

Annex

4

# **TB burden estimates, notifications and treatment outcomes**



FOR  
INDIVIDUAL COUNTRIES  
AND TERRITORIES,  
WHO REGIONS AND  
THE WORLD



## Estimates of incidence and mortality

Estimated values are shown as best estimates followed by lower and upper bounds. The lower and upper bounds are defined as the 2.5th and 97.5th centiles of outcome distributions produced in simulations. For details about the methods used to produce these estimates see the technical appendix at [http://www.who.int/tb/publications/global\\_report/](http://www.who.int/tb/publications/global_report/).

Estimated numbers are shown rounded to two significant figures. Estimated rates are shown rounded to three significant figures unless the value is under 100, in which case rates are shown rounded to two significant figures.

## Data source

Data shown in this file were taken from the WHO global TB database on **21 September 2016**. Data shown in the main part of the report were taken from the database on 15 August 2016. As a result, data in this annex may differ slightly from those in the main part of the report.

## Downloadable data

This annex is provided as a reference for looking up figures when needed. It is not suitable for conducting analyses or producing graphs and tables. Instead, download data for all countries and all years as comma-separated value (CSV) files from the WHO global TB database at [www.who.int/tb/data/](http://www.who.int/tb/data/). See [Annex 1](#) for more details.

## Country notes

### Bangladesh

Estimates of TB incidence and mortality will be reviewed once final results from the 2015/2016 national TB prevalence survey are available.

### Caribbean Islands

Data collection from Caribbean Islands that are not Member States of WHO was resumed in 2011 after a break of a few years. This includes Aruba, Curaçao, Puerto Rico and Sint Maarten, which are Associate Members of the Pan American Health Organization, plus the territories of Anguilla, Bermuda, Bonaire, Saint Eustatius and Saba, British Virgin Islands, Cayman Islands, Montserrat and Turks and Caicos Islands. Data are not currently independently collected from the US Virgin Islands.

### Denmark

Data for Denmark exclude Greenland.

### European Union/ European Economic Area countries

Notification and treatment outcome data for European Union and European Economic Area countries are provisional.

### France

Data from France include data from 5 overseas departments (French Guiana, Guadeloupe, Martinique, Mayotte and Réunion) and exclude French territories of the Pacific.

### India

Estimates of TB incidence and mortality are interim in nature, pending results from the national TB prevalence survey planned for 2017/2018.

### Russian Federation

UN Population Division estimates are lower than the population registered by the Federal State Statistics Service of the Russian Federation. The reported number of TB patients with known HIV status ([Table A4.4](#)) is for new TB patients in the civilian sector only. It was not possible to calculate the percentage of all TB patients with known HIV status.

### United States of America

In addition to the 51 reporting areas, the USA includes territories that report separately to WHO. The data for these territories are not included in the data reported by the USA. Definitions of case types and outcomes do not exactly match those used by WHO.

TABLE A4.1

TB incidence estimates, 2015

	Population (millions)	Incidence (including HIV)		Incidence (HIV-positive)		Incidence (MDR/RR-TB)	
		Number (thousands)	Rate <sup>a</sup>	Number (thousands)	Rate <sup>a</sup>	Number (thousands)	Rate <sup>a</sup>
Afghanistan	33	61 (40–88)	189 (122–270)	0.46 (0.28–0.68)	1.4 (0.86–2.1)	3 (1.8–4.1)	9.2 (5.5–13)
Albania	3	0.55 (0.46–0.63)	19 (16–22)	0.01 (<0.1–<0.1)	0.27 (0.21–0.34)	0.015 (<0.01–0.027)	0.52 (0.10–0.93)
Algeria	40	30 (23–37)	75 (58–94)	0.2 (0.14–0.27)	0.51 (0.36–0.68)	0.47 (0.14–0.80)	1.2 (0.35–2.0)
American Samoa	< 1	0 (0–<0.1)	8.3 (7.1–9.5)	0 (0–0)	<0.1 (<0.1–<0.1)	<0.01 (<0.01–<0.01)	0.43 (0.25–0.63)
Andorra	< 1	0 (0–<0.1)	6.5 (5.6–7.5)			0 (0–0)	0 (0–0)
Angola	25	93 (60–132)	370 (240–529)	28 (17–41)	111 (68–165)	4.1 (0.36–7.8)	16 (1.4–31)
Anguilla	< 1	0 (0–0)	21 (14–31)			0 (0–0)	0 (0–0)
Antigua and Barbuda	< 1	0.01 (<0.1–<0.1)	7.5 (6.4–8.6)	0 (0–0)	2.1 (1.8–2.4)	<0.01 (<0.01–<0.01)	0.17 (0.11–0.24)
Argentina	43	11 (9.5–13)	25 (22–29)	0.79 (0.61–0.99)	1.8 (1.4–2.3)	0.53 (0.37–0.69)	1.2 (0.85–1.6)
Armenia	3	1.2 (1.1–1.4)	41 (36–46)	0.11 (0.10–0.13)	3.7 (3.3–4.2)	0.27 (0.20–0.34)	8.9 (6.6–11)
Aruba	< 1	0.01 (<0.1–<0.1)	12 (11–14)			<0.01 (<0.01–<0.01)	0.29 (0.18–0.39)
Australia	24	1.4 (1.2–1.7)	6 (5.2–6.9)	0.03 (<0.1–<0.1)	0.12 (0.10–0.14)	0.062 (0.039–0.085)	0.26 (0.16–0.35)
Austria	9	0.65 (0.56–0.75)	7.6 (6.5–8.8)	0.02 (<0.1–<0.1)	0.19 (0.14–0.23)	0.02 (<0.01–0.032)	0.23 (<0.1–0.37)
Azerbaijan	10	6.8 (5.5–8.1)	69 (57–83)	0.11 (<0.1–0.16)	1.1 (0.72–1.6)	2.5 (2.0–3.0)	26 (21–31)
Bahamas	< 1	0.07 (<0.1–<0.1)	18 (16–21)	0.02 (<0.1–<0.1)	5.7 (4.9–6.6)	<0.01 (<0.01–0.018)	2.4 (0.28–4.6)
Bahrain	1	0.25 (0.21–0.28)	18 (15–21)	0.01 (<0.1–<0.1)	0.84 (0.71–0.99)	<0.01 (0–<0.01)	0.33 (0–0.71)
Bangladesh	161	362 (234–517)	225 (146–321)	0.63 (0.39–0.94)	0.39 (0.24–0.59)	9.7 (5.4–14)	6 (3.4–8.7)
Barbados	< 1	0	0	0	0	0 (0–0)	0 (0–0)
Belarus	9	5.2 (3.9–6.8)	55 (41–71)	0.3 (0.20–0.44)	3.2 (2.1–4.6)	3.5 (2.8–4.2)	37 (29–44)
Belgium	11	1.1 (0.92–1.2)	9.4 (8.1–11)	0.08 (<0.1–0.10)	0.74 (0.61–0.88)	0.023 (<0.01–0.038)	0.2 (<0.1–0.34)
Belize	< 1	0.09 (<0.1–0.10)	25 (21–29)	0.02 (<0.1–<0.1)	5.8 (5.0–6.8)	0.01 (<0.01–0.012)	2.8 (2.4–3.3)
Benin	11	6.6 (4.2–9.4)	60 (39–86)	1 (0.64–1.4)	9.2 (5.9–13)	0.1 (<0.01–0.20)	0.92 (<0.1–1.8)
Bermuda	< 1	0	0			0 (0–0)	0 (0–0)
Bhutan	< 1	1.2 (0.93–1.5)	155 (120–196)	0.11 (<0.1–0.14)	14 (9.8–18)	0.052 (0.043–0.062)	6.7 (5.5–8.0)
Bolivia (Plurinational State of)	11	13 (8.1–18)	117 (76–167)	0.55 (0.35–0.79)	5.1 (3.3–7.4)	0.5 (0.25–0.74)	4.7 (2.3–6.9)
Bonaire, Saint Eustatius and Saba	< 1	0 (0–0)	1 (0.90–1.2)			0 (0–0)	0 (0–0)
Bosnia and Herzegovina	4	1.4 (1.1–1.8)	37 (29–47)	0 (0–<0.1)	0.1 (<0.1–0.15)	0.01 (<0.01–0.019)	0.26 (<0.1–0.50)
Botswana	2	8 (5.2–11)	356 (230–508)	4.8 (3.1–6.9)	213 (136–306)	0.47 (0.30–0.63)	21 (13–28)
Brazil	208	84 (72–97)	41 (35–47)	13 (11–15)	6.3 (5.3–7.3)	2.3 (1.9–2.8)	1.1 (0.91–1.3)
British Virgin Islands	< 1	0	0			0 (0–0)	0 (0–0)
Brunei Darussalam	< 1	0.24 (0.21–0.28)	58 (49–66)	0 (0–0)	0.15 (0.13–0.18)	0 (0–0)	0 (0–0)
Bulgaria	7	1.7 (1.5–1.8)	24 (22–26)	0 (0–0)	<0.1 (<0.1–<0.1)	0.1 (0.075–0.13)	1.4 (1.0–1.8)
Burkina Faso	18	9.4 (6.1–13)	52 (34–74)	0.89 (0.57–1.3)	4.9 (3.2–7.1)	0.4 (0.018–0.77)	2.2 (<0.1–4.3)
Burundi	11	14 (8.8–19)	122 (79–174)	1.9 (1.2–2.7)	17 (11–24)	0.5 (0.21–0.80)	4.5 (1.9–7.2)
Cabo Verde	< 1	0.72 (0.47–1.0)	139 (90–198)	0.08 (<0.1–0.12)	16 (10–23)	0.027 (0–0.055)	5.2 (0–11)
Cambodia	16	59 (38–85)	380 (246–543)	1.4 (0.92–2.1)	9.2 (5.9–13)	1.3 (0.59–2.1)	8.3 (3.8–13)
Cameroon	23	49 (32–71)	212 (137–303)	18 (11–26)	76 (48–110)	1.9 (0.87–3.0)	8.1 (3.7–13)
Canada	36	1.8 (1.6–2.1)	5.1 (4.3–5.8)	0.15 (0.12–0.17)	0.4 (0.33–0.48)	0.031 (0.016–0.045)	<0.1 (<0.1–0.13)
Cayman Islands	< 1	0.01 (<0.1–<0.1)	13 (12–15)			0 (0–0)	0 (0–0)
Central African Republic	5	19 (12–27)	391 (253–558)	8.6 (5.3–13)	176 (107–262)	0.21 (0–0.45)	4.3 (0–9.2)
Chad	14	21 (14–30)	152 (98–217)	6.4 (3.9–9.5)	45 (28–68)	0.89 (0.031–1.7)	6.3 (0.22–12)
Chile	18	3 (2.5–3.4)	16 (14–19)	0.15 (0.11–0.19)	0.82 (0.63–1.0)	0.061 (0.040–0.082)	0.34 (0.22–0.46)
China	1 376	918 (788–1 060)	67 (57–77)	15 (12–19)	1.1 (0.86–1.4)	70 (55–84)	5.1 (4.0–6.1)
China, Hong Kong SAR	7	5.2 (4.4–6.0)	71 (61–82)	0.03 (<0.1–<0.1)	0.46 (0.39–0.54)	0.077 (0.051–0.10)	1.1 (0.70–1.4)
China, Macao SAR	< 1	0.43 (0.37–0.49)	72 (62–83)	0 (0–0)	0.36 (0.31–0.42)	0.016 (<0.01–0.025)	2.7 (1.2–4.3)
Colombia	48	15 (11–19)	31 (24–39)	2.1 (1.6–2.7)	4.4 (3.3–5.5)	0.56 (0.38–0.73)	1.2 (0.79–1.5)
Comoros	< 1	0.27 (0.18–0.39)	35 (22–49)	0.01 (<0.1–<0.1)	1.1 (0.70–1.6)	<0.01 (0–0.020)	1.2 (0–2.5)
Congo	5	18 (11–25)	379 (246–542)	6.4 (3.9–9.5)	138 (84–205)	0.67 (0.29–1.0)	15 (6.3–22)
Cook Islands	< 1	0 (0–0)	7.8 (5.0–11)	0 (0–0)	<0.1 (0–<0.1)	0 (0–0)	0 (0–0)
Costa Rica	5	0.53 (0.41–0.67)	11 (8.5–14)	0.04 (<0.1–<0.1)	0.86 (0.66–1.1)	0.012 (<0.01–0.022)	0.25 (<0.1–0.46)
Côte d'Ivoire	23	36 (23–52)	159 (103–227)	8.5 (5.5–12)	38 (24–54)	1.4 (0.57–2.3)	6.2 (2.5–10)
Croatia	4	0.56 (0.48–0.64)	13 (11–15)	0.01 (0–<0.1)	0.15 (0.12–0.19)	0 (0–0)	0 (0–0)
Cuba	11	0.8 (0.69–0.92)	7 (6.0–8.1)	0.07 (<0.1–<0.1)	0.65 (0.55–0.75)	0.025 (0.011–0.040)	0.22 (<0.1–0.35)
Curaçao	< 1	0.01 (0–<0.1)	3.7 (3.2–4.3)	0 (0–0)	1.9 (1.6–2.2)	0 (0–0)	0 (0–0)
Cyprus	1	0.07 (<0.1–<0.1)	6.2 (5.3–7.2)	0 (0–0)	0.12 (<0.1–0.15)	0 (0–0)	0 (0–0)
Czechia	11	0.55 (0.47–0.63)	5.2 (4.4–6.0)	0.01 (0–<0.1)	<0.1 (<0.1–<0.1)	0.015 (<0.01–0.026)	0.14 (<0.1–0.25)
Democratic People's Republic of Korea	25	141 (109–178)	561 (432–706)	0.45 (0.32–0.60)	1.8 (1.3–2.4)	6 (3.4–8.6)	24 (14–34)
Democratic Republic of the Congo	77	250 (162–357)	324 (210–463)	39 (23–57)	50 (30–74)	10 (4.6–15)	13 (6.0–19)
Denmark	6	0.34 (0.29–0.39)	6 (5.1–6.9)	0.01 (<0.1–<0.1)	0.19 (0.14–0.23)	<0.01 (0–<0.01)	<0.1 (0–<0.1)
Djibouti	< 1	3.4 (2.6–4.2)	378 (291–476)	0.2 (0.15–0.25)	22 (17–28)	0.18 (0.089–0.27)	20 (10–30)
Dominica	< 1	0.01 (<0.1–<0.1)	11 (9.5–13)	0 (0–0)	<0.1 (<0.1–<0.1)	0 (0–0)	0 (0–0)
Dominican Republic	11	6.3 (4.7–8.3)	60 (44–78)	1.6 (1.0–2.3)	15 (9.5–21)	0.28 (0.16–0.39)	2.7 (1.5–3.7)
Ecuador	16	8.4 (5.5–12)	52 (34–75)	1 (0.64–1.4)	6.2 (4.0–9.0)	0.75 (0.45–1.0)	4.6 (2.8–6.2)
Egypt	92	13 (12–15)	15 (13–16)	0.05 (<0.1–<0.1)	<0.1 (<0.1–<0.1)	2.2 (1.8–2.6)	2.4 (2.0–2.8)
El Salvador	6	2.7 (2.4–2.9)	43 (40–47)	0.21 (0.19–0.23)	3.5 (3.2–3.8)	0.04 (0.014–0.067)	0.65 (0.23–1.1)
Equatorial Guinea	< 1	1.5 (1.3–1.6)	172 (150–194)	0.73 (0.62–0.84)	86 (74–99)	0.066 (<0.01–0.12)	7.8 (1.0–14)

<sup>a</sup> Rates are per 100 000 population.

TABLE A4.1

TB incidence estimates, 2015

	Population (millions)	Incidence (including HIV)		Incidence (HIV-positive)		Incidence (MDR/RR-TB)	
		Number (thousands)	Rate <sup>a</sup>	Number (thousands)	Rate <sup>a</sup>	Number (thousands)	Rate <sup>a</sup>
Eritrea	5	3.4 (1.6–5.9)	65 (30–113)	0.18 (<0.1–0.32)	3.5 (1.6–6.1)	0.14 (0–0.29)	2.7 (0–5.5)
Estonia	1	0.24 (0.20–0.27)	18 (15–21)	0.02 (<0.1–<0.1)	1.8 (1.6–2.1)	0.071 (0.050–0.092)	5.4 (3.8–7.0)
Ethiopia	99	191 (141–249)	192 (142–250)	16 (10–23)	16 (10–23)	6.2 (3.5–8.9)	6.2 (3.5–9.0)
Fiji	< 1	0.45 (0.35–0.57)	51 (39–64)	0.01 (<0.1–<0.1)	0.93 (0.71–1.2)	0 (0–0)	0 (0–0)
Finland	6	0.31 (0.26–0.35)	5.6 (4.8–6.4)	0.01 (0–<0.1)	0.1 (<0.1–0.13)	0.017 (<0.01–0.028)	0.31 (0.11–0.51)
France	64	5.3 (4.7–6.0)	8.2 (7.2–9.3)	0.41 (0.32–0.50)	0.63 (0.49–0.78)	0.088 (0.063–0.11)	0.14 (<0.1–0.17)
French Polynesia	< 1	0.05 (<0.1–<0.1)	19 (16–22)			<0.01 (<0.01–<0.01)	1.7 (0.39–3.0)
Gabon	2	8 (5.9–10)	465 (344–604)	0.25 (0.15–0.37)	14 (8.8–21)	0.4 (0.23–0.56)	23 (13–32)
Gambia	2	3.5 (2.6–4.4)	174 (131–223)	0.6 (0.39–0.86)	30 (19–43)	0.12 (0–0.25)	6 (0–13)
Georgia	4	4 (3.2–4.8)	99 (80–120)	0.26 (0.16–0.38)	6.4 (3.9–9.5)	0.98 (0.81–1.1)	25 (20–28)
Germany	81	6.5 (5.6–7.5)	8.1 (6.9–9.3)	0.2 (0.15–0.25)	0.24 (0.19–0.30)	0.23 (0.11–0.34)	0.29 (0.14–0.42)
Ghana	27	44 (21–75)	160 (77–273)	9.9 (4.6–17)	36 (17–62)	1.5 (0–3.4)	5.5 (0–12)
Greece	11	0.49 (0.42–0.56)	4.5 (3.8–5.1)	0.02 (<0.1–<0.1)	0.18 (0.14–0.22)	0.011 (0–0.028)	0.1 (0–0.26)
Greenland	< 1	0.09 (<0.1–0.11)	164 (141–189)			<0.01 (<0.01–<0.01)	5.5 (4.1–6.9)
Grenada	< 1	0.01 (0–<0.1)	5.4 (4.6–6.2)	0 (0–0)	2.2 (1.8–2.5)	<0.01 (<0.01–<0.01)	0.16 (<0.1–0.25)
Guam	< 1	0.09 (<0.1–0.10)	51 (44–59)	0 (0–0)	<0.1 (<0.1–<0.1)	0 (0–0)	0 (0–0)
Guatemala	16	4.2 (3.2–5.2)	25 (20–32)	0.27 (0.21–0.34)	1.7 (1.3–2.1)	0.23 (0.15–0.31)	1.4 (0.92–1.9)
Guinea	13	22 (14–32)	177 (114–252)	5.4 (3.5–7.9)	43 (27–63)	0.78 (0–1.7)	6.2 (0–13)
Guinea-Bissau	2	6.9 (4.5–9.8)	373 (241–533)	1.8 (1.1–2.6)	97 (60–142)	0.21 (0–0.49)	11 (0–27)
Guyana	< 1	0.71 (0.55–0.90)	93 (72–117)	0.17 (0.13–0.22)	22 (17–28)	0.043 (0.029–0.058)	5.6 (3.8–7.6)
Haiti	11	21 (17–25)	194 (156–235)	3.4 (2.2–4.9)	32 (21–46)	0.79 (0.45–1.1)	7.4 (4.2–10)
Honduras	8	3.5 (2.9–4.1)	43 (36–51)	0.36 (0.23–0.52)	4.5 (2.9–6.5)	0.11 (0.058–0.17)	1.4 (0.72–2.1)
Hungary	10	0.92 (0.79–1.1)	9.3 (8.0–11)	0.01 (<0.1–<0.1)	0.12 (<0.1–0.15)	0.037 (0.023–0.052)	0.38 (0.23–0.53)
Iceland	< 1	0.01 (<0.1–<0.1)	2.4 (2.1–2.8)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)
India	1 311	2 840 (1 470–4 650)	217 (112–355)	113 (58–186)	8.6 (4.4–14)	130 (88–180)	9.9 (6.7–14)
Indonesia	258	1 020 (658–1 450)	395 (255–564)	78 (48–116)	30 (18–45)	32 (19–45)	12 (7.4–17)
Iran (Islamic Republic of)	79	13 (9.8–16)	16 (12–20)	0.35 (0.25–0.46)	0.44 (0.31–0.58)	0.25 (0.15–0.35)	0.32 (0.19–0.44)
Iraq	36	16 (14–18)	43 (38–49)	0.02 (<0.1–<0.1)	<0.1 (<0.1–<0.1)	1.2 (0.88–1.5)	3.3 (2.4–4.1)
Ireland	5	0.34 (0.29–0.39)	7.2 (6.2–8.3)	0.01 (<0.1–<0.1)	0.31 (0.24–0.39)	<0.01 (0–0.011)	<0.1 (0–0.23)
Israel	8	0.32 (0.28–0.37)	4 (3.4–4.6)	0.02 (<0.1–<0.1)	0.23 (0.20–0.27)	0.032 (0.017–0.048)	0.4 (0.21–0.60)
Italy	60	3.5 (3.0–4.0)	5.8 (5.0–6.7)	0.21 (0.16–0.26)	0.35 (0.27–0.44)	0.12 (0.074–0.16)	0.2 (0.12–0.27)
Jamaica	3	0.13 (0.10–0.16)	4.6 (3.5–5.8)	0.03 (<0.1–<0.1)	1.1 (0.83–1.4)	<0.01 (0–<0.01)	<0.1 (0–0.24)
Japan	127	21 (18–24)	17 (14–19)	0.09 (<0.1–0.11)	<0.1 (<0.1–<0.1)	0.27 (0.18–0.36)	0.21 (0.14–0.28)
Jordan	8	0.53 (0.41–0.67)	7 (5.4–8.8)	0 (0–0)	<0.1 (0–<0.1)	0.039 (0.012–0.067)	0.51 (0.16–0.88)
Kazakhstan	18	16 (14–17)	89 (80–99)	0.5 (0.32–0.72)	2.8 (1.8–4.1)	8.8 (7.1–10)	50 (40–57)
Kenya	46	107 (87–129)	233 (189–281)	36 (29–43)	78 (63–94)	2 (1.3–2.8)	4.3 (2.8–6.1)
Kiribati	< 1	0.62 (0.48–0.78)	551 (425–695)	0 (0–0)	2.3 (1.7–3.0)	0.041 (0.025–0.056)	36 (22–50)
Kuwait	4	0.86 (0.74–0.99)	22 (19–25)	0 (0–0)	<0.1 (<0.1–<0.1)	0.014 (<0.01–0.024)	0.36 (0.13–0.62)
Kyrgyzstan	6	8.5 (7.1–10)	144 (120–170)	0.26 (0.17–0.37)	4.4 (2.8–6.3)	5 (4.1–5.9)	84 (69–99)
Lao People's Democratic Republic	7	12 (8.0–18)	182 (118–260)	0.59 (0.36–0.88)	8.7 (5.3–13)	0.76 (0.39–1.1)	11 (5.7–16)
Latvia	2	0.8 (0.69–0.92)	41 (35–47)	0.21 (0.17–0.24)	10 (8.8–12)	0.099 (0.075–0.12)	5 (3.8–6.1)
Lebanon	6	0.75 (0.65–0.87)	13 (11–15)	0.01 (<0.1–<0.1)	0.15 (0.12–0.19)	0.028 (<0.01–0.049)	0.48 (0.12–0.84)
Lesotho	2	17 (11–24)	788 (510–1 200)	12 (7.7–18)	566 (359–820)	1.1 (0.76–1.5)	52 (36–70)
Liberia	5	14 (9.0–20)	308 (199–440)	1.8 (1.1–2.6)	40 (25–58)	0.43 (0–0.99)	9.5 (0–22)
Libya	6	2.5 (1.6–3.6)	40 (26–57)	0.05 (<0.1–<0.1)	0.87 (0.55–1.3)	0.12 (0.069–0.16)	1.9 (1.1–2.5)
Lithuania	3	1.6 (1.4–1.8)	56 (48–64)	0.06 (<0.1–<0.1)	2 (1.7–2.4)	0.36 (0.30–0.41)	13 (10–14)
Luxembourg	< 1	0.03 (<0.1–<0.1)	6.1 (5.2–7.0)	0 (0–0)	0.51 (0.40–0.65)	0 (0–0)	0 (0–0)
Madagascar	24	57 (37–82)	236 (153–337)	3.6 (2.2–5.4)	15 (9.1–22)	0.46 (0.12–0.81)	1.9 (0.50–3.3)
Malawi	17	33 (18–53)	193 (104–310)	18 (9.4–29)	104 (55–168)	0.44 (0.12–0.75)	2.6 (0.70–4.4)
Malaysia	30	27 (23–31)	89 (77–103)	1.5 (1.2–1.7)	4.8 (4.1–5.6)	0.53 (0.41–0.64)	1.7 (1.4–2.1)
Maldives	< 1	0.19 (0.15–0.24)	53 (41–66)	0 (0–0)	<0.1 (<0.1–<0.1)	<0.01 (<0.01–<0.01)	1.6 (1.2–2.0)
Mali	18	10 (6.5–14)	57 (37–81)	1.4 (0.85–2.0)	7.7 (4.8–11)	0.61 (0.14–1.1)	3.5 (0.80–6.3)
Malta	< 1	0.04 (<0.1–<0.1)	8.8 (7.5–10)	0.01 (<0.1–<0.1)	1.6 (1.4–1.9)	0 (0–0)	0 (0–0)
Marshall Islands	< 1	0.18 (0.15–0.22)	344 (281–413)	0 (0–0)	0.67 (0.50–0.86)	0 (0–0)	0 (0–0)
Mauritania	4	4.3 (2.8–6.2)	107 (69–152)	0.44 (0.27–0.66)	11 (6.6–16)	0.15 (0–0.32)	3.7 (0–7.9)
Mauritius	1	0.28 (0.18–0.39)	22 (14–31)	0.03 (<0.1–<0.1)	2.7 (1.7–3.9)	<0.01 (0–0.012)	0.39 (0–0.94)
Mexico	127	27 (22–32)	21 (17–25)	3 (1.9–4.3)	2.3 (1.5–3.4)	0.91 (0.75–1.1)	0.72 (0.59–0.87)
Micronesia (Federated States of)	< 1	0.13 (0.10–0.16)	124 (96–157)			<0.01 (<0.01–0.011)	7.8 (4.6–11)
Monaco	< 1	0	0			0 (0–0)	0 (0–0)
Mongolia	3	13 (6.5–21)	428 (220–703)	0.01 (<0.1–<0.1)	0.34 (0.26–0.44)	0.63 (0.37–0.89)	21 (13–30)
Montenegro	< 1	0.13 (<0.1–0.19)	21 (13–30)	0 (0–0)	0.17 (0.11–0.25)	<0.01 (0–<0.01)	0.5 (0–1.2)
Montserrat	< 1	0	0			0 (0–0)	0 (0–0)
Morocco	34	37 (34–40)	107 (98–117)	0.79 (0.63–0.96)	2.3 (1.8–2.8)	0.58 (0.32–0.84)	1.7 (0.93–2.4)
Mozambique	28	154 (100–220)	551 (356–787)	79 (50–115)	284 (179–412)	7.3 (4.1–10)	26 (15–36)
Myanmar	54	197 (144–258)	365 (267–479)	17 (11–25)	32 (21–47)	14 (8.9–18)	26 (17–33)
Namibia	2	12 (9.3–15)	489 (376–616)	4.9 (3.8–6.2)	199 (153–252)	1.1 (0.84–1.3)	45 (34–53)

<sup>a</sup> Rates are per 100 000 population.

TABLE A4.1

TB incidence estimates, 2015

	Incidence (including HIV)			Incidence (HIV-positive)		Incidence (MDR/RR-TB)	
	Population (millions)	Number (thousands)	Rate <sup>a</sup>	Number (thousands)	Rate <sup>a</sup>	Number (thousands)	Rate <sup>a</sup>
Nauru	< 1	0.01 (<0.1–<0.1)	113 (97–130)			<0.01 (<0.01–<0.01)	16 (13–18)
Nepal	29	44 (39–50)	156 (137–176)	1.9 (1.5–2.4)	6.7 (5.3–8.4)	1.5 (0.95–2.1)	5.3 (3.3–7.4)
Netherlands	17	0.98 (0.84–1.1)	5.8 (5.0–6.7)	0.07 (<0.1–<0.1)	0.42 (0.35–0.50)	0.023 (0.010–0.036)	0.14 (<0.1–0.21)
New Caledonia	< 1	0.06 (<0.1–<0.1)	24 (21–28)			0 (0–0)	0 (0–0)
New Zealand	5	0.34 (0.29–0.39)	7.4 (6.4–8.5)	0 (0–0)	<0.1 (<0.1–<0.1)	0.01 (<0.01–0.019)	0.22 (<0.1–0.42)
Nicaragua	6	3.1 (2.4–3.9)	51 (39–64)	0.15 (0.12–0.20)	2.5 (1.9–3.2)	0.078 (0.034–0.12)	1.3 (0.56–2.0)
Niger	20	19 (12–27)	95 (62–136)	1 (0.65–1.5)	5.2 (3.3–7.5)	0.71 (0–1.5)	3.6 (0–7.5)
Nigeria	182	586 (345–890)	322 (189–488)	100 (56–155)	55 (31–85)	29 (15–43)	16 (8.2–24)
Niue	< 1	0 (0–0)	8.1 (5.2–12)			0 (0–0)	0 (0–0)
Northern Mariana Islands	< 1	0.03 (<0.1–<0.1)	58 (50–67)	0 (0–0)	<0.1 (<0.1–<0.1)	<0.01 (0–<0.01)	3.6 (0–9.3)
Norway	5	0.33 (0.28–0.38)	6.3 (5.4–7.3)	0.01 (<0.1–<0.1)	0.15 (0.12–0.19)	0.01 (<0.01–0.019)	0.19 (<0.1–0.36)
Oman	4	0.38 (0.32–0.43)	8.4 (7.2–9.7)	0 (0–0)	<0.1 (<0.1–0.10)	0.015 (<0.01–0.024)	0.33 (0.13–0.53)
Pakistan	189	510 (330–729)	270 (175–386)	8.8 (5.4–13)	4.6 (2.8–6.9)	26 (16–36)	14 (8.5–19)
Palau	< 1	0.02 (<0.1–<0.1)	76 (65–87)	0 (0–0)	<0.1 (<0.1–<0.1)	0 (0–0)	0 (0–0)
Panama	4	2 (1.5–2.5)	50 (38–63)	0.23 (0.17–0.29)	5.7 (4.3–7.3)	0.089 (0.055–0.12)	2.3 (1.4–3.1)
Papua New Guinea	8	33 (27–40)	432 (352–521)	4.9 (3.0–7.3)	64 (39–96)	1.9 (1.2–2.5)	25 (16–33)
Paraguay	7	2.7 (2.3–3.1)	41 (35–47)	0.24 (0.20–0.28)	3.6 (3.0–4.2)	0.087 (0.044–0.13)	1.3 (0.66–2.0)
Peru	31	37 (29–47)	119 (92–150)	2.3 (1.7–2.9)	7.2 (5.5–9.1)	3.2 (2.7–3.8)	10 (8.6–12)
Philippines	101	324 (279–373)	322 (277–370)	4.3 (3.3–5.4)	4.3 (3.3–5.4)	17 (14–20)	17 (14–20)
Poland	39	7.2 (6.2–8.3)	19 (16–21)	0.14 (0.11–0.18)	0.37 (0.28–0.46)	0.07 (0.049–0.091)	0.18 (0.13–0.24)
Portugal	10	2.4 (2.1–2.8)	23 (20–27)	0.35 (0.29–0.41)	3.4 (2.8–3.9)	0.033 (0.019–0.047)	0.32 (0.18–0.45)
Puerto Rico	4	0.06 (<0.1–<0.1)	1.6 (1.4–1.9)	0.01 (<0.1–<0.1)	0.28 (0.24–0.32)	0 (0–0)	0 (0–0)
Qatar	2	0.76 (0.65–0.87)	34 (29–39)	0 (0–0)	<0.1 (<0.1–<0.1)	0.01 (0–0.024)	0.45 (0–1.1)
Republic of Korea	50	40 (37–43)	80 (74–85)	0.48 (0.38–0.58)	0.95 (0.76–1.2)	2.9 (2.4–3.4)	5.8 (4.8–6.8)
Republic of Moldova	4	6.2 (4.0–8.8)	152 (98–217)	0.55 (0.35–0.79)	13 (8.5–19)	3.9 (2.9–4.8)	96 (71–118)
Romania	20	16 (14–19)	84 (72–97)	0.42 (0.35–0.50)	2.2 (1.8–2.5)	0.94 (0.73–1.1)	4.8 (3.7–5.6)
Russian Federation	143	115 (98–132)	80 (69–92)	11 (9.3–13)	7.9 (6.5–9.4)	60 (49–71)	42 (34–49)
Rwanda	12	6.6 (5.6–7.6)	56 (48–65)	1.8 (1.1–2.5)	15 (9.8–22)	0.16 (0.10–0.21)	1.4 (0.86–1.8)
Saint Kitts and Nevis	< 1	0 (0–0)	5.1 (4.4–5.9)	0 (0–0)	0.7 (0.54–0.87)	<0.01 (<0.01–<0.01)	0.31 (0.16–0.45)
Saint Lucia	< 1	0.02 (<0.1–<0.1)	8.8 (7.6–10)	0 (0–0)	1.4 (0.89–2.0)	0 (0–0)	0 (0–0)
Saint Vincent and the Grenadines	< 1	0.01 (<0.1–<0.1)	7.4 (6.3–8.5)	0 (0–0)	1.1 (0.90–1.2)	<0.01 (<0.01–<0.01)	0.22 (0.10–0.34)
Samoa	< 1	0.02 (<0.1–<0.1)	11 (9.7–13)			0 (0–0)	0 (0–0)
San Marino	< 1	0 (0–0)	2.5 (2.1–2.8)			0 (0–0)	0 (0–0)
Sao Tome and Principe	< 1	0.18 (0.18–0.19)	97 (94–100)	0.03 (<0.1–<0.1)	15 (9.7–21)	0.036 (0.026–0.046)	19 (14–24)
Saudi Arabia	32	3.8 (3.3–4.4)	12 (10–14)	0.14 (0.11–0.16)	0.43 (0.36–0.51)	0.15 (0.12–0.18)	0.48 (0.38–0.57)
Senegal	15	21 (14–30)	139 (90–198)	1.4 (0.92–2.1)	9.5 (6.1–14)	0.41 (0.25–0.57)	2.7 (1.7–3.8)
Serbia	9	1.9 (1.6–2.1)	21 (19–24)	0.03 (<0.1–<0.1)	0.33 (0.26–0.41)	0.028 (0.013–0.043)	0.32 (0.15–0.49)
Seychelles	< 1	0.01 (<0.1–<0.1)	9.5 (8.2–11)	0 (0–0)	<0.1 (<0.1–<0.1)	0 (0–0)	0 (0–0)
Sierra Leone	6	20 (13–28)	307 (198–438)	2.6 (1.7–3.8)	41 (26–59)	0.7 (0–1.5)	11 (0–23)
Singapore	6	2.5 (2.1–2.9)	44 (38–51)	0.05 (<0.1–<0.1)	0.81 (0.69–0.94)	0.034 (0.018–0.050)	0.61 (0.32–0.89)
Sint Maarten (Dutch part)	< 1	0 (0–0)	5.9 (5.1–6.8)			<0.01 (<0.01–<0.01)	0.14 (<0.1–0.19)
Slovakia	5	0.35 (0.30–0.41)	6.5 (5.6–7.5)	0 (0–0)	<0.1 (0–<0.1)	<0.01 (<0.01–<0.01)	<0.1 (<0.1–<0.1)
Slovenia	2	0.15 (0.13–0.17)	7.2 (6.2–8.3)	0 (0–0)	<0.1 (0–<0.1)	0 (0–0)	0 (0–0)
Solomon Islands	< 1	0.52 (0.40–0.65)	89 (69–112)			0.032 (0.019–0.045)	5.5 (3.3–7.7)
Somalia	11	30 (19–42)	274 (177–391)	0.53 (0.33–0.77)	4.9 (3.1–7.1)	3.1 (1.8–4.4)	29 (17–41)
South Africa	54	454 (294–649)	834 (539–1 190)	258 (165–370)	473 (303–680)	20 (13–27)	37 (24–50)
South Sudan	12	18 (12–26)	146 (95–209)	2.1 (1.3–3.0)	17 (11–24)	0.76 (0.37–1.2)	6.2 (3.0–9.7)
Spain	46	5.5 (4.7–6.4)	12 (10–14)	0.4 (0.34–0.48)	0.87 (0.73–1.0)	0.042 (0.016–0.069)	<0.1 (<0.1–0.15)
Sri Lanka	21	13 (9.7–18)	65 (47–86)	0.04 (<0.1–<0.1)	0.21 (0.13–0.30)	0.089 (0–0.19)	0.43 (0–0.92)
Sudan	40	35 (21–53)	88 (52–133)	1.6 (0.84–2.6)	4 (2.1–6.5)	1.6 (0.089–3.0)	4 (0.22–7.5)
Suriname	< 1	0.18 (0.14–0.23)	33 (26–42)	0.05 (<0.1–<0.1)	10 (7.8–13)	0.024 (0.011–0.037)	4.4 (2.0–6.8)
Swaziland	1	7.3 (4.7–10)	565 (366–807)	5.2 (3.4–7.5)	408 (261–586)	0.89 (0.46–1.3)	69 (36–101)
Sweden	10	0.9 (0.77–1.0)	9.2 (7.9–11)	0.03 (<0.1–<0.1)	0.27 (0.21–0.34)	0.045 (0.026–0.064)	0.46 (0.27–0.65)
Switzerland	8	0.61 (0.52–0.70)	7.4 (6.3–8.5)	0.03 (<0.1–<0.1)	0.39 (0.30–0.50)	0.029 (0.013–0.045)	0.35 (0.16–0.54)
Syrian Arab Republic	19	3.6 (2.8–4.6)	20 (15–25)			0.34 (0.21–0.47)	1.8 (1.1–2.5)
Tajikistan	8	7.4 (5.7–9.3)	87 (67–109)	0.2 (0.15–0.25)	2.4 (1.8–3.0)	1.9 (1.5–2.2)	22 (18–26)
Thailand	68	117 (69–176)	172 (102–259)	15 (8.0–25)	22 (12–37)	4.5 (2.9–6.2)	6.6 (4.3–9.1)
The Former Yugoslav Republic of Macedonia	2	0.27 (0.26–0.28)	13 (12–14)	0 (0–0)	<0.1 (<0.1–<0.1)	<0.01 (<0.01–0.016)	0.44 (0.12–0.77)
Timor-Leste	1	5.9 (3.8–8.4)	498 (322–712)	0.09 (<0.1–0.13)	7.3 (4.5–11)	0.22 (0.15–0.29)	19 (13–24)
Togo	7	3.8 (2.7–5.1)	52 (37–69)	0.82 (0.53–1.2)	11 (7.2–16)	0.13 (0–0.28)	1.8 (0–3.8)
Tokelau	< 1	0	0			0 (0–0)	0 (0–0)
Tonga	< 1	0.02 (<0.1–<0.1)	15 (13–17)	0 (0–0)	<0.1 (<0.1–<0.1)	<0.01 (<0.01–<0.01)	0.79 (0.44–1.1)
Trinidad and Tobago	1	0.23 (0.19–0.26)	17 (14–19)	0.04 (<0.1–<0.1)	2.9 (2.4–3.3)	0.01 (<0.01–0.012)	0.74 (0.59–0.88)
Tunisia	11	4.2 (3.2–5.3)	37 (29–47)	0.03 (<0.1–<0.1)	0.26 (0.18–0.34)	0.025 (<0.01–0.043)	0.22 (<0.1–0.38)
Turkey	79	14 (12–17)	18 (16–21)	0.1 (<0.1–0.11)	0.12 (0.10–0.15)	0.71 (0.60–0.83)	0.9 (0.76–1.1)
Turkmenistan	5	3.8 (2.9–4.8)	70 (54–88)			0.85 (0.67–1.0)	16 (12–19)

<sup>a</sup> Rates are per 100 000 population.

TABLE A4.1

TB incidence estimates, 2015

	Population (millions)	Incidence (including HIV)		Incidence (HIV-positive)		Incidence (MDR/RR-TB)	
		Number (thousands)	Rate <sup>a</sup>	Number (thousands)	Rate <sup>a</sup>	Number (thousands)	Rate <sup>a</sup>
Turks and Caicos Islands	< 1	0 (0-0)	6.7 (5.7-7.7)	0 (0-0)	6.7 (5.5-8.0)	<0.01 (<0.01-<0.01)	0.15 (<0.1-0.21)
Tuvalu	< 1	0.02 (<0.1-<0.1)	232 (199-267)	0 (0-0)	0.23 (0.18-0.29)	<0.01 (<0.01-<0.01)	12 (6.9-17)
Uganda	39	79 (47-119)	202 (120-304)	26 (16-37)	66 (42-94)	1.9 (1.0-2.8)	4.9 (2.6-7.2)
Ukraine	45	41 (26-58)	91 (59-130)	9 (5.7-13)	20 (13-29)	22 (17-27)	49 (38-60)
United Arab Emirates	9	0.14 (<0.1-0.21)	1.6 (1.0-2.2)	0.01 (0-<0.1)	<0.1 (<0.1-<0.1)	<0.01 (<0.01-<0.01)	<0.1 (<0.1-<0.1)
United Kingdom of Great Britain and Northern Ireland	65	6.6 (6.0-7.2)	10 (9.2-11)	0.31 (0.25-0.38)	0.48 (0.38-0.59)	0.11 (0.072-0.15)	0.17 (0.11-0.23)
United Republic of Tanzania	53	164 (78-281)	306 (146-525)	57 (27-100)	107 (50-186)	2.6 (0.56-4.7)	4.9 (1.0-8.8)
United States of America	322	10 (8.9-12)	3.2 (2.8-3.7)	0.58 (0.49-0.67)	0.18 (0.15-0.21)	0.18 (0.14-0.23)	<0.1 (<0.1-<0.1)
Uruguay	3	1 (0.89-1.2)	30 (26-35)	0.16 (0.14-0.19)	4.7 (4.0-5.5)	<0.01 (<0.01-0.014)	0.21 (<0.1-0.41)
US Virgin Islands	< 1	0.01 (<0.1-<0.1)	7.7 (6.8-8.7)			0 (0-0)	0 (0-0)
Uzbekistan	30	24 (17-31)	79 (57-105)	1.2 (0.74-1.7)	3.9 (2.5-5.7)	10 (7.6-12)	33 (25-40)
Vanuatu	< 1	0.17 (0.14-0.20)	63 (52-74)			0 (0-0)	0 (0-0)
Venezuela (Bolivarian Republic of)	31	8.9 (6.9-11)	29 (22-36)	0.96 (0.73-1.2)	3.1 (2.3-3.9)	0.34 (0.19-0.49)	1.1 (0.61-1.6)
Viet Nam	93	128 (103-155)	137 (110-166)	5.5 (3.5-7.9)	5.9 (3.8-8.4)	7.3 (5.2-9.5)	7.8 (5.6-10)
Wallis and Futuna Islands	< 1	0	0			0 (0-0)	0 (0-0)
West Bank and Gaza Strip	5	0.05 (<0.1-<0.1)	1.1 (0.85-1.4)	0 (0-0)	0 (0-0)	<0.01 (<0.01-<0.01)	<0.1 (<0.1-<0.1)
Yemen	27	13 (11-15)	48 (42-54)	0.15 (0.11-0.18)	0.55 (0.42-0.68)	0.34 (0.16-0.52)	1.3 (0.60-1.9)
Zambia	16	63 (41-91)	391 (253-558)	38 (24-55)	235 (149-339)	2.3 (1.4-3.2)	14 (8.6-20)
Zimbabwe	16	38 (28-49)	242 (179-314)	26 (17-37)	167 (107-240)	1.8 (1.0-2.5)	12 (6.4-16)
<b>WHO regions</b>							
African Region	989	2 720 (2 360-3 110)	275 (239-314)	834 (710-969)	84 (72-98)	110 (88-120)	11 (8.9-13)
Region of the Americas	991	268 (250-287)	27 (25-29)	32 (29-35)	3.2 (2.9-3.5)	11 (10-12)	1.1 (1.0-1.2)
Eastern Mediterranean Region	648	749 (561-965)	116 (86-149)	13 (9.5-17)	2 (1.5-2.7)	39 (30-50)	6 (4.6-7.7)
European Region	910	323 (299-349)	36 (33-38)	27 (23-31)	3 (2.5-3.4)	120 (110-140)	14 (12-15)
South-East Asia Region	1 928	4 740 (3 230-6 540)	246 (167-339)	227 (159-307)	12 (8.2-16)	200 (150-250)	10 (7.9-13)
Western Pacific Region	1 856	1 590 (1 440-1 740)	86 (78-94)	34 (29-40)	1.8 (1.6-2.1)	100 (88-120)	5.5 (4.8-6.4)
<b>Global</b>	7 323	10 400 (8 740-12 200)	142 (119-166)	1 170 (1 020-1 320)	16 (14-18)	580 (520-640)	7.9 (7.2-8.7)

<sup>a</sup> Rates are per 100 000 population.

TABLE A4.2

**Estimates of TB mortality, 2015.** Deaths from TB among HIV-positive people are officially classified as deaths caused by HIV/AIDS in the *International Classification of Diseases*.

	Population (millions)	Mortality (HIV-negative people)		Mortality (HIV-positive people)		Mortality (HIV-negative and HIV-positive people) <sup>b</sup>	
		Number (thousands)	Rate <sup>a</sup>	Number (thousands)	Rate <sup>a</sup>	Number (thousands)	Rate <sup>a</sup>
Afghanistan	33	12 (7.1–18)	37 (22–55)	0.17 (0.14–0.21)	0.53 (0.44–0.63)	12 (7.3–18)	37 (22–56)
Albania	3	0.01 (<0.01–0.015)	0.35 (0.22–0.51)	<0.01 (<0.01–<0.01)	<0.1 (0–0.17)	0.012 (<0.01–0.017)	0.4 (0.25–0.59)
Algeria	40	3.2 (2.1–4.6)	8.2 (5.3–12)	0.035 (<0.01–0.13)	<0.1 (0–0.32)	3.3 (2.1–4.6)	8.2 (5.4–12)
American Samoa	< 1	<0.01 (<0.01–<0.01)	0.68 (0.42–1.0)	0 (0–0)	0 (0–<0.1)	<0.01 (<0.01–<0.01)	0.68 (0.42–1.0)
Andorra	< 1	<0.01 (<0.01–<0.01)	0.54 (0.33–0.79)	0	0	<0.01 (<0.01–<0.01)	0.54 (0.33–0.79)
Angola	25	11 (6.6–17)	45 (27–67)	7.2 (1.6–17)	29 (6.5–67)	18 (10–29)	73 (41–115)
Anguilla	< 1	0	0	0	0	0	0
Antigua and Barbuda	< 1	<0.01 (<0.01–<0.01)	1.3 (1.1–1.5)	<0.01 (0–<0.01)	0.28 (0–1.4)	<0.01 (<0.01–<0.01)	1.6 (0.90–2.5)
Argentina	43	0.7 (0.670–0.730)	1.6 (1.5–1.7)	0.1 (<0.01–0.52)	0.24 (0–1.2)	0.81 (0.540–1.1)	1.9 (1.3–2.6)
Armenia	3	0.092 (0.077–0.110)	3 (2.6–3.6)	0.014 (<0.01–0.074)	0.46 (0–2.4)	0.11 (0.067–0.150)	3.5 (2.2–5.1)
Aruba	< 1	<0.01 (<0.01–<0.01)	1 (0.63–1.5)	0	0	<0.01 (<0.01–<0.01)	1 (0.63–1.5)
Australia	24	0.044 (0.044–0.044)	0.18 (0.18–0.19)	<0.01 (0–0.019)	<0.1 (0–<0.1)	0.048 (0.038–0.059)	0.2 (0.16–0.25)
Austria	9	0.078 (0.077–0.079)	0.91 (0.90–0.92)	<0.01 (0–0.010)	<0.1 (0–0.12)	0.08 (0.074–0.086)	0.94 (0.87–1.0)
Azerbaijan	10	0.038 (0.035–0.042)	0.39 (0.36–0.43)	0.02 (<0.01–0.055)	0.21 (<0.1–0.56)	0.058 (0.034–0.089)	0.6 (0.35–0.91)
Bahamas	< 1	<0.01 (<0.01–<0.01)	0.49 (0.49–0.49)	<0.01 (<0.01–<0.01)	0.93 (0.32–1.9)	<0.01 (<0.01–<0.01)	1.4 (0.75–2.3)
Bahrain	1	<0.01 (<0.01–<0.01)	0.44 (0.38–0.50)	<0.01 (0–<0.01)	0.11 (0–0.56)	<0.01 (<0.01–0.012)	0.55 (0.28–0.90)
Bangladesh	161	73 (43–110)	45 (27–68)	0.23 (0.19–0.29)	0.14 (0.12–0.18)	73 (44–110)	45 (27–68)
Barbados	< 1	<0.01 (<0.01–<0.01)	0.33 (0.33–0.34)	0	0	<0.01 (<0.01–<0.01)	0.33 (0.33–0.34)
Belarus	9	0.45 (0.420–0.490)	4.8 (4.5–5.1)	0.072 (0.021–0.15)	0.76 (0.22–1.6)	0.53 (0.460–0.600)	5.5 (4.8–6.3)
Belgium	11	0.054 (0.052–0.055)	0.47 (0.46–0.49)	0.011 (<0.01–0.055)	0.1 (0–0.49)	0.065 (0.038–0.098)	0.57 (0.34–0.87)
Belize	< 1	<0.01 (<0.01–<0.01)	2.4 (2.4–2.4)	<0.01 (<0.01–0.010)	0.85 (<0.1–2.9)	0.012 (<0.01–0.018)	3.3 (1.9–4.9)
Benin	11	1 (0.620–1.6)	9.5 (5.7–14)	0.29 (0.11–0.56)	2.7 (1.0–5.2)	1.3 (0.860–1.9)	12 (7.9–17)
Bermuda	< 1	0	0	0	0	0	0
Bhutan	< 1	0.12 (0.079–0.170)	16 (10–22)	0.024 (0.018–0.030)	3.1 (2.4–3.9)	0.14 (0.100–0.200)	19 (13–25)
Bolivia (Plurinational State of)	11	0.34 (0.220–0.500)	3.2 (2.0–4.6)	0.17 (0.10–0.26)	1.6 (0.93–2.4)	0.51 (0.370–0.690)	4.8 (3.4–6.4)
Bonaire, Saint Eustatius and Saba	< 1	<0.01 (<0.01–<0.01)	<0.1 (<0.1–0.13)	0	0	<0.01 (<0.01–<0.01)	<0.1 (<0.1–0.13)
Bosnia and Herzegovina	4	0.12 (0.100–0.130)	3 (2.7–3.4)	<0.01 (<0.01–<0.01)	<0.1 (0–<0.1)	0.12 (0.100–0.130)	3.1 (2.7–3.4)
Botswana	2	0.59 (0.350–0.900)	26 (15–40)	1.4 (0.67–2.5)	63 (30–110)	2 (1.2–3.1)	90 (53–136)
Brazil	208	5.5 (5.2–5.9)	2.7 (2.5–2.8)	2.2 (1.2–3.6)	1.1 (0.56–1.7)	7.7 (6.5–9.0)	3.7 (3.1–4.4)
British Virgin Islands	< 1	0	0	0	0	0	0
Brunei Darussalam	< 1	0.023 (0.021–0.025)	5.3 (4.9–5.8)	0	0	0.023 (0.021–0.025)	5.3 (4.9–5.8)
Bulgaria	7	0.09 (0.088–0.092)	1.3 (1.2–1.3)	<0.01 (0–<0.01)	0 (0–<0.1)	0.09 (0.088–0.093)	1.3 (1.2–1.3)
Burkina Faso	18	1.6 (0.970–2.4)	9 (5.4–14)	0.27 (0.12–0.48)	1.5 (0.67–2.7)	1.9 (1.2–2.7)	11 (6.7–15)
Burundi	11	2.7 (1.6–4.0)	24 (14–36)	0.66 (0.32–1.1)	5.9 (2.9–10)	3.3 (2.2–4.8)	30 (19–43)
Cabo Verde	< 1	0.027 (0.026–0.029)	5.3 (4.9–5.6)	0.037 (0.024–0.051)	7 (4.7–9.9)	0.064 (0.051–0.079)	12 (9.8–15)
Cambodia	16	8.6 (6.1–12)	55 (39–74)	0.44 (0.19–0.79)	2.8 (1.2–5.0)	9.1 (6.5–12)	58 (42–77)
Cameroon	23	6.9 (4.1–10)	30 (18–45)	6.2 (3.4–9.7)	27 (15–42)	13 (9.0–18)	56 (39–77)
Canada	36	0.11 (0.100–0.110)	0.29 (0.29–0.30)	0.019 (<0.01–0.096)	<0.1 (0–0.27)	0.12 (0.078–0.180)	0.35 (0.22–0.51)
Cayman Islands	< 1	0	0	0	0	0	0
Central African Republic	5	2.2 (1.3–3.4)	45 (26–70)	2.7 (1.0–5.3)	55 (20–107)	4.9 (2.8–7.6)	101 (58–156)
Chad	14	3.2 (1.9–4.8)	23 (13–35)	2.5 (2.0–3.0)	18 (14–21)	5.7 (4.2–7.3)	40 (30–52)
Chile	18	0.47 (0.460–0.470)	2.6 (2.6–2.6)	0.02 (<0.01–0.097)	0.11 (0–0.54)	0.49 (0.430–0.540)	2.7 (2.4–3.0)
China	1 376	35 (34–37)	2.6 (2.5–2.7)	2.6 (1.2–4.5)	0.19 (<0.1–0.33)	38 (36–40)	2.8 (2.6–2.9)
China, Hong Kong SAR	7	0.18 (0.180–0.180)	2.5 (2.4–2.5)	<0.01 (<0.01–<0.01)	<0.1 (<0.1–0.11)	0.19 (0.180–0.190)	2.6 (2.5–2.6)
China, Macao SAR	< 1	0.035 (0.022–0.051)	5.9 (3.7–8.7)	<0.01 (<0.01–<0.01)	<0.1 (<0.1–0.15)	0.035 (0.022–0.051)	6 (3.7–8.7)
Colombia	48	1 (0.990–1.0)	2.1 (2.1–2.1)	0.42 (0.13–0.88)	0.87 (0.26–1.8)	1.4 (1.1–1.8)	3 (2.2–3.8)
Comoros	< 1	0.061 (0.036–0.092)	7.8 (4.6–12)	<0.01 (<0.01–<0.01)	0.38 (0.16–0.68)	0.064 (0.039–0.095)	8.1 (4.9–12)
Congo	5	2.3 (1.3–3.5)	49 (29–75)	2.4 (2.0–2.9)	53 (44–63)	4.7 (3.6–5.9)	102 (79–129)
Cook Islands	< 1	<0.01 (<0.01–<0.01)	1.4 (0.86–2.1)	0 (0–0)	0 (0–0)	<0.01 (<0.01–<0.01)	1.4 (0.86–2.1)
Costa Rica	5	0.049 (0.046–0.052)	1 (0.96–1.1)	<0.01 (<0.01–0.025)	0.15 (<0.1–0.52)	0.056 (0.044–0.071)	1.2 (0.91–1.5)
Côte d'Ivoire	23	5 (3.0–7.5)	22 (13–33)	2.5 (1.1–4.4)	11 (4.9–20)	7.5 (4.9–11)	33 (22–46)
Croatia	4	0.033 (0.033–0.033)	0.78 (0.78–0.78)	<0.01 (0–<0.01)	<0.1 (0–0.10)	0.034 (0.032–0.036)	0.8 (0.75–0.86)
Cuba	11	0.047 (0.046–0.048)	0.41 (0.41–0.42)	0.01 (<0.01–0.045)	<0.1 (0–0.39)	0.057 (0.035–0.084)	0.5 (0.31–0.74)
Curaçao	< 1	<0.01 (<0.01–<0.01)	0.15 (<0.1–0.22)	<0.01 (0–<0.01)	0.25 (0–1.2)	<0.01 (<0.01–<0.01)	0.4 (<0.1–1.3)
Cyprus	1	<0.01 (<0.01–<0.01)	0.1 (<0.1–0.11)	<0.01 (0–<0.01)	<0.1 (0–<0.1)	<0.01 (<0.01–<0.01)	0.11 (<0.1–0.16)
Czechia	11	0.039 (0.039–0.039)	0.37 (0.37–0.37)	<0.01 (0–<0.01)	<0.1 (0–<0.1)	0.04 (0.038–0.042)	0.38 (0.36–0.40)
Democratic People's Republic of Korea	25	15 (10–22)	61 (40–87)	0.037 (0.016–0.065)	0.15 (<0.1–0.26)	16 (10–22)	62 (40–88)
Democratic Republic of the Congo	77	51 (30–77)	66 (39–99)	16 (13–20)	21 (17–26)	67 (45–93)	87 (59–120)
Denmark	6	0.02 (0.019–0.021)	0.35 (0.33–0.37)	<0.01 (0–<0.01)	<0.1 (0–0.12)	0.021 (0.018–0.025)	0.38 (0.31–0.45)
Djibouti	< 1	0.35 (0.230–0.490)	39 (26–56)	0.035 (<0.01–0.11)	4 (0.26–13)	0.38 (0.250–0.540)	43 (28–61)
Dominica	< 1	<0.01 (<0.01–<0.01)	4.7 (4.6–4.7)	0 (0–0)	0 (0–0)	<0.01 (<0.01–<0.01)	4.7 (4.6–4.7)
Dominican Republic	11	0.49 (0.270–0.770)	4.6 (2.6–7.3)	0.38 (0.12–0.78)	3.6 (1.1–7.4)	0.87 (0.500–1.3)	8.2 (4.8–13)

<sup>a</sup> Rates are per 100 000 population.

<sup>b</sup> All calculations are made before numbers are rounded.



TABLE A4.2

**Estimates of TB mortality, 2015.** Deaths from TB among HIV-positive people are officially classified as deaths caused by HIV/AIDS in the *International Classification of Diseases*.

	Population (millions)	Mortality (HIV-negative people)		Mortality (HIV-positive people)		Mortality (HIV-negative and HIV-positive people) <sup>b</sup>	
		Number (thousands)	Rate <sup>a</sup>	Number (thousands)	Rate <sup>a</sup>	Number (thousands)	Rate <sup>a</sup>
Ecuador	16	0.49 (0.410–0.590)	3.1 (2.5–3.6)	0.3 (0.13–0.54)	1.9 (0.83–3.3)	0.8 (0.590–1.0)	4.9 (3.6–6.4)
Egypt	92	0.22 (0.200–0.240)	0.24 (0.21–0.26)	0.018 (0.012–0.025)	<0.1 (<0.1–<0.1)	0.24 (0.210–0.260)	0.26 (0.23–0.28)
El Salvador	6	0.12 (0.085–0.150)	1.9 (1.4–2.5)	0.024 (<0.01–0.12)	0.39 (0–1.9)	0.14 (0.078–0.220)	2.3 (1.3–3.6)
Equatorial Guinea	< 1	0.063 (0.040–0.092)	7.5 (4.8–11)	0.12 (0.032–0.27)	14 (3.8–32)	0.18 (0.083–0.330)	22 (9.8–39)
Eritrea	5	0.6 (0.280–1.1)	12 (5.3–20)	0.053 (0.018–0.11)	1 (0.34–2.0)	0.66 (0.320–1.1)	13 (6.2–21)
Estonia	1	0.025 (0.025–0.025)	1.9 (1.9–1.9)	<0.01 (<0.01–0.015)	0.25 (0–1.2)	0.028 (0.021–0.037)	2.2 (1.6–2.8)
Ethiopia	99	25 (15–38)	26 (15–38)	3.9 (1.6–7.3)	4 (1.6–7.4)	29 (19–42)	30 (19–43)
Fiji	< 1	0.064 (0.063–0.065)	7.1 (7.0–7.3)	<0.01 (<0.01–<0.01)	0.17 (<0.1–0.54)	0.065 (0.062–0.068)	7.3 (7.0–7.6)
Finland	6	0.037 (0.037–0.037)	0.68 (0.67–0.68)	<0.01 (<0.01–<0.01)	<0.1 (0–<0.1)	0.038 (0.036–0.040)	0.69 (0.66–0.72)
France	64	0.52 (0.490–0.550)	0.8 (0.76–0.85)	0.056 (<0.01–0.27)	<0.1 (0–0.41)	0.57 (0.430–0.730)	0.89 (0.67–1.1)
French Polynesia	< 1	<0.01 (<0.01–<0.01)	1.5 (0.96–2.3)	0	0	<0.01 (<0.01–<0.01)	1.5 (0.96–2.3)
Gabon	2	1.1 (0.680–1.7)	65 (39–97)	0.054 (<0.01–0.15)	3.2 (0.38–8.8)	1.2 (0.720–1.7)	68 (42–101)
Gambia	2	0.4 (0.240–0.590)	20 (12–30)	0.15 (0.080–0.24)	7.5 (4.0–12)	0.54 (0.370–0.760)	27 (18–38)
Georgia	4	0.16 (0.130–0.190)	3.9 (3.1–4.8)	0.055 (0.031–0.085)	1.4 (0.78–2.1)	0.21 (0.170–0.260)	5.3 (4.3–6.4)
Germany	81	0.32 (0.310–0.320)	0.39 (0.39–0.40)	0.026 (<0.01–0.13)	<0.1 (0–0.16)	0.34 (0.280–0.420)	0.43 (0.34–0.52)
Ghana	27	10 (4.6–18)	37 (17–65)	5.1 (4.2–6.1)	19 (15–22)	15 (9.2–23)	56 (34–83)
Greece	11	0.092 (0.086–0.098)	0.84 (0.79–0.89)	<0.01 (0–0.013)	<0.1 (0–0.12)	0.094 (0.086–0.100)	0.86 (0.78–0.95)
Greenland	< 1	<0.01 (<0.01–0.011)	13 (8.4–20)	0	0	<0.01 (<0.01–0.011)	13 (8.4–20)
Grenada	< 1	<0.01 (<0.01–<0.01)	0.97 (0.96–0.98)	<0.01 (0–<0.01)	0.29 (0–1.4)	<0.01 (<0.01–<0.01)	1.3 (0.60–2.1)
Guam	< 1	<0.01 (<0.01–0.011)	4.2 (2.6–6.2)	<0.01 (<0.01–<0.01)	<0.1 (<0.1–<0.1)	<0.01 (<0.01–0.011)	4.2 (2.6–6.2)
Guatemala	16	0.32 (0.300–0.350)	2 (1.8–2.2)	0.05 (<0.01–0.14)	0.31 (<0.1–0.85)	0.37 (0.300–0.450)	2.3 (1.9–2.8)
Guinea	13	3.6 (2.1–5.4)	28 (17–43)	1.9 (1.3–2.8)	15 (10–22)	5.5 (3.8–7.4)	44 (30–59)
Guinea-Bissau	2	1.6 (0.910–2.4)	85 (49–129)	0.95 (0.79–1.1)	51 (43–61)	2.5 (1.8–3.3)	136 (98–180)
Guyana	< 1	0.11 (0.093–0.120)	14 (12–15)	0.033 (<0.01–0.074)	4.4 (1.2–9.6)	0.14 (0.110–0.180)	18 (14–23)
Haiti	11	2 (1.2–3.0)	18 (11–28)	0.66 (0.12–1.7)	6.2 (1.1–15)	2.6 (1.6–4.0)	25 (15–37)
Honduras	8	0.085 (0.085–0.086)	1.1 (1.0–1.1)	0.067 (0.027–0.13)	0.83 (0.33–1.6)	0.15 (0.110–0.210)	1.9 (1.3–2.6)
Hungary	10	0.076 (0.076–0.076)	0.77 (0.77–0.77)	<0.01 (0–<0.01)	<0.1 (0–<0.1)	0.078 (0.074–0.082)	0.79 (0.75–0.83)
Iceland	< 1	<0.01 (<0.01–<0.01)	2.1 (2.1–2.1)	0 (0–<0.01)	0 (0–0)	<0.01 (<0.01–<0.01)	2.1 (2.1–2.1)
India	1 311	480 (380–590)	36 (29–45)	37 (21–57)	2.8 (1.6–4.3)	510 (410–630)	39 (32–48)
Indonesia	258	100 (67–150)	40 (26–57)	26 (20–34)	10 (7.6–13)	130 (92–170)	50 (36–67)
Iran (Islamic Republic of)	79	1.4 (0.890–1.9)	1.7 (1.1–2.5)	0.071 (0.029–0.13)	<0.1 (<0.1–0.16)	1.4 (0.960–2.0)	1.8 (1.2–2.5)
Iraq	36	0.86 (0.018–3.3)	2.4 (<0.1–8.9)	<0.01 (<0.01–<0.01)	<0.1 (<0.1–<0.1)	0.86 (0.019–3.3)	2.4 (<0.1–8.9)
Ireland	5	0.017 (0.017–0.017)	0.36 (0.36–0.36)	<0.01 (<0.01–<0.01)	<0.1 (<0.1–<0.1)	0.019 (0.018–0.020)	0.41 (0.39–0.44)
Israel	8	0.016 (0.015–0.016)	0.19 (0.19–0.20)	<0.01 (0–0.012)	<0.1 (0–0.15)	0.018 (0.012–0.026)	0.22 (0.15–0.32)
Italy	60	0.33 (0.320–0.330)	0.55 (0.54–0.55)	0.028 (<0.01–0.14)	<0.1 (0–0.23)	0.35 (0.280–0.430)	0.59 (0.47–0.73)
Jamaica	3	<0.01 (<0.01–<0.01)	0.24 (0.24–0.24)	<0.01 (<0.01–0.014)	0.21 (<0.1–0.49)	0.013 (<0.01–0.020)	0.45 (0.25–0.71)
Japan	127	3.2 (3.0–3.3)	2.5 (2.4–2.6)	0.012 (<0.01–0.059)	<0.1 (0–<0.1)	3.2 (3.0–3.3)	2.5 (2.4–2.6)
Jordan	8	0.027 (0.026–0.027)	0.35 (0.35–0.36)	<0.01 (<0.01–<0.01)	0 (0–0)	0.027 (0.026–0.027)	0.35 (0.35–0.36)
Kazakhstan	18	1.4 (1.1–1.7)	7.8 (6.3–9.5)	0.069 (<0.01–0.22)	0.39 (<0.1–1.2)	1.4 (1.2–1.8)	8.2 (6.6–10)
Kenya	46	9 (6.1–12)	20 (13–27)	7.2 (0.71–21)	16 (1.5–45)	16 (7.1–29)	35 (15–63)
Kiribati	< 1	0.03 (0.021–0.040)	27 (19–36)	<0.01 (<0.01–<0.01)	0.47 (0.18–0.90)	0.03 (0.022–0.041)	27 (19–36)
Kuwait	4	<0.01 (<0.01–<0.01)	0.14 (0.14–0.14)	<0.01 (0–<0.01)	<0.1 (0–<0.1)	<0.01 (<0.01–<0.01)	0.15 (0.13–0.17)
Kyrgyzstan	6	0.68 (0.670–0.700)	12 (11–12)	0.044 (<0.01–0.14)	0.74 (<0.1–2.4)	0.73 (0.660–0.810)	12 (11–14)
Lao People's Democratic Republic	7	3.3 (2.0–5.1)	49 (29–75)	0.25 (0.14–0.39)	3.6 (2.0–5.7)	3.6 (2.2–5.3)	53 (32–78)
Latvia	2	0.063 (0.062–0.063)	3.2 (3.2–3.2)	0.027 (<0.01–0.14)	1.4 (0–6.9)	0.09 (0.032–0.180)	4.6 (1.6–9.1)
Lebanon	6	0.061 (0.038–0.090)	1 (0.65–1.5)	<0.01 (<0.01–<0.01)	<0.1 (0–<0.1)	0.063 (0.039–0.091)	1.1 (0.67–1.6)
Lesotho	2	1.2 (0.630–1.9)	55 (29–89)	4.8 (3.0–7.0)	223 (139–328)	5.9 (4.0–8.3)	279 (188–386)
Liberia	5	3.2 (1.9–4.8)	70 (41–107)	0.84 (0.70–1.0)	19 (16–22)	4 (2.7–5.6)	89 (59–125)
Libya	6	0.68 (0.400–1.0)	11 (6.3–16)	0.022 (0.012–0.035)	0.35 (0.19–0.56)	0.7 (0.420–1.1)	11 (6.7–17)
Lithuania	3	0.23 (0.230–0.230)	7.9 (7.8–8.0)	<0.01 (<0.01–0.039)	0.27 (0–1.3)	0.24 (0.210–0.260)	8.2 (7.4–8.9)
Luxembourg	< 1	<0.01 (<0.01–<0.01)	0.16 (0.16–0.16)	<0.01 (0–<0.01)	<0.1 (0–0.34)	<0.01 (<0.01–<0.01)	0.23 (<0.1–0.45)
Madagascar	24	12 (7.1–18)	49 (29–75)	1.5 (1.3–1.8)	6.3 (5.2–7.4)	13 (8.5–20)	56 (35–81)
Malawi	17	2.3 (1.3–3.6)	13 (7.7–21)	6.6 (3.5–11)	38 (20–62)	8.9 (5.5–13)	52 (32–76)
Malaysia	30	2.4 (1.4–3.8)	7.9 (4.5–12)	0.23 (0.059–0.52)	0.77 (0.19–1.7)	2.6 (1.6–4.0)	8.7 (5.1–13)
Maldives	< 1	0.02 (0.016–0.023)	5.4 (4.4–6.4)	<0.01 (<0.01–<0.01)	<0.1 (<0.1–<0.1)	0.02 (0.016–0.023)	5.4 (4.4–6.4)
Mali	18	1.7 (0.990–2.5)	9.4 (5.6–14)	0.44 (0.28–0.64)	2.5 (1.6–3.7)	2.1 (1.4–2.9)	12 (7.9–17)
Malta	< 1	<0.01 (<0.01–<0.01)	0.24 (0.24–0.24)	<0.01 (<0.01–<0.01)	0.24 (<0.1–0.77)	<0.01 (<0.01–<0.01)	0.48 (0.17–0.95)
Marshall Islands	< 1	0.023 (0.016–0.032)	44 (30–60)	<0.01 (0–<0.01)	0.13 (<0.1–0.41)	0.023 (0.016–0.032)	44 (30–60)
Mauritania	4	0.84 (0.500–1.3)	21 (12–31)	0.14 (0.054–0.27)	3.5 (1.3–6.7)	0.98 (0.620–1.4)	24 (15–35)
Mauritius	1	0.019 (0.019–0.019)	1.5 (1.5–1.5)	0.013 (<0.01–0.021)	1 (0.55–1.6)	0.032 (0.026–0.039)	2.5 (2.0–3.1)
Mexico	127	2.6 (2.6–2.7)	2.1 (2.0–2.1)	0.51 (0.030–1.7)	0.4 (<0.1–1.3)	3.1 (2.3–4.1)	2.5 (1.8–3.2)
Micronesia (Federated States of)	< 1	0.014 (<0.01–0.020)	14 (8.9–19)	0	0	0.014 (<0.01–0.020)	14 (8.9–19)

<sup>a</sup> Rates are per 100 000 population.

<sup>b</sup> All calculations are made before numbers are rounded.

TABLE A4.2

**Estimates of TB mortality, 2015.** Deaths from TB among HIV-positive people are officially classified as deaths caused by HIV/AIDS in the *International Classification of Diseases*.

	Population (millions)	Mortality (HIV-negative people)		Mortality (HIV-positive people)		Mortality (HIV-negative and HIV-positive people) <sup>b</sup>	
		Number (thousands)	Rate <sup>a</sup>	Number (thousands)	Rate <sup>a</sup>	Number (thousands)	Rate <sup>a</sup>
Monaco	< 1	0	0	0	0	0	0
Mongolia	3	0.64 (0.420–0.910)	22 (14–31)	<0.01 (<0.01–<0.01)	<0.1 (<0.1–0.17)	0.64 (0.420–0.920)	22 (14–31)
Montenegro	< 1	<0.01 (<0.01–<0.01)	0.41 (0.38–0.44)	<0.01 (<0.01–<0.01)	<0.1 (<0.1–0.10)	<0.01 (<0.01–<0.01)	0.46 (0.40–0.52)
Montserrat	< 1	<0.01 (<0.01–<0.01)	21 (20–22)	0	0	<0.01 (<0.01–<0.01)	21 (20–22)
Morocco	34	3.2 (0.043–13)	9.4 (0.13–37)	0.14 (0.044–0.30)	0.42 (0.13–0.88)	3.4 (0.062–13)	9.8 (0.18–38)
Mozambique	28	21 (12–32)	74 (43–115)	34 (21–50)	120 (73–178)	54 (38–74)	194 (136–263)
Myanmar	54	27 (16–40)	49 (30–74)	4.8 (3.5–6.5)	9 (6.4–12)	31 (21–45)	58 (38–83)
Namibia	2	0.78 (0.510–1.1)	32 (21–45)	0.88 (0.062–2.8)	36 (2.5–112)	1.7 (0.550–3.4)	68 (22–138)
Nauru	< 1	<0.01 (<0.01–<0.01)	9.2 (5.7–14)	0	0	<0.01 (<0.01–<0.01)	9.2 (5.7–14)
Nepal	29	5.6 (3.9–7.5)	20 (14–26)	0.5 (0.39–0.62)	1.7 (1.4–2.2)	6.1 (4.4–8.0)	21 (15–28)
Netherlands	17	0.034 (0.033–0.035)	0.2 (0.20–0.21)	<0.01 (<0.01–0.047)	<0.1 (0–0.28)	0.044 (0.022–0.073)	0.26 (0.13–0.43)
New Caledonia	< 1	<0.01 (<0.01–<0.01)	2 (1.3–2.9)	0	0	<0.01 (<0.01–<0.01)	2 (1.3–2.9)
New Zealand	5	0.01 (0.010–0.010)	0.22 (0.22–0.22)	<0.01 (0–<0.01)	0 (0–<0.1)	0.01 (<0.01–0.011)	0.23 (0.22–0.24)
Nicaragua	6	0.15 (0.120–0.190)	2.5 (1.9–3.1)	0.028 (<0.01–0.086)	0.46 (<0.1–1.4)	0.18 (0.130–0.240)	3 (2.1–4.0)
Niger	20	3.8 (2.3–5.7)	19 (11–29)	0.37 (0.25–0.51)	1.9 (1.2–2.6)	4.2 (2.6–6.1)	21 (13–31)
Nigeria	182	180 (96–290)	99 (53–160)	57 (43–74)	31 (24–40)	240 (150–350)	130 (82–190)
Niue	< 1	<0.01 (<0.01–<0.01)	3.5 (2.0–5.4)	0	0	<0.01 (<0.01–<0.01)	3.5 (2.0–5.4)
Northern Mariana Islands	< 1	<0.01 (<0.01–<0.01)	4.8 (3.0–7.0)	0 (0–<0.01)	<0.1 (<0.1–<0.1)	<0.01 (<0.01–<0.01)	4.8 (3.0–7.0)
Norway	5	0.011 (0.011–0.011)	0.21 (0.20–0.22)	<0.01 (0–<0.01)	<0.1 (0–0.10)	0.012 (<0.01–0.015)	0.23 (0.18–0.29)
Oman	4	0.024 (0.015–0.034)	0.52 (0.33–0.76)	<0.01 (0–<0.01)	<0.1 (0–<0.1)	0.024 (0.015–0.035)	0.54 (0.34–0.77)
Pakistan	189	44 (9.3–110)	23 (4.9–56)	1.6 (1.1–2.1)	0.83 (0.60–1.1)	46 (10–110)	24 (5.5–57)
Palau	< 1	<0.01 (<0.01–<0.01)	6.2 (3.9–9.1)	0 (0–0)	<0.1 (<0.1–<0.1)	<0.01 (<0.01–<0.01)	6.2 (3.9–9.1)
Panama	4	0.24 (0.220–0.250)	6.1 (5.6–6.5)	0.039 (<0.01–0.14)	1 (<0.1–3.5)	0.28 (0.210–0.360)	7 (5.3–9.1)
Papua New Guinea	8	3.1 (1.8–4.6)	40 (24–61)	0.67 (0.40–1.0)	8.8 (5.2–13)	3.7 (2.4–5.3)	49 (32–70)
Paraguay	7	0.26 (0.220–0.310)	4 (3.3–4.7)	0.035 (<0.01–0.11)	0.53 (<0.1–1.7)	0.3 (0.230–0.380)	4.5 (3.4–5.7)
Peru	31	2 (1.6–2.4)	6.2 (4.9–7.7)	0.49 (0.34–0.67)	1.6 (1.1–2.2)	2.5 (2.0–2.9)	7.8 (6.4–9.4)
Philippines	101	14 (8.8–19)	13 (8.7–19)	0.44 (0.24–0.70)	0.44 (0.24–0.70)	14 (9.2–20)	14 (9.1–20)
Poland	39	0.54 (0.520–0.570)	1.4 (1.4–1.5)	0.019 (<0.01–0.093)	<0.1 (0–0.24)	0.56 (0.510–0.620)	1.5 (1.3–1.6)
Portugal	10	0.21 (0.210–0.220)	2.1 (2.0–2.1)	0.046 (<0.01–0.23)	0.45 (0–2.2)	0.26 (0.150–0.400)	2.5 (1.4–3.9)
Puerto Rico	4	<0.01 (<0.01–<0.01)	0.27 (0.27–0.27)	<0.01 (<0.01–<0.01)	<0.1 (0–0.13)	0.011 (<0.01–0.014)	0.31 (0.25–0.38)
Qatar	2	<0.01 (<0.01–0.011)	0.32 (0.19–0.49)	<0.01 (0–<0.01)	0 (0–<0.1)	<0.01 (<0.01–0.011)	0.32 (0.19–0.49)
Republic of Korea	50	2.6 (2.4–2.7)	5.1 (4.8–5.4)	0.046 (0–0.33)	<0.1 (0–0.65)	2.6 (2.4–2.9)	5.2 (4.7–5.7)
Republic of Moldova	4	0.31 (0.300–0.330)	7.7 (7.3–8.1)	0.18 (0.11–0.27)	4.5 (2.8–6.6)	0.49 (0.420–0.580)	12 (10–14)
Romania	20	1.1 (1.1–1.1)	5.5 (5.5–5.6)	0.063 (<0.01–0.20)	0.32 (<0.1–1.0)	1.1 (1.0–1.2)	5.8 (5.3–6.4)
Russian Federation	143	15 (15–16)	11 (10–11)	1.5 (<0.01–7.4)	1 (0–5.2)	17 (13–21)	12 (8.9–15)
Rwanda	12	0.44 (0.260–0.670)	3.8 (2.2–5.8)	0.28 (0.010–0.97)	2.4 (<0.1–8.3)	0.72 (0.280–1.4)	6.2 (2.4–12)
Saint Kitts and Nevis	< 1	<0.01 (<0.01–<0.01)	2.5 (2.1–2.9)	<0.01 (0–<0.01)	<0.1 (0–0.46)	<0.01 (<0.01–<0.01)	2.6 (2.2–3.1)
Saint Lucia	< 1	<0.01 (<0.01–<0.01)	0.74 (0.67–0.82)	<0.01 (<0.01–<0.01)	0.22 (<0.1–0.50)	<0.01 (<0.01–<0.01)	0.97 (0.74–1.2)
Saint Vincent and the Grenadines	< 1	<0.01 (<0.01–<0.01)	1.5 (1.5–1.5)	<0.01 (0–<0.01)	0.14 (0–0.69)	<0.01 (<0.01–<0.01)	1.6 (1.3–2.0)
Samoa	< 1	<0.01 (<0.01–<0.01)	0.93 (0.58–1.4)	0	0	<0.01 (<0.01–<0.01)	0.93 (0.58–1.4)
San Marino	< 1	0	0	0	0	0	0
Sao Tome and Principe	< 1	<0.01 (<0.01–0.013)	3.6 (1.4–6.9)	<0.01 (0–0.015)	1.3 (0–8.0)	<0.01 (<0.01–0.022)	5 (1.1–12)
Saudi Arabia	32	0.66 (0.210–1.4)	2.1 (0.66–4.3)	0.018 (<0.01–0.090)	<0.1 (0–0.28)	0.68 (0.220–1.4)	2.2 (0.71–4.4)
Senegal	15	3.4 (2.1–5.2)	23 (14–34)	0.41 (0.16–0.77)	2.7 (1.0–5.1)	3.8 (2.4–5.6)	25 (16–37)
Serbia	9	0.11 (0.099–0.120)	1.2 (1.1–1.3)	<0.01 (<0.01–<0.01)	<0.1 (<0.1–<0.1)	0.11 (0.100–0.120)	1.3 (1.2–1.4)
Seychelles	< 1	0	0	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)
Sierra Leone	6	3.3 (1.9–4.9)	51 (30–76)	0.82 (0.40–1.4)	13 (6.2–21)	4.1 (2.7–5.8)	63 (41–90)
Singapore	6	0.07 (0.058–0.083)	1.2 (1.0–1.5)	<0.01 (<0.01–0.030)	0.11 (0–0.53)	0.076 (0.057–0.098)	1.4 (1.0–1.7)
Sint Maarten (Dutch part)	< 1	<0.01 (<0.01–<0.01)	0.49 (0.30–0.72)	0	0	<0.01 (<0.01–<0.01)	0.49 (0.30–0.72)
Slovakia	5	0.032 (0.031–0.032)	0.59 (0.58–0.59)	<0.01 (<0.01–<0.01)	0 (0–0)	0.032 (0.032–0.032)	0.59 (0.58–0.59)
Slovenia	2	0.016 (0.015–0.016)	0.75 (0.75–0.76)	<0.01 (<0.01–<0.01)	0 (0–0)	0.016 (0.015–0.016)	0.75 (0.75–0.76)
Solomon Islands	< 1	0.057 (0.037–0.081)	9.8 (6.4–14)	0	0	0.057 (0.037–0.081)	9.8 (6.4–14)
Somalia	11	7 (4.1–11)	65 (38–98)	0.21 (0.15–0.28)	2 (1.4–2.6)	7.2 (4.3–11)	67 (40–100)
South Africa	54	25 (21–29)	46 (39–53)	73 (27–140)	133 (50–256)	97 (49–160)	179 (90–297)
South Sudan	12	3.4 (2.0–5.2)	28 (17–42)	0.76 (0.50–1.1)	6.1 (4.1–8.6)	4.2 (2.7–5.9)	34 (22–48)
Spain	46	0.26 (0.260–0.270)	0.57 (0.57–0.58)	0.054 (<0.01–0.27)	0.12 (0–0.58)	0.32 (0.190–0.480)	0.69 (0.41–1.0)
Sri Lanka	21	1.2 (0.930–1.4)	5.6 (4.5–6.9)	0.011 (<0.01–0.020)	<0.1 (<0.1–<0.1)	1.2 (0.940–1.4)	5.7 (4.5–7.0)
Sudan	40	7.3 (3.8–12)	18 (9.5–30)	0.64 (0.52–0.76)	1.6 (1.3–1.9)	8 (4.4–13)	20 (11–31)
Suriname	< 1	0.014 (0.014–0.015)	2.6 (2.5–2.8)	0.011 (<0.01–0.024)	2 (0.54–4.4)	0.025 (0.016–0.037)	4.6 (2.9–6.8)
Swaziland	1	0.4 (0.230–0.610)	31 (18–48)	1.5 (0.52–3.1)	120 (41–242)	1.9 (0.850–3.5)	151 (66–271)
Sweden	10	0.027 (0.027–0.028)	0.28 (0.28–0.28)	<0.01 (0–0.017)	<0.1 (0–0.18)	0.031 (0.022–0.041)	0.32 (0.23–0.42)
Switzerland	8	0.016 (0.016–0.017)	0.2 (0.19–0.20)	<0.01 (<0.01–0.022)	<0.1 (0–0.26)	0.021 (0.011–0.034)	0.25 (0.13–0.41)

<sup>a</sup> Rates are per 100 000 population.

<sup>b</sup> All calculations are made before numbers are rounded.

TABLE A4.2

**Estimates of TB mortality, 2015.** Deaths from TB among HIV-positive people are officially classified as deaths caused by HIV/AIDS in the *International Classification of Diseases*.

	Population (millions)	Mortality (HIV-negative people)		Mortality (HIV-positive people)		Mortality (HIV-negative and HIV-positive people) <sup>b</sup>	
		Number (thousands)	Rate <sup>a</sup>	Number (thousands)	Rate <sup>a</sup>	Number (thousands)	Rate <sup>a</sup>
Syrian Arab Republic	19	0.021 (0.019–0.022)	0.11 (0.10–0.12)	0	0	0.021 (0.019–0.022)	0.11 (0.10–0.12)
Tajikistan	8	0.22 (0.150–0.310)	2.6 (1.8–3.6)	0.034 (<0.01–0.13)	0.41 (<0.1–1.5)	0.25 (0.160–0.370)	3 (1.9–4.3)
Thailand	68	8.4 (6.9–10)	12 (10–15)	5.4 (3.3–8.1)	8 (4.9–12)	14 (11–17)	20 (16–25)
The Former Yugoslav Republic of Macedonia	2	<0.01 (<0.01–<0.01)	0.41 (0.37–0.44)	<0.01 (<0.01–<0.01)	0 (0–<0.1)	<0.01 (<0.01–<0.01)	0.41 (0.38–0.45)
Timor-Leste	1	1.2 (0.710–1.8)	100 (60–151)	<0.01 (0–0.019)	0.32 (0–1.6)	1.2 (0.710–1.8)	100 (60–151)
Togo	7	0.46 (0.280–0.700)	6.4 (3.8–9.5)	0.2 (0.047–0.47)	2.8 (0.64–6.4)	0.67 (0.400–1.0)	9.1 (5.5–14)
Tokelau	< 1	0	0	0	0	0	0
Tonga	< 1	<0.01 (<0.01–<0.01)	1.2 (0.77–1.8)	0 (0–0)	0 (0–0)	<0.01 (<0.01–<0.01)	1.2 (0.78–1.8)
Trinidad and Tobago	1	0.021 (0.019–0.023)	1.5 (1.4–1.7)	<0.01 (<0.01–0.014)	0.46 (0.12–1.0)	0.027 (0.021–0.034)	2 (1.5–2.5)
Tunisia	11	0.24 (0.049–0.570)	2.1 (0.44–5.0)	<0.01 (<0.01–0.013)	<0.1 (<0.1–0.12)	0.24 (0.053–0.570)	2.2 (0.47–5.1)
Turkey	79	0.74 (0.630–0.850)	0.94 (0.80–1.1)	0.015 (<0.01–0.044)	<0.1 (0–<0.1)	0.75 (0.640–0.870)	0.96 (0.82–1.1)
Turkmenistan	5	0.46 (0.420–0.490)	8.5 (7.8–9.2)	0	0	0.46 (0.420–0.490)	8.5 (7.8–9.2)
Turks and Caicos Islands	< 1	0	0	<0.01 (<0.01–<0.01)	1 (0.20–2.6)	<0.01 (<0.01–<0.01)	1 (0.20–2.6)
Tuvalu	< 1	<0.01 (<0.01–<0.01)	19 (12–28)	0 (0–<0.01)	<0.1 (<0.1–<0.1)	<0.01 (<0.01–<0.01)	19 (12–28)
Uganda	39	5.5 (3.3–8.3)	14 (8.5–21)	6.4 (1.7–14)	16 (4.3–36)	12 (6.1–20)	30 (16–50)
Ukraine	45	5 (4.9–5.1)	11 (11–11)	2.1 (0.93–3.8)	4.7 (2.1–8.4)	7.1 (5.7–8.6)	16 (13–19)
United Arab Emirates	9	0.043 (0.034–0.052)	0.47 (0.38–0.56)	<0.01 (<0.01–<0.01)	<0.1 (<0.1–<0.1)	0.045 (0.036–0.054)	0.49 (0.40–0.59)
United Kingdom of Great Britain and Northern Ireland	65	0.3 (0.290–0.300)	0.46 (0.46–0.46)	0.038 (<0.01–0.21)	<0.1 (0–0.32)	0.34 (0.230–0.460)	0.52 (0.36–0.71)
United Republic of Tanzania	53	30 (13–53)	56 (25–99)	25 (16–35)	47 (31–66)	55 (35–79)	103 (65–148)
United States of America	322	0.59 (0.580–0.590)	0.18 (0.18–0.18)	0.077 (<0.01–0.38)	<0.1 (0–0.12)	0.66 (0.470–0.890)	0.21 (0.15–0.28)
Uruguay	3	0.069 (0.065–0.073)	2 (1.9–2.1)	0.026 (<0.01–0.060)	0.75 (0.16–1.8)	0.095 (0.069–0.130)	2.8 (2.0–3.6)
US Virgin Islands	< 1	0	0	0	0	0	0
Uzbekistan	30	2.6 (2.3–3.0)	8.8 (7.6–10)	0.32 (0.19–0.50)	1.1 (0.62–1.7)	2.9 (2.6–3.3)	9.8 (8.6–11)
Vanuatu	< 1	0.017 (0.011–0.024)	6.4 (4.2–9.0)	0	0	0.017 (0.011–0.024)	6.4 (4.2–9.0)
Venezuela (Bolivarian Republic of)	31	0.73 (0.720–0.730)	2.3 (2.3–2.3)	0.18 (0.025–0.48)	0.58 (<0.1–1.5)	0.9 (0.680–1.2)	2.9 (2.2–3.7)
Viet Nam	93	16 (11–22)	17 (12–23)	1.1 (0.20–2.7)	1.1 (0.21–2.8)	17 (12–23)	18 (13–25)
Wallis and Futuna Islands	< 1	0	0	0	0	0	0
West Bank and Gaza Strip	5	<0.01 (<0.01–<0.01)	<0.1 (<0.1–<0.1)	<0.01 (<0.01–<0.01)	0 (0–0)	<0.01 (<0.01–<0.01)	<0.1 (<0.1–<0.1)
Yemen	27	1.6 (1.1–2.1)	5.9 (4.0–8.0)	0.05 (0.038–0.065)	0.19 (0.14–0.24)	1.6 (1.1–2.2)	6 (4.2–8.2)
Zambia	16	5 (2.9–7.7)	31 (18–47)	12 (6.9–20)	77 (42–121)	17 (11–25)	108 (70–153)
Zimbabwe	16	1.7 (0.990–2.5)	11 (6.3–16)	6.3 (2.2–13)	40 (14–81)	8 (3.6–14)	51 (23–91)
<b>WHO regions</b>							
African Region	989	450 (350–560)	45 (35–57)	300 (230–360)	30 (24–37)	740 (630–870)	75 (63–88)
Region of the Americas	991	19 (17–20)	1.9 (1.8–2.0)	5.9 (4.2–7.9)	0.59 (0.42–0.79)	24 (22–27)	2.5 (2.3–2.7)
Eastern Mediterranean Region	648	80 (38–140)	12 (5.8–21)	3 (2.5–3.5)	0.46 (0.38–0.54)	83 (40–140)	13 (6.2–22)
European Region	910	32 (31–33)	3.5 (3.4–3.6)	4.9 (1.5–10)	0.54 (0.17–1.1)	37 (33–41)	4.1 (3.6–4.6)
South-East Asia Region	1 928	710 (600–830)	37 (31–43)	74 (56–95)	3.9 (2.9–4.9)	790 (670–910)	41 (35–47)
Western Pacific Region	1 856	89 (81–98)	4.8 (4.4–5.3)	5.7 (3.8–8.1)	0.31 (0.20–0.44)	95 (87–100)	5.1 (4.7–5.6)
<b>Global</b>	<b>7 323</b>	<b>1 400 (1 200–1 600)</b>	<b>19 (17–21)</b>	<b>390 (320–460)</b>	<b>5.3 (4.4–6.3)</b>	<b>1 800 (1 600–2 000)</b>	<b>24 (22–27)</b>

<sup>a</sup> Rates are per 100 000 population.

<sup>b</sup> All calculations are made before numbers are rounded.

TABLE A4.3

Measured percentage of TB cases with MDR/RR-TB,<sup>a</sup> most recent year available

	New TB cases				Previously treated TB cases			
	Year	Source	Coverage	Percentage	Year	Source	Coverage	Percentage
Afghanistan								
Albania	2012	Surveillance	National	2.3 (0.64–5.8)	2012	Surveillance	National	6.7 (0.17–32)
Algeria	2002	Survey	National	1.4 (0.33–2.5)	2002	Survey	National	9.1 (0–23)
American Samoa								
Andorra	2015	Surveillance	National	0 (0–84)	2015	Surveillance	National	0 (0–0)
Angola								
Anguilla								
Antigua and Barbuda								
Argentina	2005	Survey	National	2.3 (1.1–3.6)	2005	Survey	National	18 (11–25)
Armenia	2007	Survey	National	11 (8.0–14)	2007	Survey	National	47 (41–53)
Aruba								
Australia	2015	Surveillance	National	3.6 (2.2–5.4)	2015	Surveillance	National	24 (9.4–45)
Austria	2015	Surveillance	National	2.3 (0.84–4.9)	2015	Surveillance	National	17 (2.1–48)
Azerbaijan	2013	Survey	National	13 (10–16)	2013	Survey	National	29 (23–35)
Bahamas	2012	Surveillance	National	11 (2.4–29)	2015	Surveillance	National	50 (1.3–99)
Bahrain	2012	Surveillance	National	1.9 (0.39–5.4)	2012	Surveillance	National	100 (2.5–100)
Bangladesh	2011	Survey	National	1.6 (0.59–2.6)	2011	Survey	National	29 (24–34)
Barbados	2014	Surveillance	National	0 (0–71)	2014	Surveillance	National	0 (0–0)
Belarus	2015	Surveillance	National	37 (35–39)	2015	Surveillance	National	69 (66–72)
Belgium	2015	Surveillance	National	1.6 (0.66–3.3)	2015	Surveillance	National	8.8 (1.9–24)
Belize					2013	Surveillance	National	100 (29–100)
Benin	2010	Survey	National	1.2 (0–2.6)	2014	Surveillance	National	8.1 (4.6–13)
Bermuda	2012	Surveillance	National	0 (0–84)	2012	Surveillance	National	0 (0–0)
Bhutan					2015	Surveillance	National	38 (19–59)
Bolivia (Plurinational State of)					2015	Surveillance	National	12 (9.5–16)
Bonaire, Saint Eustatius and Saba					2011	Surveillance	National	100 (2.5–100)
Bosnia and Herzegovina	2015	Surveillance	National	0.51 (0.11–1.5)	2013	Surveillance	National	1.6 (<0.1–8.5)
Botswana	2008	Survey	National	3.6 (2.4–4.8)	2008	Survey	National	13 (7.4–19)
Brazil	2008	Survey	Sub-national	1.5 (1.1–1.9)	2008	Survey	Sub-national	8 (5.9–10)
British Virgin Islands								
Brunei Darussalam	2015	Surveillance	National	0 (0–2.3)	2015	Surveillance	National	0 (0–37)
Bulgaria	2012	Surveillance	National	3.3 (2.1–5.0)	2012	Surveillance	National	25 (18–33)
Burkina Faso								
Burundi								
Cabo Verde								
Cambodia	2007	Survey	National	1.8 (0.77–2.8)	2007	Survey	National	11 (1.4–20)
Cameroon								
Canada	2014	Surveillance	National	1.4 (0.72–2.4)	2014	Surveillance	National	1.8 (<0.1–9.6)
Cayman Islands	2013	Surveillance	National	0 (0–71)	2013	Surveillance	National	0 (0–0)
Central African Republic	2009	Survey	Sub-national	0.4 (0–1.6)				
Chad								
Chile	2015	Surveillance	National	1.5 (0.88–2.3)	2015	Surveillance	National	5.6 (2.6–10)
China	2007	Survey	National	6.6 (5.3–7.9)	2007	Survey	National	30 (25–34)
China, Hong Kong SAR	2011	Surveillance	National	1.2 (0.73–1.7)	2011	Surveillance	National	3.4 (1.4–6.8)
China, Macao SAR	2015	Surveillance	National	2.5 (0.91–5.3)	2015	Surveillance	National	16 (4.5–36)
Colombia	2005	Survey	National	2.4 (1.4–3.4)	2012	Surveillance	National	14 (11–18)
Comoros								
Congo								
Cook Islands	2015	Surveillance	National	0 (0–98)	2015	Surveillance	National	0 (0–0)
Costa Rica	2006	Survey	National	1.9 (0–3.9)	2012	Surveillance	National	9.1 (1.1–29)
Côte d'Ivoire	2006	Survey	National	3.1 (1.0–5.3)				
Croatia	2015	Surveillance	National	0 (0–1.4)	2015	Surveillance	National	0 (0–16)
Cuba	2012	Surveillance	National	2.2 (0.82–4.8)	2014	Surveillance	National	4.2 (0.51–14)
Curaçao	2014	Surveillance	National	0 (0–60)	2014	Surveillance	National	0 (0–0)
Cyprus	2015	Surveillance	National	0 (0–10)	2015	Surveillance	National	0 (0–0)
Czechia	2014	Surveillance	National	1.7 (0.56–4.0)	2014	Surveillance	National	13 (1.7–40)
Democratic People's Republic of Korea	2014	Survey	Sub-national	2.2 (0.51–3.9)	2014	Survey	Sub-national	16 (8.4–24)
Democratic Republic of the Congo								
Denmark	2014	Surveillance	National	0.51 (<0.1–2.8)	2014	Surveillance	National	0 (0–19)

<sup>a</sup> Empty rows indicate an absence of high-quality survey or surveillance data. In the absence of high-quality national data, high-quality sub-national data are used.

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Measured percentage of TB cases with MDR/RR-TB,<sup>a</sup> most recent year available

	New TB cases				Previously treated TB cases			
	Year	Source	Coverage	Percentage	Year	Source	Coverage	Percentage
Djibouti	2015	Survey	National	4.3 (1.8–6.8)	2015	Survey	National	34 (21–46)
Dominica	2013	Surveillance	National	0 (0–98)	2013	Surveillance	National	0 (0–0)
Dominican Republic								
Ecuador	2002	Survey	National	7.3 (5.4–9.2)	2012	Surveillance	National	28 (25–31)
Egypt	2011	Survey	National	14 (12–16)	2015	Surveillance	National	23 (20–27)
El Salvador	2001	Survey	National	1.1 (0.17–2.1)	2014	Surveillance	National	4.1 (1.3–9.2)
Equatorial Guinea								
Eritrea								
Estonia	2015	Surveillance	National	16 (10–23)	2015	Surveillance	National	54 (37–71)
Ethiopia	2005	Survey	National	2.7 (1.5–4.0)	2005	Survey	National	14 (5.6–23)
Fiji	2006	Surveillance	National	0 (0–8.2)	2006	Surveillance	National	0 (0–98)
Finland	2015	Surveillance	National	5.1 (2.2–9.8)	2015	Surveillance	National	0 (0–60)
France	2014	Surveillance	National	1 (0.65–1.5)	2014	Surveillance	National	10 (7.1–15)
French Polynesia	2015	Surveillance	National	0 (0–11)	2015	Surveillance	National	50 (1.3–99)
Gabon								
Gambia								
Georgia	2015	Surveillance	National	12 (11–14)	2015	Surveillance	National	33 (29–37)
Germany	2015	Surveillance	National	2.2 (0.82–4.8)	2015	Surveillance	National	23 (16–30)
Ghana					2015	Surveillance	National	7.2 (5.7–9.0)
Greece	2010	Surveillance	National	1.5 (<0.1–8.0)	2010	Surveillance	National	9.1 (0.23–41)
Greenland								
Grenada								
Guam	2012	Surveillance	National	0 (0–11)	2012	Surveillance	National	0 (0–0)
Guatemala	2002	Survey	National	4.2 (2.6–5.8)	2002	Survey	National	29 (21–37)
Guinea								
Guinea-Bissau								
Guyana								
Haiti								
Honduras	2004	Survey	National	2.2 (0.69–3.7)	2004	Survey	National	21 (10–31)
Hungary	2010	Surveillance	National	2.9 (1.6–4.8)	2010	Surveillance	National	8.1 (3.3–16)
Iceland	2015	Surveillance	National	0 (0–71)	2015	Surveillance	National	0 (0–0)
India	2001, 2004, 2006, 2009	Multiple surveys		2.5 (2.1–3.1)	2006, 2009	Multiple surveys		16 (14–18)
Indonesia	2004, 2006, 2010	Multiple surveys		2.8 (2.2–3.5)	2006, 2010	Multiple surveys		16 (10–20)
Iran (Islamic Republic of)	2014	Survey	National	1.3 (0.60–2.0)	2014	Survey	National	12 (6.1–19)
Iraq	2013	Survey	National	6.1 (4.4–7.8)	2013	Survey	National	24 (16–32)
Ireland	2015	Surveillance	National	1.1 (<0.1–5.8)	2015	Surveillance	National	0 (0–31)
Israel	2015	Surveillance	National	8.8 (4.8–15)	2015	Surveillance	National	33 (4.3–78)
Italy	2015	Surveillance	National	2.8 (1.8–4.3)	2015	Surveillance	National	13 (7.7–21)
Jamaica	2013	Surveillance	National	1.7 (<0.1–9.1)	2013	Surveillance	National	0 (0–0)
Japan	2002	Surveillance	National	1 (0.69–1.5)	2002	Surveillance	National	11 (8.2–14)
Jordan	2009	Surveillance	National	6.3 (2.4–13)	2009	Surveillance	National	29 (3.7–71)
Kazakhstan	2015	Surveillance	National	25 (24–26)	2015	Surveillance	National	43 (42–45)
Kenya	2014	Survey	National	1.3 (0.68–1.9)	2014	Surveillance	National	9.4 (8.7–10)
Kiribati								
Kuwait	2015	Surveillance	National	1.7 (0.76–3.1)	2015	Surveillance	National	0 (0–0)
Kyrgyzstan	2011	Survey	National	32 (28–36)	2013	Surveillance	National	56 (53–59)
Lao People's Democratic Republic								
Latvia	2015	Surveillance	National	7.9 (5.6–11)	2015	Surveillance	National	30 (21–41)
Lebanon	2003	Survey	National	2.6 (0–5.4)	2013	Surveillance	National	43 (9.9–82)
Lesotho	2014	Survey	National	4.8 (3.7–5.9)	2014	Survey	National	14 (9.3–18)
Liberia								
Libya								
Lithuania	2015	Surveillance	National	12 (10–15)	2015	Surveillance	National	47 (41–53)
Luxembourg	2014	Surveillance	National	0 (0–0)	2014	Surveillance	National	0 (0–0)
Madagascar	2007	Survey	National	0.49 (0–1.1)	2007	Survey	National	5.9 (0–14)
Malawi	2011	Survey	National	0.75 (0–1.6)	2011	Survey	National	6.4 (3.8–8.9)

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Measured percentage of TB cases with MDR/RR-TB,<sup>a</sup> most recent year available

	New TB cases				Previously treated TB cases			
	Year	Source	Coverage	Percentage	Year	Source	Coverage	Percentage
Malaysia	2014	Surveillance	National	1.5 (1.2–1.9)	2014	Surveillance	National	3.1 (1.3–5.9)
Maldives					2015	Surveillance	National	0 (0–52)
Mali								
Malta	2015	Surveillance	National	0 (0–25)	2015	Surveillance	National	0 (0–0)
Marshall Islands	2014	Surveillance	National	0 (0–4.4)	2015	Surveillance	National	0 (0–41)
Mauritania								
Mauritius	2015	Surveillance	National	1.7 (0.20–5.9)	2015	Surveillance	National	0 (0–71)
Mexico	2009	Survey	National	2.6 (2.3–2.9)	2009	Survey	National	11 (9.2–13)
Micronesia (Federated States of)								
Monaco								
Mongolia	2007	Survey	National	2.2 (1.1–3.3)	2013	Surveillance	National	33 (29–38)
Montenegro	2015	Surveillance	National	1.9 (<0.1–10)	2015	Surveillance	National	0 (0–60)
Montserrat								
Morocco	2014	Survey	National	1 (0.30–1.7)	2014	Survey	National	8.7 (4.8–13)
Mozambique	2007	Survey	National	3.7 (2.4–5.0)	2007	Survey	National	20 (1.9–37)
Myanmar	2013	Survey	National	5.1 (3.2–7.0)	2013	Survey	National	27 (15–39)
Namibia	2015	Survey	National	5 (4.1–5.9)	2015	Survey	National	12 (9.3–14)
Nauru								
Nepal	2011	Survey	National	2.2 (0.98–3.4)	2011	Survey	National	15 (9.2–22)
Netherlands	2015	Surveillance	National	1.6 (0.60–3.5)	2015	Surveillance	National	18 (5.2–40)
New Caledonia	2014	Surveillance	National	0 (0–28)	2014	Surveillance	National	0 (0–84)
New Zealand	2014	Surveillance	National	2.6 (0.70–6.4)	2014	Surveillance	National	20 (0.51–72)
Nicaragua	2006	Survey	National	0.94 (0–2.3)	2010	Surveillance	National	12 (7.3–18)
Niger								
Nigeria	2010	Survey	National	4.3 (3.2–5.4)	2010	Survey	National	25 (19–31)
Niue								
Northern Mariana Islands	2014	Surveillance	National	5.3 (0.13–26)	2014	Surveillance	National	0 (0–98)
Norway	2015	Surveillance	National	2.6 (0.86–6.0)	2015	Surveillance	National	4.8 (0.12–24)
Oman	2014	Surveillance	National	3.5 (1.5–6.7)	2015	Surveillance	National	0 (0–37)
Pakistan	2013	Survey	National	4.2 (3.2–5.3)	2015	Surveillance	National	16 (15–17)
Palau	2013	Surveillance	National	0 (0–41)	2013	Surveillance	National	0 (0–0)
Panama								
Papua New Guinea	2014	Survey	Sub-national	3.4 (1.7–5.0)	2014	Survey	Sub-national	26 (15–36)
Paraguay	2008	Survey	National	0.9 (0–2.2)	2008	Survey	National	15 (4.0–25)
Peru	2015	Surveillance	National	5.9 (5.6–6.3)	2015	Surveillance	National	21 (19–22)
Philippines	2012	Survey	National	2.6 (1.8–3.3)	2012	Survey	National	29 (21–38)
Poland	2015	Surveillance	National	0.66 (0.42–0.98)	2015	Surveillance	National	3.7 (2.1–5.9)
Portugal	2012	Surveillance	National	0.98 (0.51–1.7)	2012	Surveillance	National	6.9 (2.8–14)
Puerto Rico	2014	Surveillance	National	0 (0–9.3)	2015	Surveillance	National	0 (0–98)
Qatar	2014	Surveillance	National	1.3 (0.16–4.7)				
Republic of Korea	2004	Survey	National	3.7 (3.0–4.5)	2004	Survey	National	17 (12–22)
Republic of Moldova	2015	Surveillance	National	32 (29–34)	2015	Surveillance	National	69 (66–72)
Romania	2015	Survey	National	3 (2.1–3.9)	2015	Survey	National	12 (9.3–15)
Russian Federation	2013	Oblasts		22 (14–25)	2013	Oblasts		53 (40–59)
Rwanda	2015	Survey	National	1.5 (0.77–2.2)	2015	Survey	National	11 (3.3–18)
Saint Kitts and Nevis								
Saint Lucia	2013	Surveillance	National	0 (0–52)	2013	Surveillance	National	0 (0–0)
Saint Vincent and the Grenadines					2014	Surveillance	National	0 (0–98)
Samoa	2013	Surveillance	National	0 (0–28)	2013	Surveillance	National	0 (0–0)
San Marino								
Sao Tome and Principe					2012	Surveillance	National	88 (47–100)
Saudi Arabia	2010	Survey	National	2.6 (2.0–3.2)	2010	Survey	National	20 (16–25)
Senegal	2014	Survey	National	0.9 (0.24–1.6)	2014	Survey	National	19 (12–25)
Serbia	2013	Surveillance	National	1.1 (0.49–2.2)	2013	Surveillance	National	4.7 (1.3–11)
Seychelles	2015	Surveillance	National	0 (0–46)	2015	Surveillance	National	0 (0–0)
Sierra Leone								
Singapore	2015	Surveillance	National	1 (0.52–1.8)	2015	Surveillance	National	0.99 (<0.1–5.4)
Sint Maarten (Dutch part)								
Slovakia	2012	Surveillance	National	0 (0–2.6)	2012	Surveillance	National	3.7 (<0.1–19)

<sup>a</sup> Empty rows indicate an absence of high-quality survey or surveillance data. In the absence of high-quality national data, high-quality sub-national data are used.

TABLE A4.3

Measured percentage of TB cases with MDR/RR-TB,<sup>a</sup> most recent year available

	New TB cases				Previously treated TB cases			
	Year	Source	Coverage	Percentage	Year	Source	Coverage	Percentage
Slovenia	2015	Surveillance	National	0 (0–4.1)	2015	Surveillance	National	0 (0–41)
Solomon Islands					2013	Surveillance	National	0 (0–41)
Somalia	2011	Survey	National	8.7 (5.9–11)	2011	Survey	National	47 (29–65)
South Africa	2014	Survey	National	3.5 (2.8–4.2)	2014	Survey	National	7.1 (5.3–8.9)
South Sudan								
Spain	2001, 2005	Multiple surveys		0.44 (0.12–1.1)	2001, 2005	Multiple surveys		7.1 (3.3–13)
Sri Lanka	2006	Survey	National	0.54 (0–1.3)	2013	Surveillance	National	1.7 (0.64–3.7)
Sudan								
Suriname	2015	Surveillance	National	9.9 (4.1–19)	2015	Surveillance	National	25 (0.63–81)
Swaziland	2009	Survey	National	8 (3.1–13)	2009	Survey	National	36 (31–42)
Sweden	2015	Surveillance	National	4 (2.3–6.3)	2015	Surveillance	National	18 (3.8–43)
Switzerland	2015	Surveillance	National	3.2 (1.3–6.4)	2015	Surveillance	National	26 (9.1–51)
Syrian Arab Republic	2003	Survey	National	8 (4.9–11)	2015	Surveillance	National	18 (11–27)
Tajikistan	2014	Surveillance	National	14 (12–15)	2014	Surveillance	National	77 (73–80)
Thailand	2012	Survey	National	2.2 (1.5–2.9)	2012	Survey	National	24 (18–30)
The Former Yugoslav Republic of Macedonia	2015	Surveillance	National	2.4 (0.65–6.0)	2015	Surveillance	National	6.7 (0.17–32)
Timor-Leste								
Togo					2013	Surveillance	National	12 (7.0–19)
Tokelau								
Tonga								
Trinidad and Tobago								
Tunisia	2015	Surveillance	National	0.54 (0.20–1.2)	2015	Surveillance	National	17 (7.2–32)
Turkey	2015	Surveillance	National	3.6 (3.1–4.2)	2015	Surveillance	National	21 (17–24)
Turkmenistan	2013	Survey	National	14 (11–17)	2013	Survey	National	38 (31–46)
Turks and Caicos Islands								
Tuvalu								
Uganda	2011	Survey	National	1.6 (0.78–2.4)	2011	Survey	National	12 (5.9–18)
Ukraine	2014	Survey	National	25 (21–28)	2014	Survey	National	58 (53–64)
United Arab Emirates					2013	Surveillance	National	0 (0–52)
United Kingdom of Great Britain and Northern Ireland	2015	Surveillance	National	1.4 (0.98–2.0)	2015	Surveillance	National	3.4 (1.1–7.9)
United Republic of Tanzania	2007	Survey	National	1.3 (0.47–2.1)	2007	Survey	National	4.7 (0.37–9.0)
United States of America	2015	Surveillance	National	1.5 (1.2–1.8)	2015	Surveillance	National	5.5 (3.2–8.8)
Uruguay	2015	Surveillance	National	0.55 (0.11–1.6)	2015	Surveillance	National	0 (0–17)
US Virgin Islands								
Uzbekistan	2011	Survey	National	24 (18–30)	2011	Survey	National	63 (54–71)
Vanuatu	2006	Surveillance	National	0 (0–12)				
Venezuela (Bolivarian Republic of)								
Viet Nam	2012	Survey	National	4.1 (2.6–5.5)	2015	Surveillance	National	25 (24–26)
Wallis and Futuna Islands								
West Bank and Gaza Strip								
Yemen	2011	Survey	National	2.3 (0.92–3.7)	2011	Survey	National	18 (11–25)
Zambia	2008	Survey	National	1.1 (0.13–2.1)	2008	Survey	National	18 (11–26)
Zimbabwe								

<sup>a</sup> Empty rows indicate an absence of high-quality survey or surveillance data. In the absence of high-quality national data, high-quality sub-national data are used.

**TABLE A4.4**  
**TB case notifications, 2015**

	Total cases notified	New and relapse cases <sup>a</sup>				
		Notified	% tested with rapid diagnostics at time of diagnosis	% with known HIV status	% bacteriologically confirmed among pulmonary	
Afghanistan	37 001	35 878		39	75	66
Albania	415	415		44	72	71
Algeria	23 879	23 705	1		36	85
American Samoa	4	4			100	100
Andorra	4	4	75	0	50	100
Angola	61 060	59 705		23	93	51
Anguilla	0	0				
Antigua and Barbuda						
Argentina	10 506	9 601		19	86	70
Armenia	1 104	1 090	18	100	72	45
Aruba						
Australia	1 254	1 254		79	63	88
Austria	583	564	53		78	87
Azerbaijan	7 501	5 456	43	128	80	60
Bahamas	62	62		90	90	54
Bahrain						
Bangladesh	209 438	206 915		0	79	72
Barbados	0	0				
Belarus	4 177	3 765	72	99	92	78
Belgium	988	928	0	46	70	85
Belize	84	78		90	91	59
Benin	4 092	3 985		101	91	91
Bermuda	0	0				
Bhutan	975	963		67	52	89
Bolivia (Plurinational State of)	7 893	7 789		83	79	91
Bonaire, Saint Eustatius and Saba						
Bosnia and Herzegovina	1 095	1 092	100	19	89	70
Botswana	5 073	4 972		91	81	52
Brazil	81 137	73 221	23	82	87	73
British Virgin Islands	0	0				
Brunei Darussalam	212	212		100	83	96
Bulgaria	1 660	1 619	1		74	65
Burkina Faso	5 808	5 594	2	97	85	84
Burundi	6 969	6 892	8	95	70	88
Cabo Verde	272	269		100	90	82
Cambodia	35 638	35 169		84	63	48
Cameroon	26 570	26 117	2	92	84	74
Canada	1 640	1 640		44	70	80
Cayman Islands	7	7		0	100	100
Central African Republic	10 799	10 459	1	48	82	61
Chad	12 026	11 471	1	69	85	54
Chile	2 657	2 569	1	63	80	86
China	804 163	798 439		47	96	31
China, Hong Kong SAR	4 498	4 498		73	77	61
China, Macao SAR	372	370	25	88	87	82
Colombia	12 749	11 895	3	93	81	79
Comoros						
Congo	10 119	9 937	3	13	75	51
Cook Islands	1	1		100	100	100
Costa Rica	424	424		98	86	75
Côte d'Ivoire	22 879	22 458		95	78	84
Croatia	486	484	0		93	85
Cuba	753	698	7	100	90	82
Curaçao						
Cyprus	63	63	8		87	78
Czechia	518	508	46	36	87	85
Democratic People's Republic of Korea	120 722	112 840		0	82	50
Democratic Republic of the Congo	120 508	119 213	10	50	82	83
Denmark	357	320	0		81	82

<sup>a</sup> Includes cases for which the treatment history is unknown.



TABLE A4.4  
TB case notifications, 2015

	Total cases notified	New and relapse cases <sup>a</sup>				
		Notified	% tested with rapid diagnostics at time of diagnosis	% with known HIV status	% pulmonary	% bacteriologically confirmed among pulmonary
Djibouti	2 692	2 686	51	90	57	78
Dominica	7	7		100	100	71
Dominican Republic	4 690	4 504		79	88	69
Ecuador	5 215	5 097		93	82	93
Egypt	8 155	7 860	10	23	63	82
El Salvador	2 461	2 452	15	97	86	90
Equatorial Guinea	1 286	1 242	17	73	91	72
Eritrea	2 094	2 060		100	65	59
Estonia	217	206	73	96	91	87
Ethiopia	137 960	135 951	6	77	70	54
Fiji	371	363	30	90	65	67
Finland	271	267	31		76	82
France						
French Polynesia	51	46		0	83	87
Gabon	6 293	5 727		49	92	54
Gambia	2 551	2 531		90	93	63
Georgia	3 611	3 152	64	89	79	83
Germany	5 865	5 671	54		77	81
Ghana	14 999	14 460	11	83	92	62
Greece	482	438	43		88	85
Greenland	80	80	89	45	88	76
Grenada	5	5	0	100	60	100
Guam	76	76	46	93	97	55
Guatemala	3 381	3 325	5	92	93	83
Guinea	12 242	12 154	1	79	78	84
Guinea-Bissau	2 141	2 133		70	95	74
Guyana	668	571	8	85	93	60
Haiti	16 431	16 431	6	90	90	78
Honduras	2 919	2 906		88	89	84
Hungary	906	858	0		97	49
Iceland	7	7	43		71	60
India	1 740 435	1 667 136		67	82	64
Indonesia	330 729	328 895		11	93	64
Iran (Islamic Republic of)	10 399	10 215		37	72	80
Iraq	8 255	8 183		51	61	59
Ireland	312	295	0	25	67	73
Israel	280	280		100	72	79
Italy	3 769	3 476	0		72	80
Jamaica	103	103	38	64	98	66
Japan	18 280	18 280		8	77	87
Jordan	437	424	39	85	64	35
Kazakhstan	14 631	14 006	83	99	88	81
Kenya	81 518	81 292	10	97	82	59
Kiribati	516	496		42	86	68
Kuwait	748	748	72	100	75	97
Kyrgyzstan	7 833	7 027	21	96	74	61
Lao People's Democratic Republic	4 638	4 534	37	90	91	85
Latvia	721	697	0	63	93	85
Lebanon	666	656	36	27	60	63
Lesotho	7 892	7 594		96	86	49
Liberia	5 849	5 814		73	78	61
Libya	1 014	966		100	63	76
Lithuania	1 507	1 395	0	71	90	85
Luxembourg	30	30	0		80	83
Madagascar	29 939	29 464		33	78	89
Malawi	17 104	15 737	6	93	75	58
Malaysia	24 220	23 565	2	98	87	75
Maldives	153	153	14	100	73	100
Mali	7 015	5 998		67	79	100

<sup>a</sup> Includes cases for which the treatment history is unknown.

**TABLE A4.4**  
**TB case notifications, 2015**

	Total cases notified	New and relapse cases <sup>a</sup>				
		Notified	% tested with rapid diagnostics at time of diagnosis	% with known HIV status	% pulmonary	% bacteriologically confirmed among pulmonary
Malta	32	32	3	81	62	85
Marshall Islands	138	138	29	21	80	43
Mauritania	2 352	2 329			77	82
Mauritius	129	128	95	97	95	100
Mexico	22 294	21 600	1	89	81	83
Micronesia (Federated States of)	108	104		66	86	33
Monaco	0	0				
Mongolia	4 935	4 685	13	80	57	78
Montenegro	80	80		91	96	74
Montserrat	0	0				
Morocco	31 403	30 636		47	53	85
Mozambique	61 559	58 344	7	99	89	50
Myanmar	140 700	138 447	22	65	88	39
Namibia	9 944	9 614		98	83	76
Nauru	18	10		0	80	50
Nepal	34 122	33 199	14	7	74	73
Netherlands	867	850	58	58	56	85
New Caledonia	56	56		43	79	84
New Zealand	297	292		82	55	89
Nicaragua	2 705	2 465		94	87	79
Niger	10 625	10 383	0	74	85	85
Nigeria	90 584	87 211	58	100	94	68
Niue	0	0				
Northern Mariana Islands	28	28	93	89	93	62
Norway	318	286	0		70	89
Oman	328	328	100	100	67	100
Pakistan	331 809	323 856		4	81	51
Palau	14	14	86	86	86	67
Panama	1 658	1 566		89	83	62
Papua New Guinea	28 696	26 347		36	54	31
Paraguay	2 536	2 358	14	86	91	78
Peru	30 988	29 833	86	81	81	82
Philippines	286 544	276 672	20	13	97	36
Poland	6 430	6 237	12	0	94	76
Portugal	2 124	2 087	14	72	71	87
Puerto Rico	52	52	42	96	96	66
Qatar						
Republic of Korea	40 847	37 541			80	67
Republic of Moldova	4 211	3 608	85	95	90	64
Romania	15 195	14 225	0	75	83	81
Russian Federation	130 904	99 590			93	49
Rwanda	5 637	5 534	39	96	86	86
Saint Kitts and Nevis						
Saint Lucia	14	14		100	100	100
Saint Vincent and the Grenadines	7	7		100	100	100
Samoa	19	19		5	79	93
San Marino						
Sao Tome and Principe	207	178		100	89	38
Saudi Arabia	3 464	3 346	23	51	76	84
Senegal	13 599	13 300		83	88	84
Serbia	1 658	1 649		6	81	66
<i>Serbia (without Kosovo)</i>	<i>888</i>	<i>879</i>				
<i>Kosovo</i>	<i>770</i>	<i>770</i>				
Seychelles	8	8	88	100	75	83
Sierra Leone	12 103	11 861		97	95	69
Singapore	2 171	2 166	50	87	85	64
Sint Maarten (Dutch part)	2	2			50	0
Slovakia	317	308	22		83	66
Slovenia	130	129	54	83	77	96

<sup>a</sup> Includes cases for which the treatment history is unknown.

TABLE A4.4  
TB case notifications, 2015

	Total cases notified	New and relapse cases <sup>a</sup>				
		Notified	% tested with rapid diagnostics at time of diagnosis	% with known HIV status	% pulmonary	% bacteriologically confirmed among pulmonary
Solomon Islands	417	416	15	20	61	68
Somalia	14 203	13 982		78	77	65
South Africa	294 603	287 224	64	97	90	60
South Sudan	10 250	9 657	2	79	81	56
Spain	4 191	4 026	11		74	82
Sri Lanka	9 575	9 305	3	84	71	69
Sudan	20 006	18 800		43	76	46
Suriname	150	144	78	97	83	77
Swaziland	4 567	4 266	60	111	85	70
Sweden	821	782	71		62	91
Switzerland	564	531			72	85
Syrian Arab Republic	2 992	2 908	3	1	58	79
Tajikistan	6 232	5 894		95	73	70
Thailand	66 179	62 135		98	84	64
The Former Yugoslav Republic of Macedonia	284	282		66	79	87
Timor-Leste	3 532	3 337	25	83	85	58
Togo	2 671	2 613	3	100	87	91
Tokelau	2	2			50	0
Tonga	14	14	100	100	43	100
Trinidad and Tobago	218	196		100	94	71
Tunisia	3 357	3 357	7	80	40	85
Turkey	12 772	12 550		70	64	77
Turkmenistan						
Turks and Caicos Islands	2	2		50	100	100
Tuvalu	20	20		95	85	53
Uganda	43 736	41 912		100	91	71
Ukraine	35 304	30 151	77	99	90	68
United Arab Emirates	64	63	33	90	78	94
United Kingdom of Great Britain and Northern Ireland	6 240	5 854	5	81	53	76
United Republic of Tanzania	62 180	60 895		93	79	53
United States of America	9 551	9 058		93	79	83
Uruguay	909	900		93	91	75
US Virgin Islands						
Uzbekistan	19 055	16 315	24	80	87	34
Vanuatu	136	136		38	46	55
Venezuela (Bolivarian Republic of)	7 278	7 136	7	76	84	68
Viet Nam	102 676	100 780	11	79	82	69
Wallis and Futuna Islands	0	0				
West Bank and Gaza Strip	41	41		100	71	38
Yemen	7 699	7 654	9	15	67	55
Zambia	41 588	36 741	100	95	79	49
Zimbabwe	28 225	26 990		96	87	54
<b>WHO regions</b>						
African Region	1 333 504	1 296 122		81	84	64
Region of the Americas	232 156	218 718		82	85	78
Eastern Mediterranean Region	484 733	472 587		17	77	56
European Region	307 202	259 659		70	86	61
South-East Asia Region	2 656 560	2 563 325		52	83	63
Western Pacific Region	1 361 430	1 336 747		43	92	38
<b>Global</b>	<b>6 375 585</b>	<b>6 147 158</b>		<b>55</b>	<b>85</b>	<b>57</b>

<sup>a</sup> Includes cases for which the treatment history is unknown.

TABLE A4.5

Treatment outcomes by TB case type, 2014 and treatment outcomes for MDR/RR-TB and XDR-TB cases, 2013

	New and relapse, 2014 cohort		Previously treated, excluding relapse, 2014 cohort		HIV-positive TB, 2014 cohort		MDR/RR-TB, 2013 cohort		XDR-TB, 2013 cohort	
	Cohort (Number)	Success (%)	Cohort (Number)	Success (%)	Cohort (Number)	Success (%)	Cohort (Number)	Success (%)	Cohort (Number)	Success (%)
Afghanistan	31 746	87	966	80			46	63	0	
Albania	406	88	0		2	100				
Algeria*	6 765	88	167	57						
American Samoa										
Andorra	6	83	0		0		0		0	
Angola	53 552	34	1 654	66			116	74		
Anguilla*	1	100					0		0	
Antigua and Barbuda										
Argentina	9 441	52	1 107	37	468	34	88	15	3	0
Armenia	1 228	78	14	50	77	60	104	43	10	20
Aruba										
Australia	1 343	79	13	0	17	47	21	86	0	
Austria	553	74	12	67			13	77	3	67
Azerbaijan*	1 623	83	2 374	74			647	59	95	26
Bahamas	50	84	1	100	21	67	0		0	
Bahrain										
Bangladesh	191 141	93	5 497	88	45	62	686	75	3	0
Barbados	5	100	0		0		0		0	
Belarus	2 706	88	249	73	135	74	2 136	54	60	38
Belgium	867	81	70	73	34	71	14	79	0	
Belize	72	35			25	28	2	50	0	
Benin*	3 749	89	223	78			14	93		
Bermuda	0		0		0		0		0	
Bhutan	1 066	90	71	79	1 066	90	37	92		
Bolivia (Plurinational State of)	8 079	83	122	57			44	61	0	
Bonaire, Saint Eustatius and Saba										
Bosnia and Herzegovina	1 196	77					1	100		
Botswana	6 439	77	103	57	3 537	77	102	71	2	50
Brazil	74 117	71	7 532	39	6 891	49	759	52	17	12
British Virgin Islands	0		0		0		0		0	
Brunei Darussalam	198	65	0		0		1	0	0	
Bulgaria	1 789	86	39	56	3	33	33	52	4	0
Burkina Faso	5 322	81	456	75	564	74	42	62	0	
Burundi	7 309	91	83	82	901	86	38	89	0	
Cabo Verde	276	92	19	58	27	85	0		0	
Cambodia	43 139	93					121	75		
Cameroon	26 022	84	489	65	8 731	78	76	92	0	
Canada	1 612	82			65	74	15	67	1	100
Cayman Islands	0		0		0		0		0	
Central African Republic*	9 209	70	476	64	2 056	68	16	81	0	
Chad*	11 600	68	705	49						
Chile	2 353	58	57	14	225	40	14	21	0	
China	817 318	94	6 679	88	2 169	86	2 184	55	159	22
China, Hong Kong SAR					25	64	24	62	1	0
China, Macao SAR	385	86	0		6	67	8	88	0	
Colombia	11 631	76	684	43	1 481	54	148	62	4	25
Comoros										
Congo	4 108	69	182	94						
Cook Islands*	3	0	0		0		0		0	
Costa Rica	455	89	0		36	64	0		0	
Côte d'Ivoire	21 495	79	556	51	5 145	69	311	85		
Croatia	494	10	0							
Cuba	729	82	13	23	87	67	3	100	0	
Curaçao										
Cyprus	39	59	2	50	0					
Czechia	467	76	37	65	1	0				
Democratic People's Republic of Korea	103 045	91	7 245	82	0		170	84	0	
Democratic Republic of the Congo*	112 969	89	1 099	65			268	63	0	

\* Relapses included in the previously treated cohort.

TABLE A4.5

Treatment outcomes by TB case type, 2014 and treatment outcomes for MDR/RR-TB and XDR-TB cases, 2013

	New and relapse, 2014 cohort		Previously treated, excluding relapse, 2014 cohort		HIV-positive TB, 2014 cohort		MDR/RR-TB, 2013 cohort		XDR-TB, 2013 cohort	
	Cohort (Number)	Success (%)	Cohort (Number)	Success (%)	Cohort (Number)	Success (%)	Cohort (Number)	Success (%)	Cohort (Number)	Success (%)
Denmark	291	52	27	63	4	25	0		1	100
Djibouti	1 240	81								
Dominica	1	100	0		1	100	0		0	
Dominican Republic	2 770	83	200	58	291	69	94	73	4	75
Ecuador	5 072	77	176	52			132	45	0	
Egypt	7 177	84	290	56	0		60	57	0	
El Salvador	2 206	91	14	43	203	75	10	90	0	
Equatorial Guinea	551	58	78	14	287	28				
Eritrea	2 389	91	34	88	128	83	6	83	0	
Estonia	194	84	1	100	14	71	44	70	10	40
Ethiopia*	121 563	89					397	68		
Fiji	315	87	8	88	11	91	0		0	
Finland	250	45	5	40						
France										
French Polynesia	58	76	2	100	0		0		0	
Gabon	4 843	58	479	50						
Gambia*	1 475	88								
Georgia	2 862	83	509	69	21	76	411	43	70	21
Germany	4 283	63	143	64			105	39	0	
Ghana	14 662	85	614	81	2 753	76	26	69	0	
Greece										
Greenland	99	68	0		1	100	0		0	
Grenada	0		0		0		0		0	
Guam	56	89	4	75	0		0		0	
Guatemala	2 756	85	55	53	194	71	27	78	0	
Guinea	11 117	83	270	66	2 067	77	53	58	0	
Guinea-Bissau	2 234	81	1	100			15	40		
Guyana	545	69	103	38	111	59	0		0	
Haiti	15 779	78	157	52	2 588	67	81	83		
Honduras	1 810	89	180	68	256	63	4	75	0	
Hungary	795	73	52	50	2	100	10	40	1	0
Iceland	9	89	0		0					
India	1 609 547	74	74 368	65	44 257	76	21 093	46	392	33
Indonesia	322 806	84	1 733	63	2 548	56	809	51	10	40
Iran (Islamic Republic of)	10 172	87	202	76	265	63	54	74	1	100
Iraq	8 268	92	73	79	0		84	58		
Ireland	288	56	21	48	17	47	3	33	0	
Israel	322	89	0		22	73	7	57	1	0
Italy										
Jamaica	89	18	0		19	5				
Japan*	15 130	53			26	38				
Jordan	385	88	20	90	0		13	77	0	
Kazakhstan	12 473	90	330	77	381	71	6 527	72	360	30
Kenya	89 294	87	227	78	30 107	82	266	82	1	0
Kiribati	415	87	17	88	1	0	0		0	
Kuwait	734	97	0		1	100	7	100	0	
Kyrgyzstan	5 731	84	915	79			1 064	57	43	28
Lao People's Democratic Republic	4 198	86	23	61	292	57	7	71	0	
Latvia	675	83	15	67	74	66	64	67	15	73
Lebanon	671	76	10	80	3	33	7	86	0	
Lesotho	9 000	70	936	59	5 466	69	163	63	3	33
Liberia	4 998	74	37	49						
Libya	1 153	57	33	48	54	26				
Lithuania	1 282	81	46	46	25	72	227	40	47	0
Luxembourg										
Madagascar*	18 822	83	1 949	78			14	64	0	
Malawi	16 267	85	1 456	75			19	53	0	
Malaysia	23 982	78	637	58	1 400	52	68	62	1	

\* Relapses included in the previously treated cohort.

TABLE A4.5

Treatment outcomes by TB case type, 2014 and treatment outcomes for MDR/RR-TB and XDR-TB cases, 2013

	New and relapse, 2014 cohort		Previously treated, excluding relapse, 2014 cohort		HIV-positive TB, 2014 cohort		MDR/RR-TB, 2013 cohort		XDR-TB, 2013 cohort	
	Cohort (Number)	Success (%)	Cohort (Number)	Success (%)	Cohort (Number)	Success (%)	Cohort (Number)	Success (%)	Cohort (Number)	Success (%)
Maldives	126	37	0		0		0		0	
Mali	5 177	73	789	70	240	57	12	42	0	
Malta							1	100	0	
Marshall Islands	152	86	1	0	0		1	100	0	
Mauritania	2 420	70	13	62	0		7	43	0	
Mauritius	126	90	1	100	15	60	0		0	
Mexico	21 193	80	685	53	1 318	48	167	60	4	75
Micronesia (Federated States of)	166	94	8	0			0		0	
Monaco	0		0		0		0		3	100
Mongolia	4 483	86	288	74	8	75	181	56	0	
Montenegro	113	89	0		0		0		0	
Montserrat										
Morocco	29 992	86	881	63			65	42	0	
Mozambique	55 703	89	2 567	94			313	52		
Myanmar	135 984	87	3 677	73	10 782	70	667	83		
Namibia*	7 981	87	2 068	78	3 112	80	184	64	6	0
Nauru	8	100	4	100	0		0		0	
Nepal	34 764	92	1 286	87	15	73	257	71		
Netherlands	796	85	10	70	21	76	17	100	0	
New Caledonia	30	20					0		0	
New Zealand	296	82	6	33	2	100	3	100	0	
Nicaragua	1 577	85	77	78			9	78	0	
Niger	10 815	79	251	63	490	62	31	81	0	
Nigeria	86 464	87	4 890	83	17 014	79	339	77	2	0
Niue*	0		0		0		0		0	
Northern Mariana Islands	26	62	0		0		0		0	
Norway	293	84	20	80	13	77	6	83	0	
Oman	358	96	0		3	100	2	100	0	
Pakistan	308 327	93	8 005	82			1 484	69	64	30
Palau	14	57	0		0		0		0	
Panama	1 483	79	97	49	178	68	4	50	0	
Papua New Guinea*	4 077	70	728	62						
Paraguay	2 240	71	164	51	179	39	6	33	0	
Peru*	15 171	87	2 363	74	996	68	1 261	55	53	66
Philippines	219 737	92	6 062	83	174	52	1 968	49	6	50
Poland	6 500	58	149	49			46	22	1	0
Portugal	2 198	72	52	60	210	57	14	57	4	50
Puerto Rico*	44	66	0		6	50	1	100	0	
Qatar										
Republic of Korea	38 654	81	2 841	69			951	59	113	56
Republic of Moldova	3 459	79	292	47	241	53	943	57		
Romania	14 525	85	752	45	270	69	601	41	56	16
Russian Federation	77 136	69	5 790	42			18 213	48	1 965	26
Rwanda	5 846	86	94	80			43	81	0	
Saint Kitts and Nevis										
Saint Lucia										
Saint Vincent and the Grenadines							0		0	
Samoa	23	78	1	0	0		0		0	
San Marino										
Sao Tome and Principe	149	74	9	56	24	54	6	83	0	
Saudi Arabia	3 248	62	88	33	63	27				
Senegal	13 226	87	264	79	481	71				
Serbia	1 281	81	14	50	9	78	13	77	0	
Seychelles	13	69	0		1	0	0		0	
Sierra Leone	12 191	85	227	62						
Singapore	2 143	78	0		50	82	15	27	0	
Sint Maarten (Dutch part)*	7	100	0							
Slovakia	318	88	14	71	0		2	0	0	

\* Relapses included in the previously treated cohort.

TABLE A4.5

Treatment outcomes by TB case type, 2014 and treatment outcomes for MDR/RR-TB and XDR-TB cases, 2013

	New and relapse, 2014 cohort		Previously treated, excluding relapse, 2014 cohort		HIV-positive TB, 2014 cohort		MDR/RR-TB, 2013 cohort		XDR-TB, 2013 cohort	
	Cohort (Number)	Success (%)	Cohort (Number)	Success (%)	Cohort (Number)	Success (%)	Cohort (Number)	Success (%)	Cohort (Number)	Success (%)
Slovenia	142	77	2	50	0					
Solomon Islands	345	91	1	0	0		0		0	
Somalia	12 903	86	227	59			30	77	0	
South Africa	319 752	78	4 652	63	183 697	76	10 614	48	611	24
South Sudan	8 335	71	521	69	859	71				
Spain	4 689	58	228	52	200	39				
Sri Lanka	8 980	84	168	62	19	63	4	50	0	
Sudan	5 769	82					73	64	2	
Suriname	146	77	12	33	37	68	0		0	
Swaziland	5 455	78	381	66	3 925	78	331	60	5	60
Sweden	610	87	31	84			8	75	2	50
Switzerland										
Syrian Arab Republic	3 390	70	95	69			2	100	0	
Tajikistan	5 149	89	355	82			625	60	4	75
Thailand	58 774	80	1 433	63	6 451	67				
The Former Yugoslav Republic of Macedonia	281	87	1	100	1	0	2	50	0	
Timor-Leste	3 657	84	121	66			2	50	0	
Togo*	2 415	88	162	76			16	56	0	
Tokelau										
Tonga	13	100	0		0		0		0	
Trinidad and Tobago	251	64	42	29	63	44	7	71	0	
Tunisia	3 134	91	39	64	12	100	14	79	0	
Turkey	12 933	87	192	50	41	66	228	65	3	33
Turkmenistan										
Turks and Caicos Islands	1	0	0		1	0	0		0	
Tuvalu	15	47	0		0		0		0	
Uganda	43 628	75	2 438	67	16 670	73	214	73	0	
Ukraine	22 294	72	5 269	66	6 104	35	7 633	39		
United Arab Emirates	40	80	1	0	3	0	0		0	
United Kingdom of Great Britain and Northern Ireland	6 512	81	450	72			77	65	3	33
United Republic of Tanzania	61 573	90	1 578	81	20 658	87	92	68	0	
United States of America	8 237	85	397	79	467	80	39	79	1	100
Uruguay	843	75	26	88	130	51	1	100	0	
US Virgin Islands										
Uzbekistan	16 328	87	3 947	81			2 647	53		
Vanuatu	39	87	1	100	0		0		0	
Venezuela (Bolivarian Republic of)	6 353	80	223	73	482	79	19	53	4	50
Viet Nam	100 349	91	1 738	76	1 519	75	959	69		
Wallis and Futuna Islands*	0		0		0		0		2	100
West Bank and Gaza Strip	43	91	0		0		0		0	
Yemen	9 437	86	65	66			9	67		
Zambia	37 930	85	4 786	80			58	33	0	
Zimbabwe*	29 653	81	2 363	51	19 290	68	351	59		
<b>WHO regions</b>										
African Region	1 274 882	81	40 347	72	328 245	77	14 553	54	630	24
Region of the Americas	197 119	76	14 487	48	16 819	56	2 935	55	91	53
Eastern Mediterranean Region	438 187	91	10 995	79	404	53	1 950	68	67	30
European Region	216 485	76	22 429	63	7 923	41	42 486	52	2 761	27
South-East Asia Region	2 469 890	79	95 599	68	65 183	74	23 725	49	405	33
Western Pacific Region	1 277 110	92	19 062	80	5 700	72	6 512	57	282	37
<b>Global</b>	<b>5 873 673</b>	<b>83</b>	<b>202 919</b>	<b>69</b>	<b>424 274</b>	<b>75</b>	<b>92 161</b>	<b>52</b>	<b>4 236</b>	<b>28</b>

\* Relapses included in the previously treated cohort.