

**ANNEX 4**

# TB burden estimates, notifications and treatment outcomes

FOR INDIVIDUAL COUNTRIES  
AND TERRITORIES, WHO REGIONS  
AND THE WORLD



**Laboratory technicians examine sputum smear slides in Maseru, Lesotho**

SAM NUTTALL / WHO

## 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/).

Estimates are shown rounded to three significant figures unless the displayed value is under 100, in which case it is shown rounded to two significant figures.

## Data source

Data shown in this file were taken from the WHO global TB database on **6 October 2017**. Data shown in the main part of the report were taken from the database on 14 August 2017. 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

### 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 for India are interim in nature, pending results from the national TB prevalence survey planned for 2018/2019.

### Myanmar

Estimates of TB incidence and mortality for Myanmar will be reviewed following completion of the 2017/2018 national TB prevalence survey.

### Russian Federation

UN Population Division estimates are lower than the population registered by the Federal State Statistics Service of the Russian Federation.

### 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, 2016

	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	35	65 (42–93)	189 (122–270)	0.28 (0.18–0.41)	0.82 (0.53–1.2)	3.3 (1.2–5.4)	9.5 (3.6–15)
Albania	3	0.48 (0.41–0.55)	16 (14–19)	<0.01 (<0.01–<0.01)	0.21 (0.13–0.29)	0.012 (<0.01–0.023)	0.42 (<0.1–0.78)
Algeria	41	29 (22–36)	70 (54–89)	0.17 (0.090–0.28)	0.42 (0.22–0.69)	0.46 (0.14–0.78)	1.1 (0.34–1.9)
American Samoa	< 1	<0.01 (<0.01–<0.01)	8.4 (7.2–9.7)	0 (0–0)	<0.1 (<0.1–<0.1)	<0.01 (<0.01–<0.01)	0.46 (0.24–0.69)
Andorra	< 1	<0.01 (<0.01–<0.01)	6 (5.1–6.9)			0 (0–0)	0 (0–0)
Angola	29	107 (66–156)	370 (230–543)	18 (8.5–30)	61 (29–104)	4.3 (1.4–7.3)	15 (4.8–25)
Anguilla	< 1	<0.01 (<0.01–<0.01)	22 (14–31)			0 (0–0)	0 (0–0)
Antigua and Barbuda	< 1	<0.01 (<0.01–<0.01)	3.4 (2.9–3.9)	0 (0–0)	0 (0–<0.1)	<0.01 (<0.01–<0.01)	<0.1 (<0.1–0.11)
Argentina	44	11 (9.2–12)	24 (21–28)	0.59 (0.38–0.85)	1.4 (0.87–1.9)	0.44 (0.29–0.58)	0.99 (0.66–1.3)
Armenia	3	1.3 (0.98–1.6)	44 (34–56)	0.074 (0.048–0.11)	2.5 (1.6–3.6)	0.28 (0.21–0.35)	9.6 (7.2–12)
Aruba	< 1	0.016 (0.014–0.019)	15 (13–18)			<0.01 (<0.01–<0.01)	0.37 (0.24–0.50)
Australia	24	1.5 (1.3–1.7)	6.1 (5.2–7.1)	0.029 (0.025–0.034)	0.12 (0.10–0.14)	0.063 (0.040–0.086)	0.26 (0.16–0.36)
Austria	9	0.71 (0.61–0.82)	8.2 (7.0–9.5)	0.038 (0.021–0.059)	0.43 (0.24–0.67)	0.022 (<0.01–0.036)	0.26 (0.11–0.41)
Azerbaijan	10	6.4 (4.9–8.2)	66 (51–84)	0.13 (0.083–0.18)	1.3 (0.86–1.9)	2.4 (2.0–2.9)	25 (20–30)
Bahamas	< 1	0.1 (0.088–0.12)	26 (22–30)	0.041 (0.027–0.059)	10 (6.8–15)	0.013 (<0.01–0.025)	3.3 (0.25–6.4)
Bahrain	1	0.18 (0.15–0.20)	12 (11–14)	<0.01 (<0.01–0.010)	0.59 (0.49–0.69)	<0.01 (0–<0.01)	0.3 (0–0.69)
Bangladesh	163	360 (262–474)	221 (161–291)	0.5 (0.25–0.84)	0.31 (0.15–0.52)	8.8 (4.8–13)	5.4 (2.9–7.8)
Barbados	< 1	<0.01 (<0.01–<0.01)	1.2 (1.0–1.4)	<0.01 (<0.01–<0.01)	1.2 (0.99–1.4)	0 (0–0)	0 (0–0)
Belarus	9	4.9 (3.5–6.5)	52 (37–69)	0.4 (0.26–0.57)	4.2 (2.7–6.0)	3.4 (2.6–4.1)	35 (28–43)
Belgium	11	1.1 (0.97–1.3)	10 (8.5–12)	0.089 (0.073–0.11)	0.78 (0.64–0.93)	0.024 (<0.01–0.040)	0.21 (<0.1–0.35)
Belize	< 1	0.14 (0.12–0.16)	38 (32–43)	0.04 (0.026–0.057)	11 (7.0–15)	0.011 (<0.01–0.013)	2.9 (2.3–3.5)
Benin	11	6.4 (4.1–9.2)	59 (38–84)	0.95 (0.61–1.4)	8.7 (5.6–12)	0.097 (<0.01–0.19)	0.89 (<0.1–1.8)
Bermuda	< 1	<0.01 (<0.01–<0.01)	3.7 (3.2–4.3)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)
Bhutan	< 1	1.4 (1.1–1.8)	178 (137–226)	<0.01 (<0.01–0.011)	0.94 (0.61–1.3)	0.19 (0.13–0.24)	23 (16–31)
Bolivia (Plurinational State of)	11	12 (8.1–18)	114 (75–162)	0.5 (0.32–0.71)	4.6 (2.9–6.6)	0.47 (0.23–0.70)	4.3 (2.1–6.5)
Bonaire, Saint Eustatius and Saba	< 1	<0.01 (<0.01–<0.01)	4.6 (3.9–5.3)			0 (0–0)	0 (0–0)
Bosnia and Herzegovina	4	1.1 (0.87–1.4)	32 (25–41)	<0.01 (<0.01–<0.01)	<0.1 (<0.1–<0.1)	0 (0–0)	0 (0–0)
Botswana	2	7.3 (5.7–9.2)	326 (252–410)	4.4 (3.4–5.6)	196 (149–249)	0.41 (0.29–0.54)	18 (13–24)
Brazil	208	87 (74–100)	42 (36–48)	11 (9.1–13)	5.2 (4.4–6.2)	2.4 (1.9–2.8)	1.1 (0.90–1.4)
British Virgin Islands	< 1	0 (0–0)	0 (0–0)			0 (0–0)	0 (0–0)
Brunei Darussalam	< 1	0.28 (0.24–0.32)	66 (56–76)	<0.01 (<0.01–<0.01)	0.82 (0.53–1.2)	0 (0–0)	0 (0–0)
Bulgaria	7	1.9 (1.5–2.4)	27 (20–34)	<0.01 (<0.01–<0.01)	<0.1 (<0.1–<0.1)	0.061 (0.041–0.081)	0.85 (0.57–1.1)
Burkina Faso	19	9.4 (6.1–13)	51 (33–72)	0.87 (0.55–1.3)	4.7 (3.0–6.7)	0.3 (0.18–0.41)	1.6 (0.97–2.2)
Burundi	11	12 (8.0–18)	118 (76–169)	1.5 (0.96–2.2)	14 (9.1–20)	0.42 (0.27–0.58)	4 (2.5–5.5)
Cabo Verde	< 1	0.74 (0.48–1.1)	137 (88–195)	0.06 (0.038–0.087)	11 (7.0–16)	0.029 (<0.01–0.048)	5.3 (1.6–9.0)
Cambodia	16	54 (35–78)	345 (223–493)	1.3 (0.85–1.9)	8.5 (5.4–12)	1.2 (0.53–1.9)	7.7 (3.4–12)
Cameroon	23	48 (31–68)	203 (131–290)	16 (10–24)	70 (44–100)	1.6 (1.0–2.2)	6.8 (4.3–9.4)
Canada	36	1.9 (1.6–2.2)	5.2 (4.4–6.0)	0.15 (0.12–0.18)	0.41 (0.34–0.49)	0.019 (<0.01–0.031)	<0.1 (<0.1–<0.1)
Cayman Islands	< 1	<0.01 (<0.01–<0.01)	5.7 (4.9–6.6)	<0.01 (0–<0.01)	1.1 (0.71–1.7)	0 (0–0)	0 (0–0)
Central African Republic	5	19 (12–27)	407 (263–581)	6.2 (3.3–9.9)	134 (73–215)	0.18 (0–0.41)	4 (0–8.9)
Chad	14	22 (14–32)	153 (99–219)	2.8 (1.8–4.0)	20 (13–28)	0.76 (0.16–1.4)	5.3 (1.1–9.4)
Chile	18	2.9 (2.5–3.4)	16 (14–19)	0.47 (0.28–0.70)	2.6 (1.6–3.9)	0.058 (0.037–0.078)	0.32 (0.21–0.44)
China	1 404	895 (766–1 030)	64 (55–74)	11 (6.9–15)	0.76 (0.49–1.1)	73 (56–89)	5.2 (4.0–6.4)
China, Hong Kong SAR	7	5.1 (4.3–5.9)	69 (59–80)	0.038 (0.032–0.045)	0.53 (0.44–0.61)	0.079 (0.053–0.11)	1.1 (0.73–1.5)
China, Macao SAR	< 1	0.41 (0.35–0.48)	67 (58–78)	<0.01 (<0.01–<0.01)	0.65 (0.42–0.93)	0.013 (<0.01–0.021)	2.1 (0.76–3.4)
Colombia	49	16 (12–20)	32 (25–41)	2.2 (1.4–3.1)	4.4 (2.9–6.3)	0.58 (0.40–0.77)	1.2 (0.82–1.6)
Comoros	< 1	0.28 (0.18–0.39)	35 (22–49)	<0.01 (<0.01–0.013)	1.1 (0.71–1.6)	0.045 (<0.01–0.081)	5.7 (1.1–10)
Congo	5	19 (12–28)	378 (240–547)	5.1 (2.6–8.4)	100 (52–163)	0.64 (0.39–0.90)	13 (7.5–18)
Cook Islands	< 1	<0.01 (<0.01–<0.01)	13 (11–15)	0 (0–0)	<0.1 (<0.1–<0.1)	0 (0–0)	0 (0–0)
Costa Rica	5	0.46 (0.35–0.58)	9.5 (7.3–12)	0.039 (0.025–0.056)	0.81 (0.52–1.2)	0.01 (<0.01–0.019)	0.21 (<0.1–0.39)
Côte d'Ivoire	24	36 (23–52)	153 (99–220)	7.9 (5.0–11)	33 (21–48)	2.1 (1.1–3.1)	8.9 (4.6–13)
Croatia	4	0.52 (0.44–0.60)	12 (10–14)	<0.01 (<0.01–<0.01)	<0.1 (<0.1–0.13)	0 (0–0)	0 (0–0)
Cuba	11	0.79 (0.68–0.92)	6.9 (5.9–8.0)	0.069 (0.044–0.098)	0.6 (0.39–0.86)	0.025 (0.010–0.039)	0.21 (<0.1–0.34)
Curaçao	< 1	<0.01 (<0.01–<0.01)	2.9 (2.5–3.3)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)
Cyprus	1	0.066 (0.056–0.076)	5.6 (4.8–6.5)	<0.01 (<0.01–<0.01)	0.2 (0.11–0.31)	0 (0–0)	0 (0–0)
Czechia	11	0.53 (0.45–0.61)	5 (4.3–5.8)	<0.01 (<0.01–0.015)	<0.1 (<0.1–0.14)	0.017 (<0.01–0.026)	0.16 (<0.1–0.24)
Democratic People's Republic of Korea	25	130 (113–148)	513 (446–584)	0.28 (0.14–0.46)	1.1 (0.55–1.8)	5.7 (3.2–8.1)	22 (13–32)
Democratic Republic of the Congo	79	254 (165–363)	323 (209–461)	20 (13–29)	26 (17–37)	7.6 (3.9–11)	9.7 (4.9–15)
Denmark	6	0.35 (0.30–0.41)	6.1 (5.3–7.1)	0.011 (<0.01–0.013)	0.18 (0.14–0.23)	<0.01 (<0.01–0.016)	0.15 (<0.1–0.28)
Djibouti	< 1	3.2 (2.4–4.0)	335 (256–423)	0.17 (0.13–0.21)	18 (13–22)	0.17 (0.093–0.25)	18 (9.8–27)
Dominica	< 1	<0.01 (<0.01–<0.01)	7.8 (6.7–9.0)	<0.01 (<0.01–<0.01)	1.6 (1.0–2.2)	0 (0–0)	0 (0–0)
Dominican Republic	11	6.4 (4.9–8.2)	60 (46–77)	1.5 (1.1–2.0)	14 (11–19)	0.42 (0.30–0.55)	4 (2.9–5.1)
Ecuador	16	8.2 (5.3–12)	50 (33–72)	1.1 (0.69–1.5)	6.5 (4.2–9.2)	0.71 (0.43–1.0)	4.4 (2.6–6.1)
Egypt	96	13 (12–15)	14 (12–15)	0.031 (0.020–0.044)	<0.1 (<0.1–<0.1)	2.1 (1.8–2.5)	2.2 (1.9–2.6)
El Salvador	6	3.8 (2.9–4.8)	60 (46–76)	0.26 (0.17–0.37)	4.1 (2.6–5.8)	0.14 (0.076–0.21)	2.2 (1.2–3.3)
Equatorial Guinea	1	2.2 (1.9–2.5)	181 (159–205)	1.1 (0.93–1.3)	91 (76–107)	0.11 (0.055–0.17)	9.2 (4.5–14)

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

TABLE A4.1

## TB incidence estimates, 2016

	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>
Eritrea	5	3.7 (1.7–6.4)	74 (34–129)	0.22 (0.14–0.31)	4.4 (2.9–6.3)	0.14 (0.028–0.26)	2.9 (0.57–5.2)
Estonia	1	0.22 (0.18–0.25)	16 (14–19)	0.023 (0.015–0.033)	1.8 (1.1–2.5)	0.046 (0.031–0.060)	3.5 (2.3–4.6)
Ethiopia	102	182 (128–245)	177 (125–239)	14 (9.6–19)	13 (9.4–18)	5.8 (3.1–8.5)	5.7 (3.0–8.3)
Fiji	< 1	0.53 (0.41–0.67)	59 (45–75)	0.01 (<0.01–0.012)	1.1 (0.82–1.4)	0 (0–0)	0 (0–0)
Finland	6	0.26 (0.22–0.30)	4.7 (4.0–5.4)	0.01 (<0.01–0.014)	0.17 (0.11–0.25)	<0.01 (0–<0.01)	<0.1 (0–0.18)
France	65	5 (4.4–5.6)	7.7 (6.7–8.6)	0.67 (0.40–1.0)	1 (0.63–1.6)	0.082 (0.059–0.10)	0.13 (<0.1–0.16)
French Polynesia	< 1	0.057 (0.049–0.066)	20 (18–24)			<0.01 (<0.01–<0.01)	1.8 (0.40–3.2)
Gabon	2	9.6 (6.9–13)	485 (347–646)	2 (1.4–2.8)	102 (70–139)	0.4 (0.29–0.50)	20 (15–25)
Gambia	2	3.5 (2.7–4.5)	174 (132–221)	0.65 (0.49–0.84)	32 (24–41)	0.11 (0.018–0.20)	5.4 (0.89–9.9)
Georgia	4	3.6 (3.0–4.3)	92 (77–109)	0.077 (0.064–0.091)	2 (1.6–2.3)	0.78 (0.65–0.92)	20 (17–23)
Germany	82	6.6 (5.6–7.6)	8.1 (6.9–9.3)	0.35 (0.20–0.54)	0.43 (0.24–0.66)	0.22 (0.11–0.34)	0.27 (0.13–0.41)
Ghana	28	44 (21–75)	156 (75–265)	10 (4.7–17)	35 (17–61)	0.84 (0.27–1.4)	3 (0.95–5.0)
Greece	11	0.49 (0.42–0.57)	4.4 (3.7–5.1)	0.039 (0.022–0.060)	0.35 (0.20–0.54)	0.012 (0–0.028)	0.1 (0–0.25)
Greenland	< 1	0.067 (0.057–0.077)	118 (101–137)			<0.01 (<0.01–<0.01)	4.9 (3.7–6.1)
Grenada	< 1	<0.01 (<0.01–<0.01)	6.4 (5.5–7.4)	0 (0–0)	0 (0–0)	<0.01 (<0.01–<0.01)	0.44 (0.24–0.65)
Guam	< 1	0.086 (0.074–0.10)	53 (45–61)	0 (0–0)	<0.1 (<0.1–<0.1)	<0.01 (0–<0.01)	2.6 (0–6.1)
Guatemala	17	4 (3.1–5.1)	24 (19–31)	0.31 (0.20–0.44)	1.9 (1.2–2.6)	0.23 (0.15–0.31)	1.4 (0.92–1.9)
Guinea	12	22 (14–31)	176 (114–252)	5.4 (3.4–7.8)	43 (28–63)	0.73 (0.14–1.3)	5.9 (1.1–11)
Guinea-Bissau	2	6.8 (4.4–9.7)	374 (242–534)	2.2 (1.4–3.2)	120 (75–175)	0.2 (0.017–0.39)	11 (0.93–21)
Guyana	< 1	0.72 (0.55–0.91)	93 (71–118)	0.17 (0.11–0.25)	22 (14–32)	0.046 (0.030–0.062)	5.9 (3.9–8.0)
Haiti	11	20 (17–24)	188 (156–222)	3.1 (2.5–3.6)	28 (23–34)	0.77 (0.44–1.1)	7.1 (4.1–10)
Honduras	9	3.6 (2.8–4.6)	40 (30–50)	0.31 (0.24–0.40)	3.4 (2.6–4.3)	0.12 (0.059–0.17)	1.3 (0.65–1.9)
Hungary	10	0.86 (0.73–0.99)	8.8 (7.5–10)	0.023 (0.013–0.037)	0.24 (0.13–0.38)	0.035 (0.021–0.048)	0.36 (0.22–0.50)
Iceland	< 1	<0.01 (<0.01–<0.01)	2.1 (1.8–2.4)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)
India	1 324	2 790 (1 440–4 570)	211 (109–345)	87 (56–125)	6.6 (4.3–9.4)	147 (95–199)	11 (7.2–15)
Indonesia	261	1 020 (660–1 460)	391 (253–558)	45 (21–78)	17 (8.0–30)	32 (19–45)	12 (7.3–17)
Iran (Islamic Republic of)	80	12 (8.9–15)	14 (11–18)	0.35 (0.23–0.50)	0.44 (0.28–0.62)	0.2 (0.12–0.29)	0.25 (0.14–0.36)
Iraq	37	16 (14–18)	43 (37–48)	0.016 (0.012–0.020)	<0.1 (<0.1–<0.1)	1.2 (0.88–1.5)	3.2 (2.4–4.1)
Ireland	5	0.34 (0.29–0.39)	7.1 (6.1–8.2)	0.023 (0.013–0.036)	0.5 (0.28–0.77)	<0.01 (0–0.011)	<0.1 (0–0.22)
Israel	8	0.29 (0.25–0.33)	3.5 (3.0–4.1)	0.021 (0.013–0.030)	0.25 (0.16–0.36)	0.024 (0.011–0.038)	0.3 (0.13–0.46)
Italy	59	3.7 (3.1–4.2)	6.1 (5.3–7.1)	0.41 (0.24–0.63)	0.69 (0.40–1.1)	0.14 (0.095–0.19)	0.24 (0.16–0.32)
Jamaica	3	0.13 (0.099–0.16)	4.5 (3.4–5.7)	0.055 (0.041–0.072)	1.9 (1.4–2.5)	<0.01 (0–<0.01)	<0.1 (0–0.23)
Japan	128	20 (17–23)	16 (14–18)	0.089 (0.073–0.11)	<0.1 (<0.1–<0.1)	0.26 (0.17–0.34)	0.2 (0.13–0.27)
Jordan	9	0.53 (0.41–0.67)	5.6 (4.3–7.1)	<0.01 (<0.01–<0.01)	<0.1 (<0.1–<0.1)	0.039 (0.012–0.067)	0.41 (0.12–0.70)
Kazakhstan	18	12 (7.7–17)	67 (43–95)	0.58 (0.37–0.82)	3.2 (2.1–4.6)	7 (5.4–8.6)	39 (30–48)
Kenya	48	169 (103–250)	348 (213–516)	53 (32–79)	109 (66–162)	3 (1.6–4.4)	6.2 (3.2–9.1)
Kiribati	< 1	0.65 (0.50–0.82)	566 (433–716)	<0.01 (<0.01–<0.01)	2.4 (1.8–3.1)	0.04 (0.021–0.058)	35 (19–51)
Kuwait	4	0.96 (0.82–1.1)	24 (20–27)	<0.01 (<0.01–<0.01)	0.1 (<0.1–0.11)	0.026 (<0.01–0.042)	0.64 (0.24–1.0)
Kyrgyzstan	6	8.7 (7.7–9.6)	145 (130–162)	0.28 (0.25–0.32)	4.8 (4.2–5.4)	4.8 (4.0–5.5)	80 (68–92)
Lao People's Democratic Republic	7	12 (7.7–17)	175 (113–250)	0.71 (0.45–1.0)	11 (6.7–15)	0.72 (0.33–1.1)	11 (4.8–17)
Latvia	2	0.74 (0.63–0.85)	37 (32–43)	0.091 (0.077–0.11)	4.6 (3.9–5.4)	0.09 (0.066–0.11)	4.6 (3.4–5.8)
Lebanon	6	0.74 (0.64–0.86)	12 (11–14)	<0.01 (<0.01–<0.01)	0.1 (<0.1–0.12)	0.029 (<0.01–0.050)	0.48 (0.14–0.83)
Lesotho	2	16 (10–23)	724 (468–1 030)	12 (7.3–17)	525 (332–760)	1.1 (0.71–1.4)	49 (32–66)
Liberia	5	14 (9.2–20)	308 (199–440)	2.2 (1.4–3.2)	48 (31–70)	0.43 (0.046–0.82)	9.4 (1.0–18)
Libya	6	2.5 (1.6–3.7)	40 (25–58)	0.056 (0.034–0.082)	0.88 (0.55–1.3)	0.12 (0.040–0.20)	1.9 (0.63–3.2)
Lithuania	3	1.5 (1.3–1.8)	53 (46–62)	0.05 (0.042–0.059)	1.7 (1.5–2.0)	0.35 (0.29–0.41)	12 (10–14)
Luxembourg	< 1	0.033 (0.029–0.039)	5.8 (5.0–6.7)	<0.01 (<0.01–<0.01)	0.85 (0.51–1.3)	0 (0–0)	0 (0–0)
Madagascar	25	59 (38–84)	237 (153–338)	1.4 (0.62–2.4)	5.6 (2.5–9.8)	0.44 (0.081–0.79)	1.8 (0.32–3.2)
Malawi	18	29 (15–46)	159 (85–256)	15 (9.9–22)	85 (55–121)	0.4 (0.13–0.67)	2.2 (0.72–3.7)
Malaysia	31	29 (25–33)	92 (79–107)	1.7 (1.4–2.0)	5.4 (4.6–6.3)	0.57 (0.45–0.70)	1.8 (1.4–2.2)
Maldives	< 1	0.21 (0.16–0.27)	49 (38–62)	<0.01 (<0.01–<0.01)	0.23 (0.15–0.33)	<0.01 (0–0.011)	0.95 (0–2.6)
Mali	18	10 (6.6–14)	56 (37–79)	1.4 (0.90–2.0)	7.8 (5.0–11)	0.38 (0.10–0.66)	2.1 (0.58–3.6)
Malta	< 1	0.058 (0.049–0.066)	13 (11–15)	0.015 (0.013–0.017)	3.5 (3.0–4.1)	0 (0–0)	0 (0–0)
Marshall Islands	< 1	0.22 (0.17–0.28)	422 (323–533)	0 (0–0)	0.39 (0.27–0.52)	0 (0–0)	0 (0–0)
Mauritania	4	4.4 (2.8–6.3)	102 (66–146)	0.22 (0.084–0.42)	5.1 (2.0–9.8)	0.14 (0.023–0.26)	3.3 (0.53–6.0)
Mauritius	1	0.28 (0.18–0.40)	22 (14–31)	0.037 (0.023–0.053)	2.9 (1.8–4.2)	<0.01 (0–0.017)	0.65 (0–1.3)
Mexico	128	28 (21–35)	22 (17–28)	3.7 (2.8–4.7)	2.9 (2.2–3.7)	0.94 (0.74–1.1)	0.74 (0.58–0.90)
Micronesia (Federated States of)	< 1	0.19 (0.14–0.24)	177 (136–225)	0 (0–0)	0.18 (0.13–0.24)	0.011 (<0.01–0.016)	10 (5.1–15)
Monaco	< 1	0 (0–0)	0 (0–0)			0 (0–0)	0 (0–0)
Mongolia	3	5.5 (4.2–7.0)	183 (140–231)	0.012 (<0.01–0.016)	0.4 (0.30–0.51)	0.47 (0.36–0.58)	15 (12–19)
Montenegro	< 1	0.1 (0.086–0.12)	16 (14–18)	0 (0–0)	<0.1 (<0.1–<0.1)	0 (0–0)	0 (0–0)
Montserrat	< 1	0 (0–0)	0 (0–0)			0 (0–0)	0 (0–0)
Morocco	35	36 (31–42)	103 (88–119)	0.44 (0.29–0.63)	1.3 (0.81–1.8)	0.64 (0.38–0.90)	1.8 (1.1–2.5)
Mozambique	29	159 (103–227)	551 (356–787)	72 (46–104)	249 (158–360)	7.6 (4.5–11)	26 (16–37)
Myanmar	53	191 (141–249)	361 (266–471)	18 (13–24)	34 (25–45)	13 (8.8–18)	25 (17–34)
Namibia	2	11 (8.5–14)	446 (342–565)	4.2 (2.7–6.0)	171 (110–244)	0.96 (0.74–1.2)	39 (30–47)

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

TABLE A4.1

## TB incidence estimates, 2016

	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>
Nauru	< 1	0.013 (0.011–0.015)	112 (96–129)			<0.01 (<0.01–<0.01)	14 (11–17)
Nepal	29	45 (39–50)	154 (136–174)	0.95 (0.52–1.5)	3.3 (1.8–5.2)	1.5 (0.91–2.1)	5.1 (3.1–7.1)
Netherlands	17	1 (0.86–1.2)	5.9 (5.1–6.9)	0.034 (0.028–0.040)	0.2 (0.17–0.24)	0.029 (0.013–0.045)	0.17 (<0.1–0.26)
New Caledonia	< 1	0.044 (0.037–0.050)	16 (14–19)			0 (0–0)	0 (0–0)
New Zealand	5	0.34 (0.29–0.39)	7.3 (6.2–8.4)	0 (0–0)	<0.1 (<0.1–<0.1)	<0.01 (<0.01–0.018)	0.21 (<0.1–0.39)
Nicaragua	6	2.9 (2.2–3.7)	48 (36–60)	0.14 (0.10–0.17)	2.2 (1.7–2.8)	0.053 (0.013–0.093)	0.86 (0.21–1.5)
Niger	21	19 (12–27)	93 (60–132)	0.95 (0.60–1.4)	4.6 (2.9–6.6)	0.66 (0.14–1.2)	3.2 (0.67–5.7)
Nigeria	186	407 (266–579)	219 (143–311)	63 (40–93)	34 (21–50)	20 (12–29)	11 (6.4–15)
Niue	< 1	0 (0–0)	20 (17–23)			0 (0–0)	0 (0–0)
Northern Mariana Islands	< 1	0.032 (0.028–0.037)	59 (50–68)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)
Norway	5	0.32 (0.27–0.37)	6.1 (5.2–7.0)	0.014 (<0.01–0.021)	0.27 (0.18–0.39)	<0.01 (<0.01–0.018)	0.18 (<0.1–0.34)
Oman	4	0.4 (0.34–0.46)	9 (7.7–10)	0.014 (<0.01–0.020)	0.32 (0.21–0.45)	<0.01 (<0.01–0.015)	0.18 (<0.1–0.34)
Pakistan	193	518 (335–741)	268 (174–383)	6.9 (3.2–12)	3.5 (1.6–6.2)	27 (17–37)	14 (8.8–19)
Palau	< 1	0.026 (0.023–0.031)	123 (105–142)	0 (0–0)	<0.1 (<0.1–0.10)	0 (0–0)	0 (0–0)
Panama	4	2.2 (1.7–2.8)	55 (42–70)	0.25 (0.16–0.36)	6.2 (4.0–8.9)	0.096 (0.057–0.14)	2.4 (1.4–3.4)
Papua New Guinea	8	35 (28–42)	432 (352–521)	3.6 (2.0–5.5)	44 (25–68)	1.9 (1.2–2.6)	23 (15–32)
Paraguay	7	2.8 (2.4–3.2)	42 (36–48)	0.27 (0.17–0.39)	4 (2.6–5.7)	0.084 (0.036–0.13)	1.2 (0.54–1.9)
Peru	32	37 (28–47)	117 (90–148)	2.2 (1.6–2.8)	6.8 (5.2–8.7)	3.5 (2.9–4.2)	11 (9.1–13)
Philippines	103	573 (321–895)	554 (311–866)	6 (2.5–11)	5.9 (2.4–11)	30 (21–40)	30 (20–39)
Poland	38	7.1 (6.0–8.2)	18 (16–21)	0.18 (0.099–0.28)	0.47 (0.26–0.73)	0.09 (0.066–0.11)	0.24 (0.17–0.30)
Portugal	10	2.1 (1.8–2.4)	20 (17–23)	0.29 (0.24–0.34)	2.8 (2.4–3.3)	0.028 (0.017–0.040)	0.27 (0.16–0.39)
Puerto Rico	4	0.075 (0.064–0.086)	2 (1.7–2.4)	<0.01 (<0.01–0.010)	0.24 (0.20–0.28)	<0.01 (<0.01–<0.01)	0.12 (0.11–0.13)
Qatar	3	0.58 (0.50–0.67)	23 (19–26)	0 (0–0)	0 (0–0)	<0.01 (0–0.018)	0.3 (0–0.72)
Republic of Korea	51	39 (36–42)	77 (71–82)	0.77 (0.44–1.2)	1.5 (0.86–2.3)	2.4 (2.1–2.7)	4.8 (4.1–5.4)
Republic of Moldova	4	4.1 (3.5–4.7)	101 (87–117)	0.37 (0.31–0.43)	9.2 (7.8–11)	2.3 (1.9–2.6)	56 (47–65)
Romania	20	15 (13–17)	74 (64–86)	0.37 (0.31–0.43)	1.9 (1.6–2.2)	0.89 (0.75–1.0)	4.5 (3.8–5.2)
Russian Federation	144	94 (61–135)	66 (42–94)	18 (12–26)	13 (8.1–18)	63 (52–74)	44 (36–51)
Rwanda	12	6 (5.0–7.1)	50 (42–59)	1.4 (0.90–2.0)	12 (7.5–17)	0.14 (0.089–0.19)	1.2 (0.74–1.6)
Saint Kitts and Nevis	< 1	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)
Saint Lucia	< 1	<0.01 (<0.01–<0.01)	1.9 (1.7–2.2)	<0.01 (<0.01–<0.01)	0.65 (0.42–0.92)	0 (0–0)	0 (0–0)
Saint Vincent and the Grenadines	< 1	<0.01 (<0.01–<0.01)	6.3 (5.4–7.3)	0 (0–0)	0 (0–0)	<0.01 (0–<0.01)	3.2 (0–7.6)
Samoa	< 1	0.015 (0.013–0.017)	7.7 (6.6–8.9)			<0.01 (0–<0.01)	0.96 (0–2.7)
San Marino	< 1	0 (0–0)	0 (0–0)			0 (0–0)	0 (0–0)
Sao Tome and Principe	< 1	0.2 (0.19–0.20)	99 (96–101)	0.037 (0.024–0.053)	19 (12–26)	0.01 (<0.01–0.015)	5.1 (2.6–7.7)
Saudi Arabia	32	3.3 (2.9–3.9)	10 (8.9–12)	0.079 (0.066–0.094)	0.25 (0.20–0.29)	0.13 (0.11–0.16)	0.41 (0.33–0.48)
Senegal	15	22 (15–30)	140 (95–193)	1.4 (0.91–1.9)	8.8 (5.9–12)	0.44 (0.28–0.61)	2.9 (1.8–4.0)
Serbia	9	1.7 (1.4–2.0)	19 (16–22)	0.01 (<0.01–0.014)	0.11 (<0.1–0.16)	0.027 (0.013–0.041)	0.3 (0.15–0.46)
Seychelles	< 1	0.014 (0.012–0.016)	15 (13–17)	<0.01 (<0.01–<0.01)	1.1 (0.69–1.5)	0 (0–0)	0 (0–0)
Sierra Leone	7	22 (14–32)	304 (195–435)	3.1 (2.0–4.5)	42 (27–61)	0.72 (0.12–1.3)	9.7 (1.6–18)
Singapore	6	2.8 (2.4–3.3)	51 (43–58)	0.044 (0.037–0.051)	0.78 (0.66–0.90)	0.051 (0.031–0.071)	0.91 (0.55–1.3)
Sint Maarten (Dutch part)	< 1	0 (0–0)	0 (0–0)			0 (0–0)	0 (0–0)
Slovakia	5	0.32 (0.28–0.37)	5.9 (5.1–6.9)	0 (0–0)	<0.1 (0–<0.1)	<0.01 (<0.01–<0.01)	<0.1 (<0.1–<0.1)
Slovenia	2	0.14 (0.12–0.16)	6.5 (5.6–7.5)	<0.01 (<0.01–<0.01)	<0.1 (<0.1–<0.1)	0 (0–0)	0 (0–0)
Solomon Islands	< 1	0.5 (0.38–0.64)	84 (64–106)			0.029 (0.015–0.044)	4.9 (2.5–7.3)
Somalia	14	39 (25–55)	270 (175–385)	0.59 (0.37–0.86)	4.1 (2.6–6.0)	3.9 (2.2–5.6)	27 (16–39)
South Africa	56	438 (304–595)	781 (543–1 060)	258 (176–355)	461 (315–635)	19 (12–25)	34 (22–45)
South Sudan	12	18 (12–26)	146 (95–209)	2.2 (1.4–3.1)	18 (11–26)	0.66 (0.43–0.90)	5.4 (3.5–7.3)
Spain	46	4.7 (4.0–5.5)	10 (8.7–12)	0.34 (0.29–0.41)	0.74 (0.62–0.88)	0.23 (0.16–0.30)	0.5 (0.33–0.66)
Sri Lanka	21	13 (9.9–18)	65 (48–84)	0.02 (0.015–0.027)	0.1 (<0.1–0.13)	0.093 (0–0.20)	0.45 (0–0.95)
Sudan	40	32 (18–51)	82 (46–129)	0.83 (0.54–1.2)	2.1 (1.4–3.0)	1.2 (0.58–1.9)	3.1 (1.5–4.7)
Suriname	< 1	0.14 (0.11–0.18)	26 (20–32)	0.036 (0.028–0.046)	6.5 (5.0–8.3)	0.011 (<0.01–0.019)	1.9 (0.44–3.4)
Swaziland	1	5.4 (3.4–7.8)	398 (252–578)	3.8 (2.4–5.4)	280 (181–399)	0.66 (0.34–0.98)	49 (25–73)
Sweden	10	0.81 (0.69–0.93)	8.2 (7.0–9.5)	0.048 (0.027–0.074)	0.49 (0.28–0.75)	0.037 (0.021–0.053)	0.38 (0.21–0.54)
Switzerland	8	0.66 (0.56–0.76)	7.8 (6.7–9.1)	0.068 (0.040–0.10)	0.81 (0.47–1.2)	0.031 (0.014–0.049)	0.37 (0.16–0.58)
Syrian Arab Republic	18	3.8 (2.9–4.8)	21 (16–26)	<0.01 (<0.01–<0.01)	<0.1 (<0.1–<0.1)	0.37 (0.23–0.51)	2 (1.2–2.8)
Tajikistan	9	7.5 (5.7–9.4)	85 (65–108)	0.25 (0.16–0.35)	2.8 (1.8–4.0)	2.6 (2.1–3.1)	30 (24–36)
Thailand	69	119 (70–180)	172 (102–261)	10 (6.1–16)	15 (8.8–23)	4.7 (3.0–6.3)	6.8 (4.4–9.2)
The Former Yugoslav Republic of Macedonia	2	0.33 (0.25–0.42)	16 (12–20)	0 (0–0)	<0.1 (<0.1–<0.1)	<0.01 (0–0.012)	0.28 (0–0.57)
Timor-Leste	1	6.3 (4.1–9.0)	498 (322–712)	0.059 (0.038–0.084)	4.6 (3.0–6.6)	0.21 (0.13–0.28)	16 (10–22)
Togo	8	3.5 (2.8–4.2)	46 (37–56)	0.77 (0.50–1.1)	10 (6.5–14)	0.11 (0.023–0.20)	1.5 (0.30–2.7)
Tokelau	< 1	0 (0–0)	0 (0–0)			0 (0–0)	0 (0–0)
Tonga	< 1	<0.01 (<0.01–0.011)	8.6 (7.3–9.9)	0 (0–0)	0 (0–0)	<0.01 (<0.01–<0.01)	0.48 (0.25–0.70)
Trinidad and Tobago	1	0.25 (0.21–0.28)	18 (15–21)	0.047 (0.030–0.067)	3.4 (2.2–4.9)	<0.01 (<0.01–0.011)	0.66 (0.50–0.81)
Tunisia	11	4.3 (3.3–5.4)	38 (29–48)	0.028 (0.018–0.040)	0.25 (0.16–0.35)	0.045 (0.019–0.071)	0.4 (0.16–0.63)
Turkey	80	14 (12–16)	18 (15–20)	0.092 (0.077–0.11)	0.12 (0.10–0.14)	0.56 (0.46–0.65)	0.7 (0.58–0.82)
Turkmenistan	6	3.4 (2.6–4.3)	60 (46–76)	0.18 (0.084–0.31)	3.2 (1.5–5.5)	0.83 (0.65–1.0)	15 (11–18)

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

TABLE A4.1

## TB incidence estimates, 2016

	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	<0.01 (<0.01–<0.01)	6.6 (5.6–7.6)	<0.01 (<0.01–<0.01)	3.3 (2.1–4.7)	<0.01 (<0.01–<0.01)	0.16 (0.10–0.22)
Tuvalu	< 1	0.023 (0.020–0.027)	207 (177–239)	0 (0–0)	0 (0–0)	<0.01 (<0.01–<0.01)	16 (10–22)
Uganda	41	83 (49–127)	201 (118–306)	35 (20–54)	85 (49–131)	1.9 (0.98–2.9)	4.7 (2.4–7.0)
Ukraine	44	39 (25–55)	87 (56–124)	8.1 (5.2–12)	18 (12–26)	21 (16–26)	47 (37–58)
United Arab Emirates	9	0.074 (0.063–0.085)	0.79 (0.68–0.92)	<0.01 (<0.01–<0.01)	<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	66	6.5 (5.9–7.2)	9.9 (8.9–11)	0.56 (0.33–0.85)	0.85 (0.50–1.3)	0.11 (0.072–0.14)	0.16 (0.11–0.22)
United Republic of Tanzania	56	160 (75–275)	287 (136–495)	54 (35–78)	98 (63–140)	2.6 (0.63–4.6)	4.7 (1.1–8.3)
United States of America	322	10 (8.7–12)	3.1 (2.7–3.6)	0.56 (0.47–0.65)	0.17 (0.15–0.20)	0.18 (0.13–0.22)	<0.1 (<0.1–<0.1)
Uruguay	3	1 (0.86–1.2)	29 (25–34)	0.16 (0.14–0.19)	4.6 (4.0–5.4)	0 (0–0)	0 (0–0)
US Virgin Islands	< 1	<0.01 (<0.01–<0.01)	7.7 (6.8–8.7)			0 (0–0)	0 (0–0)
Uzbekistan	31	24 (17–32)	76 (53–103)	1.2 (0.80–1.7)	3.8 (2.5–5.3)	10 (7.6–13)	32 (24–40)
Vanuatu	< 1	0.15 (0.12–0.20)	56 (43–72)			0 (0–0)	0 (0–0)
Venezuela (Bolivarian Republic of)	32	10 (7.8–13)	32 (25–41)	1.2 (0.87–1.5)	3.7 (2.7–4.7)	0.41 (0.23–0.58)	1.3 (0.73–1.8)
Viet Nam	95	126 (103–151)	133 (109–159)	4.2 (3.4–5.1)	4.4 (3.6–5.4)	8.2 (6.1–10)	8.7 (6.5–11)
Wallis and Futuna Islands	< 1	0 (0–0)	0 (0–0)			0 (0–0)	0 (0–0)
West Bank and Gaza Strip	5	0.049 (0.038–0.062)	1 (0.79–1.3)	0 (0–0)	0 (0–0)	<0.01 (<0.01–<0.01)	<0.1 (<0.1–<0.1)
Yemen	28	13 (12–15)	48 (42–54)	0.091 (0.059–0.13)	0.33 (0.21–0.47)	0.36 (0.18–0.55)	1.3 (0.65–2.0)
Zambia	17	62 (40–89)	376 (244–535)	36 (23–52)	218 (140–312)	2.1 (1.4–2.9)	13 (8.4–17)
Zimbabwe	16	34 (24–44)	208 (152–273)	23 (15–32)	139 (90–199)	1.9 (1.3–2.6)	12 (8.0–16)
<b>WHO regions</b>							
African Region	1 020	2 590 (2 310–2 900)	254 (227–284)	764 (660–876)	75 (65–86)	93 (81–106)	9.1 (7.9–10)
Region of the Americas	996	274 (255–294)	27 (26–29)	30 (28–33)	3 (2.8–3.3)	12 (11–13)	1.2 (1.1–1.3)
Eastern Mediterranean Region	669	766 (573–985)	114 (86–147)	9.9 (5.9–15)	1.5 (0.89–2.2)	41 (31–52)	6.2 (4.7–7.8)
European Region	916	290 (251–333)	32 (27–36)	34 (26–42)	3.7 (2.9–4.6)	122 (110–134)	13 (12–15)
South-East Asia Region	1 948	4 670 (3 190–6 440)	240 (164–331)	163 (120–211)	8.3 (6.2–11)	214 (163–272)	11 (8.4–14)
Western Pacific Region	1 891	1 800 (1 500–2 130)	95 (79–113)	29 (23–36)	1.5 (1.2–1.9)	119 (101–139)	6.3 (5.3–7.4)
<b>Global</b>	<b>7 440</b>	<b>10 400 (8 770–12 200)</b>	<b>140 (118–164)</b>	<b>1 030 (915–1 150)</b>	<b>14 (12–15)</b>	<b>601 (541–664)</b>	<b>8.1 (7.3–8.9)</b>

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

TABLE A4.2

Estimates of TB mortality, 2016. 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	35	11 (6.7–17)	33 (19–49)	0.096 (0.016–0.24)	0.28 (<0.1–0.71)	11 (6.8–17)	33 (20–49)
Albania	3	<0.01 (<0.01–0.015)	0.29 (0.13–0.51)	<0.01 (0–<0.01)	<0.1 (<0.1–<0.1)	<0.01 (<0.01–0.016)	0.32 (0.16–0.53)
Algeria	41	3.1 (2.0–4.5)	7.7 (4.9–11)	0.035 (0.017–0.059)	<0.1 (<0.1–0.15)	3.2 (2.0–4.5)	7.8 (5.0–11)
American Samoa	< 1	0 (0–<0.01)	0.69 (0.42–1.0)	0 (0–0)	0 (0–0)	0 (0–<0.01)	0.69 (0.43–1.0)
Andorra	< 1	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)
Angola	29	18 (10–29)	64 (36–99)	6.9 (3.4–12)	24 (12–41)	25 (16–36)	88 (57–126)
Anguilla	< 1	<0.01 (<0.01–<0.01)	9.2 (5.3–14)	0 (0–0)	0 (0–0)	<0.01 (<0.01–<0.01)	9.2 (5.3–14)
Antigua and Barbuda	< 1	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)
Argentina	44	0.6 (0.58–0.63)	1.4 (1.3–1.4)	0.064 (0.031–0.11)	0.15 (<0.1–0.25)	0.67 (0.62–0.71)	1.5 (1.4–1.6)
Armenia	3	0.062 (0.037–0.094)	2.1 (1.3–3.2)	0.015 (0.011–0.021)	0.52 (0.36–0.70)	0.077 (0.051–0.11)	2.6 (1.8–3.7)
Aruba	< 1	<0.01 (<0.01–<0.01)	1.3 (0.78–1.9)	0 (0–0)	0 (0–0)	<0.01 (<0.01–<0.01)	1.3 (0.78–1.9)
Australia	24	0.048 (0.047–0.048)	0.2 (0.20–0.20)	<0.01 (<0.01–<0.01)	<0.1 (<0.1–<0.1)	0.052 (0.051–0.054)	0.22 (0.21–0.22)
Austria	9	0.071 (0.071–0.072)	0.82 (0.81–0.83)	<0.01 (<0.01–0.010)	<0.1 (<0.1–0.11)	0.077 (0.074–0.081)	0.89 (0.85–0.93)
Azerbaijan	10	0.62 (0.61–0.63)	6.4 (6.3–6.5)	0.028 (0.020–0.036)	0.28 (0.20–0.37)	0.65 (0.64–0.66)	6.7 (6.6–6.8)
Bahamas	< 1	<0.01 (<0.01–<0.01)	0.21 (0.21–0.21)	<0.01 (<0.01–<0.01)	1.7 (1.3–2.2)	<0.01 (<0.01–0.010)	1.9 (1.5–2.4)
Bahrain	1	<0.01 (<0.01–<0.01)	0.56 (0.51–0.62)	<0.01 (<0.01–<0.01)	0.1 (<0.1–0.14)	<0.01 (<0.01–0.010)	0.67 (0.60–0.73)
Bangladesh	163	66 (43–94)	40 (26–58)	0.18 (0.086–0.30)	0.11 (<0.1–0.18)	66 (43–94)	41 (26–58)
Barbados	< 1	<0.01 (<0.01–<0.01)	0.72 (0.71–0.72)	<0.01 (0–<0.01)	0.22 (0.15–0.30)	<0.01 (<0.01–<0.01)	0.94 (0.86–1.0)
Belarus	9	0.23 (0.20–0.26)	2.4 (2.1–2.8)	0.13 (0.086–0.17)	1.3 (0.91–1.8)	0.35 (0.30–0.41)	3.7 (3.2–4.3)
Belgium	11	0.042 (0.041–0.043)	0.37 (0.36–0.38)	0.014 (<0.01–0.019)	0.12 (<0.1–0.17)	0.056 (0.050–0.061)	0.49 (0.44–0.54)
Belize	< 1	<0.01 (<0.01–<0.01)	2.1 (2.1–2.1)	<0.01 (<0.01–<0.01)	1.7 (1.1–2.3)	0.014 (0.012–0.016)	3.7 (3.1–4.4)
Benin	11	1 (0.61–1.5)	9.4 (5.6–14)	0.33 (0.21–0.47)	3 (1.9–4.4)	1.3 (0.91–1.9)	12 (8.3–17)
Bermuda	< 1	0 (0–0)	0.31 (0.19–0.45)	0 (0–0)	0 (0–0)	0 (0–0)	0.31 (0.19–0.45)
Bhutan	< 1	0.16 (0.10–0.22)	20 (13–28)	<0.01 (<0.01–<0.01)	0.2 (0.15–0.27)	0.16 (0.10–0.22)	20 (13–28)
Bolivia (Plurinational State of)	11	0.93 (0.67–1.2)	8.6 (6.2–11)	0.17 (0.11–0.24)	1.6 (1.0–2.2)	1.1 (0.83–1.4)	10 (7.7–13)
Bonaire, Saint Eustatius and Saba	< 1	0 (0–0)	0.38 (0.23–0.56)	0 (0–0)	0 (0–0)	0 (0–0)	0.38 (0.23–0.56)
Bosnia and Herzegovina	4	0.14 (0.12–0.15)	3.9 (3.4–4.4)	0 (0–<0.01)	<0.1 (<0.1–<0.1)	0.14 (0.12–0.15)	3.9 (3.4–4.4)
Botswana	2	0.49 (0.32–0.70)	22 (14–31)	1.4 (1.0–1.8)	62 (45–81)	1.9 (1.5–2.4)	84 (65–105)
Brazil	208	5.4 (4.9–5.9)	2.6 (2.3–2.9)	1.9 (1.4–2.4)	0.9 (0.66–1.2)	7.3 (6.5–8.0)	3.5 (3.1–3.9)
British Virgin Islands	< 1	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)
Brunei Darussalam	< 1	0.025 (0.021–0.029)	5.9 (5.0–6.8)	0	0	0.025 (0.021–0.029)	5.9 (5.0–6.8)
Bulgaria	7	0.12 (0.12–0.13)	1.7 (1.7–1.8)	0 (0–<0.01)	<0.1 (0–<0.1)	0.12 (0.12–0.13)	1.7 (1.7–1.8)
Burkina Faso	19	1.6 (0.97–2.4)	8.7 (5.2–13)	0.31 (0.19–0.44)	1.6 (1.0–2.4)	1.9 (1.2–2.8)	10 (6.7–15)
Burundi	11	2 (1.2–3.1)	19 (12–29)	0.52 (0.33–0.75)	4.9 (3.1–7.1)	2.6 (1.7–3.6)	24 (16–34)
Cabo Verde	< 1	0.02 (0.019–0.021)	3.7 (3.5–3.9)	0.032 (0.020–0.048)	6 (3.6–8.9)	0.052 (0.039–0.068)	9.7 (7.2–13)
Cambodia	16	3.2 (2.1–4.4)	20 (14–28)	0.45 (0.29–0.66)	2.9 (1.8–4.2)	3.6 (2.6–4.9)	23 (16–31)
Cameroon	23	6.6 (3.9–10)	28 (17–43)	6.3 (4.0–9.2)	27 (17–39)	13 (9.2–17)	55 (39–74)
Canada	36	0.099 (0.098–0.10)	0.27 (0.27–0.27)	0.023 (0.015–0.033)	<0.1 (<0.1–<0.1)	0.12 (0.11–0.13)	0.34 (0.31–0.36)
Cayman Islands	< 1	0 (0–0)	0 (0–0)	0 (0–0)	0.2 (0.11–0.32)	0 (0–0)	0.2 (0.11–0.32)
Central African Republic	5	2.7 (1.5–4.2)	59 (33–92)	2.5 (1.3–4.0)	54 (29–87)	5.2 (3.5–7.3)	113 (76–158)
Chad	14	4.5 (2.7–6.9)	31 (18–48)	1.3 (0.61–2.1)	8.7 (4.2–15)	5.8 (3.7–8.3)	40 (26–57)
Chile	18	0.35 (0.34–0.35)	1.9 (1.9–2.0)	0.072 (0.037–0.12)	0.4 (0.21–0.67)	0.42 (0.38–0.46)	2.3 (2.1–2.6)
China	1 404	50 (34–70)	3.6 (2.4–5.0)	1.8 (0.70–3.4)	0.13 (<0.1–0.24)	52 (35–72)	3.7 (2.5–5.1)
China, Hong Kong SAR	7	0.16 (0.16–0.17)	2.2 (2.2–2.3)	<0.01 (<0.01–<0.01)	<0.1 (<0.1–0.12)	0.17 (0.17–0.17)	2.3 (2.3–2.4)
China, Macao SAR	< 1	0.034 (0.021–0.050)	5.5 (3.4–8.1)	<0.01 (0–<0.01)	<0.1 (<0.1–0.11)	0.034 (0.021–0.050)	5.6 (3.5–8.2)
Colombia	49	0.98 (0.97–0.99)	2 (2.0–2.0)	0.46 (0.34–0.61)	0.95 (0.70–1.2)	1.4 (1.3–1.6)	3 (2.7–3.2)
Comoros	< 1	0.051 (0.031–0.078)	6.5 (3.8–9.8)	<0.01 (<0.01–<0.01)	0.41 (0.26–0.59)	0.055 (0.034–0.081)	6.9 (4.2–10)
Congo	5	3.1 (1.7–4.8)	60 (34–93)	2.1 (1.1–3.4)	41 (21–66)	5.1 (3.4–7.2)	100 (67–141)
Cook Islands	< 1	0 (0–0)	1.1 (0.67–1.6)	0 (0–0)	0 (0–0)	0 (0–0)	1.1 (0.67–1.6)
Costa Rica	5	0.042 (0.040–0.045)	0.87 (0.82–0.93)	<0.01 (<0.01–0.011)	0.17 (0.11–0.23)	0.05 (0.047–0.054)	1 (0.96–1.1)
Côte d'Ivoire	24	5.5 (3.3–8.4)	23 (14–35)	2.8 (1.8–4.1)	12 (7.5–17)	8.4 (5.8–11)	35 (24–48)
Croatia	4	0.027 (0.026–0.027)	0.63 (0.63–0.64)	<0.01 (0–<0.01)	<0.1 (<0.1–<0.1)	0.027 (0.027–0.028)	0.65 (0.64–0.66)
Cuba	11	0.039 (0.038–0.041)	0.34 (0.33–0.36)	0.011 (<0.01–0.015)	<0.1 (<0.1–0.13)	0.05 (0.046–0.054)	0.43 (0.40–0.47)
Curaçao	< 1	0 (0–<0.01)	0.24 (0.15–0.35)	0 (0–0)	0 (0–0)	0 (0–<0.01)	0.24 (0.15–0.35)
Cyprus	1	<0.01 (<0.01–<0.01)	0.42 (0.41–0.42)	0 (0–<0.01)	<0.1 (<0.1–<0.1)	<0.01 (<0.01–<0.01)	0.45 (0.43–0.47)
Czechia	11	0.057 (0.056–0.057)	0.54 (0.53–0.54)	<0.01 (<0.01–<0.01)	<0.1 (<0.1–<0.1)	0.058 (0.057–0.059)	0.55 (0.54–0.56)
Democratic People's Republic of Korea	25	11 (6.8–16)	43 (27–63)	0.051 (0.023–0.089)	0.2 (<0.1–0.35)	11 (6.8–16)	43 (27–63)
Democratic Republic of the Congo	79	53 (31–80)	67 (39–101)	8.5 (4.0–15)	11 (5.1–19)	61 (39–89)	78 (49–112)
Denmark	6	0.013 (0.013–0.014)	0.24 (0.22–0.25)	<0.01 (<0.01–<0.01)	<0.1 (<0.1–<0.1)	0.015 (0.014–0.016)	0.26 (0.24–0.29)
Djibouti	< 1	0.33 (0.21–0.47)	35 (22–50)	0.035 (0.025–0.046)	3.7 (2.7–4.9)	0.36 (0.24–0.51)	39 (26–54)
Dominica	< 1	0 (0–0)	0.31 (0.31–0.31)	0 (0–0)	0.24 (0.16–0.34)	0 (0–0)	0.55 (0.46–0.65)
Dominican Republic	11	0.56 (0.24–1.0)	5.2 (2.3–9.5)	0.49 (0.35–0.64)	4.6 (3.3–6.0)	1 (0.67–1.5)	9.8 (6.3–14)

<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, 2016. Deaths from TB among HIV-positive people are officially classified as deaths caused by HIV/AIDS in the *International classification of diseases*.

	Population (thousands)	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	0.4 (0.31–0.49)	2.4 (1.9–3.0)	0.34 (0.22–0.49)	2.1 (1.3–3.0)	0.74 (0.58–0.91)	4.5 (3.5–5.6)
Egypt	96	0.29 (0.27–0.30)	0.3 (0.28–0.31)	0.011 (<0.01–0.017)	<0.1 (<0.1–<0.1)	0.3 (0.28–0.31)	0.31 (0.29–0.33)
El Salvador	6	0.077 (0.047–0.11)	1.2 (0.74–1.8)	0.053 (0.037–0.072)	0.84 (0.59–1.1)	0.13 (0.095–0.17)	2.1 (1.5–2.7)
Equatorial Guinea	1	0.19 (0.13–0.26)	16 (11–21)	0.37 (0.28–0.46)	30 (23–38)	0.56 (0.45–0.67)	46 (37–55)
Eritrea	5	0.64 (0.29–1.1)	13 (5.9–23)	0.075 (0.036–0.13)	1.5 (0.72–2.6)	0.72 (0.36–1.2)	15 (7.2–24)
Estonia	1	0.016 (0.016–0.016)	1.2 (1.2–1.2)	<0.01 (<0.01–<0.01)	0.27 (0.18–0.38)	0.02 (0.018–0.021)	1.5 (1.4–1.6)
Ethiopia	102	26 (16–37)	25 (16–36)	4 (2.7–5.4)	3.9 (2.6–5.3)	30 (20–41)	29 (20–40)
Fiji	< 1	0.04 (0.037–0.043)	4.4 (4.1–4.8)	<0.01 (<0.01–<0.01)	0.22 (0.15–0.30)	0.042 (0.039–0.045)	4.7 (4.3–5.0)
Finland	6	0.031 (0.030–0.031)	0.56 (0.55–0.56)	<0.01 (<0.01–<0.01)	<0.1 (<0.1–<0.1)	0.032 (0.031–0.033)	0.58 (0.57–0.60)
France	65	0.41 (0.39–0.43)	0.63 (0.60–0.67)	0.11 (0.056–0.18)	0.17 (<0.1–0.27)	0.52 (0.45–0.58)	0.8 (0.70–0.90)
French Polynesia	< 1	<0.01 (<0.01–<0.01)	1.7 (1.0–2.5)	0 (0–0)	0 (0–0)	<0.01 (<0.01–<0.01)	1.7 (1.0–2.5)
Gabon	2	1.5 (0.96–2.2)	76 (49–110)	0.76 (0.51–1.0)	38 (26–53)	2.3 (1.6–3.0)	114 (83–150)
Gambia	2	0.43 (0.28–0.60)	21 (14–30)	0.19 (0.14–0.24)	9.1 (6.6–12)	0.62 (0.46–0.80)	30 (22–39)
Georgia	4	0.19 (0.13–0.26)	4.8 (3.4–6.5)	0.015 (0.011–0.019)	0.38 (0.28–0.49)	0.2 (0.15–0.27)	5.2 (3.7–6.9)
Germany	82	0.32 (0.32–0.33)	0.39 (0.39–0.40)	0.054 (0.026–0.091)	<0.1 (<0.1–0.11)	0.38 (0.34–0.41)	0.46 (0.42–0.50)
Ghana	28	10 (4.6–18)	36 (16–64)	5.5 (2.6–9.6)	20 (9.3–34)	16 (9.1–24)	56 (32–86)
Greece	11	0.055 (0.053–0.057)	0.49 (0.48–0.51)	<0.01 (<0.01–0.010)	<0.1 (<0.1–<0.1)	0.061 (0.057–0.065)	0.55 (0.51–0.58)
Greenland	< 1	<0.01 (<0.01–<0.01)	9.7 (6.0–14)	0 (0–0)	0 (0–0)	<0.01 (<0.01–<0.01)	9.7 (6.0–14)
Grenada	< 1	<0.01 (<0.01–<0.01)	1.9 (1.9–1.9)	0 (0–0)	0 (0–0)	<0.01 (<0.01–<0.01)	1.9 (1.9–1.9)
Guam	< 1	<0.01 (<0.01–0.010)	4.3 (2.7–6.4)	0 (0–0)	<0.1 (<0.1–<0.1)	<0.01 (<0.01–0.010)	4.4 (2.7–6.4)
Guatemala	17	0.32 (0.30–0.34)	1.9 (1.8–2.1)	0.064 (0.045–0.086)	0.39 (0.27–0.52)	0.38 (0.36–0.41)	2.3 (2.2–2.5)
Guinea	12	3.3 (1.9–4.9)	26 (16–40)	2 (1.3–2.9)	16 (10–23)	5.3 (3.7–7.1)	43 (30–57)
Guinea-Bissau	2	1.4 (0.80–2.1)	76 (44–116)	1.2 (0.73–1.8)	66 (40–98)	2.6 (1.8–3.5)	142 (99–192)
Guyana	< 1	0.14 (0.12–0.17)	19 (15–22)	0.036 (0.026–0.048)	4.7 (3.4–6.2)	0.18 (0.15–0.21)	23 (20–27)
Haiti	11	0.91 (0.52–1.4)	8.4 (4.8–13)	0.075 (0.57–0.95)	6.9 (5.2–8.8)	1.7 (1.2–2.2)	15 (11–20)
Honduras	9	0.37 (0.21–0.58)	4.1 (2.3–6.4)	0.066 (0.047–0.087)	0.72 (0.52–0.95)	0.44 (0.27–0.64)	4.8 (3.0–7.1)
Hungary	10	0.072 (0.071–0.073)	0.74 (0.72–0.75)	<0.01 (<0.01–<0.01)	<0.1 (<0.1–<0.1)	0.075 (0.073–0.078)	0.77 (0.75–0.80)
Iceland	< 1	<0.01 (<0.01–<0.01)	0.61 (0.59–0.64)	0 (0–0)	0 (0–0)	<0.01 (<0.01–<0.01)	0.61 (0.59–0.64)
India	1 324	423 (324–534)	32 (24–40)	12 (6.6–19)	0.92 (0.50–1.5)	435 (336–546)	33 (25–41)
Indonesia	261	110 (75–152)	42 (29–58)	13 (6.2–23)	5.1 (2.4–8.7)	124 (87–166)	47 (33–64)
Iran (Islamic Republic of)	80	0.85 (0.83–0.88)	1.1 (1.0–1.1)	0.037 (0.012–0.076)	<0.1 (<0.1–<0.1)	0.89 (0.85–0.93)	1.1 (1.1–1.2)
Iraq	37	1.2 (0.84–1.7)	3.3 (2.3–4.6)	<0.01 (<0.01–<0.01)	<0.1 (<0.1–<0.1)	1.2 (0.84–1.7)	3.4 (2.3–4.6)
Ireland	5	0.023 (0.023–0.023)	0.49 (0.49–0.49)	<0.01 (<0.01–<0.01)	<0.1 (<0.1–0.14)	0.027 (0.025–0.030)	0.58 (0.53–0.63)
Israel	8	0.015 (0.015–0.016)	0.19 (0.18–0.19)	<0.01 (<0.01–<0.01)	<0.1 (<0.1–<0.1)	0.018 (0.017–0.020)	0.23 (0.21–0.24)
Italy	59	0.33 (0.33–0.34)	0.56 (0.56–0.57)	0.063 (0.032–0.11)	0.11 (<0.1–0.18)	0.4 (0.36–0.44)	0.67 (0.61–0.73)
Jamaica	3	<0.01 (<0.01–<0.01)	0.25 (0.25–0.25)	0.012 (<0.01–0.016)	0.41 (0.29–0.55)	0.019 (0.016–0.023)	0.66 (0.54–0.80)
Japan	128	3.1 (2.9–3.2)	2.4 (2.3–2.5)	0.014 (<0.01–0.019)	<0.1 (<0.1–<0.1)	3.1 (3.0–3.2)	2.4 (2.3–2.5)
Jordan	9	0.015 (0.014–0.015)	0.15 (0.15–0.16)	0 (0–0)	0 (0–0)	0.015 (0.015–0.015)	0.16 (0.15–0.16)
Kazakhstan	18	0.44 (0.40–0.48)	2.4 (2.2–2.7)	0.038 (0.013–0.076)	0.21 (<0.1–0.42)	0.47 (0.42–0.53)	2.6 (2.3–2.9)
Kenya	48	29 (16–45)	60 (33–93)	24 (14–36)	50 (30–75)	53 (36–73)	109 (75–150)
Kiribati	< 1	0.035 (0.022–0.051)	31 (19–45)	<0.01 (0–<0.01)	0.54 (0.38–0.74)	0.036 (0.023–0.052)	31 (20–45)
Kuwait	4	<0.01 (<0.01–<0.01)	0.23 (0.22–0.23)	<0.01 (0–<0.01)	<0.1 (<0.1–<0.1)	0.01 (0.010–0.010)	0.24 (0.24–0.25)
Kyrgyzstan	6	0.43 (0.42–0.44)	7.2 (7.0–7.3)	0.059 (0.046–0.074)	0.99 (0.77–1.2)	0.49 (0.47–0.50)	8.2 (7.9–8.4)
Lao People's Democratic Republic	7	2.9 (1.7–4.4)	43 (25–65)	0.34 (0.21–0.50)	5.1 (3.1–7.5)	3.2 (2.0–4.8)	48 (30–70)
Latvia	2	0.039 (0.038–0.039)	2 (1.9–2.0)	0.015 (0.011–0.020)	0.78 (0.58–1.0)	0.054 (0.050–0.059)	2.8 (2.5–3.0)
Lebanon	6	0.061 (0.037–0.089)	1 (0.62–1.5)	<0.01 (<0.01–<0.01)	<0.1 (<0.1–<0.1)	0.062 (0.038–0.090)	1 (0.64–1.5)
Lesotho	2	1.1 (0.56–1.8)	49 (26–80)	5.2 (3.3–7.7)	238 (148–350)	6.3 (4.2–8.8)	287 (192–402)
Liberia	5	2.8 (1.6–4.2)	60 (35–91)	0.96 (0.60–1.4)	21 (13–30)	3.7 (2.5–5.2)	81 (54–112)
Libya	6	0.61 (0.35–0.95)	9.8 (5.6–15)	0.025 (0.015–0.038)	0.4 (0.24–0.60)	0.64 (0.38–0.97)	10 (6.0–15)
Lithuania	3	0.19 (0.19–0.19)	6.4 (6.4–6.5)	<0.01 (<0.01–0.011)	0.27 (0.17–0.38)	0.19 (0.19–0.20)	6.7 (6.6–6.8)
Luxembourg	< 1	<0.01 (<0.01–<0.01)	0.18 (0.18–0.19)	<0.01 (0–<0.01)	0.13 (<0.1–0.22)	<0.01 (<0.01–<0.01)	0.31 (0.24–0.39)
Madagascar	25	13 (7.9–20)	54 (32–82)	0.61 (0.27–1.1)	2.4 (1.1–4.3)	14 (8.5–21)	56 (34–84)
Malawi	18	2.9 (1.4–4.8)	16 (8.0–27)	6 (3.2–9.7)	33 (18–54)	8.9 (5.6–13)	49 (31–71)
Malaysia	31	1.3 (0.73–2.0)	4.1 (2.3–6.4)	0.29 (0.22–0.38)	0.94 (0.69–1.2)	1.6 (1.0–2.3)	5.1 (3.2–7.4)
Maldives	< 1	0.017 (0.013–0.021)	3.9 (3.1–4.9)	0 (0–0)	0 (0–0)	0.017 (0.013–0.021)	3.9 (3.1–4.9)
Mali	18	1.4 (0.83–2.1)	7.7 (4.6–11)	0.43 (0.28–0.61)	2.4 (1.5–3.4)	1.8 (1.2–2.5)	10 (6.8–14)
Malta	< 1	<0.01 (<0.01–<0.01)	0.24 (0.23–0.24)	<0.01 (<0.01–<0.01)	0.58 (0.43–0.75)	<0.01 (<0.01–<0.01)	0.81 (0.66–0.98)
Marshall Islands	< 1	0.025 (0.016–0.035)	46 (30–66)	0 (0–0)	<0.1 (<0.1–0.12)	0.025 (0.016–0.035)	46 (30–67)
Mauritania	4	0.89 (0.53–1.4)	21 (12–31)	0.09 (0.034–0.17)	2.1 (0.80–4.0)	0.98 (0.61–1.4)	23 (14–34)
Mauritius	1	0.021 (0.021–0.021)	1.6 (1.6–1.7)	0.017 (0.011–0.025)	1.4 (0.84–2.0)	0.038 (0.031–0.046)	3 (2.4–3.6)
Mexico	128	2.2 (2.2–2.3)	1.7 (1.7–1.8)	0.77 (0.55–1.0)	0.6 (0.43–0.81)	3 (2.7–3.2)	2.3 (2.1–2.5)
Micronesia (Federated States of)	< 1	0.02 (0.013–0.029)	20 (13–28)	0 (0–0)	<0.1 (<0.1–<0.1)	0.021 (0.013–0.029)	20 (13–28)

<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, 2016. 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)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)
Mongolia	3	0.61 (0.39–0.87)	20 (13–29)	<0.01 (<0.01–<0.01)	<0.1 (<0.1–0.11)	0.61 (0.39–0.87)	20 (13–29)
Montenegro	< 1	<0.01 (<0.01–<0.01)	0.19 (0.17–0.20)	0 (0–0)	0 (0–<0.1)	<0.01 (<0.01–<0.01)	0.19 (0.18–0.21)
Montserrat	< 1	0 (0–0)	0.58 (0.58–0.58)	0 (0–0)	0 (0–0)	0 (0–0)	0.58 (0.58–0.58)
Morocco	35	3.3 (2.1–4.7)	9.3 (6.0–13)	0.074 (0.035–0.13)	0.21 (0.10–0.36)	3.4 (2.2–4.7)	9.5 (6.2–13)
Mozambique	29	22 (13–33)	75 (44–115)	33 (20–48)	114 (70–167)	54 (38–73)	189 (133–254)
Myanmar	53	25 (16–35)	47 (30–66)	4.9 (3.5–6.6)	9.3 (6.7–12)	30 (21–40)	56 (39–76)
Namibia	2	0.75 (0.48–1.1)	30 (20–44)	0.87 (0.61–1.2)	35 (25–48)	1.6 (1.2–2.1)	65 (50–83)
Nauru	< 1	<0.01 (<0.01–<0.01)	13 (8.7–18)	0 (0–0)	0 (0–0)	<0.01 (<0.01–<0.01)	13 (8.7–18)
Nepal	29	6.5 (4.6–8.7)	22 (16–30)	0.27 (0.15–0.44)	0.95 (0.50–1.5)	6.8 (4.9–9.0)	23 (17–31)
Netherlands	17	0.038 (0.037–0.038)	0.22 (0.22–0.23)	<0.01 (<0.01–<0.01)	<0.1 (<0.1–<0.1)	0.043 (0.042–0.045)	0.26 (0.24–0.27)
New Caledonia	< 1	<0.01 (<0.01–<0.01)	1.3 (0.81–1.9)	0 (0–0)	0 (0–0)	<0.01 (<0.01–<0.01)	1.3 (0.81–1.9)
New Zealand	5	0.01 (0.010–0.011)	0.22 (0.22–0.23)	0 (0–0)	0 (0–0)	0.011 (0.010–0.011)	0.23 (0.22–0.23)
Nicaragua	6	0.16 (0.11–0.21)	2.6 (1.8–3.4)	0.028 (0.020–0.038)	0.46 (0.32–0.62)	0.19 (0.14–0.24)	3 (2.2–3.9)
Niger	21	4 (2.4–6.1)	20 (12–30)	0.39 (0.24–0.57)	1.9 (1.2–2.7)	4.4 (2.8–6.5)	21 (13–31)
Nigeria	186	115 (67–176)	62 (36–95)	39 (23–58)	21 (12–31)	154 (102–216)	83 (55–116)
Niue	< 1	0 (0–0)	1.6 (0.99–2.4)	0 (0–0)	0 (0–0)	0 (0–0)	1.6 (0.99–2.4)
Northern Mariana Islands	< 1	<0.01 (<0.01–<0.01)	4.8 (3.0–7.1)	0 (0–0)	0 (0–0)	<0.01 (<0.01–<0.01)	4.8 (3.0–7.1)
Norway	5	0.013 (0.013–0.013)	0.25 (0.24–0.26)	<0.01 (<0.01–<0.01)	<0.1 (<0.1–<0.1)	0.015 (0.014–0.017)	0.29 (0.27–0.32)
Oman	4	0.031 (0.023–0.042)	0.71 (0.51–0.95)	<0.01 (<0.01–<0.01)	<0.1 (<0.1–<0.1)	0.034 (0.025–0.044)	0.76 (0.56–1.0)
Pakistan	193	44 (34–55)	23 (18–29)	2.1 (0.98–3.6)	1.1 (0.51–1.9)	46 (36–57)	24 (19–30)
Palau	< 1	<0.01 (<0.01–<0.01)	10 (6.2–15)	0 (0–0)	<0.1 (<0.1–<0.1)	<0.01 (<0.01–<0.01)	10 (6.2–15)
Panama	4	0.22 (0.20–0.25)	5.5 (4.9–6.1)	0.052 (0.036–0.070)	1.3 (0.89–1.7)	0.27 (0.25–0.30)	6.8 (6.1–7.5)
Papua New Guinea	8	3.6 (2.4–5.0)	44 (29–62)	0.82 (0.45–1.3)	10 (5.5–16)	4.4 (3.1–5.9)	55 (39–73)
Paraguay	7	0.27 (0.23–0.31)	4.1 (3.5–4.7)	0.044 (0.032–0.057)	0.65 (0.47–0.85)	0.32 (0.28–0.36)	4.7 (4.1–5.3)
Peru	32	1.6 (1.4–1.7)	4.9 (4.3–5.5)	0.46 (0.34–0.61)	1.5 (1.1–1.9)	2 (1.8–2.3)	6.3 (5.6–7.1)
Philippines	103	22 (22–22)	21 (21–22)	0.3 (0–2.6)	0.29 (0–2.5)	22 (21–24)	22 (20–23)
Poland	38	0.48 (0.46–0.51)	1.3 (1.2–1.3)	0.027 (0.013–0.047)	<0.1 (<0.1–0.12)	0.51 (0.48–0.54)	1.3 (1.3–1.4)
Portugal	10	0.21 (0.21–0.22)	2 (2.0–2.1)	0.045 (0.029–0.064)	0.43 (0.28–0.62)	0.26 (0.24–0.28)	2.5 (2.3–2.7)
Puerto Rico	4	0.01 (0.010–0.010)	0.28 (0.27–0.28)	<0.01 (<0.01–<0.01)	<0.1 (<0.1–<0.1)	0.012 (0.011–0.012)	0.32 (0.30–0.33)
Qatar	3	<0.01 (<0.01–<0.01)	0.27 (0.22–0.33)	0 (0–0)	0 (0–0)	<0.01 (<0.01–<0.01)	0.27 (0.22–0.33)
Republic of Korea	51	2.6 (2.4–2.7)	5.1 (4.8–5.3)	0.082 (0.033–0.15)	0.16 (<0.1–0.30)	2.7 (2.5–2.8)	5.2 (5.0–5.5)
Republic of Moldova	4	0.26 (0.24–0.27)	6.3 (5.9–6.7)	0.062 (0.046–0.080)	1.5 (1.1–2.0)	0.32 (0.29–0.34)	7.8 (7.2–8.4)
Romania	20	1 (1.0–1.0)	5.1 (5.0–5.1)	0.059 (0.043–0.079)	0.3 (0.22–0.40)	1.1 (1.0–1.1)	5.4 (5.3–5.5)
Russian Federation	144	12 (11–12)	8.2 (7.8–8.6)	1.7 (0.85–2.7)	1.2 (0.59–1.9)	13 (12–15)	9.3 (8.6–10)
Rwanda	12	0.2 (0.073–0.38)	1.7 (0.61–3.2)	0.13 (0.071–0.20)	1.1 (0.60–1.7)	0.33 (0.18–0.52)	2.7 (1.5–4.3)
Saint Kitts and Nevis	< 1	<0.01 (<0.01–<0.01)	2.4 (2.1–2.7)	0 (0–0)	0 (0–0)	<0.01 (<0.01–<0.01)	2.4 (2.1–2.7)
Saint Lucia	< 1	<0.01 (<0.01–<0.01)	2.2 (1.8–2.6)	0 (0–0)	0.1 (<0.1–0.14)	<0.01 (<0.01–<0.01)	2.3 (1.9–2.7)
Saint Vincent and the Grenadines	< 1	<0.01 (<0.01–<0.01)	2 (2.0–2.1)	0 (0–0)	0 (0–0)	<0.01 (<0.01–<0.01)	2 (2.0–2.1)
Samoa	< 1	<0.01 (<0.01–<0.01)	0.63 (0.39–0.93)	0 (0–0)	0 (0–0)	<0.01 (<0.01–<0.01)	0.63 (0.39–0.93)
San Marino	< 1	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)
Sao Tome and Principe	< 1	<0.01 (<0.01–0.014)	3.9 (1.7–7.1)	<0.01 (<0.01–<0.01)	1.6 (0.78–2.8)	0.011 (<0.01–0.018)	5.5 (3.0–8.8)
Saudi Arabia	32	0.84 (0.64–1.1)	2.6 (2.0–3.3)	0.013 (0.010–0.017)	<0.1 (<0.1–<0.1)	0.86 (0.65–1.1)	2.7 (2.0–3.4)
Senegal	15	3.8 (2.4–5.7)	25 (15–37)	0.48 (0.31–0.68)	3.1 (2.0–4.4)	4.3 (2.8–6.1)	28 (18–40)
Serbia	9	0.084 (0.073–0.096)	0.96 (0.83–1.1)	<0.01 (<0.01–<0.01)	<0.1 (<0.1–<0.1)	0.086 (0.075–0.098)	0.98 (0.85–1.1)
Seychelles	< 1	0 (0–0)	0.4 (0.40–0.40)	0 (0–0)	<0.1 (<0.1–0.10)	0 (0–0)	0.47 (0.45–0.50)
Sierra Leone	7	3.4 (2.0–5.2)	47 (28–70)	1 (0.66–1.5)	14 (9.0–20)	4.5 (3.0–6.3)	61 (41–85)
Singapore	6	0.051 (0.044–0.058)	0.91 (0.79–1.0)	<0.01 (<0.01–<0.01)	0.12 (<0.1–0.17)	0.058 (0.051–0.065)	1 (0.90–1.2)
Sint Maarten (Dutch part)	< 1	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)
Slovakia	5	0.035 (0.034–0.035)	0.64 (0.63–0.65)	0 (0–0)	0 (0–0)	0.035 (0.034–0.035)	0.64 (0.63–0.65)
Slovenia	2	0.013 (0.013–0.013)	0.61 (0.61–0.62)	0 (0–0)	<0.1 (<0.1–<0.1)	0.013 (0.013–0.013)	0.62 (0.61–0.63)
Solomon Islands	< 1	0.055 (0.036–0.079)	9.2 (5.9–13)	0 (0–0)	0 (0–0)	0.055 (0.036–0.079)	9.2 (5.9–13)
Somalia	14	11 (6.3–16)	75 (44–115)	0.31 (0.19–0.46)	2.1 (1.3–3.2)	11 (6.6–17)	77 (46–117)
South Africa	56	23 (17–29)	41 (31–52)	101 (67–142)	181 (120–254)	124 (89–165)	222 (159–294)
South Sudan	12	3 (1.8–4.5)	24 (14–37)	0.77 (0.49–1.1)	6.3 (4.0–9.1)	3.7 (2.5–5.3)	31 (20–43)
Spain	46	0.28 (0.28–0.29)	0.61 (0.61–0.62)	0.053 (0.035–0.075)	0.11 (<0.1–0.16)	0.34 (0.32–0.36)	0.73 (0.68–0.77)
Sri Lanka	21	1.2 (0.89–1.7)	6 (4.3–8.0)	<0.01 (<0.01–<0.01)	<0.1 (<0.1–<0.1)	1.3 (0.90–1.7)	6 (4.3–8.0)
Sudan	40	5.6 (3.0–9.1)	14 (7.5–23)	0.28 (0.098–0.57)	0.72 (0.25–1.4)	5.9 (3.2–9.3)	15 (8.2–24)
Suriname	< 1	0.011 (0.011–0.012)	2 (1.9–2.1)	<0.01 (<0.01–0.010)	1.4 (1.0–1.8)	0.019 (0.017–0.022)	3.5 (3.0–3.9)
Swaziland	1	0.26 (0.15–0.40)	19 (11–30)	1.1 (0.71–1.7)	84 (53–123)	1.4 (0.95–1.9)	104 (70–143)
Sweden	10	0.025 (0.025–0.025)	0.25 (0.25–0.26)	<0.01 (<0.01–0.012)	<0.1 (<0.1–0.13)	0.032 (0.028–0.037)	0.33 (0.28–0.38)
Switzerland	8	0.02 (0.020–0.021)	0.24 (0.24–0.25)	0.01 (<0.01–0.017)	0.12 (<0.1–0.21)	0.031 (0.025–0.037)	0.37 (0.30–0.45)

<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, 2016.** 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	18	0.023 (0.022–0.023)	0.12 (0.12–0.13)	<0.01 (0–<0.01)	0 (0–<0.1)	0.023 (0.023–0.024)	0.13 (0.12–0.13)
Tajikistan	9	0.52 (0.40–0.66)	6 (4.6–7.6)	0.051 (0.036–0.069)	0.58 (0.41–0.79)	0.57 (0.45–0.71)	6.6 (5.1–8.2)
Thailand	69	8.6 (7.2–10)	13 (10–15)	3.9 (2.3–5.9)	5.7 (3.4–8.6)	13 (10–15)	18 (15–22)
The Former Yugoslav Republic of Macedonia	2	0.02 (0.020–0.021)	0.98 (0.95–1.0)	0 (0–0)	0 (0–<0.1)	0.02 (0.020–0.021)	0.98 (0.95–1.0)
Timor-Leste	1	1.3 (0.75–1.9)	100 (59–150)	<0.01 (0–0.035)	0.29 (0–2.7)	1.3 (0.75–1.9)	100 (59–151)
Togo	8	0.32 (0.21–0.44)	4.1 (2.8–5.8)	0.17 (0.12–0.22)	2.2 (1.6–2.9)	0.48 (0.36–0.62)	6.3 (4.8–8.1)
Tokelau	< 1	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)
Tonga	< 1	<0.01 (0–<0.01)	0.71 (0.43–1.0)	0 (0–0)	0 (0–0)	<0.01 (0–<0.01)	0.71 (0.43–1.0)
Trinidad and Tobago	1	0.023 (0.023–0.023)	1.7 (1.7–1.7)	<0.01 (<0.01–0.010)	0.55 (0.40–0.73)	0.03 (0.028–0.033)	2.2 (2.1–2.4)
Tunisia	11	0.37 (0.21–0.58)	3.3 (1.9–5.1)	<0.01 (<0.01–<0.01)	<0.1 (<0.1–<0.1)	0.38 (0.22–0.58)	3.3 (1.9–5.1)
Turkey	80	0.48 (0.35–0.63)	0.61 (0.44–0.79)	0.015 (0.011–0.020)	<0.1 (<0.1–<0.1)	0.5 (0.37–0.65)	0.62 (0.46–0.81)
Turkmenistan	6	0.43 (0.38–0.48)	7.6 (6.7–8.5)	0.037 (0.016–0.066)	0.65 (0.28–1.2)	0.46 (0.41–0.52)	8.2 (7.2–9.2)
Turks and Caicos Islands	< 1	0 (0–0)	0.27 (0.17–0.40)	0 (0–0)	0.51 (0.33–0.71)	0 (0–0)	0.78 (0.57–1.0)
Tuvalu	< 1	<0.01 (<0.01–<0.01)	17 (10–25)	0 (0–0)	0 (0–0)	<0.01 (<0.01–<0.01)	17 (10–25)
Uganda	41	11 (5.8–17)	26 (14–41)	14 (8.3–22)	35 (20–53)	25 (17–35)	61 (41–84)
Ukraine	44	4.2 (4.2–4.3)	9.5 (9.4–9.6)	2 (1.3–2.9)	4.6 (3.0–6.4)	6.2 (5.5–7.0)	14 (12–16)
United Arab Emirates	9	0.039 (0.017–0.071)	0.42 (0.18–0.76)	<0.01 (<0.01–<0.01)	<0.1 (<0.1–<0.1)	0.04 (0.018–0.072)	0.44 (0.19–0.77)
United Kingdom of Great Britain and Northern Ireland	66	0.35 (0.35–0.36)	0.54 (0.53–0.54)	0.078 (0.038–0.13)	0.12 (<0.1–0.20)	0.43 (0.38–0.48)	0.66 (0.58–0.73)
United Republic of Tanzania	56	28 (13–50)	51 (23–90)	27 (12–46)	48 (22–83)	55 (32–83)	99 (58–150)
United States of America	322	0.53 (0.52–0.53)	0.16 (0.16–0.17)	0.086 (0.057–0.12)	<0.1 (<0.1–<0.1)	0.61 (0.58–0.65)	0.19 (0.18–0.20)
Uruguay	3	0.053 (0.049–0.058)	1.5 (1.4–1.7)	0.027 (0.020–0.034)	0.77 (0.58–1.0)	0.08 (0.072–0.088)	2.3 (2.1–2.6)
US Virgin Islands	< 1	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)
Uzbekistan	31	1.9 (1.8–1.9)	5.9 (5.9–5.9)	0.35 (0.23–0.49)	1.1 (0.74–1.5)	2.2 (2.1–2.3)	7 (6.6–7.4)
Vanuatu	< 1	0.026 (0.017–0.036)	9.5 (6.3–13)	0 (0–0)	0 (0–0)	0.026 (0.017–0.036)	9.5 (6.3–13)
Venezuela (Bolivarian Republic of)	32	0.71 (0.71–0.71)	2.2 (2.2–2.3)	0.25 (0.18–0.33)	0.79 (0.57–1.0)	0.96 (0.89–1.0)	3 (2.8–3.3)
Viet Nam	95	13 (8.4–18)	14 (8.9–19)	0.85 (0.63–1.1)	0.9 (0.66–1.2)	14 (9.2–19)	14 (9.7–20)
Wallis and Futuna Islands	< 1	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)
West Bank and Gaza Strip	5	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)	0 (0–0)
Yemen	28	1.9 (1.3–2.6)	6.9 (4.9–9.3)	0.026 (<0.01–0.053)	<0.1 (<0.1–0.19)	1.9 (1.4–2.6)	7 (5.0–9.4)
Zambia	17	4.8 (2.8–7.3)	29 (17–44)	12 (7.9–18)	74 (47–107)	17 (12–23)	103 (73–139)
Zimbabwe	16	1.2 (0.71–1.7)	7.2 (4.4–11)	4.4 (3.0–6.1)	27 (19–38)	5.6 (4.1–7.3)	35 (25–45)
<b>WHO regions</b>							
African Region	1 020	417 (351–488)	41 (34–48)	320 (272–372)	31 (27–36)	737 (655–824)	72 (64–81)
Region of the Americas	996	17 (16–18)	1.7 (1.6–1.8)	6.2 (5.6–6.9)	0.63 (0.56–0.70)	23 (22–24)	2.3 (2.2–2.4)
Eastern Mediterranean Region	669	82 (69–95)	12 (10–14)	3 (1.8–4.5)	0.45 (0.27–0.68)	85 (72–98)	13 (11–15)
European Region	916	26 (25–27)	2.8 (2.8–2.9)	5.1 (3.9–6.4)	0.55 (0.43–0.69)	31 (30–33)	3.4 (3.3–3.6)
South-East Asia Region	1 948	652 (542–772)	33 (28–40)	35 (25–46)	1.8 (1.3–2.4)	687 (576–807)	35 (30–41)
Western Pacific Region	1 891	103 (85–123)	5.4 (4.5–6.5)	5 (3.0–7.3)	0.26 (0.16–0.39)	108 (89–128)	5.7 (4.7–6.8)
<b>Global</b>	<b>7 440</b>	<b>1 300 (1 160–1 440)</b>	<b>17 (16–19)</b>	<b>374 (325–427)</b>	<b>5 (4.4–5.7)</b>	<b>1 670 (1 530–1 820)</b>	<b>22 (21–24)</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 (0–29)
American Samoa								
Andorra	2016	Surveillance	National	0 (0–84)	2016	Surveillance	National	0 (0–0)
Angola								
Anguilla								
Antigua and Barbuda								
Argentina	2005	Survey	National	2.3 (1.1–3.6)	2005	Survey	National	18 (9.5–27)
Armenia	2007	Survey	National	11 (8.0–14)	2007	Survey	National	47 (40–55)
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)	2016	Surveillance	National	18 (3.8–43)
Azerbaijan	2013	Survey	National	13 (10–16)	2016	Surveillance	National	39 (37–42)
Bahamas	2012	Surveillance	National	11 (2.4–29)	2015	Surveillance	National	50 (1.3–99)
Bahrain	2016	Surveillance	National	2.3 (0.28–8.1)	2016	Surveillance	National	50 (1.3–99)
Bangladesh	2011	Survey	National	1.6 (0.59–2.6)	2011	Survey	National	29 (22–36)
Barbados	2014	Surveillance	National	0 (0–71)	2014	Surveillance	National	0 (0–0)
Belarus	2016	Surveillance	National	38 (36–40)	2016	Surveillance	National	72 (68–75)
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)	2016	Surveillance	National	6.6 (3.8–11)
Bermuda	2016	Surveillance	National	0 (0–84)	2016	Surveillance	National	0 (0–0)
Bhutan	2016	Surveillance	National	11 (8.5–15)	2016	Surveillance	National	18 (7.7–34)
Bolivia (Plurinational State of)					2016	Surveillance	National	9.6 (7.2–12)
Bonaire, Saint Eustatius and Saba	2016	Surveillance	National	0 (0–98)	2016	Surveillance	National	0 (0–0)
Bosnia and Herzegovina	2016	Surveillance	National	0 (0–0.67)	2016	Surveillance	National	0 (0–6.8)
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 (5.1–11)
British Virgin Islands								
Brunei Darussalam	2016	Surveillance	National	0 (0–2.3)	2016	Surveillance	National	0 (0–52)
Bulgaria	2016	Surveillance	National	1.2 (0.49–2.5)	2016	Surveillance	National	19 (11–29)
Burkina Faso	2017	Survey	National	2.1 (1.2–3.0)	2017	Survey	National	14 (8.5–20)
Burundi								
Cabo Verde								
Cambodia	2007	Survey	National	1.8 (0.77–2.8)	2007	Survey	National	11 (0–23)
Cameroon								
Canada	2015	Surveillance	National	0.82 (0.33–1.7)	2015	Surveillance	National	6.3 (1.7–15)
Cayman Islands	2016	Surveillance	National	0 (0–71)	2016	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	2013	Survey	National	7.1 (5.6–8.7)	2013	Survey	National	24 (20–28)
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	2016	Surveillance	National	0 (0–84)	2016	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	2017	Survey	National	4.6 (2.4–6.8)	2017	Survey	National	22 (14–30)
Croatia	2015	Surveillance	National	0 (0–1.4)	2016	Surveillance	National	0 (0–37)
Cuba	2012	Surveillance	National	2.2 (0.82–4.8)	2014	Surveillance	National	4.2 (0.51–14)
Curaçao	2016	Surveillance	National	0 (0–60)	2016	Surveillance	National	0 (0–0)
Cyprus	2015	Surveillance	National	0 (0–10)	2015	Surveillance	National	0 (0–0)
Czechia	2015	Surveillance	National	2.2 (0.90–4.6)	2015	Surveillance	National	12 (2.4–30)
Democratic People's Republic of Korea	2014	Survey	Sub-national	2.2 (0.51–3.9)	2014	Survey	Sub-national	16 (5.8–27)
Democratic Republic of the Congo	2017	Survey	National	2.2 (1.0–3.5)	2017	Survey	National	17 (9.6–24)
Denmark	2015	Surveillance	National	1.9 (0.53–4.9)	2015	Surveillance	National	4.5 (0.12–23)

<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
Djibouti	2015	Survey	National	4.3 (2.5–7.3)	2015	Survey	National	35 (25–47)
Dominica	2013	Surveillance	National	0 (0–98)	2013	Surveillance	National	0 (0–0)
Dominican Republic					2016	Surveillance	National	34 (28–41)
Ecuador	2002	Survey	National	7.3 (5.4–9.2)	2012	Surveillance	National	28 (25–31)
Egypt	2011	Survey	National	14 (12–16)	2016	Surveillance	National	20 (17–24)
El Salvador					2014	Surveillance	National	4.1 (1.3–9.2)
Equatorial Guinea					2016	Surveillance	National	29 (21–39)
Eritrea								
Estonia	2016	Surveillance	National	14 (8.3–21)	2016	Surveillance	National	54 (25–81)
Ethiopia	2005	Survey	National	2.7 (1.5–4.0)	2005	Survey	National	14 (3.6–25)
Fiji	2006	Surveillance	National	0 (0–8.2)	2006	Surveillance	National	0 (0–98)
Finland	2016	Surveillance	National	1.6 (0.19–5.7)	2016	Surveillance	National	0 (0–46)
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	2016	Surveillance	National	11 (9.3–12)	2016	Surveillance	National	31 (27–35)
Germany	2015	Surveillance	National	2.2 (0.82–4.8)	2015	Surveillance	National	23 (16–30)
Ghana	2017	Survey	National	1.5 (0.70–2.3)	2017	Survey	National	7 (0.60–13)
Greece	2010	Surveillance	National	1.5 (<0.1–8.0)	2010	Surveillance	National	9.1 (0.23–41)
Greenland								
Grenada								
Guam	2016	Surveillance	National	4.9 (0.60–17)	2016	Surveillance	National	0 (0–0)
Guatemala	2002	Survey	National	4.2 (2.6–5.8)	2002	Survey	National	29 (19–39)
Guinea								
Guinea-Bissau								
Guyana					2016	Surveillance	National	17 (8.2–30)
Haiti								
Honduras	2004	Survey	National	2.2 (0.69–3.7)	2004	Survey	National	21 (9.2–32)
Hungary	2010	Surveillance	National	2.9 (1.6–4.8)	2010	Surveillance	National	8.1 (3.3–16)
Iceland	2016	Surveillance	National	0 (0–60)	2016	Surveillance	National	0 (0–0)
India	2016	Survey	National	2.8 (2.0–3.5)	2016	Survey	National	12 (10–13)
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)	2016	Surveillance	National	8.3 (5.9–11)
Iraq	2013	Survey	National	6.1 (4.4–7.8)	2013	Survey	National	24 (14–34)
Ireland	2015	Surveillance	National	1.1 (<0.1–5.8)	2015	Surveillance	National	0 (0–31)
Israel	2016	Surveillance	National	7.4 (3.5–14)	2016	Surveillance	National	0 (0–84)
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	26 (25–28)	2015	Surveillance	National	44 (42–46)
Kenya	2014	Survey	National	1.3 (0.68–1.9)	2014	Surveillance	National	9.4 (8.7–10)
Kiribati								
Kuwait	2016	Surveillance	National	2.7 (1.3–4.8)	2016	Surveillance	National	0 (0–0)
Kyrgyzstan	2016	Surveillance	National	27 (25–29)	2016	Surveillance	National	60 (57–63)
Lao People's Democratic Republic					2016	Surveillance	National	12 (7.2–19)
Latvia	2016	Surveillance	National	7.6 (5.2–11)	2016	Surveillance	National	23 (15–33)
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 (9.2–18)
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 (0–15)
Malawi	2011	Survey	National	0.75 (0–1.6)	2011	Survey	National	6.4 (3.8–8.9)
Malaysia	2014	Surveillance	National	1.5 (1.2–1.9)	2014	Surveillance	National	3.1 (1.3–5.9)
Maldives	2016	Surveillance	National	1.7 (<0.1–9.1)	2016	Surveillance	National	0 (0–0)

<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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	New TB cases				Previously treated TB cases			
	Year	Source	Coverage	Percentage	Year	Source	Coverage	Percentage
Mali								
Malta	2016	Surveillance	National	0 (0–11)	2016	Surveillance	National	0 (0–0)
Marshall Islands	2014	Surveillance	National	0 (0–4.4)	2015	Surveillance	National	0 (0–41)
Mauritania								
Mauritius	2016	Surveillance	National	2.7 (0.56–7.7)	2016	Surveillance	National	0 (0–71)
Mexico	2009	Survey	National	2.6 (2.3–2.9)	2009	Survey	National	11 (9.0–13)
Micronesia (Federated States of)								
Monaco								
Mongolia	2016	Survey	National	5.6 (4.2–6.9)	2016	Survey	National	18 (14–22)
Montenegro	2016	Surveillance	National	0 (0–7.1)	2016	Surveillance	National	0 (0–41)
Montserrat								
Morocco	2014	Survey	National	1 (0.30–1.7)	2016	Surveillance	National	11 (9.5–12)
Mozambique	2007	Survey	National	3.7 (2.4–5.0)	2007	Survey	National	20 (2.1–37)
Myanmar	2013	Survey	National	5.1 (3.2–7.0)	2013	Survey	National	27 (10–44)
Namibia	2015	Survey	National	5 (4.1–5.9)	2015	Survey	National	12 (8.7–15)
Nauru								
Nepal	2011	Survey	National	2.2 (0.98–3.4)	2011	Survey	National	15 (6.7–24)
Netherlands	2016	Surveillance	National	2 (0.82–4.2)	2016	Surveillance	National	30 (6.7–65)
New Caledonia	2016	Surveillance	National	0 (0–14)	2016	Surveillance	National	0 (0–98)
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	2016	Surveillance	National	0 (0–21)	2016	Surveillance	National	0 (0–0)
Norway	2015	Surveillance	National	2.6 (0.70–6.4)	2015	Surveillance	National	5.9 (0.15–29)
Oman	2016	Surveillance	National	1.9 (0.51–4.7)	2016	Surveillance	National	0 (0–0)
Pakistan	2013	Survey	National	4.2 (3.2–5.3)	2015	Surveillance	National	16 (15–17)
Palau	2016	Surveillance	National	0 (0–20)	2016	Surveillance	National	0 (0–0)
Panama					2016	Surveillance	National	17 (8.9–29)
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 (0–30)
Peru	2016	Surveillance	National	6.3 (5.9–6.7)	2016	Surveillance	National	24 (23–26)
Philippines	2012	Survey	National	2.6 (1.8–3.3)	2012	Survey	National	29 (20–38)
Poland	2016	Surveillance	National	0.83 (0.56–1.2)	2016	Surveillance	National	4.4 (2.7–6.8)
Portugal	2012	Surveillance	National	0.98 (0.51–1.7)	2012	Surveillance	National	6.9 (2.8–14)
Puerto Rico	2016	Surveillance	National	0 (0–9.0)	2016	Surveillance	National	100 (2.5–100)
Qatar	2014	Surveillance	National	1.3 (0.16–4.7)				
Republic of Korea	2016	Surveillance	National	3.4 (3.1–3.7)	2016	Surveillance	National	11 (9.4–12)
Republic of Moldova	2016	Surveillance	National	26 (24–28)	2016	Surveillance	National	56 (51–60)
Romania	2016	Surveillance	National	2.8 (2.4–3.3)	2016	Surveillance	National	17 (16–19)
Russian Federation	2016	Surveillance	National	27 (27–28)	2016	Surveillance	National	65 (65–66)
Rwanda	2015	Survey	National	1.5 (0.77–2.2)	2016	Surveillance	National	5.1 (3.4–7.4)
Saint Kitts and Nevis								
Saint Lucia	2013	Surveillance	National	0 (0–52)	2013	Surveillance	National	0 (0–0)
Saint Vincent and the Grenadines	2013	Surveillance	National	50 (1.3–99)	2014	Surveillance	National	0 (0–98)
Samoa	2016	Surveillance	National	13 (0.32–53)	2016	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 (14–26)
Senegal	2014	Survey	National	0.9 (0.24–1.6)	2014	Survey	National	19 (9.6–27)
Serbia	2013	Surveillance	National	1.1 (0.49–2.2)	2013	Surveillance	National	4.7 (1.3–11)
Seychelles	2016	Surveillance	National	0 (0–52)	2016	Surveillance	National	0 (0–98)
Sierra Leone								
Singapore	2016	Surveillance	National	1.4 (0.83–2.3)	2016	Surveillance	National	2.3 (0.28–8.1)
Sint Maarten (Dutch part)								
Slovakia	2012	Surveillance	National	0 (0–2.6)	2012	Surveillance	National	3.7 (<0.1–19)
Slovenia	2016	Surveillance	National	0 (0–3.9)	2016	Surveillance	National	0 (0–71)
Solomon Islands					2013	Surveillance	National	0 (0–41)

<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
Somalia	2011	Survey	National	8.7 (5.9–11)	2011	Survey	National	47 (23–71)
South Africa	2014	Survey	National	3.4 (2.5–4.3)	2014	Survey	National	7.1 (4.8–9.5)
South Sudan								
Spain	2015	Surveillance	National	4.2 (2.9–5.8)	2015	Surveillance	National	18 (9.4–30)
Sri Lanka	2006	Survey	National	0.54 (0–1.3)	2016	Surveillance	National	3.1 (1.6–5.4)
Sudan	2017	Survey	National	2.9 (1.7–4.1)	2017	Survey	National	13 (8.6–17)
Suriname	2016	Surveillance	National	6.1 (1.7–15)	2016	Surveillance	National	0 (0–41)
Swaziland	2009	Survey	National	8 (3.1–13)	2009	Survey	National	36 (29–44)
Sweden	2015	Surveillance	National	4 (2.3–6.3)	2016	Surveillance	National	16 (3.4–40)
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)	2016	Surveillance	National	24 (16–35)
Tajikistan	2016	Surveillance	National	22 (21–24)	2016	Surveillance	National	45 (40–50)
Thailand	2012	Survey	National	2.2 (1.5–2.9)	2012	Survey	National	24 (16–32)
The Former Yugoslav Republic of Macedonia	2016	Surveillance	National	1.3 (0.16–4.8)	2016	Surveillance	National	0 (0–23)
Timor-Leste								
Togo					2016	Surveillance	National	5.4 (2.6–9.7)
Tokelau								
Tonga								
Trinidad and Tobago								
Tunisia	2016	Surveillance	National	0.93 (0.45–1.7)	2016	Surveillance	National	4.2 (0.88–12)
Turkey	2016	Surveillance	National	2.9 (2.5–3.4)	2016	Surveillance	National	16 (13–19)
Turkmenistan	2013	Survey	National	14 (11–17)	2013	Survey	National	38 (28–49)
Turks and Caicos Islands								
Tuvalu								
Uganda	2011	Survey	National	1.6 (0.78–2.4)	2011	Survey	National	12 (3.4–21)
Ukraine	2016	Surveillance	National	27 (26–27)	2016	Surveillance	National	47 (46–48)
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)	2016	Surveillance	National	6.2 (5.1–7.4)
United States of America	2016	Surveillance	National	1.5 (1.2–1.8)	2016	Surveillance	National	5.6 (3.2–9.1)
Uruguay	2016	Surveillance	National	0 (0–0.69)	2016	Surveillance	National	6 (1.3–17)
US Virgin Islands								
Uzbekistan	2011	Survey	National	24 (18–30)	2011	Survey	National	63 (50–75)
Vanuatu	2006	Surveillance	National	0 (0–12)				
Venezuela (Bolivarian Republic of)								
Viet Nam	2012	Survey	National	4.1 (2.6–5.5)	2016	Surveillance	National	26 (25–27)
Wallis and Futuna Islands								
West Bank and Gaza Strip								
Yemen	2011	Survey	National	2.3 (0.92–3.7)	2011	Survey	National	18 (8.7–28)
Zambia	2008	Survey	National	1.1 (0.13–2.1)	2008	Survey	National	18 (12–25)
Zimbabwe	2016	Survey	National	4.6 (3.0–6.2)	2016	Survey	National	14 (8.9–20)

<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, 2016

	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	43 046	41 954		39	74	63
Albania	415	415		54	73	69
Algeria	22 998	22 801	0.22		37	86
American Samoa						
Andorra	4	4	100	0	75	67
Angola	60 916	59 513	0.76	46	93	54
Anguilla	0	0				
Antigua and Barbuda	3	3		67*	100	67
Argentina	10 592	10 023		19	85	65
Armenia	1 080	1 027	5.6	100	81	53
Aruba	14	14			100	64
Australia	1 376	1 376		83	63	90
Austria	634	619	52		76	85
Azerbaijan	6 707	5 159	39	70*	80	61
Bahamas	89	89		94	100	52
Bahrain	154	154		2.6	64	89
Bangladesh	223 921	222 248		1.8	80	72
Barbados	3	3	100	0*	100	100
Belarus	3 598	3 211	80	98	92	79
Belgium	1 047	986	48	45	68	87
Belize	120	120	4.2	94	95	58
Benin	3 968	3 891		98*	90	91
Bermuda	2	2	0	100	100	100
Bhutan	1 145	1 139	26	100	51	76
Bolivia (Plurinational State of)	7 776	7 681		77*	79	92
Bonaire, Saint Eustatius and Saba	1	1		100	100	100
Bosnia and Herzegovina	907	907	0	0.11	87	75
Botswana	4 884	4 803		92	81	43
Brazil	82 676	75 444	21	76	87	72
British Virgin Islands	0	0				
Brunei Darussalam	242	242		100	79	94
Bulgaria	1 603	1 525	0.39	79	73	68
Burkina Faso	5 918	5 677	0.92	90	83	81
Burundi	7 662	7 567		96*	73	83
Cabo Verde	258	247	20	100*	90	85
Cambodia	33 736	33 453		86	67	50
Cameroon	25 975	25 975		93	83	74
Canada	1 738	1 738		44	72	91
Cayman Islands	3	3		0	100	100
Central African Republic	10 229	9 968		66*	81	64
Chad	11 077	10 777	3.1	68*	86	51
Chile	2 618	2 548	1.3	69	81	87
China	783 842	778 493		43	95	31
China, Hong Kong SAR	4 412	4 412		81	77	67
China, Macao SAR	358	358	34	91	84	82
Colombia	13 467	12 581	9.5	87*	83	80
Comoros	313	163		0.64*	72	62
Congo	10 656	10 424	3.2	30	74	45
Cook Islands	2	2	100	50*	100	100
Costa Rica	370	368		90	83	100
Côte d'Ivoire	21 710	21 357		98*	79	85
Croatia	460	449	0		93	58
Cuba	722	689	6.5	100	90	83
Curaçao	4	4		100	100	100
Cyprus	60	57	7		84	77
Czechia	516	511	40	40*	86	83
Democratic People's Republic of Korea	120 323	112 606			81	50
Democratic Republic of the Congo	132 515	130 596		54*	82	81
Denmark	330	292	72		80	80

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

\* Among all notified cases, not just new and relapse cases.



TABLE A4.4

## TB case notifications, 2016

	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	2 526	2 522	56	89*	61	79
Dominica	5	5		100	100	80
Dominican Republic	4 476	4 235		88	88	63
Ecuador	5 374	5 284		89	82	91
Egypt	8 283	7 974	22	24*	57	82
El Salvador	3 050	3 034	12	98	87	90
Equatorial Guinea	1 487	1 428	7.4	5.6	90	66
Eritrea	2 246	2 215		100	65	57
Estonia	192	188	76	95	93	86
Ethiopia	127 407	125 836		81*	68	55
Fiji	322	312	57	92	71	57
Finland	236	225	28	*	75	80
France	4 958	4 675		*	71	70
French Polynesia						
Gabon	6 036	5 567		54	92	47
Gambia	2 498	2 498	0.52	84*	92	63
Georgia	3 330	2 983	81	96	79	84
Germany	5 915	5 737	55		75	81
Ghana	14 675	14 167		84*	91	61
Greece	443	407	40		92	85
Greenland	61	58	76	67	93	89
Grenada	6	6		100	100	50
Guam	75	75	60	91*	96	60
Guatemala	3 291	3 223	11	89	90	87
Guinea	12 872	12 639	13	82	78	81
Guinea-Bissau	2 247	2 226		70*	96	83
Guyana	647	577	10	92	93	69
Haiti	15 567	15 302	8.7	93*	90	80
Honduras	2 886	2 886		88	88	85
Hungary	786	737	0		96	54
Iceland	6	6	83		100	83
India	1 936 158	1 763 876	17	72	84	63
Indonesia	360 565	358 608	<0.1	14	92	59
Iran (Islamic Republic of)	9 454	9 252		65*	72	74
Iraq	7 317	7 246		57	59	62
Ireland	318	293	40	45	69	81
Israel	250	250		100	74	72
Italy	4 032	3 778	0		69	91
Jamaica	103	103		54	100	74
Japan	17 625	17 625		9.1	77	86
Jordan	437	424	39	96	64	35
Kazakhstan	12 658	12 322	85	86	89	89
Kenya	77 376	76 335	26	96	83	70
Kiribati	518	518		41*	78	46
Kuwait	837	837	68	45	77	59
Kyrgyzstan	7 995	7 026	36	89	78	58
Lao People's Democratic Republic	5 012	4 981	47	91*	92	81
Latvia	660	641	0	78	94	86
Lebanon	657	646	22	74	60	78
Lesotho	7 513	7 291		91*	89	56
Liberia	7 180	7 105		74	69	63
Libya	1 176	1 131		100	63	71
Lithuania	1 442	1 347	0	78	91	87
Luxembourg	29	29	0		83	92
Madagascar	29 385	29 001		46*	79	88
Malawi	16 959	15 516		96*	74	62
Malaysia	25 739	25 005		90	86	75
Maldives	169	169	0	0.59*	46	100
Mali	7 038	6 776	1.8	59	81	85

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

\* Among all notified cases, not just new and relapse cases.

TABLE A4.4

## TB case notifications, 2016

	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	50	50	34	92	74	89
Marshall Islands	179	179	34	81*	75	84
Mauritania	2 386	2 359		0	70	79
Mauritius	122	121	94	96	93	100
Mexico	22 869	22 193	2.9	89	80	84
Micronesia (Federated States of)	149	149		83*	88	24
Monaco						
Mongolia	4 669	4 425	3.1	76	55	76
Montenegro	87	87	29	69	89	75
Montserrat	0	0				
Morocco	32 246	31 542	1.3	47	54	86
Mozambique	73 470	71 842		94*	90	45
Myanmar	139 625	137 551		83*	89	41
Namibia	9 154	8 857		98*	82	80
Nauru	13	10		0	70	100
Nepal	32 056	31 371		18*	73	75
Netherlands	889	877	0	64	54	76
New Caledonia	39	38		53	68	100
New Zealand	294	294		75	55	88
Nicaragua	2 406	2 339		91	89	77
Niger	10 165	9 921		74*	87	89
Nigeria	100 433	97 279		94*	95	73
Niue						
Northern Mariana Islands	28	28	57	100	100	57
Norway	299	278	85	91	63	87
Oman	345	345	34	98	64	98
Pakistan	366 061	356 390		3.6*	80	48
Palau	23	23	91	91	91	81
Panama	1 858	1 787	24	96	82	59
Papua New Guinea	29 751	27 576		33*	57	31
Paraguay	2 611	2 438	21	97	90	77
Peru	31 079	29 733		84*	80	82
Philippines	345 144	332 941	13	19	98	37
Poland	6 444	6 143	14		95	75
Portugal	1 836	1 794	16	66*	72	87
Puerto Rico	69	65	43	100	100	69
Qatar	504	504		0	52	100
Republic of Korea	39 245	36 435	7.4		81	68
Republic of Moldova	4 134	3 571	51	94	91	62
Romania	13 617	12 790	5.4	73*	84	82
Russian Federation	121 046	92 407	70	87	91	51
Rwanda	6 018	5 792		97	88	86
Saint Kitts and Nevis	0	0				
Saint Lucia	3	3				
Saint Vincent and the Grenadines	7	6		>100	100	100
Samoa	13	13	62	92	77	80
San Marino	0	0				
Sao Tome and Principe	192	188		100	91	35
Saudi Arabia	3 004	2 913	25	65	74	84
Senegal	13 117	12 878	58	90	87	87
Serbia	1 488	1 472		5.7	82	68
<i>Serbia (without Kosovo)</i>	767	755				
<i>Kosovo</i>	721	717				
Seychelles	12	12	75	92	83	60
Sierra Leone	14 114	14 114	0	97	94	85
Singapore	2 473	2 469	44	88*	84	64
Sint Maarten (Dutch part)	0	0				
Slovakia	296	281	21	0	85	60
Slovenia	118	118	52	81	87	93

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

\* Among all notified cases, not just new and relapse cases.

TABLE A4.4

## TB case notifications, 2016

	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	402	402	12	0*	62	51
Somalia	14 381	14 170		82	75	61
South Africa	244 053	237 045	69	96	90	67
South Sudan	11 364	10 770		83	81	63
Spain	4 877	4 734	20		72	86
Sri Lanka	8 886	8 664	19	89*	70	71
Sudan	21 084	20 477		17*	76	46
Suriname	116	114	66	94	85	82
Swaziland	3 806	3 567	82	99*	85	76
Sweden	726	702	66	62	66	89
Switzerland	609	573			70	90
Syrian Arab Republic	3 154	3 064		1.5	53	76
Tajikistan	6 241	5 965	73	94*	73	69
Thailand	74 190	70 114	2.8	83*	84	60
The Former Yugoslav Republic of Macedonia	267	263	36	79	80	84
Timor-Leste	3 620	3 607	0	45	85	61
Togo	2 849	2 755		99*	86	92
Tokelau	0	0				
Tonga	8	8	0	100	75	83
Trinidad and Tobago	234	214	22	100	93	63
Tunisia	3 462	3 428	15	74*	40	81
Turkey	12 417	12 186		70	66	79
Turkmenistan	2 376	2 104	77		77	100
Turks and Caicos Islands	2	2		100	100	100
Tuvalu	20	20	100	100*	80	88
Uganda	44 816	43 413	24	94*	92	68
Ukraine	34 088	29 052		97	91	69
United Arab Emirates	67	64	34	84	66	95
United Kingdom of Great Britain and Northern Ireland	6 175	5 793	6.6	82	54	79
United Republic of Tanzania	65 908	64 609	8.2	97*	79	54
United States of America	9 257	8 814		93	79	84
Uruguay	879	879		96	89	75
US Virgin Islands						
Uzbekistan	18 441	16 050	76	100*	67	45
Vanuatu	100	100	0	41	54	76
Venezuela (Bolivarian Republic of)	8 542	8 197		63	86	71
Viet Nam	106 527	102 097	6	79	81	69
Wallis and Futuna Islands	0	0				
West Bank and Gaza Strip						
Yemen	9 498	9 412	8.6	16	65	55
Zambia	40 153	38 326		93*	82	50
Zimbabwe	27 353	27 353		100*	88	58
<b>WHO regions</b>						
African Region	1 303 483	1 273 560		82	84	66
Region of the Americas	235 535	222 750		80	84	78
Eastern Mediterranean Region	527 693	514 449		16	76	53
European Region	297 193	253 154		83	83	64
South-East Asia Region	2 900 658	2 709 953		56	85	61
Western Pacific Region	1 402 336	1 374 059		42	92	38
<b>Global</b>	<b>6 666 898</b>	<b>6 347 925</b>		<b>57</b>	<b>85</b>	<b>57</b>

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

\* Among all notified cases, not just new and relapse cases.

TABLE A4.5

### Treatment outcomes by TB case type, 2015 and treatment outcomes for MDR/RR-TB and XDR-TB cases, 2014

	New and relapse, 2015 cohort		Previously treated, excluding relapse, 2015 cohort		HIV-positive TB, 2015 cohort		MDR/RR-TB, 2014 cohort		XDR-TB, 2014 cohort	
	Cohort (Number)	Success (%)	Cohort (Number)	Success (%)	Cohort (Number)	Success (%)	Cohort (Number)	Success (%)	Cohort (Number)	Success (%)
Afghanistan	36 042	88	959	89			86	65	0	
Albania	409	87	0		6	50				
Algeria	7 082	90	482	82						
American Samoa										
Andorra	4	100	0		0		0		0	
Angola							249	43	0	
Anguilla	0		0		0		0		0	
Antigua and Barbuda*	2	50	0		0		0		0	
Argentina	9 854	47	956	38	655	28	121	26	5	40
Armenia	910	79	13	77	72	65	118	58	10	40
Aruba										
Australia	1 244	73	0		21	43	18	61	1	100
Austria	553	73	17	59			19	63	2	50
Azerbaijan*	1 475	83	2 738	73			745	59	69	23
Bahamas	62	82	0		38	100	0		0	
Bahrain										
Bangladesh	206 907	93	2 518	86	72	68	946	74	3	0
Barbados	0		0		0		0		0	
Belarus	2 525	89	263	76	113	79	1 472	59	431	36
Belgium	905	79	55	73	29	72	12	50	1	100
Belize	78	67			14	64	1	100	0	
Benin	3 996	88	95	77	619	82	19	84	1	100
Bermuda	0		0		0		0		0	
Bhutan	963	92	12	75	0		61	90	0	
Bolivia (Plurinational State of)	7 831	84	104	62			55	75	0	
Bonaire, Saint Eustatius and Saba	0		0		0		0		0	
Bosnia and Herzegovina	1 092	65	3	0	0		3	67	0	
Botswana	5 988	79	121	59	3 325	78	86	73	1	100
Brazil	74 064	71	6 856	38	7 516	49	793	52	72	36
British Virgin Islands*	0		0		0		0		0	
Brunei Darussalam	212	74	0		1	100	0		0	
Bulgaria	1 598	84	34	68	1	0	41	54	3	0
Burkina Faso	5 553	78	272	72	515	70	34	68	0	
Burundi	6 892	92	77	83	907	87	41	90	0	
Cabo Verde	269	89	3	100	31	68	5	100	0	
Cambodia	35 167	94	226	88			110	76	0	
Cameroon	26 117	84	453	73	8 471	81	91	81	0	
Canada	1 642	84			67	84	23	87	0	
Cayman Islands	7	100	0		0		0		0	
Central African Republic	4 957	78	521	84	1 877	75	21	76	0	
Chad	11 471	77	186	49	0		25	56	0	
Chile	2 569	62	88	34	221	48	13	31	0	
China	798 281	94	5 739	83	2 444	87	2 846	41	135	32
China, Hong Kong SAR	4 270	65	0		24	42	26	85	4	100
China, Macao SAR	363	80	2	100	1	100	8	50	0	
Colombia	11 858	75	840	44	1 551	51	181	50	5	40
Comoros	74	91			0		0		0	
Congo	9 807	71	196	45	503	20	0		0	
Cook Islands*	0		0		0		0		0	
Costa Rica	422	85	0		31	61	0		0	
Côte d'Ivoire	22 238	80	389	62	5 219	71	311	85	0	
Croatia	483	10	0							
Cuba	689	83	50	50	77	58	7	57	0	
Curaçao	8	50	0		2	50	0		0	
Cyprus	63	56	0		2	100				
Czechia	499	69	9	78	1	0	7	43	0	
Democratic People's Republic of Korea	112 820	90	7 882	82	0		212	91	0	
Democratic Republic of the Congo*	111 774	89	5 399	77			448	75	0	

\* Relapses included in the previously treated cohort.

TABLE A4.5

## Treatment outcomes by TB case type, 2015 and treatment outcomes for MDR/RR-TB and XDR-TB cases, 2014

	New and relapse, 2015 cohort		Previously treated, excluding relapse, 2015 cohort		HIV-positive TB, 2015 cohort		MDR/RR-TB, 2014 cohort		XDR-TB, 2014 cohort	
	Cohort (Number)	Success (%)	Cohort (Number)	Success (%)	Cohort (Number)	Success (%)	Cohort (Number)	Success (%)	Cohort (Number)	Success (%)
Denmark	314	50	36	39	8	12	2	50	0	
Djibouti*	1 042	85	136	71						
Dominica	8	88	0		0		0		0	
Dominican Republic	4 468	80	201	63	909	65	100	50	0	
Ecuador	5 097	77	118	51			120	50	0	
Egypt	7 860	85	295	64	14	79	76	63	1	100
El Salvador	2 452	92	9	56	182	74	15	73	0	
Equatorial Guinea	1 191	43	51	20	293	45	3	33	0	
Eritrea	2 061	90	34	85	122	86	24	67	0	
Estonia	172	83	2	100	16	81	42	74	8	12
Ethiopia*	132 296	84					557	70		
Fiji	341	86	8	88	6	83	1	100	0	
Finland	260	36	3	33						
France										
French Polynesia										
Gabon	5 727	50	566	48						
Gambia*	2 463	82					2	100	0	
Georgia	2 841	84	303	65	71	69	411	49	56	32
Germany	5 543	65	173	55			93	35	11	18
Ghana	14 460	85	539	78	2 631	75	14	64		
Greece										
Greenland	70	71	6	50	0		0		0	
Grenada	5	80					0		0	
Guam	76	87	0		0		1	100	0	
Guatemala	3 230	87	51	51	179	66	41	59	0	
Guinea	12 154	80	88	76	2 332	74	123	75	0	
Guinea-Bissau	2 147	79	5	100	422	68	15	40		
Guyana	571	68	97	54	116	48	0		0	
Haiti	16 234	80	234	57	2 427	64	89	79	0	
Honduras	2 906	86	13	54	267	67	8	38	0	
Hungary	851	71	46	67	0		4	100	0	
Iceland	7	100	0		0					
India	1 656 233	72	69 823	66	44 191	78	22 524	46	1 262	29
Indonesia	331 703	85	1 859	67	3 634	60	1 271	51	30	13
Iran (Islamic Republic of)	10 173	87	201	78	299	66	48	58	2	0
Iraq	8 183	91	72	82	0		55	49	0	
Ireland	265	57	17	35	7	43	2	50	0	
Israel	263	83	0		14	71	16	75	2	50
Italy										
Jamaica	103	23	0		19	11				
Japan	13 971	53			24	46				
Jordan	91	85	52	21	0		6	100	0	
Kazakhstan	14 006	91	625	77	376	69	6 320	76	318	31
Kenya	80 310	87	224	83	25 892	82	251	72	1	100
Kiribati	495	91	21	71	0		0		0	
Kuwait	748	87	0		3	0	7	100	0	
Kyrgyzstan	6 139	82	547	66	151	61	1 157	56	32	16
Lao People's Democratic Republic	4 547	88	107	85	284	63	27	67	0	
Latvia	642	84	16	69	66	76	58	72	13	77
Lebanon	640	83	10	90	5	60	6	67	0	
Lesotho	7 557	74	299	64	5 988	77	152	64		
Liberia	6 147	77	43	65			0		0	
Libya	966	61	51	22	49	29				
Lithuania	1 219	79	40	48	26	65	218	16	61	0
Luxembourg										
Madagascar*	26 216	82	2 370	71			12	75		
Malawi	15 597	81	1 284	76	7 799	81	53	58		
Malaysia	23 565	78	655	55	1 157	62	60	32	1	0

\* Relapses included in the previously treated cohort.

TABLE A4.5

### Treatment outcomes by TB case type, 2015 and treatment outcomes for MDR/RR-TB and XDR-TB cases, 2014

	New and relapse, 2015 cohort		Previously treated, excluding relapse, 2015 cohort		HIV-positive TB, 2015 cohort		MDR/RR-TB, 2014 cohort		XDR-TB, 2014 cohort	
	Cohort (Number)	Success (%)	Cohort (Number)	Success (%)	Cohort (Number)	Success (%)	Cohort (Number)	Success (%)	Cohort (Number)	Success (%)
Maldives	153	83	0		0		0		0	
Mali	6 732	77	283	75	523	68	12	75	0	
Malta										
Marshall Islands	128	24	8	38	0		0		0	
Mauritania	2 166	71	27	59	0		14	0	0	
Mauritius	128	91	1	100	14	79	1	100	0	
Mexico	21 600	80	694	53	1 403	47	208	56	5	40
Micronesia (Federated States of)	107	80	1	100	0		0		0	
Monaco										
Mongolia	4 685	85	250	68	6	33	294	66	0	
Montenegro	80	92	0		0		2	0	0	
Montserrat										
Morocco	30 636	88	767	72			124	60	0	
Mozambique	58 344	88	3 215	88	32 937	86	439	50		
Myanmar	136 201	87	2 222	75	11 181	72	1 497	80		
Namibia	9 614	83	330	60	3 796	79	266	70	6	33
Nauru	9	89	0		0		0		0	
Nepal	32 459	92	1 124	88	179	9	286	70		
Netherlands	837	86	14	71	34	85	7	86	0	
New Caledonia	54	26					0		0	
New Zealand	288	80	5	20	2	100	3	33	0	
Nicaragua	2 464	87	81	75	64	58	15	73		
Niger	10 323	80	243	66	428	62	46	78	0	
Nigeria	87 211	84	3 373	84	14 846	76	423	74	2	0
Niue										
Northern Mariana Islands	27	100	0		0		0		0	
Norway	276	88	31	81	5	80	10	90	0	
Oman	327	88	0		5	60	6	17	0	
Pakistan	323 267	93	8 091	83			2 565	65	78	42
Palau	14	86	0		0		1	100	0	
Panama	1 646	82	98	49	209	66	20	50	0	
Papua New Guinea*	4 110	74	661	63			180	52	5	40
Paraguay	2 326	70	170	57	182	43	13	69	0	
Peru*	14 896	87	2 273	73	1 124	66	1 376	34	60	65
Philippines	263 481	91	7 925	82	277	65	2 490	46	7	0
Poland	6 196	53	189	43			44	18	5	20
Portugal	2 114	72	39	56	218	51	25	52	3	67
Puerto Rico*	51	63	1	0	9	44	0		0	
Qatar	527	70	0		0		2	100	0	
Republic of Korea	35 029	84	3 375	73			846	63	63	59
Republic of Moldova	2 992	80	217	47	227	55	919	50	9	33
Romania	13 908	85	682	47	261	63	539	44	57	16
Russian Federation	80 424	71	8 294	50	694	51	20 089	51	2 209	31
Rwanda	5 453	87	99	87	673	79	80	88	0	
Saint Kitts and Nevis	0		0		0		1	100	0	
Saint Lucia							0		0	
Saint Vincent and the Grenadines										
Samoa	19	95	0		0		0		0	
San Marino	0		0		0		0		0	
Sao Tome and Principe	173	78	5	20	24	71	4	50	0	
Saudi Arabia	3 309	72	120	44	69	45	55	27	0	
Senegal	13 375	86	292	75	781	54	48	75	0	
Serbia	1 647	89	22	59	4	50	13	54	0	
Seychelles	8	88	0		0		0		0	
Sierra Leone*	8 017	88	227	62						
Singapore	2 143	79	5	100	34	82	14	50	1	100
Sint Maarten (Dutch part)	2	100	0		0		0		0	
Slovakia	305	86	9	78	0		4	50	0	

\* Relapses included in the previously treated cohort.

TABLE A4.5

### Treatment outcomes by TB case type, 2015 and treatment outcomes for MDR/RR-TB and XDR-TB cases, 2014

	New and relapse, 2015 cohort		Previously treated, excluding relapse, 2015 cohort		HIV-positive TB, 2015 cohort		MDR/RR-TB, 2014 cohort		XDR-TB, 2014 cohort	
	Cohort (Number)	Success (%)	Cohort (Number)	Success (%)	Cohort (Number)	Success (%)	Cohort (Number)	Success (%)	Cohort (Number)	Success (%)
Slovenia	129	81	1	100	0					
Solomon Islands	416	94	0		0		0		0	
Somalia	13 982	84	221	57			76	76	0	
South Africa	291 793	81	5 441	63	167 335	80	11 111	54	610	27
South Sudan*	9 381	80	902	75	1 053	64				
Spain										
Sri Lanka	9 293	85	282	68	25	76	13	69	0	
Sudan*	6 083	79					74	74	0	
Suriname	140	76	7	29	36	58	0		0	
Swaziland	4 148	80	291	67	2 929	78	444	70	1	0
Sweden	754	87	35	77			16	94	1	0
Switzerland							12	75	1	0
Syrian Arab Republic	2 908	91	84	48	0		12	42	0	
Tajikistan	5 298	89	286	80	131	72	804	50	0	
Thailand	59 399	79	4 612	68	6 002	69	414	58	7	14
The Former Yugoslav Republic of Macedonia	282	86	2	100	0		3	33	0	
Timor-Leste	1 650	87	12	75	19	68	3	100	0	
Togo*	2 526	86	145	80			1	100	0	
Tokelau	0		0		0		0		0	
Tonga	14	93	0		0		0		0	
Trinidad and Tobago	196	63	22	55	39	36	1	0	0	
Tunisia	3 357	91	34	94	14	93	14	79	0	
Turkey	12 362	87	158	46	57	58	257	63	2	0
Turkmenistan	2 472	86	281	80	0		81	53		
Turks and Caicos Islands*	3	33	0		1	100	0		0	
Tuvalu	19	79	0		0		0		0	
Uganda	41 516	75	2 114	67	16 948	75	214	71	0	
Ukraine	23 892	75	3 656	57	4 597	63	7 174	46	1 097	25
United Arab Emirates	60	85	1	0	2	50	1	0	0	
United Kingdom of Great Britain and Northern Ireland	5 802	79	376	72			53	60	3	33
United Republic of Tanzania	60 895	90	1 292	80	22 675	83	143	76	1	0
United States of America	8 953	83	465	77	429	77	108	78	2	0
Uruguay	906	77	6	83	134	48	2	100	0	
US Virgin Islands										
Uzbekistan	15 220	89	2 617	82			3 602	62		
Vanuatu	136	77	0		0		0		0	
Venezuela (Bolivarian Republic of)	7 133	83	142	77	589	81	33	67	1	100
Viet Nam	97 466	92	1 896	77	3 428	78	1 528	75	0	
Wallis and Futuna Islands*	0		0		0		0		0	
West Bank and Gaza Strip										
Yemen	7 654	87	45	78			41	71		
Zambia	36 741	85	4 847	84	20 967	87	68	51	0	
Zimbabwe	26 990	81	1 235	70	18 027	79	381	51	0	
<b>WHO regions</b>										
African Region	1 200 078	83	38 059	75	370 902	80	16 231	59	623	27
Region of the Americas	204 476	76	13 576	48	18 490	55	3 344	46	150	48
Eastern Mediterranean Region	457 855	91	11 139	80	460	59	3 254	65	81	42
European Region	218 098	77	21 855	61	7 187	62	44 394	55	4 404	29
South-East Asia Region	2 547 781	78	90 346	69	65 303	75	27 227	50	1 302	29
Western Pacific Region	1 290 677	92	20 884	79	7 709	78	8 453	52	217	41
<b>Global</b>	<b>5 918 965</b>	<b>83</b>	<b>195 859</b>	<b>69</b>	<b>470 051</b>	<b>78</b>	<b>102 903</b>	<b>54</b>	<b>6 777</b>	<b>30</b>

\* Relapses included in the previously treated cohort.

TABLE A4.6

## Collaborative TB/HIV activities in 30 high TB/HIV burden countries, for WHO regions and globally, 2016

	Estimated HIV-positive incident TB cases		Notified TB patients with known HIV status <sup>a</sup>		HIV-positive TB patients		HIV-positive TB patients on antiretroviral therapy (ART)		Of people newly enrolled in HIV care	
	Number (thousands)		Number	%	as % of notified TB patients with known HIV status	as % of estimated HIV-positive incident TB cases	as % of notified HIV-positive TB patients	as % of estimated HIV-positive incident TB cases	% provided with TB preventive treatment	% notified as a TB case
Angola	18 (8.5–30)		27 579	46	10	16 (9.2–33)				17
Botswana	4.4 (3.4–5.6)		4 432	92	60	60 (47–79)	81	49 (38–64)		
Brazil	11 (9.1–13)		57 691	76	13	68 (58–81)	42	29 (24–34)		
Cameroon	16 (10–24)		24 076	93	34	51 (35–80)	92	46 (32–73)		
Central African Republic	6.2 (3.3–9.9)		6 765	66	30	33 (21–61)	77	26 (16–47)		
Chad	2.8 (1.8–4.0)		7 557	68	22	59 (41–92)				
China	11 (6.9–15)		335 364	43	1.4	44 (30–67)	88	38 (27–59)		2.7
Congo	5.1 (2.6–8.4)		3 140	30	16	10 (6.2–20)	43	4.4 (2.7–8.5)		
Democratic Republic of the Congo	20 (13–29)		71 065	54	12	41 (29–63)	75	31 (21–47)		
Ethiopia	14 (9.6–19)		103 330	81	7.6	57 (42–82)	88	50 (37–72)	52	5.9
Ghana	10 (4.7–17)		12 275	84	23	28 (16–60)	43	12 (7.0–26)		
Guinea-Bissau	2.2 (1.4–3.2)		1 578	70	32	23 (16–37)	49	11 (7.8–18)		
India	87 (56–125)		1 271 416	72	3.1	46 (32–70)	98	45 (31–69)	4.7	12
Indonesia	45 (21–78)		49 179	14	8.8	9.6 (5.6–21)	28	2.7 (1.6–5.9)	2.4	27
Kenya	53 (32–79)		73 056	96	31	43 (29–71)	95	41 (28–68)		
Lesotho	12 (7.3–17)		6 826	91	73	43 (30–68)	86	37 (25–58)		
Liberia	2.2 (1.4–3.2)		5 277	74	16	37 (26–59)	47	17 (12–28)	8.6	27
Malawi	15 (9.9–22)		16 357	96	53	56 (39–87)	97	54 (38–84)	50	1.7
Mozambique	72 (46–104)		69 400	94	44	43 (30–67)	94	40 (28–64)	52	
Myanmar	18 (13–24)		115 619	83	9.5	60 (46–83)	58	35 (27–48)	2.9	11
Namibia	4.2 (2.7–6.0)		8 968	98	38	81 (56–>100)	94	76 (53–>100)		
Nigeria	63 (40–93)		94 796	94	16	23 (16–37)	81	19 (13–30)	29	6.8
Papua New Guinea	3.6 (2.0–5.5)		9 851	33	7.1	20 (13–35)	92	18 (12–32)		9.2
South Africa	258 (176–355)		227 755	96	59	52 (38–77)	88	46 (34–68)	51	
Swaziland	3.8 (2.4–5.4)		3 774	99	70	71 (49–>100)	94	66 (46–>100)	15	1.7
Thailand	10 (6.1–16)		61 337	83	11	65 (43–>100)	66	43 (28–74)		14
Uganda	35 (20–54)		42 092	94	43	51 (34–89)	90	46 (30–80)		7.5
United Republic of Tanzania	54 (35–78)		63 753	97	34	40 (28–62)	91	36 (25–56)	8.5	
Zambia	36 (23–52)		37 480	93	58	60 (42–93)	83	50 (35–77)		
Zimbabwe	23 (15–32)		27 353	100	67	81 (57–>100)	86	70 (49–>100)	73	5.4
<b>WHO regions</b>										
African Region	764 (660–876)		1 062 438	82	34	47 (41–54)	88	41 (35–47)	46	5.1
Region of the Americas	30 (28–33)		179 497	80	11	68 (63–74)	64	42 (39–45)	31	9.6
Eastern Mediterranean Region	9.9 (5.9–15)		82 482	16	1.7	14 (9.3–23)	67	7.1 (4.8–12)	16	11
European Region	34 (26–42)		194 819	83	14	76 (61–98)	66	50 (40–64)	70	9.3
South-East Asia Region	163 (120–211)		1 518 085	56	4.1	38 (30–52)	83	32 (24–43)	4.1	14
Western Pacific Region	29 (23–36)		557 697	42	2.1	40 (32–50)	81	32 (26–40)	41	4.3
<b>Global</b>	1 030 (915–1 150)		3 595 018	57	13	47 (42–52)	85	39 (35–44)	42	6.8

<sup>a</sup> For new and relapse cases only, although some countries report on all cases.