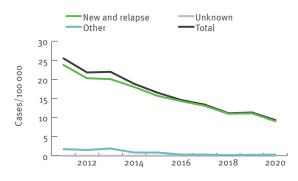
Treatment outcome monitoring

Outcome cohort	New culture-positive pulmonary TB cases notified in 2019 ^a All RR/MDR-1			
Case-linked data-reporting	Yes –		-	
Cases notified		100	32	
Success	68	(68.0%)	23	(71.9%)
Died	15	(15.0%)	5	(15.6%)
Failed	0	(0.0%)	0	(0.0%)
Lost to follow-up	1	(1.0%)	1	(3.1%)
Still on treatment	14	(14.0%)	1	(3.1%)
Not evaluated	2	(2.0%)	2	(6.3%)

^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, 2011–2020



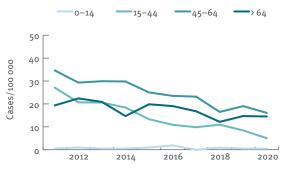
TB cases by geographical origin, 2011–2020



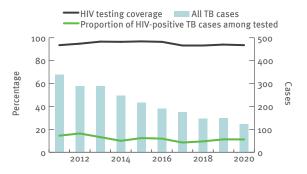
RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020

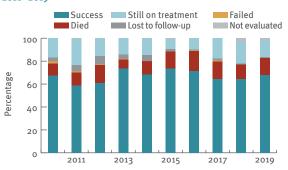


New and relapse TB cases – notification rates by age group, 2011-2020



TB/HIV coinfection, 2011–2020





Finland

Total population at 9 April 2021 by EUROSTAT: 5 525 292

TB cases, 2020

Notifications		
Total number of cases		174
Notification rate per 100 000		3.1
New ^a and relapse		174
New ^a and relapse notification rate per 100 000		3.1
Pulmonary	118	(67.8%)
of which microscopy-positive	32	(27.1%)
of which laboratory-confirmed	103	(87.3%)
Laboratory-confirmed TB cases	141	(81.0%)
Mean age of new native TB cases	71.	1 years
Mean age of new foreign TB cases	40.	7 years
Foreign origin of all TB cases	66	(37.9%)
New (not previously treated)	169	(97.1%)
Estimates		
Estimated new and relapse cases N, best [low-high]	200	[170-230]

Drug resistance surveillance and TB/HIV coinfection, 2020

Completeness of DRS data ^a	Yes	
Completeness of HIV data ^b	No	
Case-linked data-reporting	١	′es
Cases with DST results	138	(97.9%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low–high]	2	[0-4]
Pulmonary RR/MDR-TB cases notified	0	(0.0%)
of which pre-XDR-TB cases	0	(0.0%)
Notified RR/MDR-TB	1	-
of which pre-XDR-TB cases	0	(0.0%)
TB 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.

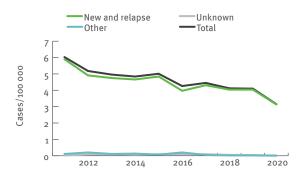
Treatment outcome monitoring Geographical coverage National

coverage	IN d	lional		
Outcome cohort	pulmona	ure-positive ry TB cases d in 2019ª	All RR/MDR-TB cas notified in 2018 ^b	
Case-linked data-reporting	Yes		-	
Cases notified		126	4	
Success	73	(57.9%)	2	(50.0%)
Died	0	(0.0%)	0	(0.0%)
Failed	0	(0.0%)	0	(0.0%)
Lost to follow-up	3	(2.4%)	0	(0.0%)
Still on treatment	4	(3.2%)	0	(0.0%)
Not evaluated	46	(36.5%)	2	(50.0%)

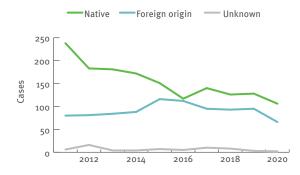
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

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

TB notification rates by previous treatment history, 2011–2020



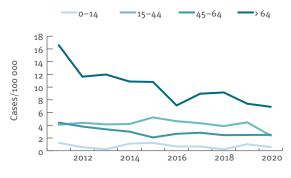
TB cases by geographical origin, 2011-2020



RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020

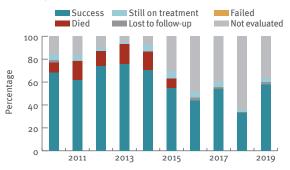


New and relapse TB cases – notification rates by age group, 2011–2020



TB/HIV coinfection, 2011–2020

Data not reported



France

Total population at 9 April 2021 by EUROSTAT: 67 320 216

TB cases, 2020

Notifications		
Total number of cases		4 606
Notification rate per 100000		6.8
New ^a and relapse		4 398
New ^a and relapse notification rate per 100 000		6.5
Pulmonary	3 140	(68.2%)
of which microscopy-positive	1 4 3 9	-
of which laboratory-confirmed	1388	(44.2%)
Laboratory-confirmed TB cases	1879	(40.8%)
Mean age of new native TB cases	4	6.3 years
Mean age of new foreign TB cases	3	7.4 years
Foreign origin of all TB cases	2 7 1 9	(59.0%)
New (not previously treated)	2 288	(49.7%)
Estimates		
Estimated new and relapse cases N, best [low-high]	5 300	[4700-6000]

Drug resistance surveillance and TB/HIV coinfection, 2020

Completeness of DDC dates		Vee
Completeness of DRS data ^a		Yes
Completeness of HIV data ^b		No
Case-linked data-reporting		No
Cases with DST results	67	(1.5%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low–high]	32	[23-41]
Pulmonary RR/MDR-TB cases notified	47	(100.0%)
of which pre-XDR-TB cases	8	(19.5%)
Notified RR/MDR-TB	66	-
of which pre-XDR-TB cases	8	(12.1%)
TB 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.

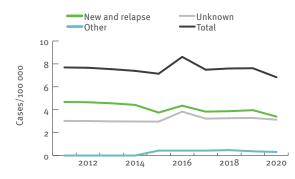
Treatment outcome monitoring

Geographical coverage	Nat	ional		
Outcome cohort	New culture-positive pulmonary TB cases notified in 2019 ^a All RR/MDR-TB			
Case-linked data-reporting	Yes -		-	
Cases notified	726		82	
Success	129	(17.8%)	3	(3.7%)
Died	15	(2.1%)	1	(1.2%)
Failed	0	(0.0%)	0	(0.0%)
Lost to follow-up	6	(0.8%)	1	(1.2%)
Still on treatment	4	(0.6%)	0	(0.0%)
Not evaluated	572	(78.8%)	77	(93.9%)

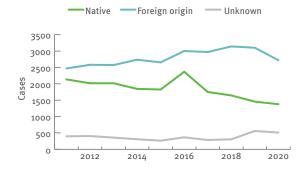
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

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

TB notification rates by previous treatment history, 2011–2020



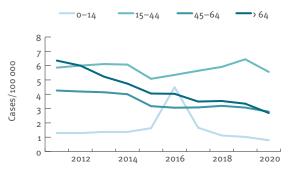
TB cases by geographical origin, 2011-2020



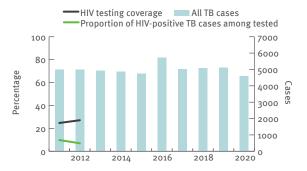
RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020

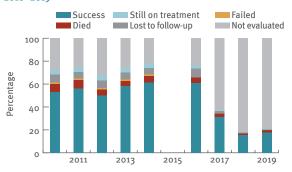


New and relapse TB cases – notification rates by age group, 2011–2020



TB/HIV coinfection, 2011–2020





Treatment outcome monitoring

Georgia

Total population estimate 2020 by United Nations Statistical Database: 3 989 175

TB cases, 2020

Notifications Total number of cases 1842 Notification rate per 100000 46.2 New^a and relapse 1671 New^a and relapse notification rate per 100 000 41.9 Pulmonary (80.1%) 1 4 7 5 of which microscopy-positive of which laboratory-confirmed 1370 (92.9%) Laboratory-confirmed TB cases 42.9 years Mean age of new native TB cases Mean age of new foreign TB cases Foreign origin of all TB cases New (not previously treated) 1484 (80.6%) Estimates Estimated new and relapse cases 2800 [2 300-3 300] N, best [low-high]

Drug resistance surveillance and TB/HIV coinfection, 2020 Completeness of DRS data^a Yes Completeness of HIV data^t Yes Case-linked data-reporting Yes Cases with DST results Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]

^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.

Pulmonary RR/MDR-TB cases

of which pre-XDR-TB cases

of which pre-XDR-TB cases

TB cases tested for HIV

HIV-positive TB cases

of these on ART

Notified RR/MDR-TB

notified

Yes		Outcome cohort	TB case	s notified
1 355	(98.9%)	Case-linked data-reporting	Ŷ	'es
190 [170-220]		Cases notified	1947	
		Success	1659	(85.2%)
191	191 (14.1%)	Died	74	(3.8%)
191		Failed	46	(2.4%)
50	(28.9%)	Lost to follow-up	97	(5.0%)
202	-	Not evaluated	71	(3.6%)

(25.7%)

(89.3%)

(1.9%)

(100.0%)

52

1493

29

29

Geographical

coverage

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

National

New and relapse

RR/MDR-TB cases enrolled into DR-TB

treatment in 2018t

230

(67.4%)

(5.7%)

(5.7%)

(14.8%)

(6.5%)

155

13

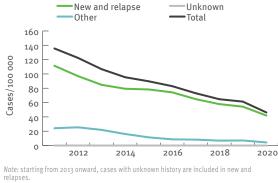
13

34

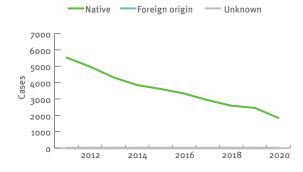
15

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

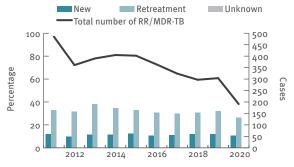
TB notification rates by previous treatment history, 2011–2020



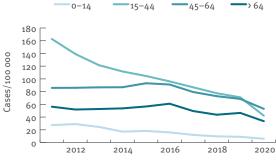
TB cases by geographical origin, 2011-2020



RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020

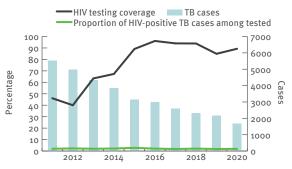


New and relapse TB cases - notification rates by age group, 2011-2020



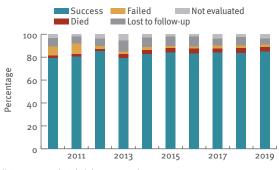
Note: data up to 2012 include new TB cases only

TB/HIV coinfection, 2011-2020



Note: data up to 2014 include all TB cases

Treatment outcome, new and relapse TB cases, 2010-2019



Note: 2010-2011 cohorts include new cases only.

Germany

Total population at 9 April 2021 by EUROSTAT: 83 166 711

TB cases, 2020

Notifications Total number of cases 4127 Notification rate per 100000 5.0 New^a and relapse 4 0 1 0 New^a and relapse notification rate per 100 000 4.8 Pulmonary 2 903 (70.3%) of which microscopy-positive (53.3%) 1 547 of which laboratory-confirmed 2 4 6 8 (85.0%) Laboratory-confirmed TB cases 3 259 (79.0%) Mean age of new native TB cases 52.0 years Mean age of new foreign TB cases 37.6 years Foreign origin of all TB cases 2 817 (68.3%) New (not previously treated) (66.0%) 2725 Estimates Estimated new and relapse cases N, 4 600 [3 900-5 300] best [low-high]

Drug resistance surveillance and TB/HIV coinfection, 2020

Completeness of DRS data ^a	Yes		
Completeness of HIV data ^b	I	No	
Case-linked data-reporting	Yes		
Cases with DST results	2 865	-	
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low–high]	92	[46-140]	
Pulmonary RR/MDR-TB cases notified	69	(3.1%)	
of which pre-XDR-TB cases	10	(21.3%)	
Notified RR/MDR-TB	94	-	
of which pre-XDR-TB cases	13	(13.8%)	
TB 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.

Geographical National

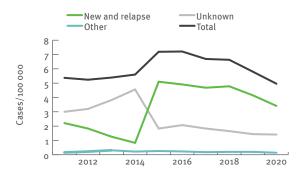
Treatment outcome monitoring

coverage	Indi	IUIIal		
Outcome cohort	New culture-positive pulmonary TB cases notified in 2019ª			DR-TB cases d in 2018 ⁶
Case-linked data-reporting	Yes			-
Cases notified	2 0 0 9			134
Success	1 4 2 6	(71.0%)	83	(61.9%)
Died	174	(8.7%)	4	(3.0%)
Failed	2	(0.1%)	1	(0.7%)
Lost to follow-up	39	(1.9%)	4	(3.0%)
Still on treatment	63	(3.1%)	12	(9.0%)
Not evaluated	305	(15.2%)	30	(22.4%)

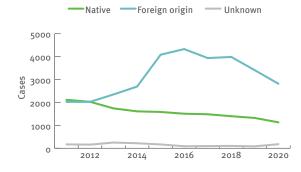
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

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

TB notification rates by previous treatment history, 2011–2020



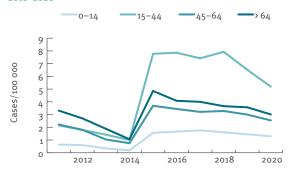
TB cases by geographical origin, 2011–2020



RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020

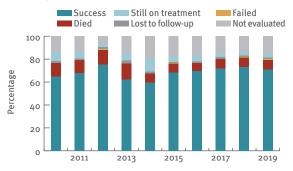


New and relapse TB cases – notification rates by age group, 2011–2020



TB/HIV coinfection, 2011–2020

Data not reported



Greece

Total population at 9 April 2021 by EUROSTAT: 10 718 565

TB cases, 2020

Notifications		
Total number of cases		396
Notification rate per 100000		3.7
New ^a and relapse		380
New ^a and relapse notification rate per 100 000		3.5
Pulmonary	324	(81.8%)
of which microscopy-positive	206	(63.6%)
of which laboratory-confirmed	299	(92.3%)
Laboratory-confirmed TB cases	361	(91.2%)
Mean age of new native TB cases	58	.0 years
Mean age of new foreign TB cases	31	.2 years
Foreign origin of all TB cases	240	(60.6%)
New (not previously treated)	338	(85.4%)
Estimates		
Estimated new and relapse cases N, best [low-high]	470	[400-550]

Drug resistance surveillance and TB/HIV coinfection, 2020

Completeness of DRS data ^a	Yes	
Completeness of HIV data ^b	,	Yes
Case-linked data-reporting	,	Yes
Cases with DST results	348	(96.4%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low–high]	6	[0-16]
Pulmonary RR/MDR-TB cases notified	7	(2.4%)
of which pre-XDR-TB cases	0	-
Notified RR/MDR-TB	12	-
of which pre-XDR-TB cases	0	-
TB cases tested for HIV	396	(100.0%)
HIV-positive TB cases	17	(4.3%)
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.

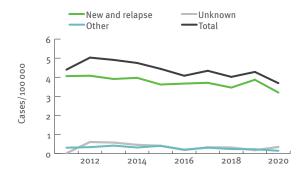
Treatment outcome monitoring

Geographical coverage	Nati	onal		
Outcome cohort	pulmonar	re-positive y TB cases in 2019ª	All RR/MD notified	R-TB cases in 2018 ⁶
Case-linked data-reporting	Yes		-	_
Cases notified	2	212		6
Success	-	-	-	-
Died	-	-	-	-
Failed	-	-	-	-
Lost to follow-up	-	-	-	-
Still on treatment	-	-	-	-
Not evaluated	-	-	-	-

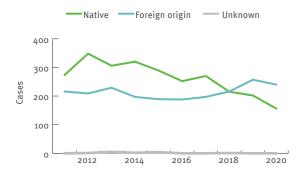
^a Treatment outcome as presented is treatment outcome after 12 months.
^b Treatment outcome as presented is treatment outcome after 24 months.

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

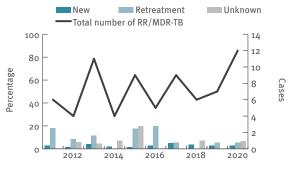
TB notification rates by previous treatment history, 2011–2020



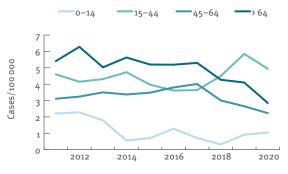
TB cases by geographical origin, 2011–2020



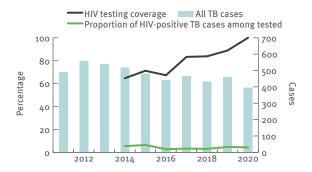
RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020



New and relapse TB cases – notification rates by age group, 2011–2020



TB/HIV coinfection, 2011–2020



Treatment outcome, new culture-confirmed pulmonary TB cases, 2010-2019

Data not reported

Hungary

Total population at 9 April 2021 by EUROSTAT: 9 769 526

TB cases, 2020

Notifications		
Total number of cases		406
Notification rate per 100 000		4.2
New ^a and relapse		384
New ^a and relapse notification rate per 100 000		3.9
Pulmonary	388	(95.6%)
of which microscopy-positive	125	(32.2%)
of which laboratory-confirmed	196	(50.5%)
Laboratory-confirmed TB cases	197	(48.5%)
Mean age of new native TB cases	52	.6 years
Mean age of new foreign TB cases	34	.4 years
Foreign origin of all TB cases	19	(4.7%)
New (not previously treated)	359	(88.4%)
Estimates		
Estimated new and relapse cases N, best [low-high]	440	[380-510]

Drug resistance surveillance and TB/HIV coinfection, 2020

Completeness of DRS data ^a	Yes		
Completeness of HIV data ^b	No		
Case-linked data-reporting	Yes		
Cases with DST results	177	(89.8%)	
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low–high]	13	[6-21]	
Pulmonary RR/MDR-TB cases notified	11	(6.3%)	
of which pre-XDR-TB cases	0	-	
Notified RR/MDR-TB	11	-	
of which pre-XDR-TB cases	0	-	
TB cases tested for HIV	18	(4.4%)	
HIV-positive TB cases	2	(11.1%)	
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.

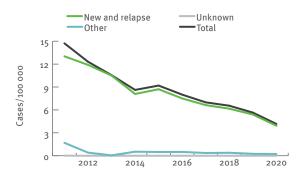
Treatment outcome monitoring

Geographical coverage	Na	tional		
Outcome cohort	pulmona	ure-positive ry TB cases d in 2019ª		DR-TB cases d in 2018 ⁶
Case-linked data-reporting	Yes			-
Cases notified		255		13
Success	151	(59.2%)	6	(46.2%)
Died	42	(16.5%)	3	(23.1%)
Failed	6	(2.4%)	0	(0.0%)
Lost to follow-up	33	(12.9%)	0	(0.0%)
Still on treatment	10	(3.9%)	1	(7.7%)
Not evaluated	13	(5.1%)	3	(23.1%)

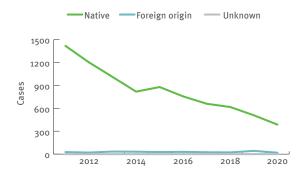
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

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

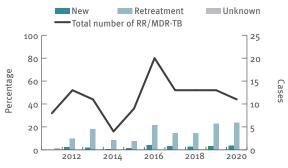
TB notification rates by previous treatment history, 2011–2020



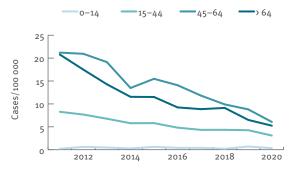
TB cases by geographical origin, 2011-2020



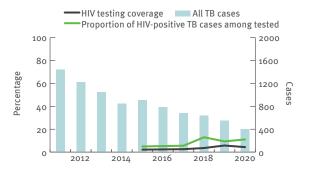
RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020

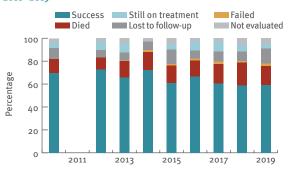


New and relapse TB cases – notification rates by age group, 2011–2020



TB/HIV coinfection, 2011–2020





Iceland

Total population at 9 April 2021 by EUROSTAT: 364 134

TB cases, 2020

Notifications		
Total number of cases		12
Notification rate per 100000		3.3
New ^a and relapse		12
New ^a and relapse notification rate per 100 000		3.3
Pulmonary	8	(66.7%)
of which microscopy-positive	2	(25.0%)
of which laboratory-confirmed	5	(62.5%)
Laboratory-confirmed TB cases	6	(50.0%)
Mean age of new native TB cases		-
Mean age of new foreign TB cases		-
Foreign origin of all TB cases	11	(91.7%)
New (not previously treated)	12	(100.0%)
Estimates		
Estimated new and relapse cases N, best [low-high]	10	[8-11]

Drug resistance surveillance and TB/HIV coinfection, 2020

,		
Completeness of DRS data ^a	Yes	
Completeness of HIV data ^b	No	
Case-linked data-reporting	Yes	
Cases with DST results	6	(100.0%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low–high]	0	[0-3]
Pulmonary RR/MDR-TB cases notified	0	(0.0%)
of which pre-XDR-TB cases	0	-
Notified RR/MDR-TB	0	-
of which pre-XDR-TB cases	0	-
TB 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.

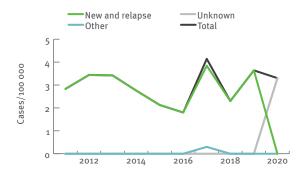
Treatment outcome monitoring

Geographical coverage	Na	tional		
Outcome cohort	pulmona	ure-positive ary TB cases ed in 2019ª	All RR/MD notified	R-TB cases in 2018 ⁶
Case-linked data-reporting	Yes		-	_
Cases notified	4		()
Success	4	(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%)	-	-

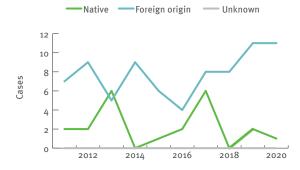
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

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

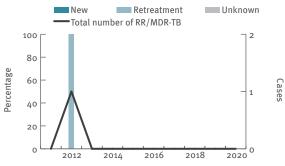
TB notification rates by previous treatment history, 2011–2020



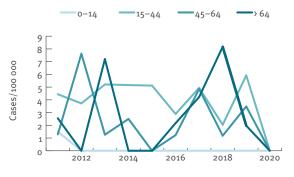
TB cases by geographical origin, 2011–2020



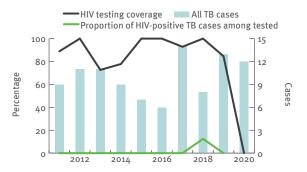
RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020

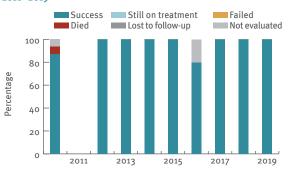


New and relapse TB cases – notification rates by age group, 2011–2020



TB/HIV coinfection, 2011–2020





Ireland

Total population at 9 April 2021 by EUROSTAT: 4 964 440

TB cases, 2020

Notifications		
Total number of cases		240
Notification rate per 100000		4.8
New ^a and relapse		229
New ^a and relapse notification rate per 100 000		4.6
Pulmonary	126	(52.5%)
of which microscopy-positive	51	(40.5%)
of which laboratory-confirmed	103	(81.7%)
Laboratory-confirmed TB cases	170	(70.8%)
Mean age of new native TB cases	57	.8 years
Mean age of new foreign TB cases	35	.6 years
Foreign origin of all TB cases	108	(45.0%)
New (not previously treated)	114	(47.5%)
Estimates		
Estimated new and relapse cases N, best [low-high]	260	[230-300]

Drug resistance surveillance and TB/HIV coinfection, 2020

Completeness of DRS data ^a	,	Yes
Completeness of HIV data ^b	No	
Case-linked data-reporting	Yes	
Cases with DST results	101	(59.4%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low–high]	1	[0-5]
Pulmonary RR/MDR-TB cases notified	0	(0.0%)
of which pre-XDR-TB cases	0	-
Notified RR/MDR-TB	1	-
of which pre-XDR-TB cases	0	(0.0%)
TB cases tested for HIV	84	(35.0%)
HIV-positive TB cases	3	(3.6%)
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.

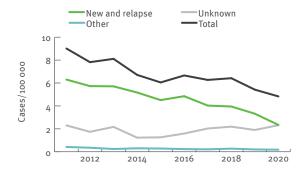
Treatment outcome monitoring

Geographical coverage	Na	tional		
Outcome cohort	pulmona	ure-positive ry TB cases d in 2019ª		DR-TB cases d in 2018 ⁶
Case-linked data-reporting		Yes		-
Cases notified		98		8
Success	5	(5.1%)	1	(12.5%)
Died	3	(3.1%)	1	(12.5%)
Failed	0	(0.0%)	0	(0.0%)
Lost to follow-up	0	(0.0%)	1	(12.5%)
Still on treatment	0	(0.0%)	0	(0.0%)
Not evaluated	90	(91.8%)	5	(62.5%)

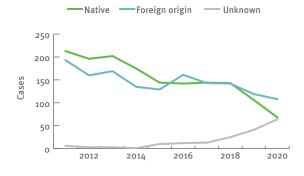
^a Treatment outcome as presented is treatment outcome after 12 months.
^b Treatment outcome as presented is treatment outcome after 24 months.

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

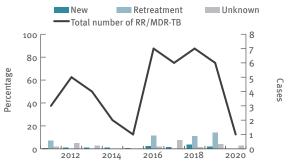
TB notification rates by previous treatment history, 2011–2020



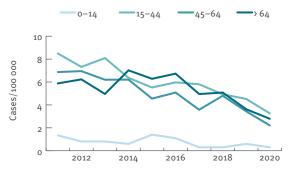
TB cases by geographical origin, 2011-2020



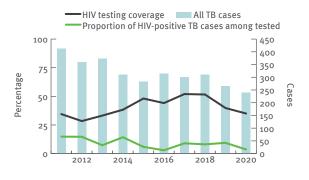
RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020

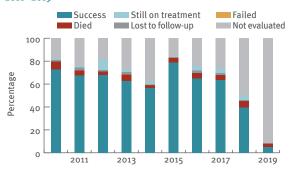


New and relapse TB cases – notification rates by age group, 2011–2020



TB/HIV coinfection, 2011–2020





Israe

Total population estimate 2020 by United Nations Statistical Database: 8 655 541

TB cases, 2020

Notifications			
Total number of cases		158	
Notification rate per 100000	1.8		
New ^a and relapse	158		
New ^a and relapse notification rate per 100 000	1.8		
Pulmonary	113	(71.5%)	
of which microscopy-positive			
of which laboratory-confirmed	90	(79.6%)	
Laboratory-confirmed TB cases	-	-	
Mean age of new native TB cases	44.6 years		
Mean age of new foreign TB cases		-	
Foreign origin of all TB cases	134	(84.8%)	
New (not previously treated)	156	(98.7%)	
Estimates			
Estimated new and relapse cases N, best [low-high]	180	[160-210]	

Drug resistance surveillance and TB/HIV coinfection, 2020

Completeness of DRS data ^a		Yes
Completeness of HIV data ^b		Yes
Case-linked data-reporting	Yes	
Cases with DST results	90	(100.0%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	5	[1-9]
Pulmonary RR/MDR-TB cases notified	5	(5.6%)
of which pre-XDR-TB cases	1	(20.0%)
Notified RR/MDR-TB	5	-
of which pre-XDR-TB cases	1	(20.0%)
TB cases tested for HIV	158	(100.0%)
HIV-positive TB cases	15	(9.5%)
of these on ART	15	(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.

Goographical

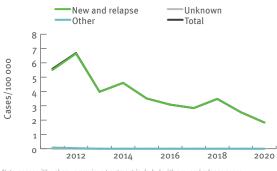
Treatment outcome monitoring

TB case	id relapse is notified		R-TB cases
in 2	2019 ^a		l into DR-TB nt in 2018 ⁶
Yes			-
Ĩ	217		14
182	(83.9%)	9	(64.3%)
14	(6.5%)	2	(14.3%)
2	(0.9%)	0	(0.0%)
6	(2.8%)	2	(14.3%)
13	(6.0%)	1	(7.1%)
	182 14 2 6	in 2019 ^a Yes 217 182 (83.9%) 14 (6.5%) 2 (0.9%) 6 (2.8%)	in 2019 ^a treatme Yes 217 182 (83.9%) 9 14 (6.5%) 2 2 (0.9%) 0 6 (2.8%) 2

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

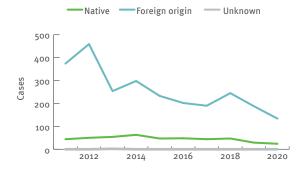
^a Cases with unknown previous TB history included in new cases.

TB notification rates by previous treatment history, 2011–2020

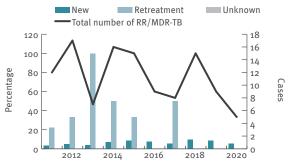


Note: cases with unknown previous treatment included with new and relapse cases.

TB cases by geographical origin, 2011-2020



RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020

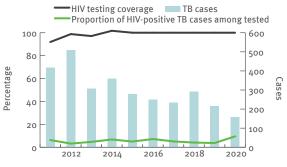


New and relapse TB cases – notification rates by age group, 2011-2020



Note: data up to 2012 include new TB cases only

TB/HIV coinfection, 2011–2020



Note: data up to 2014 includes all TB cases.

Treatment outcome, new and relapse TB cases, 2010-2019



Note: 2010-2011 cohorts include new cases only.

All RR/MDR-TB cases

notified in 2018^b

49

Italy

Total population at 9 April 2021 by EUROSTAT: 59 641 488

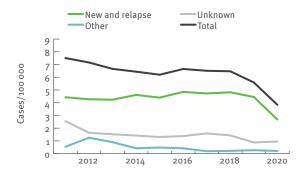
TB cases, 2020

Notifications

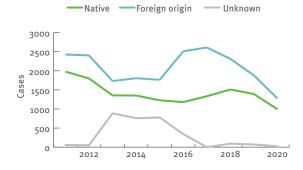
Notifications			
Total number of cases		2 287	
Notification rate per 100 000	3.8		
New ^a and relapse	2 163		
New ^a and relapse notification rate per 100 000	3.6		
Pulmonary	1643	(71.8%)	
of which microscopy-positive	725	(44.1%)	
of which laboratory-confirmed	0	(0.0%)	
Laboratory-confirmed TB cases	1490	(65.2%)	
Mean age of new native TB cases	5	3.3 years	
Mean age of new foreign TB cases	3	6.9 years	
Foreign origin of all TB cases	1 27 3	(55.7%)	
New (not previously treated)	1597	(69.8%)	
Estimates			
Estimated new and relapse cases N, best [low-high]	4 0 0 0	[3 400-4 600]	

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

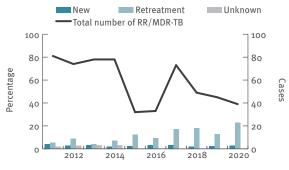
TB notification rates by previous treatment history, 2011–2020



TB cases by geographical origin, 2011-2020



RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020



Drug resistance surveillance and TB/HIV coinfection, 2020

Completeness of DRS data ^a	No	
Completeness of HIV data ^b	No	
Case-linked data-reporting	No	
Cases with DST results	1009	(67.7%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low–high]	42	[31-53]
Pulmonary RR/MDR-TB cases notified	39	(3.3%)
of which pre-XDR-TB cases	8	(21.6%)
Notified RR/MDR-TB	39	-
of which pre-XDR-TB cases	-	-
TB cases tested for HIV	-	-
HIV-positive TB cases	-	-
of these on ART	-	-

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

New and relapse TB cases – notification rates by age group, 2011–2020

Treatment outcome monitoring

National New culture-positive pulmonary TB cases notified in 2019ª

Yes

1534

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

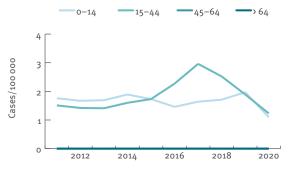
Geographical coverage

Outcome cohort

Case-linked

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

data-reporting Cases notified



TB/HIV coinfection, 2011-2020

Data not reported

Treatment outcome, new culture-confirmed pulmonary TB cases, 2010-2019

Data not reported

Kazakhstan

Total population estimate 2020 by United Nations Statistical Database: 18 776 707

TB cases, 2020

Notifications		
Total number of cases		10 020
Notification rate per 100 000		53.4
New ^a and relapse		9 603
New ^a and relapse notification rate per 100 000		51.1
Pulmonary	9 051	(90.3%)
of which microscopy-positive	-	-
of which laboratory-confirmed	7 0 8 4	(78.3%)
Laboratory-confirmed TB cases	-	-
Mean age of new native TB cases	L	2.9 years
Mean age of new foreign TB cases		-
Foreign origin of all TB cases	178	(1.8%)
New (not previously treated)	6 934	(69.2%)
Estimates		
Estimated new and relapse cases N, best [low-high]	13 000	[8 400-19 000]

Drug resistance surveille coinfection, 2020	ance an	d TB/HIV
Completeness of DRS data ^a		No
Completeness of HIV data ^b		Yes
Case-linked data-reporting		Yes
Cases with DST results	7 074	(99.9%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	2 900	[2 800-2 900]
Pulmonary RR/MDR-TB cases notified	2 859	(40.4%)
of which pre-XDR-TB cases	399	(14.0%)
Notified RR/MDR-TB	4 307	-
of which pre-XDR-TB cases	1193	(27.7%)
TB cases tested for HIV	9 4 4 0	(98.3%)
HIV-positive TB cases	614	(6.5%)
of these on ART	592	(96.4%)

^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.

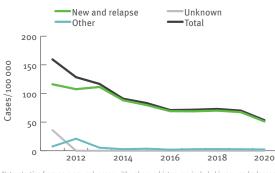
Treatment outcome monitoring

Geographical coverage	Nat	ional		
Outcome cohort	TB case	d relapse s notified 2019ª	enrolled	TB cases into DR-TB it in 2018 ^b
Case-linked data-reporting	Y	Yes		-
Cases notified	7	7 429		336
Success	6704	(90.2%)	3 499	(80.7%)
Died	432	(5.8%)	408	(9.4%)
Failed	186	(2.5%)	182	(4.2%)
Lost to follow-up	107	(1.4%)	216	(5.0%)
Not evaluated	0	(0.0%)	31	(0.7%)

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

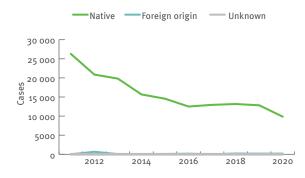
^a Cases with unknown previous TB history included in new cases.

TB notification rates by previous treatment history, 2011–2020

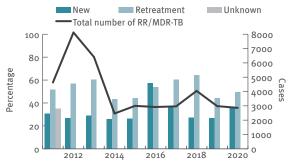


Note: starting from 2013 onward, cases with unknown history are included in new and relapses.

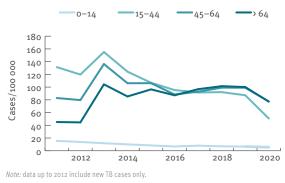
TB cases by geographical origin, 2011-2020



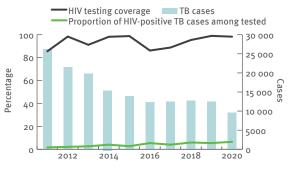
RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020



New and relapse TB cases – notification rates by age group, 2011–2020

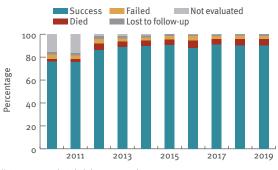


TB/HIV coinfection, 2011–2020



Note: data up to 2014 include all TB cases.

Treatment outcome, new and relapse TB cases 2010-2019



Note: 2010–2011 cohorts include new cases only.

Kyrgyzstan

ate 2020 by United Nations Statistical Database: 6 524 191 Total n nulation acti

TB cases, 2020

Notifications			
Total number of cases		4 885	
Notification rate per 100 000		74.9	
New ^a and relapse	4 241		
New ^a and relapse notification rate per 100 000	65.0		
Pulmonary	3 992	(81.7%)	
of which microscopy-positive	-	-	
of which laboratory-confirmed	2 6 3 5	(66.0%)	
Laboratory-confirmed TB cases	-	-	
Mean age of new native TB cases	4	1.6 years	
Mean age of new foreign TB cases		-	
Foreign origin of all TB cases	0	(0.0%)	
New (not previously treated)	3 534	(72.3%)	
Estimates			
Estimated new and relapse cases N, best [low-high]	6900	[5 800-8 000]	

Drug resistance surveillance and TB/HIV coinfection, 2020

,			
Completeness of DRS data ^a		Yes	
Completeness of HIV data ^b	Yes		
Case-linked data-reporting	Yes		
Cases with DST results	2 439	(92.6%)	
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	940	[890-990]	
Pulmonary RR/MDR-TB cases notified	870	(35.7%)	
of which pre-XDR-TB cases	149	(17.1%)	

Notified RR/MDR-TB 1038 (14 4%) of which pre-XDR-TB cases 149 TB cases tested for HIV 4 0 0 7 (94.5%) HIV-positive TB cases 131 (3.3%) of these on ART 88 (67.2%)

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

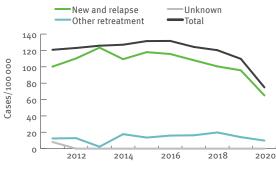
Treatment outcome monitoring Goog anhical

Nat	ional		
New and relapse TB cases notified in 2019ª		RR/MDR TB case enrolled into DR- treatment in 201	
Y	'es		-
5	110	1	244
4 155	(81.3%)	775	(62.3%)
328	(6.4%)	122	(9.8%)
112	(2.2%)	97	(7.8%)
481	(9.4%)	249	(20.0%)
34	(0.7%)	1	(0.1%)
	New an TB case in 2 5 4 155 328 112 481	TB cases notified in 2019 ^a Yes 5 110 4 155 (81.3%) 3 28 (6.4%) 112 (2.2%) 4 81 (9.4%)	New and relapse TB cases notified in 2019 ³ RR/MDI enrolled treatme Yes 1 4 155 (81.3%) 775 328 (6.4%) 122 112 (2.2%) 97 481 (9.4%) 249

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

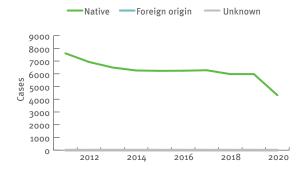
^a Cases with unknown previous TB history included in new cases.

TB notification rates by previous treatment history, 2011–2020



Note: starting from 2013 onward, cases with unknown history are included in new and relapses.

TB cases by geographical origin, 2011-2020



RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020

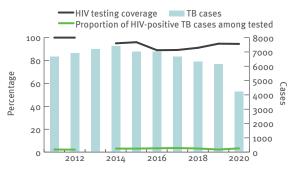


New and relapse TB cases - notification rates by age group, 2011-2020



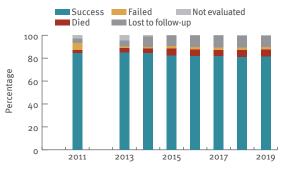
Note: data up to 2012 include new TB cases only.

TB/HIV coinfection, 2011-2020



Note: data up to 2014 include all TB cases

Treatment outcome, new and relapse TB cases, 2010-2019



Note: 2010-2011 cohorts include new cases only.

Total population at 9 April 2021 by EUROSTAT: 1907 675

TB cases, 2020

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]	430	[370-500]

Drug resistance surveillance and TB/HIV coinfection, 2020

Completeness of DRS data ^a	N	0
Completeness of HIV data ^b	N	0
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 RR/MDR-TB cases notified	-	-
of which pre-XDR-TB cases	-	-
Notified RR/MDR-TB	-	-
of which pre-XDR-TB cases	-	-
TB 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.

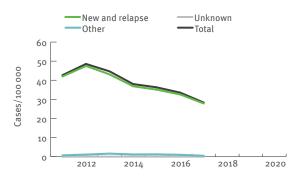
Treatment outcome monitoring

Geographical coverage	Nati	onal		
Outcome cohort	New cultur pulmonar notified	/ TB cases	All RR/MD notified	R-TB cases in 2018 ⁶
Case-linked data-reporting	No		-	
Cases notified	(0)
Success	-	-	-	-
Died	-	-	-	-
Failed	-	-	-	-
Lost to follow-up	-	-	-	-
Still on treatment	-	-	-	-
Not evaluated	-	-	-	-

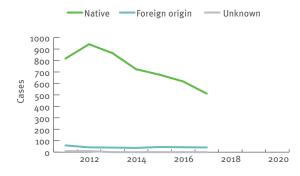
^a Treatment outcome as presented is treatment outcome after 12 months.
^b Treatment outcome as presented is treatment outcome after 24 months.

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

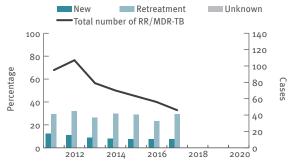
TB notification rates by previous treatment history, 2011–2020



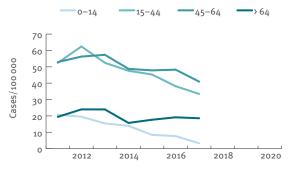
TB cases by geographical origin, 2011-2020



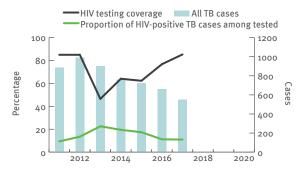
RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020

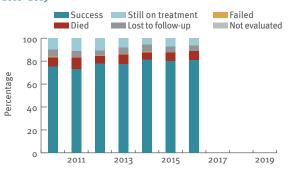


New and relapse TB cases – notification rates by age group, 2011–2020



TB/HIV coinfection, 2011-2020





2

Liechtenstein

Total population at 9 April 2021 by EUROSTAT: 38 747

TB cases, 2020

NOLITICALIOIIS
Total number of cases
Notification rate per 100000

New ^a and relapse		2	
New ^a and relapse notification rate per 100 000		5.2	
Pulmonary	0	(0.0%)	
of which microscopy-positive	0	-	
of which laboratory-confirmed	0	-	
Laboratory-confirmed TB cases	1	(50.0%)	
Mean age of new native TB cases		-	
Mean age of new foreign TB cases	76	76.0 years	
Foreign origin of all TB cases	2	(100.0%)	
New (not previously treated)	1	(50.0%)	
Estimates			
Estimated new and relapse cases N, best [low-high]	-	-	

Drug resistance surveillance and TB/HIV coinfection, 2020

Completeness of DRS data ^a	Yes	
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]	-	-
Pulmonary RR/MDR-TB cases notified	0	-
of which pre-XDR-TB cases	0	-
Notified RR/MDR-TB	0	-
of which pre-XDR-TB cases	0	-
TB 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.

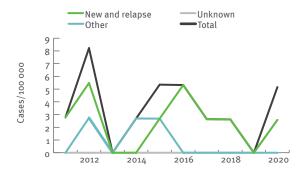
Treatment outcome monitoring

Geographical coverage	Nati	onal		
Outcome cohort	New culture-positive pulmonary TB cases notified in 2019ª		All RR/MDR-TB cas notified in 2018 ¹	
Case-linked data-reporting	Y	25	-	
Cases notified	()	0	
Success	-	-	-	-
Died	-	-	-	-
Failed	-	-	-	-
Lost to follow-up	-	-	-	-
Still on treatment	-	-	-	-
Not evaluated	-	-	-	-

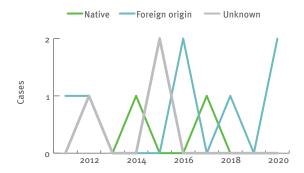
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

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

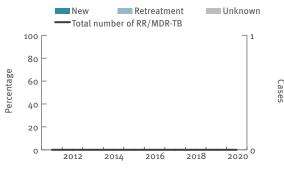
TB notification rates by previous treatment history, 2011–2020



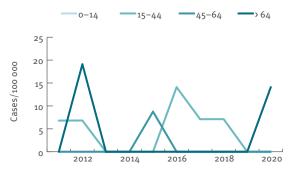
TB cases by geographical origin, 2011–2020



RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020

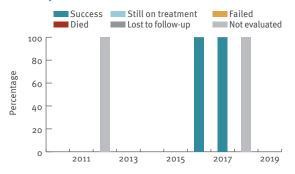


New and relapse TB cases – notification rates by age group, 2011–2020



TB/HIV coinfection, 2011–2020

Data not reported



thuania

Total population at 9 April 2021 by EUROSTAT: 2 794 090

TB cases, 2020

Notification	s
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Notifications			
Total number of cases		726	
Notification rate per 100000		26.0	
New ^a and relapse		688	
New ^a and relapse notification rate per 100 000	24.6		
Pulmonary	676	(93.1%)	
of which microscopy-positive	434	(64.2%)	
of which laboratory-confirmed	617	(91.3%)	
Laboratory-confirmed TB cases	635	(87.5%)	
Mean age of new native TB cases	49	9.9 years	
Mean age of new foreign TB cases	55	5.1 years	
Foreign origin of all TB cases	13	(1.8%)	
New (not previously treated)	591	(81.4%)	
Estimates			
Estimated new and relapse cases N, best [low-high]	790	[680-910]	

Drug resistance surveillance and TB/HIV coinfection, 2020

Completeness of DRS data ^a		Yes
Completeness of HIV data ^b	Yes	
Case-linked data-reporting	Yes	
Cases with DST results	635	(100.0%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low–high]	100	[86-120]
Pulmonary RR/MDR-TB cases notified	104	(16.9%)
of which pre-XDR-TB cases	34	(56.7%)
Notified RR/MDR-TB	105	-
of which pre-XDR-TB cases	34	(32.4%)
TB cases tested for HIV	714	(98.3%)
HIV-positive TB cases	20	(2.8%)
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.

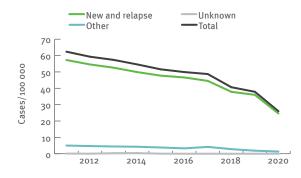
Treatment outcome monitoring

Geographical coverage	Nat	tional		
Outcome cohort Case-linked data-reporting	pulmona	New culture-positive pulmonary TB cases notified in 2019 ^a Yes		DR-TB cases d in 2018 ⁶
	١			-
Cases notified		725	.5 1	
Success	535	(73.8%)	103	(54.5%)
Died	75	(10.3%)	31	(16.4%)
Failed	13	(1.8%)	12	(6.3%)
Lost to follow-up	17	(2.3%)	20	(10.6%)
Still on treatment	84	(11.6%)	23	(12.2%)
Not evaluated	1	(0.1%)	0	(0.0%)

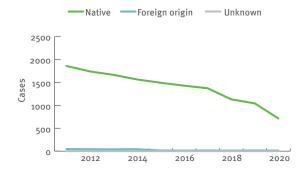
^a Treatment outcome as presented is treatment outcome after 12 months.
^b Treatment outcome as presented is treatment outcome after 24 months.

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

TB notification rates by previous treatment history, 2011–2020



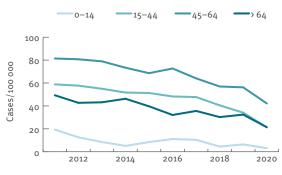
TB cases by geographical origin, 2011-2020



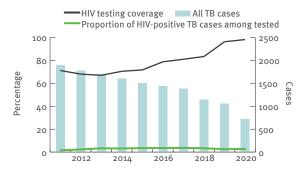
RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020

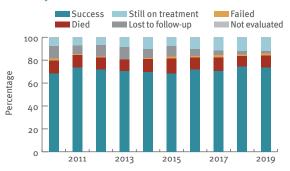


New and relapse TB cases – notification rates by age group, 2011-2020



TB/HIV coinfection, 2011-2020





Luxembourg

Total population at 9 April 2021 by EUROSTAT: 626 108

TB cases, 2020

Notifications			
Total number of cases		34	
Notification rate per 100000	5.4		
New ^a and relapse		32	
New ^a and relapse notification rate per 100 000	5.1		
Pulmonary	26	(76.5%)	
of which microscopy-positive	19	(73.1%)	
of which laboratory-confirmed	23	(88.5%)	
Laboratory-confirmed TB cases	28	(82.4%)	
Mean age of new native TB cases	43	.2 years	
Mean age of new foreign TB cases	34	.4 years	
Foreign origin of all TB cases	29	(85.3%)	
New (not previously treated)	28	(82.4%)	
Estimates			
Estimated new and relapse cases N, best [low-high]	37	[31-43]	

Drug resistance surveillance and TB/HIV coinfection, 2020

Completeness of DRS data ^a	Yes	
Completeness of HIV data ^b	Yes	
Case-linked data-reporting	Yes	
Cases with DST results	27	(96.4%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low–high]	0	[0-2]
Pulmonary RR/MDR-TB cases notified	0	(0.0%)
of which pre-XDR-TB cases	0	-
Notified RR/MDR-TB	0	-
of which pre-XDR-TB cases	0	-
TB cases tested for HIV	28	(82.4%)
HIV-positive TB cases	0	(0.0%)
of these on ART	0	-

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

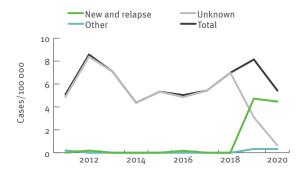
Treatment outcome monitoring

Geographical coverage	Na	tional			
Outcome cohort	pulmona	ure-positive ry TB cases d in 2019ª	All RR/MDR-TB cas notified in 2018		
Case-linked data-reporting	Yes			-	
Cases notified	21			1	
Success	8	(38.1%)	0	(0.0%)	
Died	0	(0.0%)	0	(0.0%)	
Failed	0	(0.0%)	0	(0.0%)	
Lost to follow-up	3	(14.3%)	0	(0.0%)	
Still on treatment	0	(0.0%)	0	(0.0%)	
Not evaluated	10	(47.6%)	1	(100.0%)	

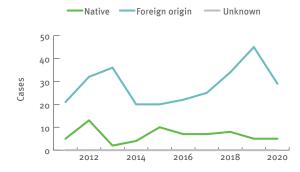
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

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

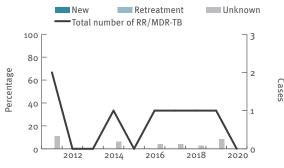
TB notification rates by previous treatment history, 2011–2020



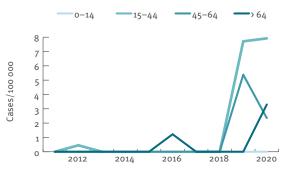
TB cases by geographical origin, 2011–2020



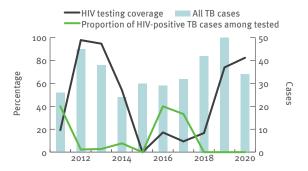
RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020

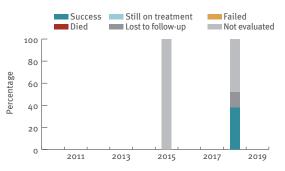


New and relapse TB cases – notification rates by age group, 2011–2020



TB/HIV coinfection, 2011–2020





Malta

Total population at 9 April 2021 by EUROSTAT: 514 564

TB cases, 2020

Notifications			
Total number of cases		140	
Notification rate per 100000	27.2		
New ^a and relapse	140		
New ^a and relapse notification rate per 100 000		27.2	
Pulmonary	99	(70.7%)	
of which microscopy-positive	29	(29.3%)	
of which laboratory-confirmed	27	(27.3%)	
Laboratory-confirmed TB cases	43	(30.7%)	
Mean age of new native TB cases	31	1.3 years	
Mean age of new foreign TB cases	25	5.1 years	
Foreign origin of all TB cases	137	(97.9%)	
New (not previously treated)	98	(70.0%)	
Estimates			
Estimated new and relapse cases N, best [low-high]	160	[140-190]	

Drug resistance surveillance and TB/HIV coinfection, 2020

,		
Completeness of DRS data ^a	Yes	
Completeness of HIV data ^b	No	
Case-linked data-reporting	Yes	
Cases with DST results	40	(93.0%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	0	[0-5]
Pulmonary RR/MDR-TB cases notified	0	(0.0%)
of which pre-XDR-TB cases	0	-
Notified RR/MDR-TB	0	-
of which pre-XDR-TB cases	0	-
TB 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.

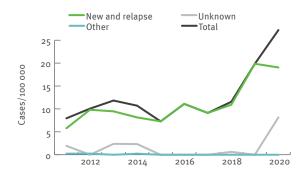
Treatment outcome monitoring

Geographical coverage	Nati	onal		
Outcome cohort	New culture-positive pulmonary TB cases notified in 2019 ^a All RR/MDR-T			
Case-linked data-reporting	Yes		-	
Cases notified	3	37		D
Success	-	-	-	-
Died	-	-	-	-
Failed	-	-	-	-
Lost to follow-up	-	-	-	
Still on treatment	-	-		
Not evaluated	-	-	-	-

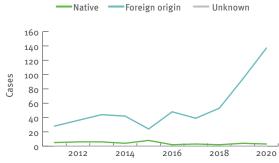
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

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

TB notification rates by previous treatment history, 2011–2020



TB cases by geographical origin, 2011–2020

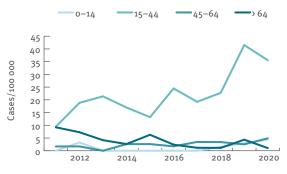


Note: by nationality for 2000–2006.

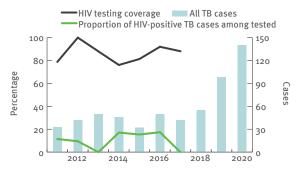
RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020

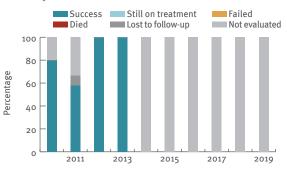


New and relapse TB cases – notification rates by age group, 2011–2020



TB/HIV coinfection, 2011–2020





Monaco

Total population estimate 2020 by United Nations Statistical Database: 39 244

TB cases, 2020

Notifications		
Total number of cases		0
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]	0	[0-0]

Drug resistance surveillance and TB/HIV

coinfection, 2020		
Completeness of DRS data ^a		No
Completeness of HIV data ^b		No
Case-linked data-reporting	No	
Cases with DST results	-	-
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	0	[0-0]
Pulmonary RR/MDR-TB cases notified	-	-
of which pre-XDR-TB cases	-	-
Notified RR/MDR-TB	-	-
of which pre-XDR-TB cases	-	-
TB cases tested for HIV	-	-
HIV-positive TB cases	-	-
of these on ART	-	-

Treatment outcome monitoring

Geographical coverage	National	
Outcome cohort	New and relapse TB cases notified in 2019ª	RR/MDR-TB cases enrolled into DR-TB treatment in 2018 ^b
Case-linked data-reporting	Yes	-
Cases notified	0	0
Success	-	-
Died	-	-
Failed	-	-
Lost to follow-up	-	-
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.

Other

1

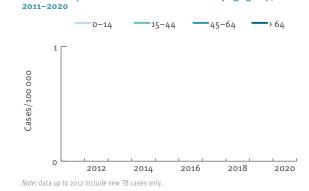
0

Cases/100 000

New and relapse

^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.

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



Note: starting from 2013 onward, cases with unknown history are included in new and relapses.

2016

2014

TB notification rates by previous treatment history, 2011–2020

-Unknown

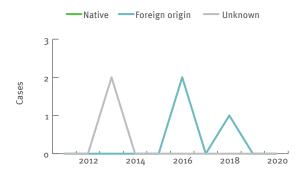
2018

2020

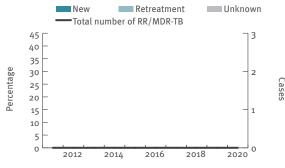
Total

TB cases by geographical origin, 2011-2020

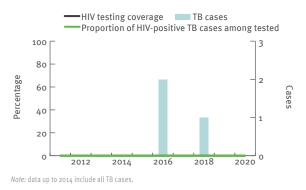
2012



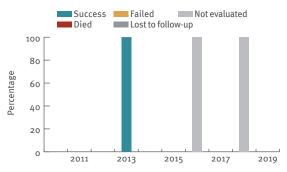
RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020



TB/HIV coinfection, 2011–2020



Treatment outcome, new and relapse TB cases, 2010-2019



Note: 2010–2011 cohorts include new cases only.

Montenegro

Total population estimate 2020 by United Nations Statistical Database: 628 062

TB cases, 2020

Notifications			
Total number of cases		40	
Notification rate per 100 000	6.4		
New ^a and relapse		40	
New ^a and relapse notification rate per 100 000		6.4	
Pulmonary	38	(95.0%)	
of which microscopy-positive	-	-	
of which laboratory-confirmed	31	(81.6%)	
Laboratory-confirmed TB cases	-	-	
Mean age of new native TB cases	48.0 years		
Mean age of new foreign TB cases		-	
Foreign origin of all TB cases	4	(10.0%)	
New (not previously treated)	38	(95.0%)	
Estimates			
Estimated new and relapse cases N, best [low-high]	99	[84-120]	

Drug resistance surveillance and TB/HIV

Completeness of DRS data ^a	Yes	
Completeness of HIV data ^b	Yes	
Case-linked data-reporting		Yes
Cases with DST results	31	(100.0%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low–high]	0	[0-2]
Pulmonary RR/MDR-TB cases notified	0	(0.0%)
of which pre-XDR-TB cases	-	-
Notified RR/MDR-TB	0	-
of which pre-XDR-TB cases	-	-
TB cases tested for HIV	35	(87.5%)
HIV-positive TB cases	0	(0.0%)
of these on ART	-	-

Treatment outcome monitoring

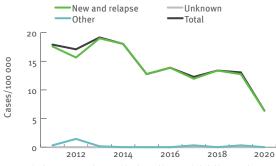
Geographical coverage	Na	tional		
Outcome cohort	New and relapse TB cases notified in 2019ª		enrolled	R-TB cases d into DR-TB ent in 2018 ^b
Case-linked data-reporting	Yes			-
Cases notified	82			1
Success	78	(95.1%)	1	(100.0%)
Died	4	(4.9%)	0	(0.0%)
Failed	0	(0.0%)	0	(0.0%)
Lost to follow-up	0	(0.0%)	0	(0.0%)
Not evaluated	0	(0.0%)	0	(0.0%)

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

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

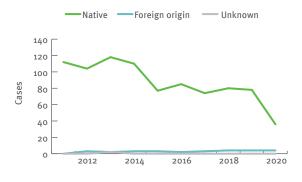
National coverage 100% or culturing ≥ 90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA ≥ 95%. ^b More than 50% of TB cases with reported HIV status.

TB notification rates by previous treatment history, 2011–2020

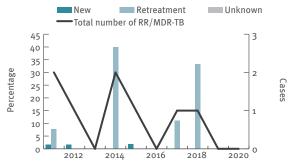


Note: starting from 2013 onward, cases with unknown history are included in new and relapses.

TB cases by geographical origin, 2011-2020



RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020

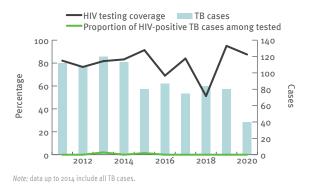


New and relapse TB cases – notification rates by age group, 2011–2020

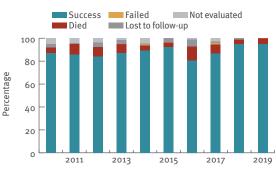


Note: data up to 2012 include new TB cases only.

TB/HIV coinfection, 2011–2020



Treatment outcome, new and relapse TB cases, 2010–2019



Note: 2010–2011 cohorts include new cases only.

Netherlands

Total population at 9 April 2021 by EUROSTAT: 17 407 585

TB cases, 2020

Notifications Total number of cases 623 Notification rate per 100000 36 New^a and relapse 614 New^a and relapse notification rate per 100 000 3.5 Pulmonary 334 (53.6%) of which microscopy-positive 166 (49.7%) of which laboratory-confirmed 264 (79.0%) Laboratory-confirmed TB cases 431 (69.2%) 45.8 years Mean age of new native TB cases Mean age of new foreign TB cases 39.1 years Foreign origin of all TB cases 451 (72.4%) New (not previously treated) 593 (95.2%) Estimates Estimated new and relapse cases N. 710 [600-820] best [low-high]

Drug-resistance surveillance and TB/HIV coinfection, 2020

Completeness of DRS data ^a	Yes	
Completeness of HIV data ^b	Yes	
Case-linked data-reporting	Yes	
Cases with DST results	401	(93.0%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	5	[0-9]
Pulmonary RR/MDR-TB cases notified	4	(1.6%)
of which pre-XDR-TB cases	0	(0.0%)
Notified RR/MDR-TB	12	-
of which pre-XDR-TB cases	0	(0.0%)
TB cases tested for HIV	489	(78.5%)
HIV-positive TB cases	14	(2.9%)
of these on ART	0	(0.0%)

^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.

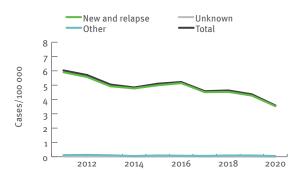
Treatment outcome monitoring

Geographical coverage	Nat	tional		
Outcome cohort			All RR/MDR-TB case notified in 2018 ^b	
Case-linked Yes data-reporting		Yes		-
Cases notified	321			6
Success	265	(82.6%)	5	(83.3%)
Died	18	(5.6%)	1	(16.7%)
Failed	0	(0.0%)	0	(0.0%)
Lost to follow-up	12	(3.7%)	0	(0.0%)
Still on treatment	7	(2.2%)	0	(0.0%)
Not evaluated	19	(5.9%)	0	(0.0%)

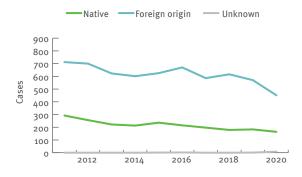
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

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

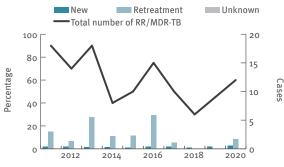
TB notification rates by previous treatment history, 2011–2020



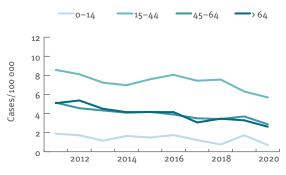
TB cases by geographical origin, 2011-2020



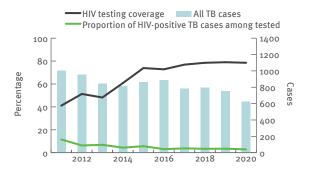
RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020

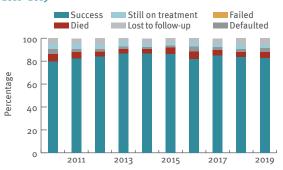


New and relapse TB cases – notification rates by age group, 2011-2020



TB/HIV coinfection, 2011–2020





North Macedonia

Total population estimate 2020 by United Nations Statistical Database: 2 083 380

TB cases, 2020

Notifications		
Total number of cases		148
Notification rate per 100000		7.1
New ^a and relapse		143
New ^a and relapse notification rate per 100 000		6.9
Pulmonary	126	(85.1%)
of which microscopy-positive	-	-
of which laboratory-confirmed	105	(83.3%)
Laboratory-confirmed TB cases	-	-
Mean age of new native TB cases	42	.9 years
Mean age of new foreign TB cases		-
Foreign origin of all TB cases	7	(4.7%)
New (not previously treated)	130	(87.8%)
Estimates		
Estimated new and relapse cases N, best [low-high]	250	[190-310]

Drug resistance surveillance and TB/HIV

coinfection, 2020			
Completeness of DRS data ^a	Yes		
Completeness of HIV data ^b	No		
Case-linked data-reporting		Yes	
Cases with DST results	91	(86.7%)	
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	2	[0-5]	
Pulmonary RR/MDR-TB cases notified	2	(2.2%)	
of which pre-XDR-TB cases	-	-	
Notified RR/MDR-TB	2	-	
of which pre-XDR-TB cases	0	(0.0%)	
TB cases tested for HIV	69	(48.3%)	
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.

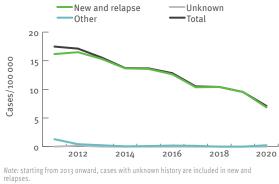
Treatment outcome monitoring

Geographical coverage	Na	tional		
Outcome cohort	New and relapse TB cases notified in 2019ª		RR/MDR TB case enrolled into DR- treatment in 201	
Case-linked data-reporting	Yes			-
Cases notified	199			2
Success	177	(88.9%)	1	(50.0%)
Died	9	(4.5%)	0	(0.0%)
Failed	2	(1.0%)	0	(0.0%)
Lost to follow-up	11	(5.5%)	1	(50.0%)
Not evaluated	0 (0.0%)		0	(0.0%)

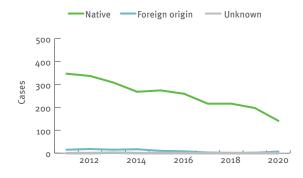
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

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

TB notification rates by previous treatment history, 2011–2020







RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020

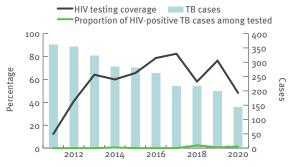


New and relapse TB cases – notification rates by age group, 2011–2020



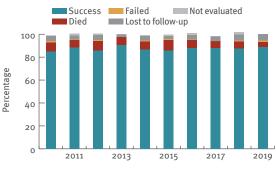
Note: data up to 2012 include new TB cases only.

TB/HIV coinfection, 2011-2020



Note: data up to 2014 include all TB cases

Treatment outcome, new and relapse TB cases, 2010-2019



Note: 2010-2011 cohorts include new cases only.

Norway

Total population at 9 April 2021 by EUROSTAT: 5 367 580

TB cases, 2020

Notifications			
Total number of cases	160		
Notification rate per 100000		3.0	
New ^a and relapse		144	
New ^a and relapse notification rate per 100 000		2.7	
Pulmonary	96	(60.0%)	
of which microscopy-positive	41	(42.7%)	
of which laboratory-confirmed	84	(87.5%)	
Laboratory-confirmed TB cases	133	(83.1%)	
Mean age of new native TB cases	4().8 years	
Mean age of new foreign TB cases	36	6.1 years	
Foreign origin of all TB cases	130	(81.3%)	
New (not previously treated)	144	(90.0%)	
Estimates			
Estimated new and relapse cases N, best [low-high]	170	[140-190]	

Drug resistance surveillance and TB/HIV coinfection, 2020

Completeness of DRS data ^a	Yes	
Completeness of HIV data ^b	,	Yes
Case-linked data-reporting	,	Yes
Cases with DST results	132	(99.2%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low–high]	2	[0-5]
Pulmonary RR/MDR-TB cases notified	2	(2.4%)
of which pre-XDR-TB cases	0	(0.0%)
Notified RR/MDR-TB	2	-
of which pre-XDR-TB cases	0	(0.0%)
TB cases tested for HIV	122	(76.3%)
HIV-positive TB cases	2	(1.6%)
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.

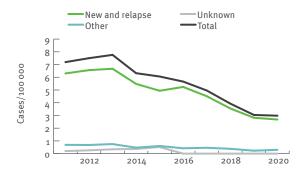
Treatment outcome monitoring

Geographical coverage	National			
Outcome cohort	New culture-positive pulmonary TB cases notified in 2019 ^a All RR/MDR-TI			
Case-linked data-reporting	Yes			-
Cases notified	86			6
Success	74	(86.0%)	5	(83.3%)
Died	3	(3.5%)	0	(0.0%)
Failed	0	(0.0%)	1	(16.7%)
Lost to follow-up	1	(1.2%)	0	(0.0%)
Still on treatment	1	(1.2%)	0	(0.0%)
Not evaluated	7	(8.1%)	0	(0.0%)

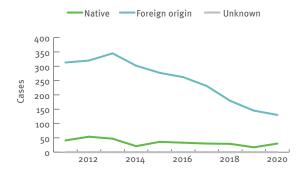
^a Treatment outcome as presented is treatment outcome after 12 months.
^b Treatment outcome as presented is treatment outcome after 24 months.

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

TB notification rates by previous treatment history, 2011–2020



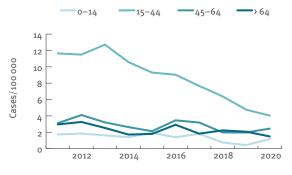
TB cases by geographical origin, 2011-2020



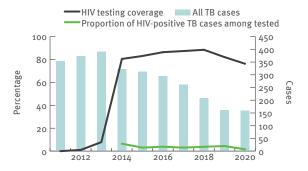
RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020

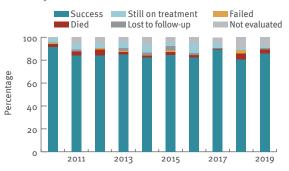


New and relapse TB cases – notification rates by age group, 2011–2020



TB/HIV coinfection, 2011–2020





Poland

Total population at 9 April 2021 by EUROSTAT: 37 958 138

TB cases, 2020

Total number of cases		3 388
Notification rate per 100 000		8.9
New ^a and relapse		3 150
New ^a and relapse notification rate per 100 000		8.3
Pulmonary	3 237	(95.5%)
of which microscopy-positive	1794	(55.4%)
of which laboratory-confirmed	2 57 3	(79.5%)
Laboratory-confirmed TB cases	2 6 5 5	(78.4%)
Mean age of new native TB cases	53.9 years	
Mean age of new foreign TB cases	36.	4 years
Foreign origin of all TB cases	116	(3.4%)
New (not previously treated)	2 912	(86.0%)
a		

Estimates

Estimated new and relapse cases N, 3600 [3100-4200] best [low-high]

Drug resistance surveillance and TB/HIV coinfection, 2020

Completeness of DRS data ^a	Yes	
Completeness of HIV data ^b	No	
Case-linked data-reporting	Yes	
Cases with DST results	2 4 2 1	(91.2%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low–high]	44	[30-58]
Pulmonary RR/MDR-TB cases notified	40	(1.7%)
of which pre-XDR-TB cases	12	(30.0%)
Notified RR/MDR-TB	42	-
of which pre-XDR-TB cases	13	(31.0%)
TB 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.

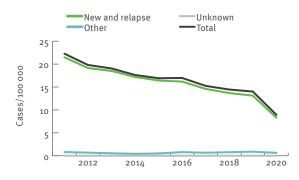
Treatment outcome monitoring

Geographical coverage	Nati	onal		
Outcome cohort	New culture-positive pulmonary TB cases notified in 2019ª		All RR/MD notified	R-TB cases in 2018 ⁶
Case-linked data-reporting	Yes		-	
Cases notified	3 4	3 466		8
Success	-	-	-	-
Died	-	-	-	-
Failed	-	-	-	-
Lost to follow-up	-	-	-	-
Still on treatment	-	-	-	-
Not evaluated	-	-	-	-

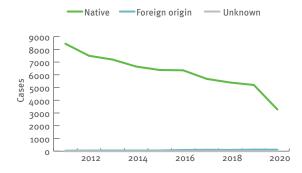
^a Treatment outcome as presented is treatment outcome after 12 months.
^b Treatment outcome as presented is treatment outcome after 24 months.

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

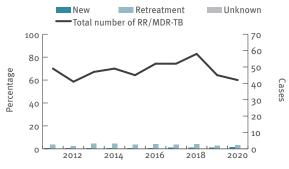
TB notification rates by previous treatment history, 2011–2020



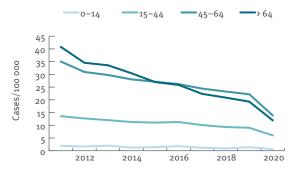
TB cases by geographical origin, 2011-2020



RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020

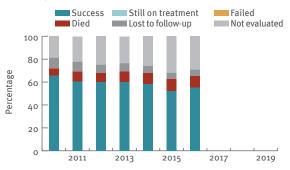


New and relapse TB cases – notification rates by age group, 2011–2020



TB/HIV coinfection, 2011–2020

Data not reported



Portugal

Total population at 9 April 2021 by EUROSTAT: 10 295 909

TB cases, 2020

Notifications			
Total number of cases	1 4 4 5		
Notification rate per 100 000		14.0	
New ^a and relapse		1402	
New ^a and relapse notification rate per 100 000	13.6		
Pulmonary	1007	(69.7%)	
of which microscopy-positive	556	(55.2%)	
of which laboratory-confirmed	724	(71.9%)	
Laboratory-confirmed TB cases	864	(59.8%)	
Mean age of new native TB cases	5	3.1 years	
Mean age of new foreign TB cases	3	8.2 years	
Foreign origin of all TB cases	393	(27.2%)	
New (not previously treated)	1 351	(93.5%)	
Estimates			
Estimated new and relapse cases N, best [low-high]	1600	[1400-1800]	

Drug resistance surveillance and TB/HIV coinfection, 2020

Completeness of DRS data ^a	Yes	
Completeness of HIV data ^b		
Case-linked data-reporting	Yes	
Cases with DST results	538	(62.3%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low–high]	12	[7-18]
Pulmonary RR/MDR-TB cases notified	7	(1.5%)
of which pre-XDR-TB cases	0	(0.0%)
Notified RR/MDR-TB	9	-
of which pre-XDR-TB cases	0	(0.0%)
TB cases tested for HIV	1087	(75.2%)
HIV-positive TB cases	111	(10.2%)
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.

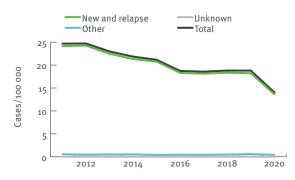
Treatment outcome monitoring

Geographical coverage	Nat	ional		
Outcome cohort	New culture-positive pulmonary TB cases notified in 2019 ^a Yes			DR-TB cases d in 2018 ^b
Case-linked data-reporting			-	
Cases notified	961			11
Success	696	(72.4%)	7	(63.6%)
Died	66	(6.9%)	0	(0.0%)
Failed	0	(0.0%)	0	(0.0%)
Lost to follow-up	27	(2.8%)	0	(0.0%)
Still on treatment	137	(14.3%)	2	(18.2%)
Not evaluated	35	(3.6%)	2	(18.2%)

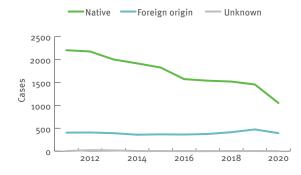
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

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

TB notification rates by previous treatment history, 2011–2020



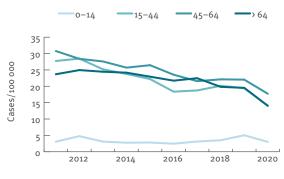
TB cases by geographical origin, 2011-2020



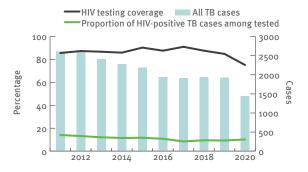
RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020

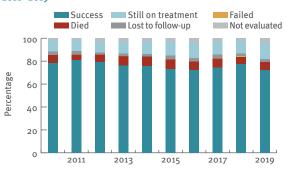


New and relapse TB cases – notification rates by age group, 2011–2020



TB/HIV coinfection, 2011–2020





Republic of Moldova

Total population estimate 2020 by United Nations Statistical Database: 4 033 963

TB cases, 2020

Notifications		
Total number of cases		1906
Notification rate per 100 000		47.2
New ^a and relapse		1767
New ^a and relapse notification rate per 100 000		43.8
Pulmonary	1 819	(95.4%)
of which microscopy-positive	-	-
of which laboratory-confirmed	1 2 6 1	(69.3%)
Laboratory-confirmed TB cases	-	-
Mean age of new native TB cases	4	4.2 years
Mean age of new foreign TB cases		-
Foreign origin of all TB cases	8	(0.4%)
New (not previously treated)	1386	(72.7%)
Estimates		
Estimated new and relapse cases N, best [low-high]	3 0 0 0	[2 500-3 500]

Drug resistance surveillance and TB/HIV

coinfection, 2020		
Completeness of DRS data ^a		No
Completeness of HIV data ^b		Yes
Case-linked data-reporting		Yes
Cases with DST results	1207	(95.7%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	430	[400-460]
Pulmonary RR/MDR-TB cases notified	413	(34.2%)
of which pre-XDR-TB cases	188	(45.5%)
Notified RR/MDR-TB	444	-
of which pre-XDR-TB cases	219	(49.3%)
TB cases tested for HIV	1693	(95.8%)
HIV-positive TB cases	219	(12.9%)
of these on ART	170	(77.6%)

^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.

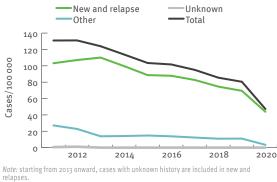
Treatment outcome monitoring

Geographical coverage	Nat	ional		
Outcome cohort	New and relapse TB cases notified in 2019ª		enrolled	R TB cases into DR-TB nt in 2018 ^b
Case-linked data-reporting	Yes		-	
Cases notified	2 215			921
Success	1854	(83.7%)	541	(58.7%)
Died	164	(7.4%)	98	(10.6%)
Failed	69	(3.1%)	111	(12.1%)
Lost to follow-up	116	(5.2%)	169	(18.3%)
Not evaluated	12	(0.5%)	2	(0.2%)

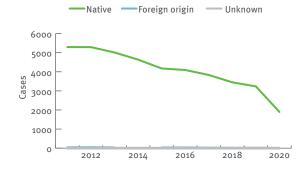
^a Treatment outcome as presented is treatment outcome after 12 months.
^b Treatment outcome as presented is treatment outcome after 24 months.

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

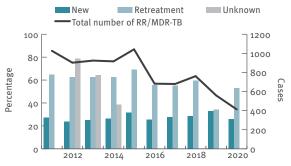
TB notification rates by previous treatment history, 2011–2020



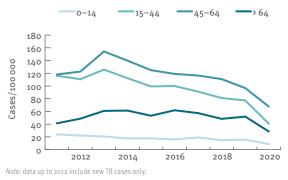
TB cases by geographical origin, 2011-2020



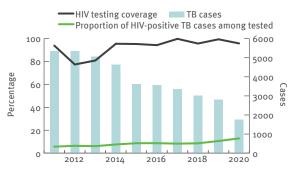
RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020



New and relapse TB cases – notification rates by age group, 2011–2020

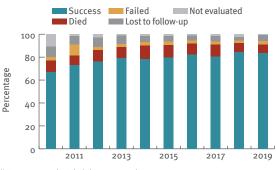


TB/HIV coinfection, 2011-2020



Note: data up to 2014 include all TB cases.

Treatment outcome, new and relapse TB cases, 2010-2019



Note: 2010-2011 cohorts include new cases only.

Ron

Total population at 9 April 2021 by EUROSTAT: 19 328 838

TB cases, 2020

Notifications			
Total number of cases		7 698	
Notification rate per 100000		39.8	
New ^a and relapse		7 193	
New ^a and relapse notification rate per 100 000		37.2	
Pulmonary	6 655	(86.5%)	
of which microscopy-positive	4 409	(66.3%)	
of which laboratory-confirmed	5 473	(82.2%)	
Laboratory-confirmed TB cases	5 6 9 7	(74.0%)	
Mean age of new native TB cases	4	45.7 years	
Mean age of new foreign TB cases	30.5 years		
Foreign origin of all TB cases	32	(0.4%)	
New (not previously treated)	6 019	(78.2%)	
Estimates			
Estimated new and relapse cases N, best [low-high]	12 000	[10 000-14 000]	

Drug resistance surveillance and TB/HIV coinfection, 2020

Completeness of DRS data ^a	Yes	
Completeness of HIV data ^b	Yes	
Case-linked data-reporting	Yes	
Cases with DST results	4 959	(87.0%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low–high]	290	[260-330]
Pulmonary RR/MDR-TB cases notified	244	(5.1%)
of which pre-XDR-TB cases	27	(11.1%)
Notified RR/MDR-TB	252	-
of which pre-XDR-TB cases	28	(11.1%)
TB cases tested for HIV	6 513	(84.6%)
HIV-positive TB cases	150	(2.3%)
of these on ART	0	(0.0%)

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.

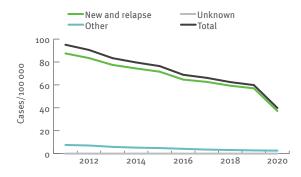
Treatment outcome monitoring

Geographical coverage	Nat	ional		
Outcome cohort	New culture-positive pulmonary TB cases notified in 2019 ^a Yes			
Case-linked data-reporting				
Cases notified	6 310		1	447
Success	5 2 3 2	(82.9%)	192	(43.0%)
Died	565	(9.0%)	87	(19.5%)
Failed	108	(1.7%)	81	(18.1%)
Lost to follow-up	275	(4.4%)	75	(16.8%)
Still on treatment	127	(2.0%)	12	(2.7%)
Not evaluated	3	(0.0%)	0	(0.0%)

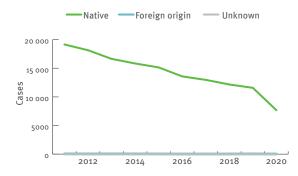
^a Treatment outcome as presented is treatment outcome after 12 months.
^b Treatment outcome as presented is treatment outcome after 24 months.

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

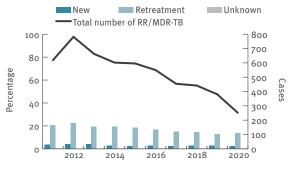
TB notification rates by previous treatment history, 2011–2020



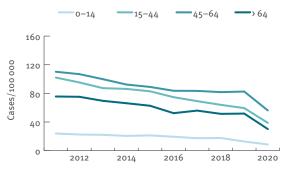
TB cases by geographical origin, 2011-2020



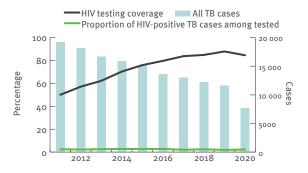
RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020

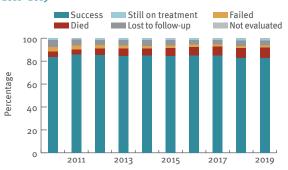


New and relapse TB cases – notification rates by age group, 2011–2020



TB/HIV coinfection, 2011-2020





Russian Federation

Total population estimate 2020 by United Nations Statistical Database: 145 934 460

TB cases, 2020

Notifications			
Total number of cases	84 956		
Notification rate per 100000		58.2	
New ^a and relapse		58 723	
New ^a and relapse notification rate per 100 000	40.2		
Pulmonary	79 963	(94.1%)	
of which microscopy-positive	-	-	
of which laboratory-confirmed	45 055	(56.3%)	
Laboratory-confirmed TB cases	-	-	
Mean age of new native TB cases		42.4 years	
Mean age of new foreign TB cases		-	
Foreign origin of all TB cases	1503	(1.8%)	
New (not previously treated)	47 399	(55.8%)	
Estimates			
Estimated new and relapse cases N, best [low-high]	68 000	[43 000-98 000]	

Drug resistance surveill coinfection, 2020	lance ai	nd TB/HIV
Completeness of DRS data ^a		Yes
Completeness of HIV data ^b		Yes
Case-linked data-reporting		Yes
Cases with DST results	42 022	(93.3%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	23 000	[23 000-24 000
Pulmonary RR/MDR-TB cases notified	21963	(52.3%)
of which pre-XDR-TB cases	7 822	(38.3%)
Notified RR/MDR-TB	21963	-
of which pre-XDR-TB cases	7 822	(35.6%)
TB cases tested for HIV	55 838	(95.1%)
HIV-positive TB cases	13 506	(24.2%)
of these on ART	9 190	(68.0%)

^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.

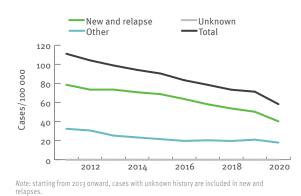
Treatment outcome monitoring

Geographical coverage	Nat	ional		
Outcome cohort	New and relapse TB cases notified in 2019ª		RR/MDR enrolled treatmen	
Case-linked data-reporting	Y	es		_
Cases notified	54	589	28	706
Success	37 208	(68.2%)	14 757	(51.4%
Died	5 936	(10.9%)	4 4 8 8	(15.6%
Failed	3 567	(6.5%)	4 133	(14.4%
Lost to follow-up	3 471	(6.4%)	3 0 8 1	(10.7%
Not evaluated	4 4 0 7	(8.1%)	2 2 4 7	(7.8%

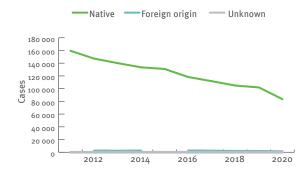
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

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

TB notification rates by previous treatment history, 2011–2020



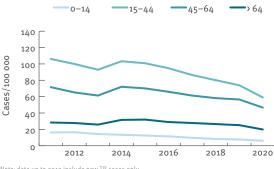
TB cases by geographical origin, 2011-2020



RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020

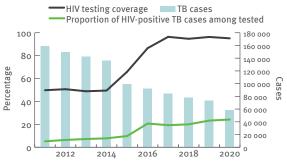


New and relapse TB cases – notification rates by age group, 2011-2020



Note: data up to 2012 include new TB cases only

TB/HIV coinfection, 2011–2020



Note: data up to 2014 include all TB cases.

Treatment outcome, new and relapse TB cases, 2010-2019



Π

Total population estimate 2020 by United Nations Statistical Database: 33 938

TB cases, 2020

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]	0	[0-0]

Drug resistance surveillance and TB/HIV

coinfection, 2020		
Completeness of DRS data ^a		No
Completeness of HIV data ^b		No
Case-linked data-reporting		No
Cases with DST results	-	-
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	0	[0-0]
Pulmonary RR/MDR-TB cases notified	-	-
of which pre-XDR-TB cases	-	-
Notified RR/MDR-TB	-	-
of which pre-XDR-TB cases	-	-
TB cases tested for HIV	-	-
HIV-positive TB cases	-	-
of these on ART	-	-

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

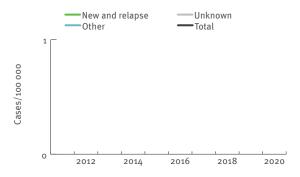
Treatment outcome monitoring C . . .

Geographical coverage	National	
Outcome cohort	New and relapse TB cases notified in 2019ª	RR/MDR-TB cases enrolled into DR-TB treatment in 2018 ^b
Case-linked data-reporting	-	-
Cases notified	-	-
Success	-	-
Died	-	-
Failed	-	-
Lost to follow-up	-	-
Not evaluated	-	-

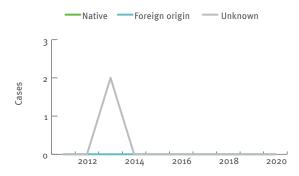
° Treatment outcome as presented is treatment outcome after 12 months. ° Treatment outcome as presented is treatment outcome after 24 months.

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

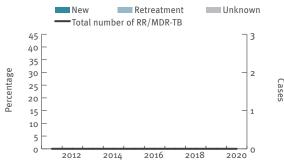
TB notification rates by previous treatment history, 2011–2020



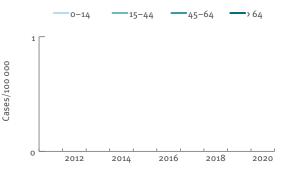
TB cases by geographical origin, 2011–2020



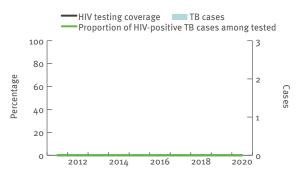
RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020



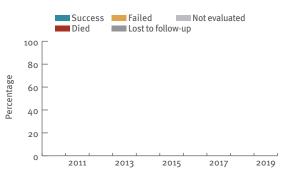
New and relapse TB cases - notification rates by age group, 2011-2020



TB/HIV coinfection, 2011–2020



Treatment outcome, new and relapse TB cases, 2010-2019



Serbia

Total population estimate 2020 by United Nations Statistical Database: 8 737 370

TB cases, 2020

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]	1200	[980-1300]

Drug resistance surveillance and TB/HIV

coinfection, 2020		
Completeness of DRS data ^a		No
Completeness of HIV data ^b		No
Case-linked data-reporting		No
Cases with DST results	-	-
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	2	[1-3]
Pulmonary RR/MDR-TB cases notified	-	-
of which pre-XDR-TB cases	-	-
Notified RR/MDR-TB	-	-
of which pre-XDR-TB cases	-	-
TB cases tested for HIV	-	-
HIV-positive TB cases	-	-
of these on ART	-	-

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

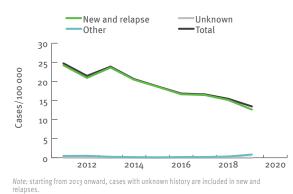
Treatment outcome monitoring

Geographical coverage	National	
Outcome cohort	New and relapse TB cases notified in 2019ª	RR/MDR-TB cases enrolled into DR-TB treatment in 2018 ^b
Case-linked data-reporting	-	-
Cases notified	-	-
Success	-	-
Died	-	-
Failed	-	-
Lost to follow-up	-	-
Not evaluated	-	-

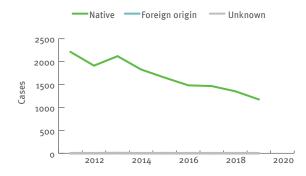
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

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

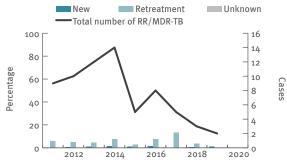
TB notification rates by previous treatment history, 2011–2020



TB cases by geographical origin, 2011-2020



RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020

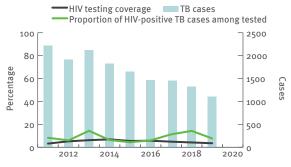


New and relapse TB cases – notification rates by age group, 2011–2020



Note: data up to 2012 include new TB cases only.

TB/HIV coinfection, 2011–2020



Note: data up to 2014 include all TB cases.

Treatment outcome, new and relapse TB cases, 2010-2019



Slovakia

Total population at 9 April 2021 by EUROSTAT: 5 457 873

TB cases, 2020

Notifications		
Total number of cases		158
Notification rate per 100000		2.9
New ^a and relapse		153
New ^a and relapse notification rate per 100 000		2.8
Pulmonary	135	(85.4%)
of which microscopy-positive	37	(27.4%)
of which laboratory-confirmed	65	(48.1%)
Laboratory-confirmed TB cases	67	(42.4%)
Mean age of new native TB cases	4	4.2 years
Mean age of new foreign TB cases	37.5 years	
Foreign origin of all TB cases	6	(3.8%)
New (not previously treated)	133	(84.2%)
Estimates		
Estimated new and relapse cases N, best [low-high]	180	[150-200]

Drug resistance surveillance and TB/HIV coinfection, 2020

,		
Completeness of DRS data ^a	Yes	
Completeness of HIV data ^b	Yes	
Case-linked data-reporting	Yes	
Cases with DST results	66	(98.5%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low–high]	1	[0-4]
Pulmonary RR/MDR-TB cases notified	1	(1.6%)
of which pre-XDR-TB cases	0	(0.0%)
Notified RR/MDR-TB	1	-
of which pre-XDR-TB cases	0	(0.0%)
TB cases tested for HIV	82	(51.9%)
HIV-positive TB cases	2	(2.4%)
of these on ART	0	(0.0%)

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.

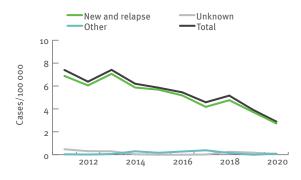
Treatment outcome monitoring Geographical Coverage National

coverage	National			
Outcome cohort	New culture-positive pulmonary TB cases notified in 2019ª		All RR/MDR-TB ca notified in 2018	
Case-linked data-reporting		Yes		-
Cases notified	79			3
Success	76	(96.2%)	2	(66.7%)
Died	2	(2.5%)	1	(33.3%)
Failed	0	(0.0%)	0	(0.0%)
Lost to follow-up	0	(0.0%)	0	(0.0%)
Still on treatment	1	(1.3%)	0	(0.0%)
Not evaluated	0	(0.0%)	0	(0.0%)

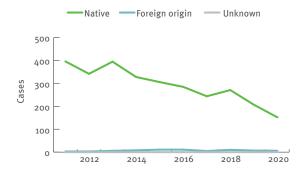
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

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

TB notification rates by previous treatment history, 2011–2020



TB cases by geographical origin, 2011-2020



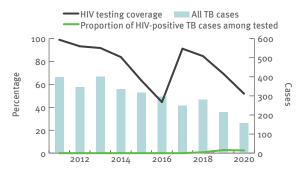
RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020



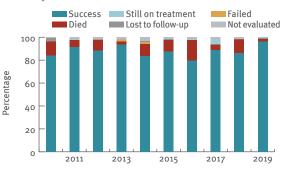
New and relapse TB cases – notification rates by age group, 2011–2020



TB/HIV coinfection, 2011–2020



Treatment outcome, new culture-confirmed pulmonary TB cases, 2010–2019



Slovenia

Total population at 9 April 2021 by EUROSTAT: 22 095 861

TB cases, 2020

Notifications		
Total number of cases		77
Notification rate per 100 000		3.7
New ^a and relapse		75
New ^a and relapse notification rate per 100 000		3.6
Pulmonary	66	(85.7%)
of which microscopy-positive	25	(37.9%)
of which laboratory-confirmed	62	(93.9%)
Laboratory-confirmed TB cases	73	(94.8%)
Mean age of new native TB cases	67	7.6 years
Mean age of new foreign TB cases	54	.o years
Foreign origin of all TB cases	26	(33.8%)
New (not previously treated)	70	(90.9%)
Estimates		
Estimated new and relapse cases N, best [low-high]	86	[74-100]

Drug resistance surveillance and TB/HIV coinfection, 2020

Completeness of DRS data ^a	Yes		
Completeness of HIV data ^b	Yes		
Case-linked data-reporting	Yes		
Cases with DST results	73	(100.0%)	
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low–high]	1	[0-3]	
Pulmonary RR/MDR-TB cases notified	1	(1.6%)	
of which pre-XDR-TB cases	0	-	
Notified RR/MDR-TB	1	-	
of which pre-XDR-TB cases	0	-	
TB cases tested for HIV	58	(75.3%)	
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.

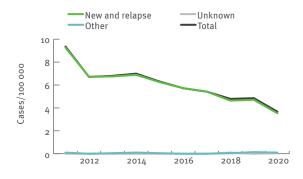
Treatment outcome monitoring

Geographical coverage	Na	tional		
Outcome cohort	New culture-positive pulmonary TB cases notified in 2019 ^a All RR/MDR-TE			
Case-linked data-reporting	Yes		-	_
Cases notified		78)
Success	59	(75.6%)	-	-
Died	15	(19.2%)	-	-
Failed	0	(0.0%)	-	-
Lost to follow-up	3	(3.8%)	-	-
Still on treatment	1	(1.3%)	-	-
Not evaluated	0	(0.0%)	-	-

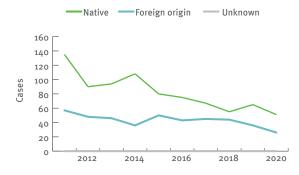
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

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

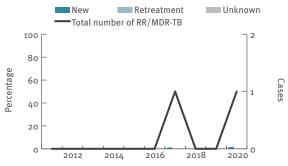
TB notification rates by previous treatment history, 2011–2020



TB cases by geographical origin, 2011-2020



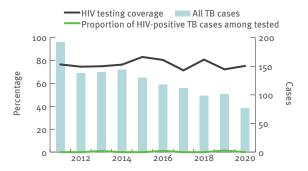
RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020



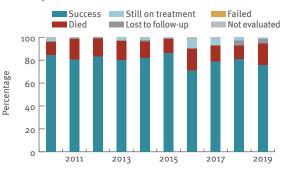
New and relapse TB cases – notification rates by age group, 2011–2020



TB/HIV coinfection, 2011–2020



Treatment outcome, new culture-confirmed pulmonary TB cases, 2010–2019



Spain

Total population at 9 April 2021 by EUROSTAT: 47 332 614

TB cases, 2020

Notifications		
Total number of cases		3 0 4 4
Notification rate per 100 000		6.4
New ^a and relapse		2 949
New ^a and relapse notification rate per 100 000		6.2
Pulmonary	2 2 2 5	(73.1%)
of which microscopy-positive	925	(41.6%)
of which laboratory-confirmed	1420	(63.8%)
Laboratory-confirmed TB cases	1 810	(59.5%)
Mean age of new native TB cases	5	1.0 years
Mean age of new foreign TB cases	3	7.5 years
Foreign origin of all TB cases	1030	(33.8%)
New (not previously treated)	1880	(61.8%)
Estimates		
Estimated new and relapse cases N, best [low-high]	3 400	[2 900-3 900]

Drug resistance surveillance and TB/HIV coinfection, 2020

Completeness of DRS data ^a	Yes		
Completeness of HIV data ^b	Yes		
Case-linked data-reporting	Yes		
Cases with DST results	842	(46.5%)	
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low–high]	77	[54–100]	
Pulmonary RR/MDR-TB cases notified	12	(1.4%)	
of which pre-XDR-TB cases	1	(33.3%)	
Notified RR/MDR-TB	15	-	
of which pre-XDR-TB cases	1	(6.7%)	
TB cases tested for HIV	1759	(57.8%)	
HIV-positive TB cases	173	(9.8%)	
of these on ART	-	-	

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

Treatment outcome monitoring

Geographical coverage

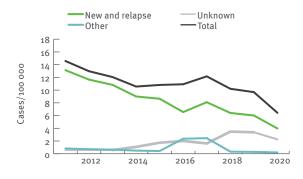
Outcome cohort	New culture-positive pulmonary TB cases notified in 2019ª		All RR/MDR-TB cas notified in 2018 ^b	
Case-linked data-reporting	١	/es	-	
Cases notified	1	507	23	
Success	895	(59.4%)	5	(21.7%)
Died	95	(6.3%)	2	(8.7%)
Failed	0	(0.0%)	0	(0.0%)
Lost to follow-up	1	(0.1%)	0	(0.0%)
Still on treatment	22	(1.5%)	0	(0.0%)
Not evaluated	494	(32.8%)	16	(69.6%)

National

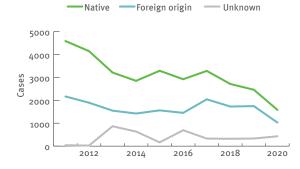
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

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

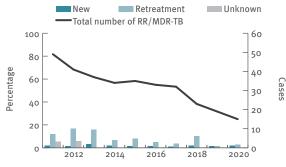
TB notification rates by previous treatment history, 2011–2020



TB cases by geographical origin, 2011-2020



RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020

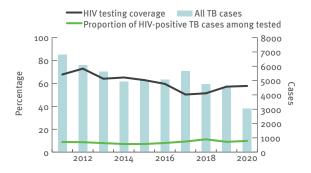


Note: in 2013, 2015 and 2016, only pulmonary RR/MDR-TB cases were reported.

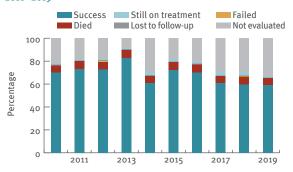
New and relapse TB cases – notification rates by age group, 2011-2020



TB/HIV coinfection, 2011-2020



Treatment outcome, new culture-confirmed pulmonary TB cases, 2010-2019



Sweden

Total population at 9 April 2021 by EUROSTAT: 10 327 589

TB cases, 2020

Notifications			
Total number of cases	328		
Notification rate per 100 000		3.2	
New ^a and relapse		316	
New ^a and relapse notification rate per 100 000	3.1		
Pulmonary	207	(63.1%)	
of which microscopy-positive	76	(36.7%)	
of which laboratory-confirmed	180	(87.0%)	
Laboratory-confirmed TB cases	264	(80.5%)	
Mean age of new native TB cases	4	7.3 years	
Mean age of new foreign TB cases	3	7.6 years	
Foreign origin of all TB cases	284	(86.6%)	
New (not previously treated)	306	(93.3%)	
Estimates			
Estimated new and relapse cases N, best [low-high]	360	[310-420]	

Drug resistance surveillance and TB/HIV coinfection, 2020

Yes		
	No	
Yes		
264	(100.0%)	
5	[1-10]	
5	(2.8%)	
2	(40.0%)	
6	-	
2	(33.3%)	
-	-	
-	-	
-	-	
	264 5 5 2 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.

New culture-positive

Geographical coverage

Treatment outcome monitoring

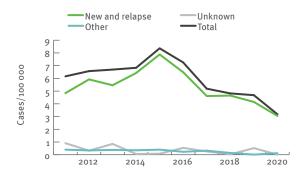
Outcome cohort	pulmonary TB cases notified in 2019ª		All RR/MDR-IB case notified in 2018 ^b	
Case-linked data-reporting Cases notified	,	Yes	-	
		235		14
Success	138	(58.7%)	14	(100.0%)
Died	8	(3.4%)	0	(0.0%)
Failed	0	(0.0%)	0	(0.0%)
Lost to follow-up	0	(0.0%)	0	(0.0%)
Still on treatment	4	(1.7%)	0	(0.0%)
Not evaluated	85	(36.2%)	0	(0.0%)

National

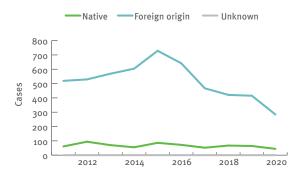
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

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

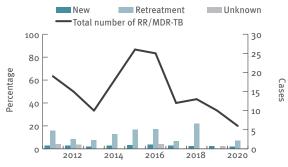
TB notification rates by previous treatment history, 2011–2020



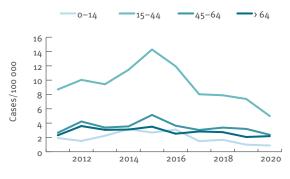
TB cases by geographical origin, 2011-2020



RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020



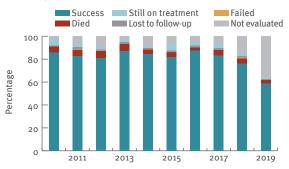
New and relapse TB cases – notification rates by age group, 2011-2020



TB/HIV coinfection, 2011-2020

Data not reported

Treatment outcome, new culture-confirmed pulmonary TB cases, 2010-2019



Switzerland

Total population estimate 2020 by United Nations Statistical Database: 8 654 618

TB cases, 2020

Notifications		
Total number of cases		387
Notification rate per 100000		4.5
New ^a and relapse		351
New ^a and relapse notification rate per 100 000		4.1
Pulmonary	314	(81.1%)
of which microscopy-positive	-	-
of which laboratory-confirmed	271	(86.3%)
Laboratory-confirmed TB cases	-	-
Mean age of new native TB cases	L	1.1 years
Mean age of new foreign TB cases		-
Foreign origin of all TB cases	276	(71.3%)
New (not previously treated)	351	(90.7%)
Estimates		
Estimated new and relapse cases N, best [low-high]	400	[350-470]

Drug resistance surveillance and TB/HIV

	No	
	No	
Yes		
171	(63.1%)	
10	[4-16]	
4	(2.3%)	
2	(50.0%)	
5	-	
1	(20.0%)	
0	(0.0%)	
-	-	
-	-	
	10 4 2 5 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.

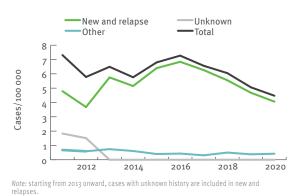
Treatment outcome monitoring

Geographical coverage	Nat	tional		
Outcome cohort	New culture-positive pulmonary TB cases notified in 2019ª		enrolleo	R TB cases l into DR-TB ent in 2018 ^b
Case-linked data-reporting	١	Yes		-
Cases notified	3	391		9
Success	267	(68.3%)	6	(66.7%)
Died	10	(2.6%)	0	(0.0%)
Failed	0	(0.0%)	0	(0.0%)
Lost to follow-up	0	(0.0%)	0	(0.0%)
Not evaluated	114	(29.2%)	3	(33.3%)

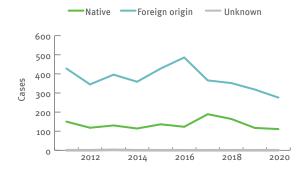
^a Treatment outcome as presented is treatment outcome after 12 months.
^b Treatment outcome as presented is treatment outcome after 24 months.

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

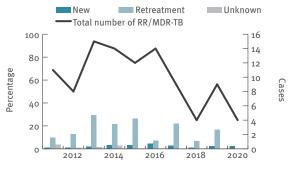
TB notification rates by previous treatment history, 2011–2020



TB cases by geographical origin, 2011-2020



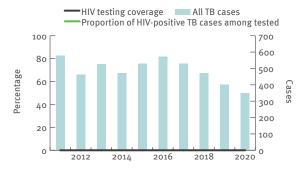
RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020



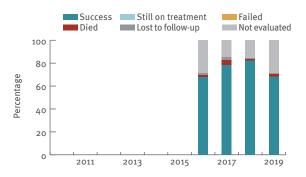
New and relapse TB cases – notification rates by age group, 2011-2020



TB/HIV coinfection, 2011–2020



Treatment outcome, new and relapse TB cases, 2010-2019



Tajikistan

Total population estimate 2020 by United Nations Statistical Database: 9 537 642

TB cases, 2020

Notifications		
Total number of cases		4 316
Notification rate per 100 000		45.3
New ^a and relapse		4 148
New ^a and relapse notification rate per 100 000		43.5
Pulmonary	2 9 2 5	(67.8%)
of which microscopy-positive	-	-
of which laboratory-confirmed	2 0 2 3	(69.2%)
Laboratory-confirmed TB cases	-	-
Mean age of new native TB cases		37.6 years
Mean age of new foreign TB cases		-
Foreign origin of all TB cases	-	-
New (not previously treated)	3 759	(87.1%)
Estimates		
Estimated new and relapse cases N, best [low-high]	8 0 0 0	[6 100-10 000]

Drug resistance surveillance and TB/HIV

coinfection, 2020		
Completeness of DRS data ^a		Yes
Completeness of HIV data ^b		Yes
Case-linked data-reporting		Yes
Cases with DST results	2 0 2 3	(100.0%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	560	[520-590]
Pulmonary RR/MDR-TB cases notified	555	(27.4%)
of which pre-XDR-TB cases	121	(23.6%)
Notified RR/MDR-TB	557	-
of which pre-XDR-TB cases	123	(22.1%)
TB cases tested for HIV	4 0 4 3	(97.5%)
HIV-positive TB cases	118	(2.9%)
of these on ART	116	(98.3%)

^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.

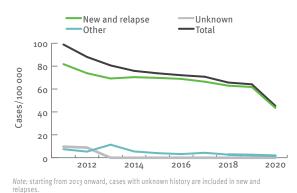
Treatment outcome monitoring

Geographical coverage	Nat	ional		
Outcome cohort	New and relapse TB cases notified in 2019ª		enrolled	R TB cases into DR-TB nt in 2018 ^b
Case-linked data-reporting	Y	'es		-
Cases notified	5	5 114		727
Success	4 6 4 3	(90.8%)	510	(70.2%)
Died	179	(3.5%)	95	(13.1%)
Failed	60	(1.2%)	23	(3.2%)
Lost to follow-up	190	(3.7%)	88	(12.1%)
Not evaluated	42	(0.8%)	11	(1.5%)

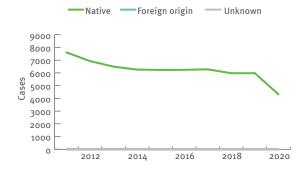
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

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

TB notification rates by previous treatment history, 2011–2020



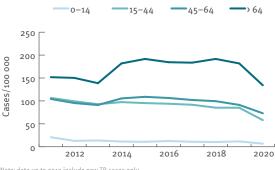
TB cases by geographical origin, 2011-2020



RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020

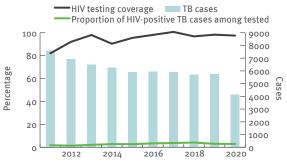


New and relapse TB cases – notification rates by age group, 2011–2020



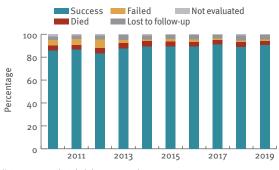
Note: data up to 2012 include new TB cases only.

TB/HIV coinfection, 2011–2020



Note: data up to 2014 include all TB cases.

Treatment outcome, new and relapse TB cases, 2010-2019



Turkey

Total population estimate 2020 by United Nations Statistical Database: 84 339 067

TB cases, 2020

Notifications			
Total number of cases		8 925	
Notification rate per 100 000		10.6	
New ^a and relapse	8 830		
New ^a and relapse notification rate per 100 000		10.5	
Pulmonary	5 802	(65.0%)	
of which microscopy-positive	-	-	
of which laboratory-confirmed	4 5 2 3	(78.0%)	
Laboratory-confirmed TB cases	-	-	
Mean age of new native TB cases	4	43.6 years	
Mean age of new foreign TB cases		-	
Foreign origin of all TB cases	1 4 2 0	(15.9%)	
New (not previously treated)	8 358	(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, 2020		
Completeness of DRS data ^a		Yes
Completeness of HIV data ^b		Yes
Case-linked data-reporting		Yes
Cases with DST results	4 074	(90.1%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	140	[120-170]
Pulmonary RR/MDR-TB cases notified	127	(3.1%)
of which pre-XDR-TB cases	14	(14.1%)
Notified RR/MDR-TB	149	-
of which pre-XDR-TB cases	14	(9.4%)
TB cases tested for HIV	7 062	(80.0%)
HIV-positive TB cases	83	(1.2%)
of these on ART	62	(74.7%)

^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.

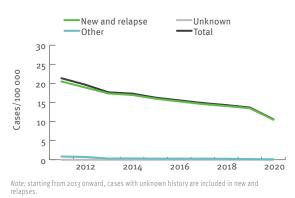
Treatment outcome monitoring

Geographical coverage	Nat	ional		
Outcome cohort	New and relapse TB cases notified in 2019ª		enrolled	R TB cases into DR-TB nt in 2018 ^b
Case-linked data-reporting	Y	'es		-
Cases notified	11	11 095		180
Success	9 231	(83.2%)	99	(55.0%)
Died	973	(8.8%)	20	(11.1%)
Failed	22	(0.2%)	2	(1.1%)
Lost to follow-up	200	(1.8%)	9	(5.0%)
Not evaluated	669	(6.0%)	50	(27.8%)

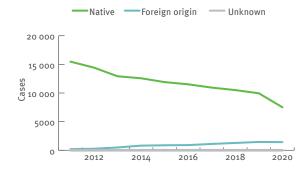
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

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

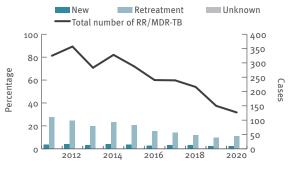
TB notification rates by previous treatment history, 2011–2020



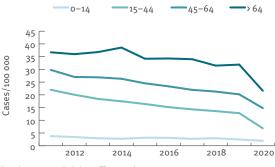
TB cases by geographical origin, 2011-2020



RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020

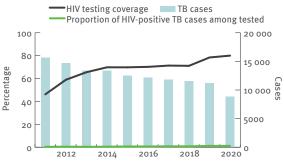


New and relapse TB cases – notification rates by age group, 2011–2020



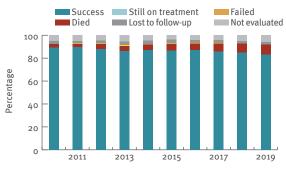
Note: data up to 2012 include new TB cases only

TB/HIV coinfection, 2011–2020



Note: data up to 2014 include all TB cases.

Treatment outcome, new and relapse TB cases, 2010-2019



Turkmenistan

Total population estimate 2020 by United Nations Statistical Database: 6 031187

TB cases, 2020

Notifications		
Total number of cases		2 610
Notification rate per 100 000		43.3
New ^a and relapse		1 918
New ^a and relapse notification rate per 100 000		31.8
Pulmonary	2 180	(83.5%)
of which microscopy-positive	-	-
of which laboratory-confirmed	833	(38.2%)
Laboratory-confirmed TB cases	-	-
Mean age of new native TB cases	L	0.6 years
Mean age of new foreign TB cases		-
Foreign origin of all TB cases	0	(0.0%)
New (not previously treated)	1603	(61.4%)
Estimates		
Estimated new and relapse cases N, best [low-high]	2 800	[2 200-3 600]

Drug resistance surveillance and TB/HIV

coinfection, 2020		
Completeness of DRS data ^a		No
Completeness of HIV data ^b		No
Case-linked data-reporting		Yes
Cases with DST results	833	(100.0%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	290	[260-310]
Pulmonary RR/MDR-TB cases notified	-	-
of which pre-XDR-TB cases	-	-
Notified RR/MDR-TB	783	-
of which pre-XDR-TB cases	264	(33.7%)
TB cases tested for HIV	-	-
HIV-positive TB cases	-	-
of these on ART	-	-

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

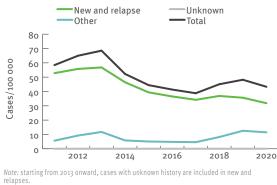
Treatment outcome monitoring

Geographical coverage	Nat	ional		
Outcome cohort	New and relapse TB cases notified in 2019ª		enrolled	R TB cases into DR-TB nt in 2018 ^b
Case-linked data-reporting	Y	'es		-
Cases notified	2	117	5	549
Success	1749	(82.6%)	248	(45.2%)
Died	90	(4.3%)	92	(16.8%)
Failed	135	(6.4%)	98	(17.9%)
Lost to follow-up	84	(4.0%)	92	(16.8%)
Not evaluated	59	(2.8%)	19	(3.5%)

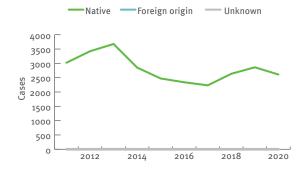
^a Treatment outcome as presented is treatment outcome after 12 months.
^b Treatment outcome as presented is treatment outcome after 24 months.

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

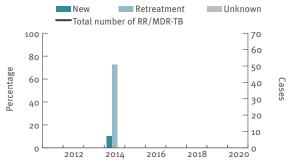
TB notification rates by previous treatment history, 2011–2020



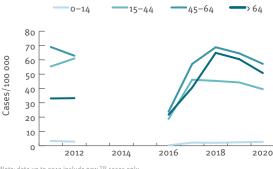
TB cases by geographical origin, 2011-2020



RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020

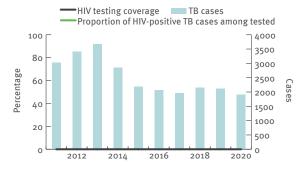


New and relapse TB cases – notification rates by age group, 2011-2020

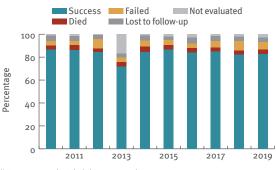


Note: data up to 2012 include new TB cases only.

TB/HIV coinfection, 2011–2020



Treatment outcome, new and relapse TB cases, 2010-2019



Ukra

Total population estimate 2020 by United Nations Statistical Database: 43 733 759

TB cases, 2020

Notifications		
Total number of cases		19 521
Notification rate per 100000		44.6
New ^a and relapse		17 533
New ^a and relapse notification rate per 100 000		40.1
Pulmonary	17 915	(91.8%)
of which microscopy-positive	-	-
of which laboratory-confirmed	13 177	(73.6%)
Laboratory-confirmed TB cases	-	-
Mean age of new native TB cases	4	43.6 years
Mean age of new foreign TB cases		-
Foreign origin of all TB cases	31	(0.2%)
New (not previously treated)	14 156	(72.5%)
Estimates		
Estimated new and relapse cases N, best [low-high]	32 000	[21 000-45 000]

Drug resistance surveilla coinfection, 2020	ince an	d TB/HIV
Completeness of DRS data ^a		Yes
Completeness of HIV data ^b		Yes
Case-linked data-reporting		Yes
Cases with DST results	12 818	(97.3%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	4 300	[4 200-4 400]
Pulmonary RR/MDR-TB cases notified	4 177	(32.6%)
of which pre-XDR-TB cases	1 1 2 0	(26.8%)
Notified RR/MDR-TB	4 257	-
of which pre-XDR-TB cases	1 172	(27.5%)
TB cases tested for HIV	17 375	(99.1%)
HIV-positive TB cases	3 794	(21.8%)
of these on ART	3 460	(91.2%)

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

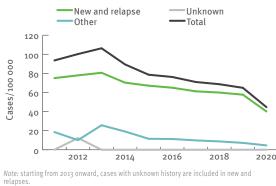
Treatment outcome monitoring

Geographical coverage	Nat	ional		
Outcome cohort	New and relapse TB cases notified in 2019ª		enrolled	TB cases into DR-TB nt in 2018 ^b
Case-linked data-reporting	Y	es		-
Cases notified	19	414	5	953
Success	15 381	(79.2%)	3 0 0 6	(50.5%)
Died	1 816	(9.4%)	970	(16.3%)
Failed	1180	(6.1%)	1 0 3 3	(17.4%)
Lost to follow-up	1023	(5.3%)	926	(15.6%)
Not evaluated	14	(0.1%)	18	(0.3%)

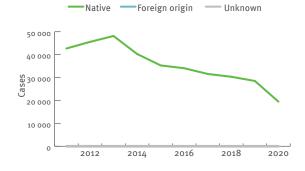
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

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

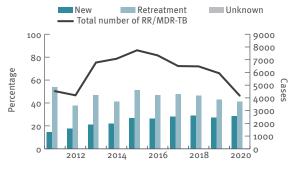
TB notification rates by previous treatment history, 2011–2020



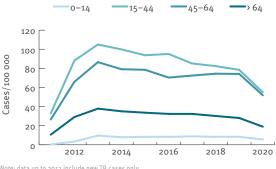
TB cases by geographical origin, 2011-2020



RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020

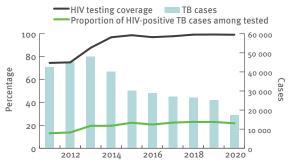


New and relapse TB cases – notification rates by age group, 2011-2020



Note: data up to 2012 include new TB cases only.

TB/HIV coinfection, 2011–2020



Note: data up to 2014 include all TB cases.

Treatment outcome, new and relapse TB cases, 2010-2019



United Kingdom Total population at 9 April 2021 by EUROSTAT: 67 886 004

TB cases, 2020

Notifications			
Total number of cases	4 458		
Notification rate per 100 000	6.6		
New ^a and relapse	4 185		
New ^a and relapse notification rate per 100 000	6.2		
Pulmonary	2 419	(54.3%)	
of which microscopy-positive	-	-	
of which laboratory-confirmed	1927	(79.7%)	
Laboratory-confirmed TB cases	-	-	
Mean age of new native TB cases	42.4 years		
Mean age of new foreign TB cases		-	
Foreign origin of all TB cases	3 123	(70.1%)	
New (not previously treated)	4 185	(93.9%)	
Estimates			
Estimated new and relapse cases N, best [low-high]	4 700	[4 200-5 200]	

Drug resistance surveillance and TB/HIV coinfection, 2020

Completeness of DRS data ^a	Yes		
Completeness of HIV data ^b	No Yes		
Case-linked data-reporting			
Cases with DST results	1622	(84.2%)	
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low–high]	40	[27-53]	
Pulmonary RR/MDR-TB cases notified	35	(2.2%)	
of which pre-XDR-TB cases	8	(25.0%)	
Notified RR/MDR-TB	-	-	
of which pre-XDR-TB cases	-	-	
TB cases tested for HIV	-	-	
HIV-positive TB cases	-	-	
of these on ART	-	-	

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

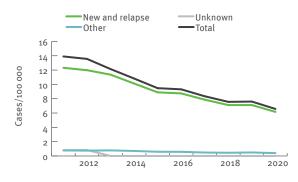
Treatment outcome monitoring

Geographical coverage	National			
Outcome cohort	New culture-positive pulmonary TB cases notified in 2019ª		RR/MDR TB case enrolled into DR- treatment in 201	
Case-linked data-reporting	Yes		-	
Cases notified	4739			40
Success	3 675	(77.5%)	30	(75.0%)
Died	229	(4.8%)	2	(5.0%)
Failed	0	(0.0%)	0	(0.0%)
Lost to follow-up	208	(4.4%)	4	(10.0%)
Still on treatment	627	(13.2%)	4	(10.0%)
Not evaluated	72	(3.7%)	7	(14.0%)

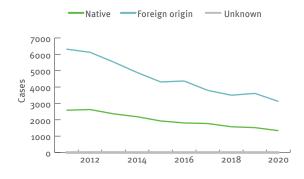
^a Treatment outcome as presented is treatment outcome after 12 months. ^b Treatment outcome as presented is treatment outcome after 24 months.

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

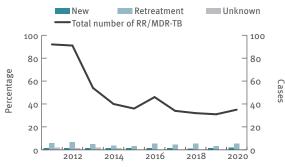
TB notification rates by previous treatment history, 2011–2020



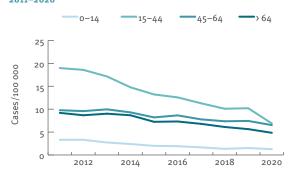
TB cases by geographical origin, 2011–2020



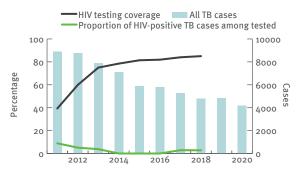
RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020



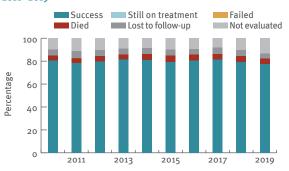
New and relapse TB cases - notification rates by age group, 2011-2020



TB/HIV coinfection, 2011–2020



Treatment outcome, new culture-confirmed pulmonary TB cases, 2010-2019



Uzbekistan

Total population estimate 2020 by United Nations Statistical Database: 33 469 199

TB cases, 2020

Notifications			
Total number of cases		14 127	
Notification rate per 100 000		42.2	
New ^a and relapse		12 111	
New ^a and relapse notification rate per 100 000	36.2		
Pulmonary	9 503	(67.3%)	
of which microscopy-positive	-	-	
of which laboratory-confirmed	5 713	(60.1%)	
Laboratory-confirmed TB cases	-	-	
Mean age of new native TB cases		40.6 years	
Mean age of new foreign TB cases		-	
Foreign origin of all TB cases	0	(0.0%)	
New (not previously treated)	10 893	(77.1%)	
Estimates			
Estimated new and relapse cases N, best [low-high]	22 000	[15 000-30 000]	

Drug resistance surveillance and TB/HIV

coinfection, 2020		
Completeness of DRS data ^a		Yes
Completeness of HIV data ^b		Yes
Case-linked data-reporting		Yes
Cases with DST results	5 713	(100.0%)
Estimated RR-TB among notified bacteriologically confirmed pulmonary TB cases N, best [low-high]	1400	[1300-1500]
Pulmonary RR/MDR-TB cases notified	1400	(24.5%)
of which pre-XDR-TB cases	378	(27.0%)
Notified RR/MDR-TB	1778	-
of which pre-XDR-TB cases	378	(21.3%)
TB cases tested for HIV	12 111	(100.0%)
HIV-positive TB cases	379	(3.1%)
of these on ART	287	(75.7%)

^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.

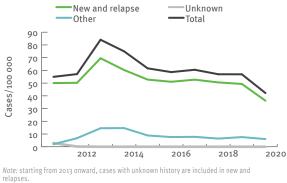
Treatment outcome monitoring

Geographical coverage	Nat	ional		
Outcome cohort	New and relapse TB cases notified in 2019ª		RR/MDR TB cases enrolled into DR-TE treatment in 2018 ^t	
Case-linked data-reporting	Yes			-
Cases notified	14 224		2	039
Success	12 820	(90.1%)	1375	(67.4%)
Died	548	(3.9%)	278	(13.6%)
Failed	227	(1.6%)	120	(5.9%)
Lost to follow-up	353	(2.5%)	173	(8.5%)
Not evaluated	276	(1.9%)	93	(4.6%)

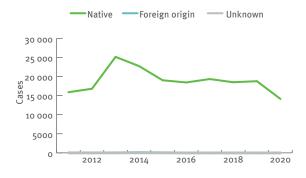
^a Treatment outcome as presented is treatment outcome after 12 months.
^b Treatment outcome as presented is treatment outcome after 24 months.

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

TB notification rates by previous treatment history, 2011–2020



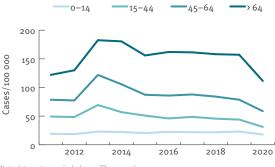
TB cases by geographical origin, 2011-2020



RR/MDR-TB cases and percentage of RR/MDR-TB cases by previous treatment history among all TB cases, 2011–2020

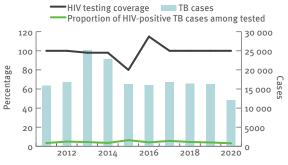


New and relapse TB cases – notification rates by age group, 2011-2020



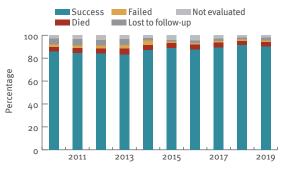
Note: data up to 2012 include new TB cases only.

TB/HIV coinfection, 2011–2020



Note: data up to 2014 include all TB cases.

Treatment outcome, new and relapse TB cases, 2010-2019





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