

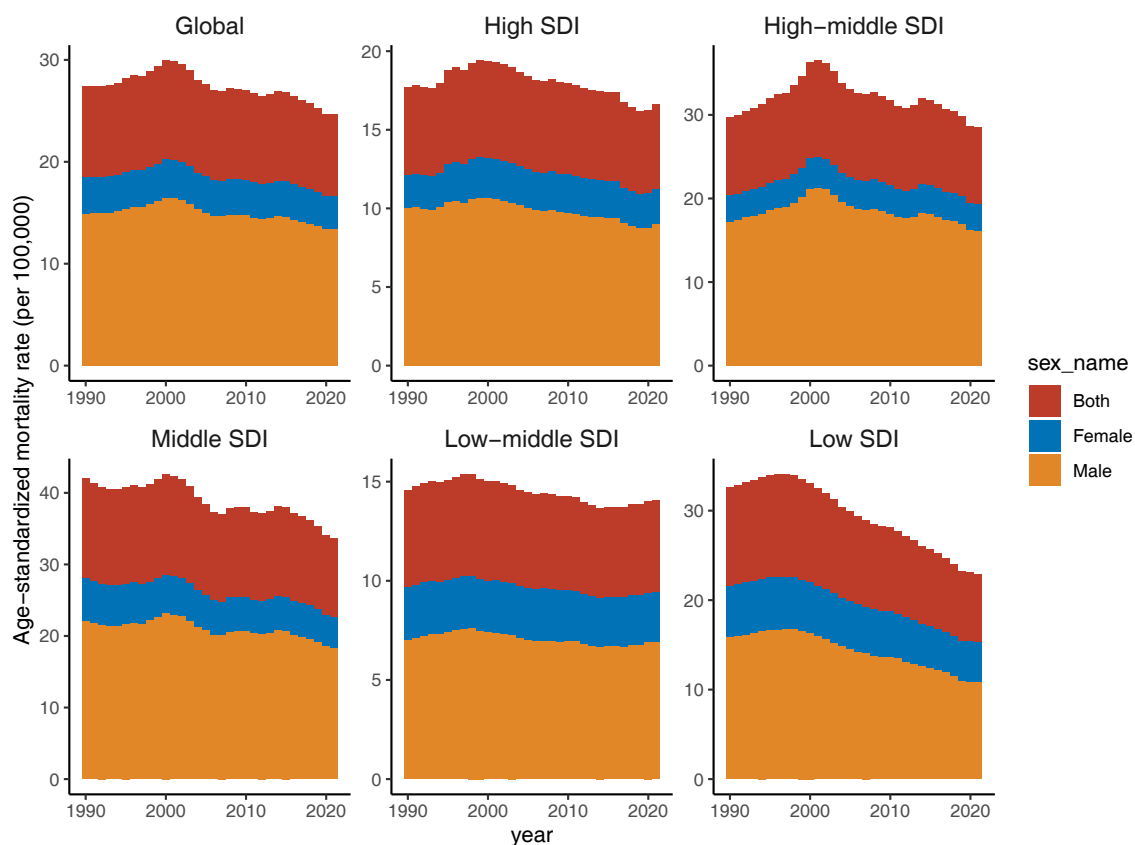


Figure S1 Gender and regional differences in the ASMR of liver cancer attributable to hepatitis B virus among middle-aged and older adults.

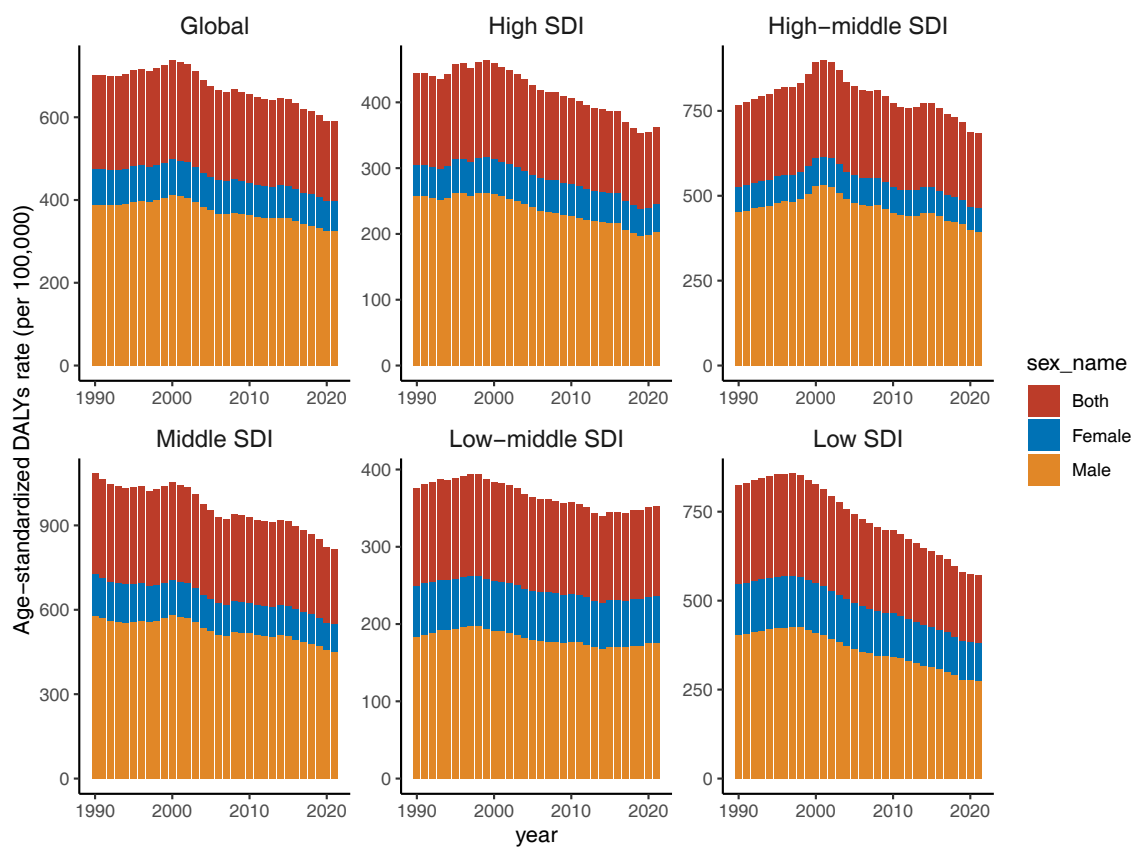


Figure S2 Gender and regional differences in the ASDR of liver cancer attributable to hepatitis B virus among middle-aged and older adults.

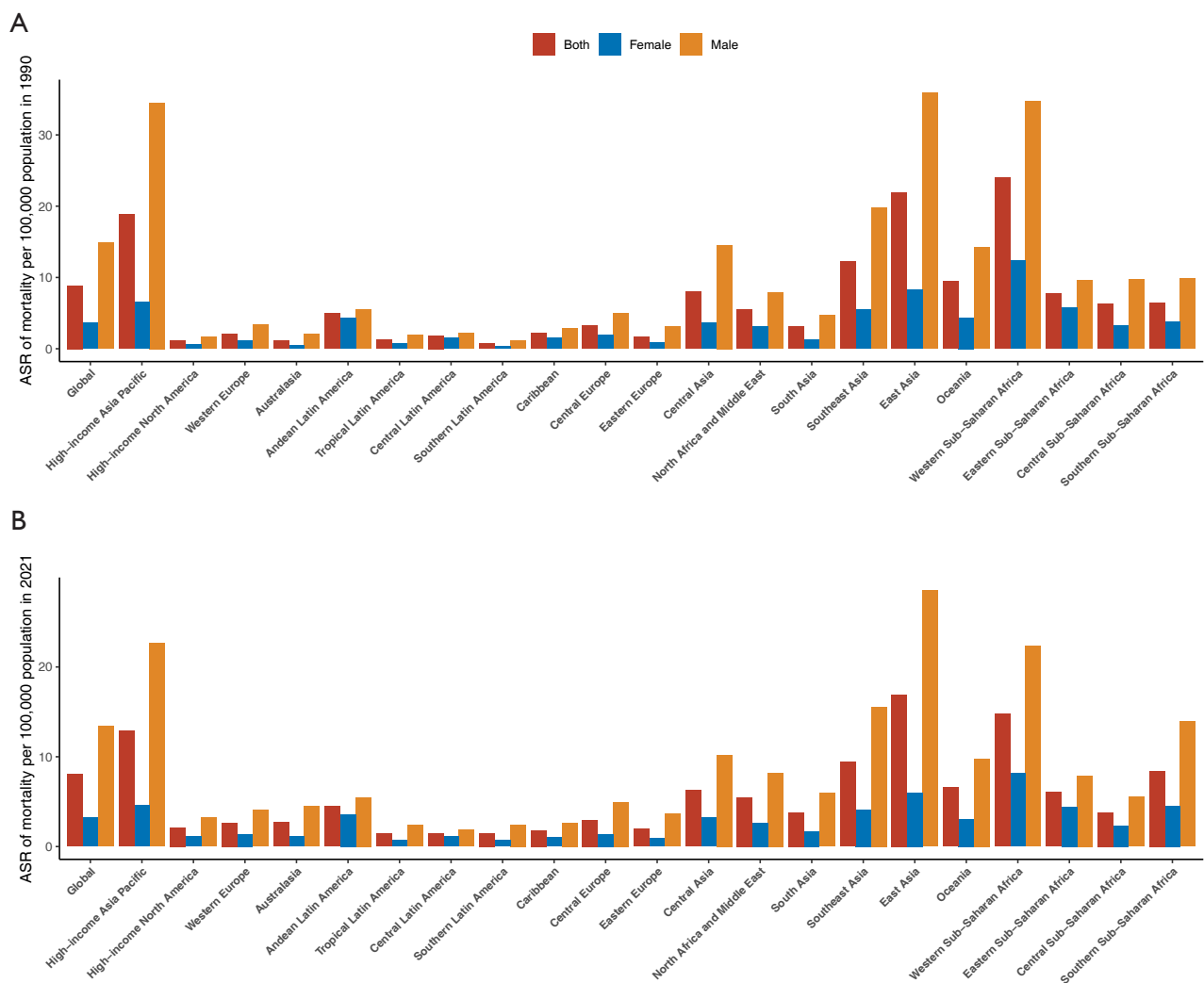


Figure S3 (A) The gender differences in the ASMR of liver cancer attributable to hepatitis B virus across different regions in 1990. (B) The gender differences in the ASMR of liver cancer attributable to hepatitis B virus across different regions in 2021.

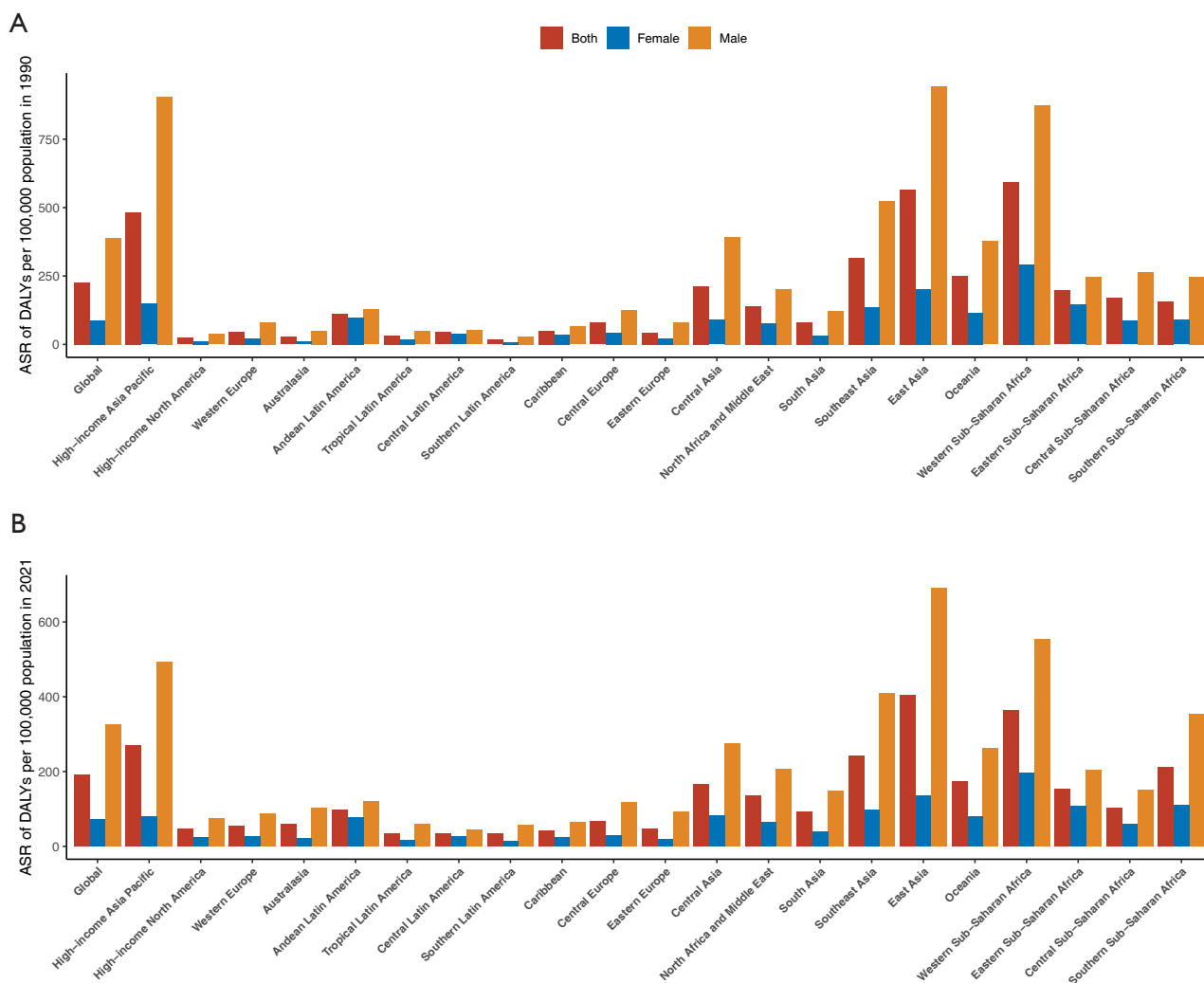


Figure S4 (A) The gender differences in the ASDR of liver cancer attributable to hepatitis B virus across different regions in 1990. (B) The gender differences in the ASDR of liver cancer attributable to hepatitis B virus across different regions in 2021.

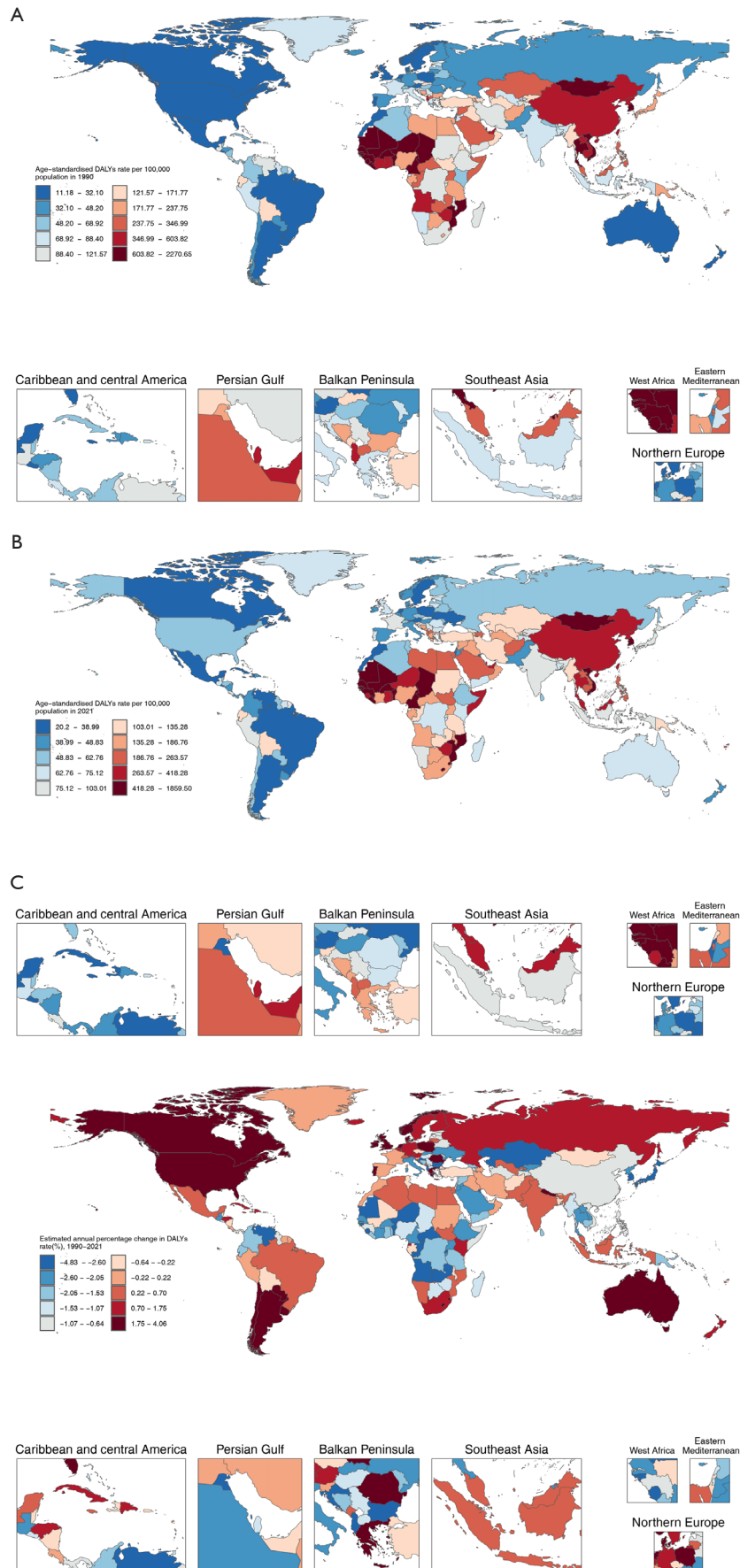


Figure S5 The liver cancer attributable to hepatitis B virus burden among middle-aged and older adults in 204 countries and territories. (A) ASDR in 1990. (B) ASDR in 2021. (C) EAPC in DALYs rate.

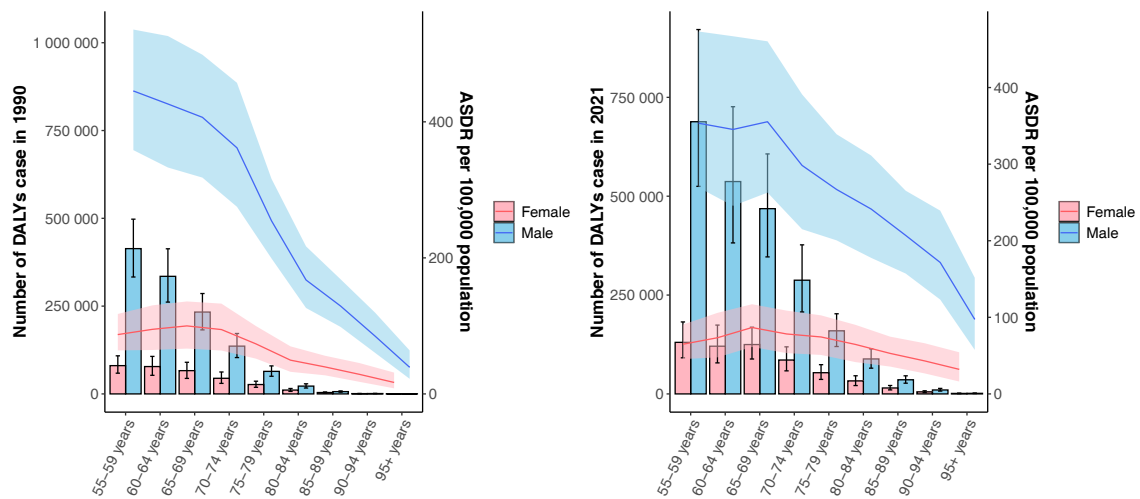


Figure S6 Differences in ASDR by age group among middle-aged and older adults.

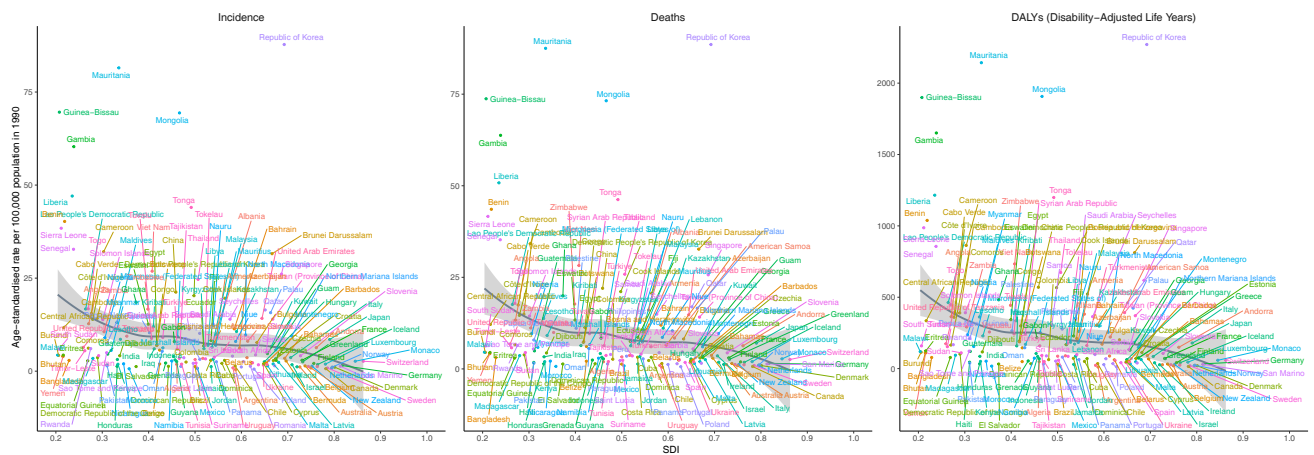


Figure S7 The associations of SDI with the ASIR, ASMR, and ASDR of liver cancer attributable to hepatitis B virus across 204 countries and territories in 1990.

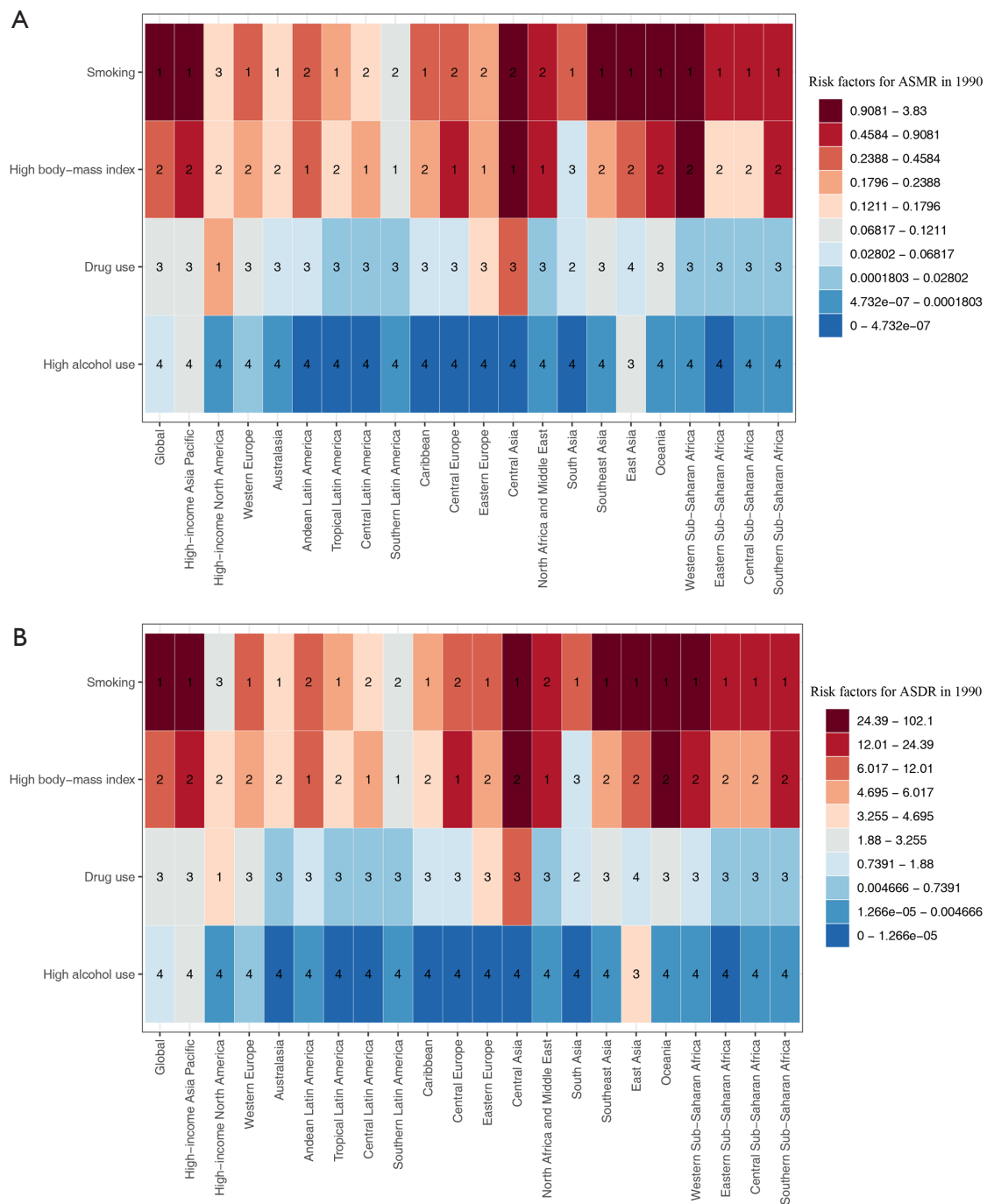


Figure S8 Risk factors of liver cancer attributable to hepatitis B virus among middle-aged and older adults. (A) ASMR in 1990. (B) ASDR in 1990.

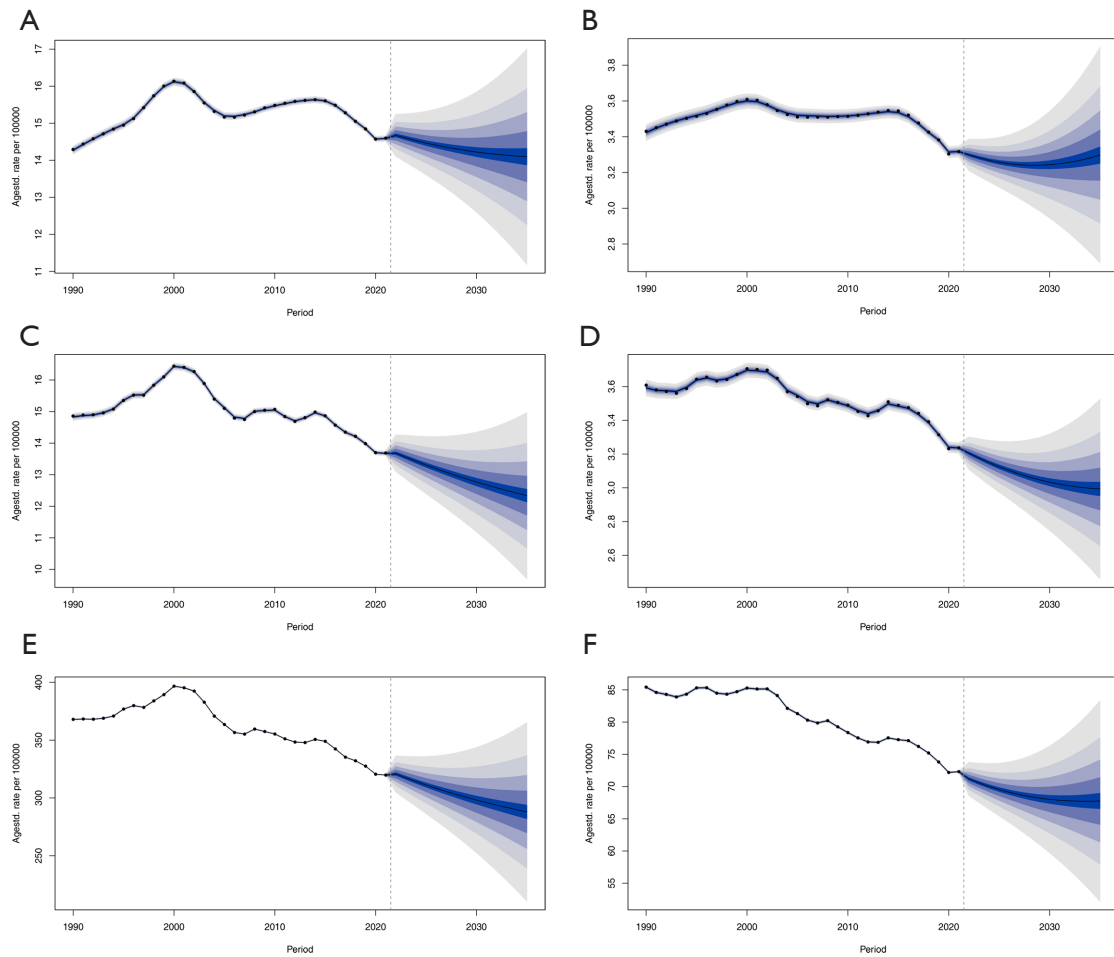


Figure S9 The projection for the 2022 to 2035 global trends in liver cancer attributable to hepatitis B virus among middle-aged and older adults. (A) Male ASIR. (B) Female ASIR. (C) Male ASMR. (D) Female ASMR. (E) Male ASDR. (F) Female ASDR.

Table S1 DALYs of liver cancer attributable to hepatitis B virus between 1990 and 2021 in adults 55 years and older at the Global and Regional Level

Location	1990		2021		EAPC (95% CI)
	Number (95% UI)	ASDR (95% UI)	Number (95% UI)	ASDR (95% UI)	
Worldwide	1523817.8 (1245432.7–1830138.0)	227.0 (185.5–272.6)	2846323.2 (2245383.2–3596181.4)	191.5 (151.1–242.0)	−0.59 (−0.71, −0.48)
Sex					
Male	1211925.7 (1004257.8–1454125.3)	389.1 (322.4–466.8)	2276694.4 (1772599.1–2944918.9)	325.5 (253.4–421.0)	−0.63 (−0.76, −0.51)
Female	311892.1 (229801.5–399556.8)	86.7 (63.8–111.0)	569628.8 (424727.1–736132.4)	72.4 (54.0–93.6)	−0.59 (−0.66, −0.51)
SDI					
High SDI	258532.5 (198493.7–318232.2)	138.7 (106.5–170.7)	403422.4 (315309.0–505149.8)	116.9 (91.4–146.4)	−0.71 (−0.85, −0.57)
High-middle SDI	413314.4 (340337.7–495072.1)	239.6 (197.3–287.0)	757618.3 (573830.7–969451.2)	218.5 (165.5–279.6)	−0.36 (−0.58, −0.15)
Middle SDI	620613.1 (512626.8–741306.1)	357.6 (295.4–427.1)	1249596.2 (954575.4–1585049.0)	266.0 (203.2–337.3)	−0.85 (−0.94, −0.76)
Low-middle SDI	127107.8 (91464.6–169984.2)	126.1 (90.7–168.6)	278846.7 (207290.0–365345.1)	115.7 (86.0–151.5)	−0.53 (−0.61, −0.45)
Low SDI	103490.3 (65325.8–153034.0)	277.4 (175.1–410.2)	155650.8 (106036.3–217712.0)	189.7 (129.2–265.3)	−1.43 (−1.57, −1.30)
GBD regions					
Andean Latin America	3796.2 (2566.8–5052.2)	113.1 (76.5–150.5)	9767.1 (6329.1–14321.8)	98.6 (63.9–144.6)	−0.68 (−0.91, −0.46)
Australasia	1085.1 (672.2–1673.7)	27.5 (17.1–42.5)	5349.4 (3252.7–8139.3)	60.6 (36.8–92.1)	2.33 (2.11, 2.55)
Caribbean	2148.3 (1315.8–3193.5)	49.8 (30.5–74.1)	3896.2 (2320.4–5759.3)	42.1 (25.1–62.2)	−0.85 (−1.15, −0.55)
Central Asia	16937.6 (10574.1–25369.5)	211.8 (132.2–317.2)	24235.6 (14455.0–37229.2)	166.6 (99.3–255.9)	−1.30 (−1.44, −1.17)
Central Europe	20991.1 (13126.0–30141.6)	79.2 (49.5–113.7)	24991.5 (15938.0–35484.9)	67.5 (43.0–95.8)	−0.65 (−0.82, −0.49)
Central Latin America	6045.1 (3974.9–8801.6)	44.5 (29.3–64.9)	14494.1 (9504.6–20727.8)	33.9 (22.2–48.5)	−1.03 (−1.42, −0.63)
Central Sub-Saharan Africa	6355.7 (2499.5–15157.7)	169.0 (66.5–403.1)	9161.1 (3506.5–21898.8)	101.5 (38.9–242.7)	−1.93 (−2.04, −1.81)
East Asia	843357.0 (696269.8–1011525.1)	566.2 (467.4–679.1)	1583452.2 (1203160.9–2051858.4)	403.8 (306.8–523.3)	−1.00 (−1.19, −0.81)
Eastern Europe	20779.7 (15888.3–26707.0)	42.5 (32.5–54.6)	29864.5 (22714.3–37936.6)	48.1 (36.6–61.1)	0.25 (0.02, 0.48)
Eastern Sub-Saharan Africa	23947.5 (15123.6–35838.4)	196.8 (124.3–294.6)	41650.7 (25166.9–68756.2)	154.0 (93.1–254.3)	−1.16 (−1.45, −0.87)
High-income Asia Pacific	168429.5 (125041.5–212558.8)	481.7 (357.6–607.9)	189949.7 (147168.9–240848.0)	269.4 (208.7–341.6)	−2.18 (−2.32, −2.04)
High-income North America	13646.5 (10874.5–16579.4)	23.6 (18.8–28.6)	53624.3 (42142.8–66474.3)	47.7 (37.4–59.1)	2.65 (2.48, 2.83)
North Africa and Middle East	39810.1 (26335.2–58959.3)	140.9 (93.2–208.6)	104293.3 (70558.3–145285.0)	136.8 (92.6–190.6)	−0.36 (−0.63, −0.08)
Oceania	1208.0 (655.3–2570.0)	251.1 (136.2–534.2)	2158.2 (1190.2–4296.1)	174.9 (96.4–348.1)	−1.30 (−1.38, −1.22)
South Asia	76194.5 (59919.2–95332.9)	80.3 (63.1–100.4)	231032.6 (180238.3–287559.4)	93.0 (72.6–115.8)	0.42 (0.36, 0.47)
Southeast Asia	134494.7 (95624.3–177689.7)	317.6 (225.8–419.7)	278015.1 (182715.3–400998.6)	242.7 (159.5–350.0)	−1.02 (−1.10, −0.94)
Southern Latin America	1364.8 (809.9–2108.8)	17.2 (10.2–26.6)	4916.1 (2994.4–7492.4)	33.4 (20.3–50.9)	2.66 (2.39, 2.93)
Southern Sub-Saharan Africa	6969.1 (3637.7–11558.3)	157.5 (82.2–261.2)	20551.5 (15451.6–27381.5)	211.1 (158.7–281.3)	0.08 (−0.62, 0.78)
Tropical Latin America	4827.0 (3789.1–5984.0)	31.9 (25.0–39.5)	15640.5 (12041.7–19439.7)	35.3 (27.2–43.9)	0.64 (0.45, 0.84)
Western Europe	45619.2 (31396.2–63537.8)	47.0 (32.3–65.4)	82313.8 (55253.3–116712.5)	55.2 (37.0–78.3)	0.45 (0.32, 0.58)
Western Sub-Saharan Africa	85811.1 (50780.2–131326.3)	594.4 (351.8–909.7)	116965.7 (80631.6–153962.9)	363.9 (250.9–479.0)	−1.77 (−1.92, −1.61)

Table S2 Incidence of liver cancer attributable to hepatitis B virus between 1990 and 2021 in adults 55 years and older at the Global and Regional Level

Location	1990		2021		EAPC (95% CI)
	Number (95% UI)	ASIR (95% UI)	Number (95% UI)	ASIR (95% UI)	
Afghanistan	99.0 (54.0–165.5)	8.1 (4.4–13.6)	95.7 (54.0–153.0)	7.8 (4.4–12.5)	−0.14 (−0.32, 0.03)
Albania	51.7 (30.6–80.2)	14.9 (8.8–23.1)	66.3 (35.6–115.8)	8.4 (4.5–14.7)	−2.37 (−2.94, −1.80)
Algeria	38.4 (24.6–57.3)	1.8 (1.2–2.7)	134.0 (80.2–208.9)	2.2 (1.3–3.4)	0.48 (0.44, 0.52)
American Samoa	0.3 (0.2–0.4)	8.0 (5.2–11.7)	1.0 (0.6–1.4)	11.3 (7.4–16.1)	1.10 (0.73, 1.46)
Andorra	0.6 (0.3–1.1)	6.3 (3.3–10.9)	1.5 (0.8–2.6)	5.5 (3.0–9.8)	−0.42 (−0.62, −0.21)
Angola	79.4 (9.2–232.8)	12.8 (1.5–37.4)	126.0 (25.9–332.9)	6.5 (1.3–17.2)	−2.62 (−2.80, −2.43)
Antigua and Barbuda	0.3 (0.2–0.5)	3.6 (2.4–5.2)	0.5 (0.3–0.7)	2.5 (1.6–3.7)	−1.76 (−2.21, −1.30)
Argentina	24.4 (14.7–37.4)	0.4 (0.3–0.7)	82.2 (50.9–124.9)	0.9 (0.5–1.3)	2.88 (2.51, 3.25)
Armenia	35.6 (21.9–52.6)	7.3 (4.5–10.8)	43.1 (26.0–65.7)	5.5 (3.3–8.4)	−1.10 (−1.72, −0.47)
Australia	37.4 (22.3–60.6)	1.1 (0.7–1.8)	235.6 (141.2–362.9)	3.2 (1.9–4.9)	3.12 (2.87, 3.38)
Austria	16.9 (10.1–27.3)	0.9 (0.5–1.4)	48.3 (28.3–76.4)	1.6 (1.0–2.6)	2.11 (1.67, 2.56)
Azerbaijan	53.7 (25.5–90.9)	6.2 (2.9–10.4)	132.5 (58.4–250.1)	6.9 (3.0–13.1)	−0.00 (−0.27, 0.26)
Bahamas	0.9 (0.5–1.2)	3.5 (2.1–5.0)	2.0 (1.1–2.9)	2.7 (1.6–4.0)	−1.06 (−1.33, −0.80)
Bahrain	3.2 (1.9–4.8)	11.4 (6.8–17.0)	8.8 (5.0–15.0)	5.4 (3.1–9.3)	−3.85 (−4.38, −3.32)
Bangladesh	219.5 (140.3–324.6)	2.9 (1.9–4.3)	596.4 (345.5–931.9)	2.6 (1.5–4.0)	−0.44 (−0.70, −0.18)
Barbados	1.0 (0.7–1.5)	2.2 (1.4–3.3)	1.8 (1.1–2.9)	2.0 (1.2–3.2)	−0.93 (−1.14, −0.72)
Belarus	53.3 (32.3–79.9)	2.3 (1.4–3.4)	66.4 (38.5–106.1)	2.3 (1.3–3.7)	−0.55 (−0.71, −0.39)
Belgium	37.4 (22.8–59.2)	1.4 (0.9–2.3)	75.4 (45.7–118.1)	2.0 (1.2–3.1)	0.96 (0.68, 1.23)
Belize	0.3 (0.2–0.4)	1.9 (1.2–2.8)	1.0 (0.7–1.5)	2.1 (1.3–3.1)	−0.57 (−1.08, −0.06)
Benin	128.7 (66.6–192.4)	40.2 (20.8–60.1)	164.1 (103.6–241.8)	19.8 (12.5–29.2)	−2.74 (−3.04, −2.45)
Bermuda	0.3 (0.2–0.4)	2.8 (1.7–4.1)	0.3 (0.2–0.5)	1.3 (0.8–2.0)	−2.41 (−2.78, −2.05)
Bhutan	1.6 (0.8–2.7)	4.0 (2.0–6.7)	4.2 (2.3–7.2)	4.2 (2.3–7.3)	0.08 (−0.03, 0.18)
Bolivia (Plurinational State of)	29.7 (18.0–44.5)	5.7 (3.4–8.5)	82.9 (48.0–135.0)	5.4 (3.1–8.7)	−0.43 (−0.53, −0.34)
Bosnia and Herzegovina	56.7 (35.5–84.9)	7.7 (4.8–11.6)	67.2 (39.2–107.3)	6.1 (3.6–9.8)	−1.18 (−1.31, −1.05)
Botswana	6.5 (2.9–12.5)	7.0 (3.1–13.4)	16.1 (7.1–37.2)	6.6 (2.9–15.3)	−1.35 (−1.91, −0.79)
Brazil	179.9 (144.4–219.1)	1.2 (1.0–1.5)	587.7 (462.9–733.3)	1.4 (1.1–1.7)	0.55 (0.37, 0.72)
Brunei Darussalam	4.9 (3.2–7.3)	31.6 (20.3–46.5)	10.5 (6.9–14.7)	17.6 (11.5–24.6)	−2.00 (−2.16, −1.84)
Bulgaria	174.1 (103.5–260.5)	7.7 (4.6–11.5)	68.3 (39.3–107.5)	2.9 (1.7–4.5)	−3.16 (−3.59, −2.74)
Burkina Faso	373.9 (169.1–738.5)	51.7 (23.4–102.1)	400.1 (189.0–699.7)	26.6 (12.6–46.5)	−2.28 (−2.48, −2.09)
Burundi	16.0 (7.7–32.0)	4.2 (2.0–8.5)	19.4 (9.0–38.0)	2.4 (1.1–4.8)	−2.48 (−2.71, −2.25)
Cabo Verde	6.1 (3.7–10.0)	15.5 (9.4–25.4)	13.2 (7.3–19.5)	17.2 (9.6–25.4)	−0.14 (−0.40, 0.13)
Cambodia	105.1 (48.7–210.0)	14.2 (6.6–28.3)	182.5 (77.1–385.0)	8.4 (3.5–17.7)	−1.86 (−1.97, −1.75)
Cameroon	237.7 (143.7–395.2)	32.1 (19.4–53.4)	356.5 (179.8–706.2)	17.5 (8.8–34.7)	−2.48 (−2.71, −2.24)
Canada	36.6 (21.8–57.7)	0.7 (0.4–1.1)	182.2 (110.9–279.7)	1.5 (0.9–2.3)	2.72 (2.58, 2.85)
Central African Republic	22.0 (8.1–46.3)	11.7 (4.3–24.5)	20.5 (8.0–43.3)	5.7 (2.2–12.1)	−2.82 (−3.04, −2.60)
Chad	154.6 (65.0–297.9)	33.4 (14.0–64.3)	218.4 (119.0–364.9)	23.5 (12.8–39.3)	−1.57 (−1.86, −1.27)
Chile	23.2 (13.9–34.9)	1.4 (0.8–2.1)	106.7 (66.4–162.7)	2.4 (1.5–3.6)	2.10 (1.94, 2.25)
China	30486.9 (25071.8–36796.7)	21.2 (17.5–25.6)	69952.5 (53589.9–90120.5)	18.5 (14.1–23.8)	−0.35 (−0.52, −0.17)
Colombia	70.7 (44.6–104.5)	2.5 (1.5–3.6)	169.3 (100.9–259.4)	1.8 (1.1–2.7)	−1.27 (−1.82, −0.72)
Comoros	2.0 (1.0–3.3)	6.2 (3.1–10.3)	3.6 (1.9–6.2)	4.4 (2.3–7.7)	−1.50 (−1.63, −1.37)
Congo	19.1 (8.4–38.2)	10.7 (4.7–21.5)	21.0 (8.8–43.1)	4.8 (2.0–9.9)	−3.00 (−3.18, −2.82)
Cook Islands	0.4 (0.3–0.6)	19.6 (13.2–28.0)	0.8 (0.5–1.2)	16.8 (10.3–24.9)	−0.71 (−0.81, −0.60)
Costa Rica	8.4 (5.1–13.0)	2.9 (1.8–4.6)	29.8 (17.4–46.9)	3.1 (1.8–4.9)	−0.30 (−0.66, 0.06)
Côte d'Ivoire	89.1 (52.5–134.1)	13.9 (8.2–20.9)	115.3 (60.9–191.2)	6.4 (3.4–10.7)	−3.12 (−3.36, −2.87)
Croatia	31.7 (19.9–45.2)	2.8 (1.8–4.1)	58.3 (35.6–87.1)	3.9 (2.4–5.8)	1.40 (0.93, 1.88)
Cuba	35.8 (23.5–52.1)	2.1 (1.4–3.1)	45.1 (28.7–67.8)	1.3 (0.8–2.0)	−2.03 (−2.54, −1.53)
Cyprus	2.8 (1.6–4.6)	2.0 (1.1–3.3)	6.9 (3.8–11.4)	2.0 (1.1–3.3)	−0.11 (−0.19, −0.03)
Czechia	105.3 (65.4–156.0)	4.4 (2.8–6.6)	80.8 (49.4–122.1)	2.3 (1.4–3.5)	−2.23 (−2.54, −1.93)
Democratic People's Republic of Korea	539.9 (287.3–840.3)	20.3 (10.8–31.6)	711.2 (450.6–1089.2)	12.6 (8.0–19.3)	−1.77 (−1.99, −1.55)
Democratic Republic of the Congo	96.4 (38.9–221.0)	3.6 (1.5–8.4)	142.9 (53.1–352.9)	2.4 (0.9–5.8)	−1.56 (−1.65, −1.46)
Denmark	14.0 (8.4–21.6)	1.1 (0.6–1.7)	44.7 (27.3–70.5)	2.3 (1.4–3.7)	2.27 (1.97, 2.57)
Djibouti	0.9 (0.4–1.6)	4.2 (2.1–7.6)	4.8 (2.4–8.3)	4.6 (2.4–8.0)	0.09 (−0.12, 0.30)
Dominica	0.3 (0.2–0.5)	2.9 (1.7–4.6)	0.5 (0.3–0.8)	3.2 (1.8–5.0)	0.13 (−0.12, 0.37)
Dominican Republic	8.0 (4.8–12.6)	1.3 (0.8–2.1)	29.1 (16.4–46.4)	1.7 (1.0–2.8)	1.13 (0.99, 1.26)
Ecuador	58.7 (41.7–75.8)	6.8 (4.9–8.8)	123.0 (80.1–179.2)	4.4 (2.9–6.5)	−1.32 (−1.93, −0.71)
Egypt	310.5 (149.5–591.8)	6.9 (3.3–13.2)	987.1 (504.1–1647.7)	8.9 (4.6–14.9)	0.57 (0.32, 0.82)
El Salvador	6.1 (3.5–9.6)	1.2 (0.7–2.0)	8.9 (5.0–14.4)	0.9 (0.5–1.4)	−1.22 (−1.60, −0.84)
Equatorial Guinea	0.9 (0.4–2.3)	2.8 (1.1–7.3)	3.2 (1.6–6.1)	4.0 (2.0–7.7)	1.40 (1.02, 1.78)
Eritrea	7.6 (3.9–13.1)	4.3 (2.2–7.4)	15.0 (7.4–27.3)	3.4 (1.7–6.2)	−1.34 (−1.56, −1.12)
Estonia	10.4 (6.2–15.6)	2.9 (1.7–4.4)	13.2 (7.9–19.4)	3.0 (1.8–4.4)	−0.68 (−1.08, −0.27)
Eswatini	5.7 (1.9–11.3)	12.6 (4.3–24.9)	21.3 (6.9–50.3)	23.6 (7.7–55.5)	1.86 (0.49, 3.24)
Ethiopia	122.8 (82.1–181.7)	3.8 (2.6–5.7)	160.8 (97.4–274.7)	2.3 (1.4–4.0)	−2.09 (−2.28, −1.90)
Fiji	4.6 (2.8–7.2)	8.2 (5.0–12.8)	11.4 (6.9–17.0)	8.3 (5.0–12.4)	0.19 (−0.07, 0.46)
Finland	24.9 (15.0–39.4)	2.1 (1.3–3.3)	77.7 (47.8–124.9)	3.9 (2.4–6.2)	2.10 (2.03, 2.18)
France	410.0 (244.3–625.8)	2.9 (1.8–4.5)	891.1 (540.5–1388.5)	4.0 (2.4–6.3)	0.78 (0.54, 1.01)
Gabon	7.8 (3.2–16.4)	7.9 (3.2–16.7)	12.1 (5.9–21.7)	6.8 (3.3–12.2)	−0.67 (−0.83, −0.52)
Gambia	33.4 (22.2–47.5)	60.3 (40.1–85.7)	89.1 (51.9–143.9)	57.6 (33.6–93.0)	−0.58 (−0.75, −0.41)
Georgia	52.5 (32.6–78.9)	4.7 (2.9–7.1)	37.4 (22.6–55.6)	3.6 (2.1–5.3)	−1.75 (−3.07, −0.41)
Germany	317.3 (197.0–492.1)	1.5 (0.9–2.3)	750.5 (456.8–1141.4)	2.4 (1.4–3.6)	1.49 (1.20, 1.79)
Ghana	189.0 (107.0–306.4)	18.5 (10.5–30.0)	315.5 (182.3–499.6)	11.6 (6.7–18.3)	−1.86 (−2.24, −1.48)
Greece	89.5 (64.3–116.3)	3.3 (2.4–4.3)	284.5 (200.4–375.0)	7.7 (5.5–10.2)	2.40 (2.03, 2.77)
Greenland	0.1 (0.1–0.2)	2.5 (1.4–4.1)	0.3 (0.2–0.6)	2.6 (1.4–4.2)	0.16 (0.06, 0.26)
Grenada	0.3 (0.2–0.4)	2.2 (1.4–3.3)	0.6 (0.4–1.0)	3.2 (1.9–4.8)	0.40 (−0.14, 0.93)

Table S2 (*continued*)

Table S2 (continued)

Location	1990		2021		EAPC (95% CI)
	Number (95% UI)	ASIR (95% UI)	Number (95% UI)	ASIR (95% UI)	
Guam	0.8 (0.6–1.1)	6.4 (4.5–8.6)	4.0 (2.8–5.4)	10.5 (7.3–14.4)	2.25 (2.02, 2.49)
Guatemala	26.4 (15.9–40.0)	4.6 (2.8–7.0)	51.4 (30.5–81.1)	2.8 (1.7–4.4)	−1.56 (−3.14, 0.06)
Guinea	254.3 (173.6–360.6)	46.0 (31.4–65.2)	306.4 (179.2–499.5)	33.5 (19.6–54.7)	−0.77 (−1.10, −0.44)
Guinea-Bissau	44.4 (17.0–71.6)	69.6 (26.6–112.2)	35.4 (20.3–53.0)	30.8 (17.7–46.1)	−2.90 (−3.03, −2.76)
Guyana	1.6 (1.0–2.4)	2.6 (1.6–3.8)	2.2 (1.3–3.4)	1.9 (1.1–3.0)	−1.25 (−1.43, −1.07)
Haiti	8.9 (4.0–18.4)	1.7 (0.7–3.4)	16.4 (6.7–35.0)	1.4 (0.6–3.0)	−0.56 (−0.60, −0.52)
Honduras	4.3 (2.0–8.9)	1.3 (0.6–2.7)	21.5 (11.7–37.1)	2.0 (1.1–3.5)	1.38 (1.12, 1.63)
Hungary	64.8 (39.4–95.1)	2.5 (1.5–3.7)	60.3 (36.9–92.8)	1.9 (1.2–2.9)	−1.38 (−2.10, −0.66)
Iceland	0.9 (0.5–1.3)	1.8 (1.1–2.7)	3.1 (1.9–4.8)	3.2 (2.0–5.0)	1.63 (1.30, 1.97)
India	2402.7 (1902.5–2950.0)	3.1 (2.5–3.8)	7769.4 (6146.0–9451.2)	3.9 (3.1–4.7)	0.72 (0.68, 0.76)
Indonesia	489.3 (311.4–778.2)	3.0 (1.9–4.8)	1521.2 (861.7–2508.1)	3.6 (2.1–6.0)	0.69 (0.64, 0.75)
Iran (Islamic Republic of)	182.7 (142.8–240.0)	4.0 (3.1–5.2)	672.2 (557.5–780.2)	5.2 (4.3–6.0)	0.41 (−0.34, 1.16)
Iraq	75.9 (48.1–111.9)	6.0 (3.8–8.9)	250.7 (146.4–373.0)	6.5 (3.8–9.6)	0.28 (−0.02, 0.58)
Ireland	8.0 (4.9–12.3)	1.2 (0.7–1.8)	26.5 (15.6–42.0)	2.0 (1.2–3.2)	2.48 (2.24, 2.72)
Israel	14.1 (8.7–21.5)	1.7 (1.1–2.7)	33.1 (19.9–51.0)	1.7 (1.0–2.6)	−0.34 (−0.45, −0.23)
Italy	557.2 (432.4–701.8)	3.7 (2.8–4.6)	558.6 (432.9–700.6)	2.5 (1.9–3.1)	−1.58 (−1.88, −1.28)
Jamaica	3.6 (2.2–5.3)	1.2 (0.8–1.8)	7.7 (4.5–11.9)	1.4 (0.8–2.2)	0.39 (0.14, 0.65)
Japan	2520.2 (2034.3–3030.4)	8.5 (6.9–10.2)	3611.1 (2783.6–4498.3)	6.9 (5.3–8.6)	−1.54 (−1.97, −1.11)
Jordan	6.9 (3.9–11.6)	3.2 (1.8–5.4)	23.7 (14.1–36.7)	1.9 (1.1–2.9)	−2.21 (−2.40, −2.01)
Kazakhstan	222.9 (135.5–329.4)	10.7 (6.5–15.8)	128.5 (74.6–198.2)	4.0 (2.4–6.2)	−4.19 (−4.62, −3.75)
Kenya	24.8 (16.3–39.8)	1.9 (1.2–3.0)	102.5 (70.3–147.2)	2.7 (1.9–3.9)	1.12 (0.82, 1.43)
Kiribati	0.7 (0.5–1.0)	12.0 (7.9–17.0)	1.2 (0.8–1.9)	9.6 (6.0–15.1)	−1.09 (−1.38, −0.80)
Kuwait	6.1 (4.1–8.5)	6.7 (4.5–9.3)	6.3 (4.0–9.2)	1.3 (0.9–2.0)	−4.41 (−4.80, −4.01)
Kyrgyzstan	31.1 (19.2–47.7)	6.0 (3.7–9.3)	28.2 (16.2–43.9)	3.3 (1.9–5.2)	−1.86 (−2.71, −0.99)
Lao People's Democratic Republic	57.3 (32.6–88.5)	16.7 (9.5–25.8)	74.9 (43.1–120.4)	9.7 (5.6–15.6)	−2.04 (−2.18, −1.90)
Latvia	15.0 (9.2–21.9)	2.4 (1.5–3.5)	15.3 (9.5–23.3)	2.3 (1.4–3.5)	−1.00 (−1.35, −0.65)
Lebanon	24.6 (16.3–35.1)	6.5 (4.3–9.3)	43.3 (29.3–61.7)	4.4 (3.0–6.3)	−1.05 (−1.19, −0.92)
Lesotho	12.0 (3.7–25.7)	8.6 (2.7–18.4)	35.1 (11.9–88.5)	19.4 (6.6–49.0)	2.12 (1.27, 2.97)
Liberia	88.7 (42.8–139.7)	47.1 (22.7–74.1)	90.7 (54.5–140.0)	27.5 (16.5–42.4)	−1.65 (−1.86, −1.44)
Libya	21.6 (12.1–34.1)	6.9 (3.9–11.0)	70.7 (39.7–111.9)	8.4 (4.7–13.4)	0.74 (0.62, 0.85)
Lithuania	15.4 (9.5–22.4)	1.9 (1.2–2.8)	27.6 (16.8–41.4)	2.9 (1.7–4.3)	0.44 (0.12, 0.76)
Luxembourg	1.8 (1.1–2.8)	1.9 (1.2–3.0)	4.2 (2.6–6.4)	2.3 (1.4–3.6)	0.68 (0.50, 0.87)
Madagascar	29.0 (15.2–51.3)	3.4 (1.8–6.1)	48.2 (25.8–84.2)	2.6 (1.4–4.6)	−1.32 (−1.45, −1.18)
Malawi	27.2 (15.3–45.6)	4.3 (2.4–7.3)	59.4 (33.0–95.1)	5.1 (2.8–8.1)	−0.49 (−1.17, 0.20)
Malaysia	145.7 (100.5–194.3)	9.9 (6.8–13.2)	597.0 (397.4–836.8)	12.2 (8.1–17.1)	0.66 (0.37, 0.95)
Maldives	2.0 (1.2–3.0)	13.1 (8.1–19.7)	4.1 (2.5–6.2)	7.6 (4.7–11.5)	−2.00 (−2.11, −1.90)
Mali	352.4 (240.4–498.1)	52.7 (36.0–74.5)	702.5 (443.2–1026.2)	48.5 (30.6–70.9)	−0.28 (−0.38, −0.17)
Malta	1.0 (0.6–1.6)	1.4 (0.9–2.2)	3.1 (1.9–5.0)	2.0 (1.2–3.2)	1.07 (0.99, 1.16)
Marshall Islands	0.2 (0.1–0.3)	6.3 (3.4–11.5)	0.4 (0.2–0.7)	6.5 (3.2–12.5)	0.05 (−0.08, 0.18)
Mauritania	135.3 (28.3–271.8)	81.5 (17.0–163.7)	129.2 (57.4–211.5)	36.0 (16.0–59.0)	−3.12 (−3.29, −2.95)
Mauritius	8.5 (5.8–11.5)	7.0 (4.8–9.4)	3.7 (2.4–5.1)	1.1 (0.7–1.5)	−1.82 (−3.63, 0.03)
Mexico	53.5 (41.3–68.4)	0.8 (0.6–1.0)	209.2 (156.9–272.9)	1.0 (0.7–1.3)	0.61 (0.23, 1.00)
Micronesia (Federated States of)	0.7 (0.4–1.2)	9.3 (5.4–14.9)	1.1 (0.6–2.1)	8.7 (4.6–15.7)	−0.48 (−0.63, −0.34)
Monaco	0.3 (0.2–0.5)	2.7 (1.4–4.5)	0.8 (0.4–1.3)	4.9 (2.8–8.1)	2.11 (1.58, 2.65)
Mongolia	120.2 (70.2–191.5)	69.4 (40.5–110.5)	262.8 (151.2–416.2)	66.6 (38.3–105.4)	−0.19 (−0.45, 0.06)
Montenegro	6.3 (3.7–9.6)	5.7 (3.4–8.8)	10.9 (6.3–17.2)	6.2 (3.6–9.9)	0.50 (0.28, 0.73)
Morocco	15.2 (9.1–22.8)	0.6 (0.4–1.0)	45.2 (25.6–70.5)	0.8 (0.4–1.2)	0.17 (0.07, 0.27)
Mozambique	294.9 (158.1–486.4)	30.2 (16.2–49.8)	588.1 (272.1–1358.5)	32.9 (15.2–75.9)	0.25 (−0.16, 0.66)
Myanmar	218.7 (97.1–450.1)	5.6 (2.5–11.5)	389.0 (182.1–808.1)	4.6 (2.2–9.6)	−0.98 (−1.10, −0.87)
Namibia	3.0 (1.3–5.6)	2.7 (1.2–5.1)	8.2 (4.9–13.3)	3.6 (2.2–5.9)	0.57 (−0.12, 1.25)
Nauru	0.1 (0.1–0.1)	12.3 (7.9–17.5)	0.1 (0.0–0.1)	9.0 (5.1–14.4)	−1.49 (−1.69, −1.30)
Nepal	30.4 (17.3–49.1)	2.0 (1.1–3.2)	129.0 (67.8–210.8)	3.3 (1.7–5.3)	1.95 (1.67, 2.23)
Netherlands	26.5 (15.6–40.6)	0.8 (0.5–1.2)	97.0 (59.7–146.4)	1.7 (1.0–2.5)	2.71 (2.48, 2.94)
New Zealand	8.9 (6.8–11.3)	1.4 (1.0–1.7)	37.7 (28.9–48.9)	2.6 (2.0–3.4)	2.02 (1.81, 2.23)
Nicaragua	4.9 (2.8–8.0)	2.0 (1.1–3.2)	12.8 (7.1–21.0)	1.6 (0.9–2.6)	−0.51 (−0.81, −0.21)
Niger	158.1 (71.6–291.3)	36.0 (16.3–66.3)	191.4 (105.3–324.8)	13.7 (7.6–23.3)	−3.27 (−3.35, −3.18)
Nigeria	655.1 (287.9–1262.6)	9.0 (4.0–17.3)	930.6 (619.0–1397.5)	6.2 (4.1–9.3)	−1.50 (−1.68, −1.31)
Niue	0.0 (0.0–0.0)	8.0 (4.9–12.1)	0.0 (0.0–0.1)	8.8 (5.1–14.4)	0.06 (−0.08, 0.19)
North Macedonia	32.0 (19.5–47.6)	9.7 (5.9–14.5)	46.5 (27.2–72.1)	7.8 (4.6–12.2)	−0.97 (−1.11, −0.84)
Northern Mariana Islands	0.2 (0.1–0.3)	9.4 (6.1–13.3)	1.3 (0.9–1.8)	13.6 (9.4–18.9)	1.12 (0.94, 1.30)
Norway	11.8 (9.3–14.6)	1.1 (0.9–1.3)	35.6 (27.8–44.0)	2.2 (1.7–2.7)	2.15 (1.89, 2.42)
Oman	5.4 (3.0–9.0)	5.4 (3.0–9.0)	16.3 (9.8–25.0)	5.2 (3.1–8.0)	0.10 (−0.12, 0.33)
Pakistan	131.9 (88.2–191.8)	1.4 (1.0–2.1)	344.7 (230.1–489.9)	1.7 (1.2–2.5)	0.31 (0.11, 0.52)
Palau	0.3 (0.2–0.4)	15.7 (10.0–25.2)	0.6 (0.3–0.9)	13.8 (7.9–22.2)	−0.68 (−0.83, −0.52)
Palestine	15.0 (8.9–23.1)	10.3 (6.1–15.9)	31.7 (19.5–48.1)	7.4 (4.5–11.2)	−1.44 (−1.59, −1.29)
Panama	6.1 (3.8–9.3)	2.5 (1.6–3.8)	12.6 (7.3–20.2)	1.7 (1.0–2.7)	−0.89 (−1.53, −0.25)
Papua New Guinea	22.3 (10.0–58.8)	7.5 (3.4–19.9)	38.5 (16.1–104.0)	4.7 (2.0–12.7)	−1.79 (−1.91, −1.67)
Paraguay	4.6 (2.7–7.1)	1.3 (0.7–2.0)	21.5 (11.8–34.9)	2.2 (1.2–3.5)	2.62 (2.19, 3.05)
Peru	62.9 (40.1–88.7)	3.2 (2.0–4.5)	202.8 (123.2–314.9)	3.6 (2.2–5.6)	0.12 (−0.08, 0.32)
Philippines	484.9 (313.8–696.2)	10.2 (6.6–14.6)	1199.5 (909.5–1547.1)	8.6 (6.5–11.1)	−0.75 (−0.86, −0.64)
Poland	42.6 (33.5–51.6)	0.6 (0.4–0.7)	183.3 (143.1–230.0)	1.5 (1.2–1.9)	3.91 (3.35, 4.47)
Portugal	27.6 (16.7–41.6)	1.1 (0.7–1.7)	105.7 (64.2–162.9)	2.7 (1.7–4.2)	2.40 (2.07, 2.72)

Table S2 (continued)

Table S2 (continued)

Location	1990		2021		EAPC (95% CI)
	Number (95% UI)	ASIR (95% UI)	Number (95% UI)	ASIR (95% UI)	
Puerto Rico	17.3 (10.7–26.4)	2.8 (1.8–4.3)	32.9 (20.0–50.3)	2.8 (1.7–4.3)	−0.63 (−1.09, −0.16)
Qatar	2.7 (1.6–4.2)	16.4 (9.7–25.5)	24.8 (13.9–38.8)	16.2 (9.1–25.3)	−0.88 (−1.30, −0.44)
Republic of Korea	4368.0 (3005.5–5806.7)	87.8 (60.4–116.7)	7982.0 (5951.9–10452.2)	47.7 (35.6–62.5)	−1.79 (−1.92, −1.66)
Republic of Moldova	19.8 (12.3–29.5)	2.6 (1.6–3.8)	23.6 (14.3–34.8)	2.2 (1.4–3.3)	−1.35 (−2.37, −0.32)
Romania	66.5 (40.9–97.4)	1.3 (0.8–1.9)	169.9 (101.3–261.2)	2.8 (1.7–4.3)	2.42 (2.09, 2.76)
Russian Federation	459.8 (361.8–569.5)	1.5 (1.1–1.8)	855.8 (666.5–1063.6)	2.0 (1.6–2.5)	1.39 (1.09, 1.69)
Rwanda	28.4 (15.2–48.0)	6.1 (3.2–10.2)	37.6 (20.7–68.6)	3.6 (2.0–6.5)	−2.74 (−3.08, −2.40)
Saint Kitts and Nevis	0.3 (0.2–0.4)	4.0 (2.5–6.1)	0.4 (0.3–0.7)	3.4 (2.0–5.1)	−1.52 (−2.08, −0.96)
Saint Lucia	0.3 (0.2–0.5)	2.1 (1.3–3.2)	0.5 (0.3–0.8)	1.2 (0.8–1.9)	−2.28 (−2.61, −1.95)
Saint Vincent and the Grenadines	0.4 (0.3–0.6)	3.6 (2.3–5.4)	0.6 (0.4–0.9)	2.3 (1.5–3.4)	−1.87 (−2.22, −1.53)
Samoa	1.6 (1.1–2.3)	11.3 (7.5–15.8)	2.3 (1.5–3.2)	9.2 (6.1–13.1)	−0.95 (−1.08, −0.82)
San Marino	0.1 (0.0–0.1)	1.3 (0.8–2.2)	0.2 (0.1–0.3)	1.4 (0.7–2.5)	0.26 (0.15, 0.38)
Sao Tome and Principe	0.6 (0.4–0.8)	5.0 (3.5–6.9)	0.6 (0.3–1.2)	3.4 (1.8–6.4)	−1.38 (−1.77, −0.98)
Saudi Arabia	113.0 (66.0–183.7)	12.7 (7.4–20.6)	258.2 (155.8–388.9)	8.6 (5.2–12.9)	−2.02 (−2.33, −1.71)
Senegal	173.1 (92.9–243.0)	32.8 (17.6–46.0)	218.9 (139.8–318.5)	17.0 (10.8–24.7)	−2.46 (−2.57, −2.35)
Serbia	91.5 (53.0–142.0)	4.4 (2.5–6.8)	112.4 (62.5–185.7)	4.0 (2.2–6.6)	−0.90 (−1.18, −0.62)
Seychelles	1.3 (0.9–1.9)	14.0 (9.3–20.2)	1.3 (0.8–1.8)	6.1 (3.8–8.8)	−2.43 (−2.99, −1.86)
Sierra Leone	127.3 (45.4–223.6)	38.4 (13.7–67.4)	89.7 (56.3–135.1)	14.8 (9.3–22.4)	−3.17 (−3.45, −2.90)
Singapore	94.6 (76.1–114.4)	26.1 (21.0–31.6)	323.4 (251.1–398.2)	21.3 (16.5–26.2)	−0.83 (−1.19, −0.47)
Slovakia	53.5 (32.1–81.8)	5.2 (3.1–7.9)	57.2 (30.4–98.1)	3.5 (1.9–6.0)	−1.92 (−2.17, −1.67)
Slovenia	17.8 (11.6–25.6)	4.1 (2.7–5.9)	37.7 (22.8–54.4)	5.2 (3.1–7.4)	0.66 (0.59, 0.74)
Solomon Islands	3.1 (1.0–7.2)	13.8 (4.4–32.0)	4.5 (2.4–8.1)	8.3 (4.5–15.0)	−1.77 (−1.92, −1.62)
Somalia	42.0 (16.7–81.6)	11.7 (4.6–22.7)	92.1 (36.6–185.0)	9.8 (3.9–19.6)	−0.85 (−0.95, −0.74)
South Africa	126.6 (68.0–232.1)	3.8 (2.0–6.9)	528.8 (415.1–668.8)	6.7 (5.3–8.5)	1.20 (0.50, 1.91)
South Sudan	24.5 (11.7–42.8)	5.9 (2.8–10.3)	46.1 (24.5–80.5)	7.4 (3.9–12.9)	0.48 (0.31, 0.64)
Spain	164.6 (96.8–258.5)	1.7 (1.0–2.7)	367.2 (213.1–573.9)	2.4 (1.4–3.7)	0.55 (0.19, 0.92)
Sri Lanka	59.0 (39.7–82.9)	3.3 (2.2–4.7)	104.5 (54.7–178.0)	2.2 (1.1–3.7)	−1.86 (−2.22, −1.50)
Sudan	62.1 (26.6–118.6)	4.2 (1.8–8.0)	131.2 (73.3–207.7)	4.2 (2.4–6.7)	0.17 (−0.06, 0.40)
Suriname	1.0 (0.6–1.4)	2.2 (1.4–3.3)	2.8 (1.5–4.4)	2.5 (1.4–3.9)	0.20 (0.02, 0.39)
Sweden	20.2 (13.8–29.3)	0.9 (0.6–1.2)	32.4 (21.6–47.7)	1.0 (0.6–1.4)	1.06 (0.12, 2.00)
Switzerland	45.0 (27.3–68.6)	2.7 (1.6–4.1)	89.8 (54.7–135.9)	3.1 (1.9–4.6)	0.60 (0.40, 0.81)
Syrian Arab Republic	79.9 (46.3–130.5)	9.1 (5.2–14.8)	152.6 (85.6–246.8)	6.5 (3.6–10.4)	−1.62 (−1.97, −1.26)
Taiwan (Province of China)	387.7 (293.4–494.0)	14.0 (10.6–17.8)	1547.5 (1136.6–2017.2)	20.6 (15.1–26.8)	2.20 (1.53, 2.87)
Tajikistan	16.1 (8.3–30.3)	3.4 (1.8–6.5)	27.4 (12.5–51.6)	2.7 (1.2–5.0)	−0.95 (−1.32, −0.58)
Thailand	1463.8 (961.0–2091.2)	24.7 (16.2–35.2)	2945.1 (1757.6–4474.0)	15.2 (9.0–23.0)	−2.19 (−2.48, −1.90)
Timor-Leste	2.4 (1.4–3.9)	5.5 (3.1–8.9)	6.4 (3.5–11.3)	4.5 (2.4–7.9)	−0.59 (−0.72, −0.45)
Togo	32.7 (20.4–50.8)	16.8 (10.5–26.0)	70.8 (38.0–126.9)	11.3 (6.1–20.3)	−1.63 (−1.84, −1.42)
Tokelau	0.0 (0.0–0.0)	6.9 (3.8–12.5)	0.0 (0.0–0.0)	9.2 (5.2–15.0)	0.61 (0.35, 0.87)
Tonga	4.2 (2.7–6.3)	44.0 (28.4–66.8)	5.2 (3.3–7.7)	38.9 (24.8–57.2)	−0.79 (−1.03, −0.54)
Trinidad and Tobago	3.1 (1.9–4.5)	2.2 (1.4–3.3)	6.5 (3.8–10.4)	1.9 (1.1–3.0)	−1.04 (−1.24, −0.83)
Tunisia	16.5 (10.0–24.9)	1.9 (1.1–2.9)	49.6 (26.2–84.1)	2.1 (1.1–3.6)	−0.12 (−0.32, 0.09)
Türkiye	355.7 (243.9–491.0)	6.0 (4.1–8.2)	871.6 (573.1–1253.1)	5.3 (3.5–7.6)	−0.37 (−0.61, −0.12)
Turkmenistan	18.8 (11.4–28.0)	5.8 (3.5–8.6)	33.8 (18.2–56.6)	4.8 (2.6–8.0)	−0.25 (−0.52, 0.02)
Tuvalu	0.1 (0.1–0.2)	8.8 (5.4–14.2)	0.2 (0.1–0.2)	8.3 (4.9–13.6)	−0.41 (−0.53, −0.28)
Uganda	96.6 (54.4–157.3)	9.2 (5.2–15.0)	145.8 (80.7–236.2)	6.1 (3.4–10.0)	−2.05 (−2.43, −1.66)
Ukraine	204.6 (151.7–272.5)	1.6 (1.2–2.2)	169.0 (113.6–247.6)	1.2 (0.8–1.8)	−2.21 (−2.97, −1.45)
United Arab Emirates	8.0 (4.5–12.2)	14.2 (8.0–21.7)	90.0 (51.7–144.9)	12.5 (7.2–20.2)	−0.67 (−0.88, −0.45)
United Kingdom	187.5 (144.2–236.6)	1.3 (1.0–1.6)	813.6 (625.1–1026.7)	3.9 (3.0–4.9)	4.61 (4.33, 4.88)
United Republic of Tanzania	115.5 (63.7–183.7)	6.4 (3.5–10.2)	173.2 (94.6–297.2)	4.2 (2.3–7.2)	−1.92 (−2.12, −1.73)
United States of America	650.5 (527.6–774.3)	1.2 (1.0–1.5)	2765.1 (2223.1–3326.5)	2.8 (2.2–3.3)	2.74 (2.55, 2.94)
United States Virgin Islands	0.3 (0.1–0.4)	1.8 (1.0–2.9)	0.8 (0.4–1.4)	2.4 (1.3–4.2)	1.18 (0.85, 1.51)
Uruguay	6.0 (3.6–9.2)	0.9 (0.5–1.4)	18.2 (10.9–28.2)	2.0 (1.2–3.1)	2.95 (2.71, 3.19)
Uzbekistan	61.1 (33.7–97.1)	3.1 (1.7–5.0)	182.7 (102.7–295.4)	3.9 (2.2–6.4)	0.33 (0.02, 0.65)
Vanuatu	0.9 (0.5–1.9)	9.4 (5.3–18.9)	2.3 (1.3–4.0)	7.9 (4.5–13.8)	−0.45 (−0.61, −0.30)
Venezuela (Bolivarian Republic of)	54.0 (33.0–82.8)	3.4 (2.1–5.3)	70.3 (39.1–115.0)	1.3 (0.7–2.2)	−2.77 (−3.82, −1.71)
Viet Nam	1873.2 (1130.9–2735.2)	26.9 (16.2–39.2)	3575.8 (2051.8–5724.5)	20.5 (11.7–32.8)	−0.90 (−1.02, −0.78)
Yemen	32.0 (11.5–65.7)	4.0 (1.4–8.2)	54.7 (25.6–102.7)	2.4 (1.1–4.6)	−1.88 (−1.99, −1.76)
Zambia	48.7 (27.2–77.6)	10.6 (5.9–16.9)	46.9 (17.2–113.0)	4.3 (1.6–10.5)	−4.48 (−5.24, −3.71)
Zimbabwe	110.5 (58.7–185.9)	16.7 (8.9–28.0)	163.1 (90.2–278.3)	14.7 (8.1–25.1)	−1.60 (−2.24, −0.96)

Table S3 Mortality of liver cancer attributable to hepatitis B virus between 1990 and 2021 in adults 55 years and older at the Global and Regional Level

Location	1990		2021		EAPC (95% CI)
	Number (95% UI)	ASMR (95% UI)	Number (95% UI)	ASMR (95% UI)	
Afghanistan	105.1 (56.9–179.2)	8.6 (4.7–14.7)	101.8 (58.0–161.6)	8.3 (4.7–13.2)	−0.09 (−0.27, 0.09)
Albania	55.8 (33.2–86.8)	16.1 (9.6–25.0)	71.3 (38.6–127.0)	9.1 (4.9–16.1)	−2.41 (−3.02, −1.79)
Algeria	40.8 (26.3–61.6)	1.9 (1.3–2.9)	140.4 (85.4–217.9)	2.3 (1.4–3.6)	0.39 (0.34, 0.44)
American Samoa	0.3 (0.2–0.4)	8.4 (5.4–12.2)	1.0 (0.7–1.4)	11.7 (7.8–16.4)	1.16 (0.77, 1.55)
Andorra	0.6 (0.3–1.1)	6.3 (3.3–10.7)	1.4 (0.8–2.5)	5.3 (3.0–9.5)	−0.54 (−0.78, −0.29)
Angola	83.1 (9.7–236.8)	13.3 (1.6–38.0)	132.2 (27.5–355.1)	6.8 (1.4–18.4)	−2.58 (−2.75, −2.41)
Antigua and Barbuda	0.3 (0.2–0.5)	4.0 (2.6–5.7)	0.5 (0.3–0.7)	2.7 (1.7–3.8)	−1.98 (−2.41, −1.55)
Argentina	26.1 (15.9–39.7)	0.5 (0.3–0.7)	87.2 (55.0–131.3)	0.9 (0.6–1.4)	2.86 (2.41, 3.31)
Armenia	38.0 (23.5–56.1)	7.8 (4.8–11.5)	45.8 (28.1–69.8)	5.8 (3.6–8.9)	−1.35 (−2.09, −0.60)
Australia	38.0 (22.8–61.3)	1.2 (0.7–1.9)	210.1 (128.8–325.5)	2.8 (1.7–4.4)	2.53 (2.28, 2.78)
Austria	16.8 (10.1–26.8)	0.9 (0.5–1.4)	42.1 (24.6–65.9)	1.4 (0.8–2.2)	1.60 (1.23, 1.96)
Azerbaijan	56.5 (27.2–95.1)	6.5 (3.1–10.9)	138.3 (61.4–260.9)	7.2 (3.2–13.6)	0.06 (−0.22, 0.34)
Bahamas	0.9 (0.5–1.3)	3.7 (2.2–5.3)	2.1 (1.2–3.1)	2.9 (1.7–4.3)	−1.08 (−1.37, −0.80)
Bahrain	3.4 (2.0–5.0)	11.9 (7.3–17.8)	8.8 (5.0–14.9)	5.4 (3.1–9.2)	−4.04 (−4.63, −3.45)
Bangladesh	233.5 (150.0–343.9)	3.1 (2.0–4.5)	636.4 (372.9–1007.6)	2.7 (1.6–4.3)	−0.38 (−0.66, −0.09)
Barbados	1.1 (0.7–1.7)	2.4 (1.6–3.6)	2.0 (1.2–3.1)	2.2 (1.3–3.4)	−1.07 (−1.33, −0.81)
Belarus	56.0 (34.4–83.2)	2.4 (1.5–3.6)	68.6 (40.0–109.1)	2.4 (1.4–3.8)	−0.62 (−0.79, −0.45)
Belgium	39.2 (23.7–60.7)	1.5 (0.9–2.3)	73.9 (45.4–116.8)	2.0 (1.2–3.1)	0.81 (0.41, 1.22)
Belize	0.3 (0.2–0.5)	2.1 (1.3–3.1)	1.1 (0.7–1.6)	2.2 (1.4–3.3)	−0.68 (−1.29, −0.07)
Benin	0.3 (0.2–0.5)	2.1 (1.3–3.1)	1.1 (0.7–1.6)	2.2 (1.4–3.3)	−2.71 (−3.00, −2.41)
Bermuda	0.3 (0.2–0.5)	2.9 (1.9–4.4)	0.3 (0.2–0.5)	1.4 (0.8–2.0)	−2.71 (−3.12, −2.31)
Bhutan	1.7 (0.8–2.8)	4.2 (2.1–7.1)	4.5 (2.5–7.7)	4.5 (2.5–7.7)	0.17 (0.06, 0.28)
Bolivia (Plurinational State of)	32.1 (19.6–47.8)	6.1 (3.7–9.1)	90.3 (52.2–148.1)	5.8 (3.4–9.6)	−0.38 (−0.47, −0.29)
Bosnia and Herzegovina	59.6 (37.9–88.3)	8.1 (5.2–12.0)	71.5 (41.8–114.2)	6.5 (3.8–10.4)	−1.16 (−1.29, −1.04)
Botswana	6.9 (3.2–13.2)	7.4 (3.4–14.2)	17.1 (7.6–38.9)	7.1 (3.1–16.0)	−1.31 (−1.90, −0.71)
Brazil	192.4 (154.7–232.7)	1.3 (1.0–1.6)	623.4 (495.5–772.9)	1.4 (1.1–1.8)	0.61 (0.41, 0.80)
Brunei Darussalam	5.1 (3.3–7.6)	32.7 (21.1–48.7)	10.4 (6.8–14.6)	17.4 (11.4–24.4)	−2.17 (−2.38, −1.97)
Bulgaria	184.7 (110.4–276.2)	8.2 (4.9–12.2)	73.3 (42.6–115.7)	3.1 (1.8–4.9)	−3.06 (−3.59, −2.53)
Burkina Faso	398.6 (179.9–781.9)	55.1 (24.9–108.1)	429.5 (205.4–769.7)	28.6 (13.7–51.2)	−2.26 (−2.46, −2.05)
Burundi	17.0 (8.3–34.5)	4.5 (2.2–9.2)	20.4 (9.7–40.1)	2.6 (1.2–5.0)	−2.48 (−2.71, −2.25)
Cabo Verde	6.9 (4.2–11.3)	17.5 (10.5–28.7)	14.4 (8.0–21.5)	18.8 (10.4–28.0)	−0.24 (−0.52, 0.05)
Cambodia	110.6 (51.9–222.5)	14.9 (7.0–30.0)	191.3 (81.2–399.3)	8.8 (3.7–18.4)	−1.87 (−2.00, −1.74)
Cameroon	253.3 (154.9–422.4)	34.2 (20.9–57.0)	380.3 (192.8–750.3)	18.7 (9.5–36.9)	−2.45 (−2.68, −2.21)
Canada	36.0 (21.6–56.0)	0.7 (0.4–1.0)	167.9 (104.6–257.6)	1.4 (0.9–2.1)	2.62 (2.45, 2.79)
Central African Republic	22.9 (8.5–48.6)	12.1 (4.5–25.7)	21.2 (8.3–44.7)	5.9 (2.3–12.5)	−2.85 (−3.05, −2.64)
Chad	167.0 (70.5–320.5)	36.0 (15.2–69.2)	234.3 (128.9–392.1)	25.2 (13.9–42.2)	−1.55 (−1.85, −1.25)
Chile	24.7 (14.9–36.9)	1.5 (0.9–2.2)	109.9 (69.5–168.3)	2.5 (1.6–3.8)	2.04 (1.87, 2.21)
China	31584.9 (25930.0–37972.5)	22.0 (18.1–26.5)	64200.3 (49246.0–82546.5)	16.9 (13.0–21.8)	−0.77 (−0.98, −0.55)
Colombia	76.1 (48.7–111.8)	2.6 (1.7–3.9)	182.5 (110.2–277.5)	1.9 (1.2–2.9)	−1.26 (−1.79, −0.73)
Comoros	2.1 (1.1–3.6)	6.6 (3.4–11.0)	3.8 (2.0–6.7)	4.7 (2.5–8.3)	−1.45 (−1.58, −1.32)
Congo	20.1 (8.9–40.0)	11.3 (5.0–22.5)	22.0 (9.3–43.9)	5.1 (2.1–10.1)	−2.99 (−3.17, −2.81)
Cook Islands	0.4 (0.3–0.6)	20.6 (13.9–29.0)	0.8 (0.5–1.2)	16.8 (10.4–24.7)	−0.80 (−0.92, −0.67)
Costa Rica	9.0 (5.6–13.9)	3.2 (2.0–4.9)	31.5 (18.4–48.8)	3.3 (1.9–5.1)	−0.19 (−0.57, 0.20)
Côte d'Ivoire	93.6 (56.2–140.5)	14.6 (8.8–21.9)	121.8 (64.6–203.4)	6.8 (3.6–11.3)	−3.05 (−3.30, −2.80)
Croatia	32.9 (21.0–46.7)	3.0 (1.9–4.2)	56.6 (34.0–84.8)	3.8 (2.3–5.7)	1.28 (0.81, 1.76)
Cuba	38.9 (25.7–56.4)	2.3 (1.5–3.3)	47.4 (31.0–71.1)	1.4 (0.9–2.1)	−2.23 (−2.82, −1.63)
Cyprus	3.0 (1.7–4.8)	2.1 (1.2–3.5)	6.7 (3.8–11.1)	1.9 (1.1–3.2)	−0.43 (−0.55, −0.31)
Czechia	112.5 (70.9–167.6)	4.8 (3.0–7.1)	84.2 (51.7–126.7)	2.4 (1.5–3.6)	−2.42 (−2.72, −2.11)
Democratic People's Republic of Korea	561.5 (296.8–875.0)	21.1 (11.2–32.9)	727.6 (460.8–1101.2)	12.9 (8.2–19.5)	−1.79 (−2.00, −1.58)
Democratic Republic of the Congo	101.3 (40.7–231.5)	3.8 (1.5–8.8)	150.7 (56.5–369.9)	2.5 (0.9–6.1)	−1.57 (−1.67, −1.47)
Denmark	11.8 (7.2–17.9)	0.9 (0.6–1.4)	39.6 (24.1–62.4)	2.1 (1.3–3.2)	2.63 (2.26, 3.01)
Djibouti	0.9 (0.5–1.7)	4.4 (2.2–7.9)	5.0 (2.6–8.8)	4.8 (2.5–8.5)	0.12 (−0.10, 0.35)
Dominica	0.3 (0.2–0.5)	3.2 (1.9–5.1)	0.5 (0.3–0.8)	3.4 (2.0–5.3)	0.15 (−0.12, 0.42)
Dominican Republic	8.6 (5.3–13.4)	1.4 (0.9–2.2)	31.3 (17.7–50.3)	1.9 (1.1–3.0)	1.08 (0.94, 1.21)
Ecuador	64.4 (46.2–83.3)	7.5 (5.4–9.7)	135.3 (88.6–198.9)	4.9 (3.2–7.2)	−1.54 (−2.18, −0.89)
Egypt	325.2 (157.5–620.5)	7.3 (3.5–13.9)	1015.5 (519.4–1701.1)	9.2 (4.7–15.4)	0.46 (0.18, 0.74)
El Salvador	6.5 (3.8–10.4)	1.3 (0.8–2.1)	9.6 (5.4–15.5)	0.9 (0.5–1.5)	−1.34 (−1.75, −0.93)
Equatorial Guinea	0.9 (0.4–2.5)	2.9 (1.2–7.7)	3.4 (1.7–6.6)	4.3 (2.1–8.3)	1.47 (1.10, 1.85)
Eritrea	7.9 (4.0–13.4)	4.5 (2.3–7.6)	15.8 (7.7–28.8)	3.6 (1.7–6.5)	−1.26 (−1.51, −1.01)
Estonia	11.0 (6.6–16.3)	3.1 (1.8–4.6)	13.9 (8.3–20.5)	3.2 (1.9–4.7)	−0.45 (−0.86, −0.04)
Eswatini	6.0 (2.0–12.2)	13.3 (4.5–26.9)	22.5 (7.4–54.3)	24.9 (8.1–60.0)	1.89 (0.50, 3.31)
Ethiopia	129.4 (86.3–193.0)	4.0 (2.7–6.0)	172.8 (104.7–293.5)	2.5 (1.5–4.3)	−2.00 (−2.20, −1.81)
Fiji	4.9 (2.9–7.6)	8.6 (5.2–13.5)	11.8 (7.2–17.3)	8.6 (5.2–12.7)	0.24 (−0.06, 0.55)
Finland	22.7 (13.8–35.5)	1.9 (1.2–3.0)	60.8 (37.6–96.1)	3.0 (1.9–4.8)	1.59 (1.38, 1.79)
France	419.7 (252.1–632.8)	3.0 (1.8–4.5)	786.6 (481.5–1229.5)	3.6 (2.2–5.6)	0.19 (−0.10, 0.49)
Gabon	8.2 (3.3–17.3)	8.4 (3.4–17.7)	12.7 (6.2–22.5)	7.1 (3.5–12.6)	−0.67 (−0.85, −0.49)
Gambia	35.3 (23.6–50.2)	63.8 (42.6–90.7)	94.8 (54.9–151.9)	61.3 (35.5–98.3)	−0.49 (−0.68, −0.30)
Georgia	54.9 (34.3–82.4)	4.9 (3.1–7.4)	39.4 (23.8–58.6)	3.8 (2.3–5.6)	−1.66 (−3.01, −0.30)
Germany	319.6 (198.9–492.4)	1.5 (0.9–2.3)	649.6 (400.8–990.5)	2.1 (1.3–3.1)	1.11 (0.88, 1.34)
Ghana	203.7 (116.9–329.0)	19.9 (11.5–32.2)	340.7 (196.4–539.6)	12.5 (7.2–19.8)	−1.88 (−2.27, −1.50)
Greece	92.8 (67.2–120.5)	3.5 (2.5–4.5)	291.3 (206.8–383.6)	7.9 (5.6–10.4)	2.55 (2.18, 2.93)
Greenland	0.1 (0.1–0.2)	2.6 (1.4–4.2)	0.4 (0.2–0.6)	2.6 (1.4–4.3)	0.16 (0.03, 0.30)
Grenada	0.3 (0.2–0.4)	2.4 (1.5–3.7)	0.7 (0.4–1.0)	3.4 (2.1–5.2)	0.31 (−0.25, 0.87)
Guam	0.9 (0.6–1.1)	6.6 (4.6–8.8)	4.0 (2.8–5.5)	10.7 (7.4–14.5)	2.21 (1.97, 2.44)
Guatemala	28.3 (17.2–43.2)	4.9 (3.0–7.5)	55.6 (33.0–88.0)	3.0 (1.8–4.8)	−2.05 (−3.96, −0.11)
Guinea	273.5 (187.6–383.6)	49.4 (33.9–69.3)	328.3 (194.1–537.1)	35.9 (21.2–58.8)	−0.74 (−1.07, −0.40)
Guinea-Bissau	47.1 (18.0–76.3)	73.7 (28.2–119.6)	37.5 (21.8–55.6)	32.7 (19.0–48.4)	−2.82 (−2.96, −2.69)
Guyana	1.7 (1.0–2.5)	2.7 (1.7–4.1)	2.3 (1.3–3.6)	2.0 (1.2–3.2)	−1.18 (−1.43, −0.94)
Haiti	9.5 (4.2–19.4)	1.8 (0.8–3.6)	17.6 (7.1–37.4)	1.5 (0.6–3.2)	−0.54 (−0.58, −0.49)
Honduras	4.7 (2.2–9.6)	1.4 (0.6–2.9)	23.0 (12.7–39.7)	2.2 (1.2–3.8)	1.46 (1.17, 1.75)
Hungary	69.8 (42.7–101.5)	2.7 (1.7–3.9)	63.6 (39.4–97.6)	2.0 (1.2–3.1)	−1.43 (−2.15, −0.70)
Iceland	0.9 (0.5–1.3)	1.8 (1.1–2.7)	2.9 (1.8–4.4)	3.0 (1.8–4.5)	1.28 (0.92, 1.65)
India	2532.1 (2003.1–3094.9)	3.3 (2.6–4.0)	8254.4 (6578.1–10020.6)	4.1 (3.3–5.0)	0.68 (0.62, 0.74)
Indonesia	512.2 (327.7–812.1)	3.2 (2.0–5.0)	1578.3 (888.4–2637.2)	3.8 (2.1–6.3)	0.66 (0.59, 0.73)
Iran (Islamic Republic of)	193.2 (151.6–254.4)	4.2 (3.3–5.5)	712.0 (591.0–827.9)	5.5 (4.5–6.4)	0.36 (−0.42, 1.14)
Iraq	80.6 (51.6–118.8)	6.4 (4.1–9.4)	261.1 (152.6–390.4)	6.7 (3.9–10.0)	0.22 (−0.10, 0.54)
Ireland	8.3 (5.0–12.8)	1.2 (0.7–1.9)	25.1 (14.8–39.6)	1.9 (1.1–3.0)	2.00 (1.74, 2.26)
Israel	14.9 (9.2–22.7)	1.8 (1.1–2.8)	33.0 (19.8–50.5)	1.7 (1.0–2.5)	−0.61 (−0.76, −0.46)
Italy	543.2 (426.2–680.6)	3.6 (2.8–4.5)	494.2 (385.6–617.4)	2.2 (1.7–2.7)	−2.00 (−2.43, −1.57)
Jamaica	3.9 (2.4–5.7)	1.3 (0.8–1.9)	8.2 (4.9–12.8)	1.6 (0.9–2.4)	0.42 (−0.09, 0.93)

Table S3 (continued)

Table S3 (continued)

Location	1990		2021		EAPC (95% CI)
	Number (95% UI)	ASMR (95% UI)	Number (95% UI)	ASMR (95% UI)	
Japan	2082.7 (1691.7–2502.3)	7.0 (5.7–8.4)	2796.9 (2175.0–3462.1)	5.4 (4.2–6.6)	−1.59 (−2.07, −1.11)
Jordan	7.2 (4.1–12.2)	3.4 (1.9–5.7)	24.3 (14.6–37.5)	1.9 (1.2–3.0)	−2.22 (−2.44, −2.01)
Kazakhstan	232.4 (142.0–344.2)	11.1 (6.8–16.5)	134.3 (78.4–207.2)	4.2 (2.5–6.5)	−4.23 (−4.67, −3.79)
Kenya	26.3 (17.1–42.0)	2.0 (1.3–3.2)	108.0 (74.0–155.8)	2.9 (2.0–4.2)	1.08 (0.77, 1.39)
Kiribati	0.7 (0.5–1.1)	12.5 (8.3–17.8)	1.3 (0.8–2.0)	10.0 (6.2–15.7)	−1.09 (−1.38, −0.80)
Kuwait	6.2 (4.2–8.5)	6.8 (4.6–9.3)	6.2 (4.0–9.2)	1.3 (0.9–2.0)	−4.56 (−5.55, −3.57)
Kyrgyzstan	32.5 (20.2–49.6)	6.3 (3.9–9.6)	29.3 (17.0–45.3)	3.5 (2.0–5.4)	−2.21 (−3.13, −1.28)
Lao People's Democratic Republic	60.3 (34.7–93.4)	17.6 (10.1–27.2)	78.6 (45.1–127.1)	10.2 (5.8–16.4)	−2.05 (−2.20, −1.91)
Latvia	15.8 (9.8–23.1)	2.5 (1.6–3.7)	16.2 (10.2–24.8)	2.5 (1.6–3.8)	−0.72 (−1.15, −0.29)
Lebanon	25.9 (17.4–36.6)	6.8 (4.6–9.7)	44.7 (30.3–63.7)	4.6 (3.1–6.5)	−1.16 (−1.28, −1.04)
Lesotho	12.8 (4.0–27.3)	9.1 (2.8–19.5)	37.0 (12.6–93.3)	20.5 (7.0–51.7)	2.14 (1.29, 3.01)
Liberia	95.7 (45.9–151.2)	50.8 (24.3–80.2)	97.2 (58.1–149.2)	29.4 (17.6–45.2)	−1.70 (−1.92, −1.48)
Libya	22.8 (13.0–35.9)	7.3 (4.2–11.5)	73.6 (42.0–116.8)	8.8 (5.0–14.0)	0.67 (0.52, 0.81)
Lithuania	15.8 (9.9–23.0)	2.0 (1.2–2.9)	27.1 (16.6–40.3)	2.8 (1.7–4.2)	0.50 (0.18, 0.83)
Luxembourg	1.9 (1.1–2.9)	2.0 (1.2–3.1)	4.0 (2.5–6.2)	2.3 (1.4–3.5)	0.39 (0.17, 0.60)
Madagascar	30.7 (16.2–55.0)	3.6 (1.9–6.5)	50.6 (27.1–88.4)	2.7 (1.5–4.8)	−1.30 (−1.47, −1.13)
Malawi	28.7 (16.0–47.7)	4.6 (2.5–7.6)	62.7 (35.1–100.2)	5.4 (3.0–8.6)	−0.45 (−1.14, 0.25)
Malaysia	155.3 (107.7–207.0)	10.5 (7.3–14.0)	614.9 (411.7–860.9)	12.5 (8.4–17.6)	0.59 (0.27, 0.90)
Maldives	2.1 (1.3–3.2)	13.8 (8.5–20.7)	4.3 (2.7–6.4)	7.8 (4.9–11.7)	−2.03 (−2.15, −1.92)
Mali	372.8 (256.2–523.8)	55.8 (38.3–78.3)	745.9 (466.6–1101.0)	51.5 (32.2–76.1)	−0.26 (−0.37, −0.15)
Malta	1.1 (0.7–1.7)	1.5 (0.9–2.3)	3.0 (1.8–4.8)	1.9 (1.2–3.0)	0.91 (0.80, 1.03)
Marshall Islands	0.2 (0.1–0.3)	6.6 (3.6–12.0)	0.4 (0.2–0.8)	6.8 (3.3–13.2)	−0.09 (−0.21, 0.03)
Mauritania	145.3 (30.2–288.7)	87.5 (18.2–173.9)	140.0 (62.7–230.2)	39.0 (17.5–64.2)	−3.10 (−3.27, −2.93)
Mauritius	8.9 (6.2–12.1)	7.3 (5.1–10.0)	3.7 (2.5–5.2)	1.1 (0.7–1.5)	−0.36 (−2.32, 1.64)
Mexico	57.7 (44.9–73.3)	0.8 (0.6–1.1)	223.5 (167.5–290.0)	1.0 (0.8–1.3)	0.58 (0.18, 0.97)
Micronesia (Federated States of)	0.8 (0.5–1.2)	9.7 (5.7–15.7)	1.2 (0.6–2.1)	8.9 (4.8–16.2)	−0.54 (−0.70, −0.39)
Monaco	0.3 (0.2–0.5)	2.7 (1.5–4.6)	0.7 (0.4–1.2)	4.8 (2.7–7.8)	1.95 (1.40, 2.51)
Mongolia	126.8 (73.9–199.9)	73.2 (42.6–115.4)	275.5 (159.2–434.4)	69.8 (40.3–110.0)	−0.25 (−0.50, −0.00)
Montenegro	6.6 (3.9–10.0)	6.0 (3.5–9.2)	11.4 (6.7–18.2)	6.6 (3.8–10.4)	0.54 (0.30, 0.78)
Morocco	16.1 (9.6–24.0)	0.7 (0.4–1.0)	47.2 (26.7–73.3)	0.8 (0.4–1.2)	0.12 (0.02, 0.22)
Mozambique	315.4 (171.4–513.7)	32.3 (17.5–52.6)	625.5 (293.6–1406.0)	35.0 (16.4–78.6)	0.24 (−0.16, 0.65)
Myanmar	230.2 (102.0–470.3)	5.9 (2.6–12.0)	407.4 (190.4–837.8)	4.8 (2.3–9.9)	−1.00 (−1.12, −0.88)
Namibia	3.2 (1.4–6.0)	2.9 (1.3–5.5)	8.6 (5.2–14.1)	3.8 (2.3–6.2)	0.58 (−0.11, 1.28)
Nauru	0.1 (0.1–0.1)	12.7 (8.3–18.1)	0.1 (0.0–0.1)	9.1 (5.1–14.7)	−1.54 (−1.76, −1.32)
Nepal	32.1 (18.2–52.9)	2.1 (1.2–3.4)	137.4 (72.5–224.9)	3.5 (1.8–5.7)	2.00 (1.72, 2.29)
Netherlands	28.8 (17.3–43.9)	0.9 (0.5–1.3)	104.2 (64.7–155.7)	1.8 (1.1–2.7)	2.62 (2.43, 2.81)
New Zealand	7.9 (6.2–10.0)	1.2 (0.9–1.5)	29.0 (22.8–36.9)	2.0 (1.6–2.6)	1.66 (1.42, 1.90)
Nicaragua	5.3 (3.0–8.5)	2.1 (1.2–3.4)	13.6 (7.6–22.1)	1.7 (0.9–2.7)	−0.51 (−0.83, −0.18)
Niger	167.4 (75.1–304.6)	38.1 (17.1–69.3)	204.6 (113.5–345.6)	14.7 (8.2–24.8)	−3.17 (−3.26, −3.08)
Nigeria	702.8 (312.0–1353.3)	9.6 (4.3–18.6)	998.8 (677.0–1490.0)	6.7 (4.5–9.9)	−1.46 (−1.64, −1.27)
Niue	0.0 (0.0–0.0)	8.6 (5.3–13.1)	0.0 (0.0–0.1)	9.1 (5.3–14.8)	−0.01 (−0.16, 0.13)
North Macedonia	34.1 (21.1–50.7)	10.4 (6.4–15.4)	49.3 (29.2–76.1)	8.3 (4.9–12.8)	−1.01 (−1.14, −0.88)
Northern Mariana Islands	0.2 (0.2–0.3)	9.7 (6.3–13.6)	1.3 (0.9–1.8)	13.6 (9.4–19.0)	1.08 (0.87, 1.29)
Norway	11.9 (9.3–14.7)	1.1 (0.9–1.4)	32.3 (25.5–39.6)	2.0 (1.6–2.4)	1.82 (1.45, 2.19)
Oman	5.6 (3.2–9.4)	5.6 (3.2–9.3)	16.4 (9.9–25.1)	5.2 (3.2–8.0)	0.11 (−0.16, 0.37)
Pakistan	141.3 (94.0–202.9)	1.5 (1.0–2.2)	363.6 (243.7–516.2)	1.8 (1.2–2.6)	0.28 (0.08, 0.49)
Palau	0.3 (0.2–0.4)	16.6 (10.5–26.3)	0.6 (0.3–0.9)	14.0 (8.2–22.5)	−0.77 (−0.93, −0.61)
Palestine	16.1 (9.5–24.6)	11.1 (6.6–16.9)	32.9 (20.6–50.3)	7.6 (4.8–11.7)	−1.60 (−1.78, −1.42)
Panama	6.6 (4.1–10.0)	2.7 (1.7–4.1)	13.5 (7.9–21.4)	1.8 (1.1–2.9)	−0.99 (−1.60, −0.37)
Papua New Guinea	23.4 (10.6–60.2)	7.9 (3.6–20.4)	40.2 (16.8–110.2)	4.9 (2.1–13.4)	−1.83 (−1.96, −1.70)
Paraguay	5.0 (2.9–7.7)	1.4 (0.8–2.1)	22.9 (12.8–37.2)	2.3 (1.3–3.8)	2.62 (2.18, 3.06)
Peru	68.5 (43.9–96.9)	3.5 (2.2–4.9)	220.1 (134.8–341.9)	3.9 (2.4–6.1)	0.19 (−0.06, 0.44)
Philippines	511.9 (330.9–734.9)	10.7 (6.9–15.4)	1252.2 (948.7–1600.4)	9.0 (6.8–11.5)	−0.80 (−0.93, −0.67)
Poland	46.5 (36.7–56.3)	0.6 (0.5–0.7)	197.8 (155.5–246.3)	1.6 (1.3–2.0)	3.91 (3.32, 4.49)
Portugal	29.5 (18.1–44.9)	1.2 (0.7–1.8)	108.8 (66.0–167.4)	2.8 (1.7–4.3)	2.37 (2.03, 2.72)
Puerto Rico	18.5 (11.6–27.8)	3.0 (1.9–4.6)	34.4 (21.0–52.1)	2.9 (1.8–4.5)	−0.53 (−0.92, −0.14)
Qatar	2.8 (1.7–4.3)	16.9 (10.2–26.2)	24.0 (13.6–37.9)	15.7 (8.9–24.8)	−1.48 (−1.92, −1.04)
Republic of Korea	4407.2 (3042.4–5878.6)	88.6 (61.1–118.1)	6029.4 (4556.3–7801.4)	36.1 (27.2–46.6)	−2.82 (−2.93, −2.71)
Republic of Moldova	20.8 (12.9–30.9)	2.7 (1.7–4.0)	24.8 (15.4–36.3)	2.4 (1.5–3.4)	−1.39 (−2.49, −0.28)
Romania	70.8 (43.8–102.7)	1.4 (0.9–2.1)	180.1 (107.9–276.3)	3.0 (1.8–4.6)	2.51 (2.14, 2.88)
Russian Federation	484.3 (382.0–597.7)	1.5 (1.2–1.9)	902.7 (708.8–1126.6)	2.1 (1.7–2.7)	1.41 (1.04, 1.78)
Rwanda	29.9 (16.1–50.8)	6.4 (3.4–10.9)	39.9 (22.1–73.5)	3.8 (2.1–6.9)	−2.58 (−3.00, −2.16)
Saint Kitts and Nevis	0.3 (0.2–0.4)	4.4 (2.7–6.7)	0.5 (0.3–0.7)	3.6 (2.1–5.2)	−1.74 (−2.29, −1.19)
Saint Lucia	0.3 (0.2–0.5)	2.3 (1.4–3.5)	0.6 (0.3–0.8)	1.3 (0.8–2.0)	−2.40 (−2.71, −2.09)
Saint Vincent and the Grenadines	0.5 (0.3–0.7)	3.9 (2.5–5.8)	0.6 (0.4–0.9)	2.5 (1.6–3.6)	−2.00 (−2.36, −1.64)
Samoa	1.7 (1.2–2.4)	12.0 (8.0–16.8)	2.4 (1.6–3.4)	9.6 (6.3–13.7)	−0.98 (−1.14, −0.83)
San Marino	0.1 (0.0–0.1)	1.3 (0.8–2.2)	0.2 (0.1–0.3)	1.3 (0.7–2.6)	0.17 (0.03, 0.30)
Sao Tome and Principe	0.6 (0.4–0.9)	5.5 (3.8–7.6)	0.7 (0.4–1.2)	3.7 (2.0–6.8)	−1.36 (−1.76, −0.96)
Saudi Arabia	119.0 (69.0–191.6)	13.4 (7.7–21.5)	262.1 (157.4–392.2)	8.7 (5.2–13.0)	−2.10 (−2.41, −1.78)
Senegal	186.3 (101.1–261.7)	35.3 (19.1–49.5)	236.9 (151.2–345.3)	18.3 (11.7–26.7)	−2.44 (−2.58, −2.31)
Serbia	96.3 (55.7–149.3)	4.6 (2.7–7.2)	118.5 (66.8–195.5)	4.2 (2.4–7.0)	−0.90 (−1.20, −0.59)
Seychelles	1.4 (1.0–2.1)	15.0 (10.0–21.5)	1.3 (0.8–1.9)	6.2 (3.9–9.1)	−2.59 (−3.14, −2.04)
Sierra Leone	138.0 (49.8–240.1)	41.6 (15.0–72.4)	96.6 (61.5–148.6)	16.0 (10.2–24.6)	−3.20 (−3.49, −2.92)
Singapore	93.1 (74.7–112.4)	25.7 (20.6–31.0)	250.4 (194.0–309.7)	16.5 (12.8–20.4)	−1.50 (−1.89, −1.10)
Slovakia	56.6 (34.3–86.9)	5.5 (3.3–8.4)	59.7 (32.0–101.8)	3.6 (1.9–6.2)	−2.03 (−2.30, −1.76)
Slovenia	18.8 (12.3–27.0)	4.4 (2.9–6.3)	38.8 (23.5–55.5)	5.3 (3.2–7.6)	0.38 (0.17, 0.59)
Solomon Islands	3.3 (1.0–7.6)	14.4 (4.6–33.8)	4.7 (2.5–8.4)	8.6 (4.7–15.6)	−1.78 (−1.92, −1.64)
Somalia	43.8 (17.7–85.8)	12.2 (4.9–23.8)	97.0 (39.1–193.4)	10.3 (4.1–20.5)	−0.77 (−0.88, −0.66)
South Africa	136.5 (73.6–251.1)	4.0 (2.2–7.4)	562.2 (443.8–704.2)	7.1 (5.6–8.9)	1.10 (0.35, 1.86)
South Sudan	26.0 (12.6–45.3)	6.3 (3.0–10.9)	48.6 (26.1–83.8)	7.8 (4.2–13.5)	0.52 (0.35, 0.69)
Spain	168.9 (101.0–262.5)	1.8 (1.1–2.7)	338.4 (204.9–529.8)	2.2 (1.3–3.4)	0.27 (−0.04, 0.58)
Sri Lanka	63.1 (42.4–87.8)	3.5 (2.4–4.9)	106.0 (56.1–179.1)	2.2 (1.2–3.7)	−1.95 (−2.33, −1.57)
Sudan	66.3 (28.8–128.1)	4.5 (1.9–8.6)	139.5 (78.4–223.9)	4.5 (2.5–7.2)	0.13 (−0.09, 0.35)
Suriname	1.0 (0.6–1.5)	2.4 (1.5–3.5)	3.0 (1.7–4.6)	2.7 (1.5–4.1)	0.00 (−0.21, 0.22)
Sweden	22.2 (15.3–31.8)	0.9 (0.6–1.3)	34.7 (23.4–51.0)	1.0 (0.7–1.5)	1.26 (0.33, 2.20)
Switzerland	43.4 (26.6–65.4)	2.6 (1.6–3.9)	79.7 (49.2–121.5)	2.7 (1.7–4.1)	0.44 (0.29, 0.60)
Syrian Arab Republic	84.8 (48.6–137.1)	9.6 (5.5–15.6)	157.5 (90.1–252.2)	6.7 (3.8–10.7)	−1.70 (−2.09, −1.32)
Taiwan (Province of China)	392.3 (297.0–498.6)	14.1 (10.7–18.0)	1399.5 (1027.0–1810.6)	18.6 (13.6–24.0)	1.89 (1.09, 2.70)
Tajikistan	17.2 (8.7–32.0)	3.7 (1.9–6.8)	28.7 (13.5–54.9)	2.8 (1.3–5.3)	−0.95 (−1.34, −0.55)

Table S3 (continued)

Table S3 (continued)

Location	1990		2021		EAPC (95% CI)
	Number (95% UI)	ASMR (95% UI)	Number (95% UI)	ASMR (95% UI)	
Thailand	1533.6 (1015.8–2172.6)	25.8 (17.1–36.6)	2978.4 (1777.5–4518.8)	15.3 (9.1–23.2)	–2.30 (–2.55, –2.04)
Timor-Leste	2.5 (1.4–4.1)	5.8 (3.3–9.4)	6.8 (3.7–12.0)	4.8 (2.6–8.4)	–0.55 (–0.68, –0.41)
Togo	34.9 (21.9–53.6)	17.9 (11.2–27.5)	75.3 (40.1–135.9)	12.0 (6.4–21.8)	–1.60 (–1.82, –1.38)
Tokelau	0.0 (0.0–0.0)	7.5 (4.1–13.7)	0.0 (0.0–0.0)	9.6 (5.4–15.6)	0.53 (0.26, 0.81)
Tonga	4.4 (2.9–6.7)	46.2 (30.1–70.2)	5.5 (3.5–8.0)	40.7 (26.0–59.5)	–0.73 (–1.01, –0.46)
Trinidad and Tobago	3.3 (2.1–4.9)	2.4 (1.5–3.6)	6.9 (4.0–11.2)	2.0 (1.2–3.2)	–1.29 (–1.59, –0.98)
Tunisia	17.4 (10.6–26.1)	2.0 (1.2–3.0)	51.1 (27.0–87.8)	2.2 (1.2–3.8)	–0.21 (–0.40, –0.01)
Türkiye	377.3 (256.8–519.4)	6.3 (4.3–8.7)	906.3 (597.0–1300.0)	5.5 (3.6–7.9)	–0.46 (–0.73, –0.20)
Turkmenistan	19.6 (12.0–29.1)	6.0 (3.7–9.0)	35.0 (19.0–58.4)	4.9 (2.7–8.3)	–0.51 (–0.92, –0.11)
Tuvalu	0.1 (0.1–0.2)	9.3 (5.6–15.0)	0.2 (0.1–0.3)	8.7 (5.2–14.2)	–0.39 (–0.53, –0.26)
Uganda	102.4 (59.0–166.4)	9.8 (5.6–15.9)	154.5 (86.9–252.9)	6.5 (3.7–10.7)	–2.00 (–2.39, –1.62)
Ukraine	212.3 (157.8–280.9)	1.7 (1.3–2.3)	172.5 (118.4–251.7)	1.3 (0.9–1.9)	–1.99 (–2.78, –1.20)
United Arab Emirates	8.3 (4.7–12.6)	14.8 (8.4–22.5)	90.2 (52.8–144.4)	12.6 (7.3–20.1)	–0.76 (–1.00, –0.52)
United Kingdom	180.2 (139.7–226.7)	1.2 (0.9–1.5)	705.2 (543.3–884.0)	3.4 (2.6–4.2)	4.12 (3.83, 4.41)
United Republic of Tanzania	122.4 (68.5–195.4)	6.8 (3.8–10.8)	184.2 (100.0–309.0)	4.5 (2.4–7.5)	–1.91 (–2.10, –1.72)
United States of America	586.2 (477.3–694.3)	1.1 (0.9–1.3)	2197.5 (1763.6–2634.3)	2.2 (1.8–2.6)	2.33 (2.18, 2.49)
United States Virgin Islands	0.3 (0.2–0.4)	1.9 (1.1–3.1)	0.8 (0.4–1.4)	2.6 (1.3–4.4)	1.17 (0.85, 1.49)
Uruguay	6.4 (3.8–9.6)	0.9 (0.6–1.4)	19.2 (11.5–29.5)	2.1 (1.3–3.3)	3.01 (2.70, 3.31)
Uzbekistan	64.2 (35.7–101.8)	3.3 (1.8–5.2)	189.4 (107.1–307.3)	4.1 (2.3–6.6)	0.34 (–0.00, 0.68)
Vanuatu	1.0 (0.6–2.0)	9.9 (5.6–20.1)	2.4 (1.3–4.3)	8.3 (4.7–14.8)	–0.45 (–0.62, –0.27)
Venezuela (Bolivarian Republic of)	57.7 (35.4–88.6)	3.7 (2.3–5.7)	75.0 (41.7–120.2)	1.4 (0.8–2.3)	–2.88 (–4.17, –1.58)
Viet Nam	1968.0 (1191.9–2847.8)	28.2 (17.1–40.8)	3577.3 (2092.8–5679.3)	20.5 (12.0–32.5)	–1.07 (–1.22, –0.92)
Yemen	33.6 (12.0–69.1)	4.2 (1.5–8.6)	57.9 (27.4–107.1)	2.6 (1.2–4.8)	–1.86 (–1.96, –1.75)
Zambia	51.4 (28.8–81.8)	11.2 (6.2–17.8)	50.2 (18.5–119.6)	4.6 (1.7–11.1)	–4.44 (–5.23, –3.65)
Zimbabwe	117.4 (63.1–196.9)	17.7 (9.5–29.7)	173.7 (96.5–292.4)	15.7 (8.7–26.4)	–1.55 (–2.24, –0.86)

Table S4 DALYs of liver cancer attributable to hepatitis B virus between 1990 and 2021 in adults 55 years and older at the Global and Regional Level

Location	1990		2021		EAPC (95% CI)
	Number (95% UI)	ASDR (95% UI)	Number (95% UI)	ASDR (95% UI)	
Afghanistan	2709.0 (1435.2–4580.1)	222.9 (118.1–376.9)	2586.9 (1445.5–4178.6)	210.5 (117.6–340.1)	–0.27 (–0.46, –0.07)
Albania	1324.3 (781.0–2085.1)	381.6 (225.0–600.8)	1597.6 (815.9–2852.7)	203.2 (103.8–362.8)	–2.64 (–3.27, –2.01)
Algeria	1010.9 (645.0–1492.8)	48.3 (30.8–71.3)	3428.0 (2025.1–5364.7)	56.4 (33.3–88.3)	0.39 (0.34, 0.44)
American Samoa	8.1 (5.2–12.0)	221.2 (142.4–327.3)	25.5 (16.6–36.1)	301.4 (196.2–427.8)	1.11 (0.71, 1.52)
Andorra	14.7 (7.7–25.7)	149.4 (77.9–260.0)	31.0 (16.3–56.3)	117.3 (61.6–212.6)	–0.77 (–1.02, –0.52)
Angola	2264.1 (262.4–6633.8)	363.5 (42.1–1065.0)	3563.8 (726.6–9490.6)	184.3 (37.6–490.8)	–2.61 (–2.78, –2.43)
Antigua and Barbuda	7.6 (4.9–11.0)	88.2 (56.7–127.4)	12.0 (7.5–17.1)	63.5 (39.8–90.8)	–1.71 (–2.15, –1.27)
Argentina	622.3 (364.6–960.9)	11.2 (6.6–17.3)	2006.2 (1216.7–3032.1)	21.5 (13.0–32.5)	2.78 (2.33, 3.23)
Armenia	942.4 (558.0–1391.7)	193.6 (114.6–285.9)	1108.4 (662.0–1694.0)	140.9 (84.2–215.4)	–1.48 (–2.09, –0.87)
Australia	893.9 (523.1–1438.2)	27.2 (15.9–43.8)	4674.3 (2713.9–7249.3)	63.1 (36.6–97.9)	2.46 (2.23, 2.70)
Austria	381.1 (222.0–627.3)	19.6 (11.4–32.2)	906.4 (537.0–1426.6)	30.7 (18.2–48.3)	1.40 (1.02, 1.77)
Azerbaijan	1491.6 (717.8–2547.5)	171.0 (82.3–292.1)	3664.9 (1583.1–6811.7)	191.3 (82.6–355.6)	–0.04 (–0.22, 0.13)
Bahamas	22.4 (13.2–33.2)	91.1 (53.9–135.2)	51.4 (29.5–78.2)	71.4 (41.0–108.7)	–1.09 (–1.38, –0.80)
Bahrain	85.3 (50.1–130.7)	304.1 (178.5–465.8)	231.8 (128.6–400.2)	142.8 (79.2–246.4)	–3.86 (–4.42, –3.29)
Bangladesh	5902.0 (3686.3–8755.4)	77.9 (48.7–115.6)	15451.7 (8699.2–24491.9)	66.1 (37.2–104.8)	–0.48 (–0.77, –0.18)
Barbados	24.3 (15.6–35.5)	51.9 (33.3–75.8)	43.8 (25.3–68.9)	48.1 (27.7–75.7)	–0.84 (–1.08, –0.60)
Belarus	1420.1 (829.8–2131.4)	61.3 (35.8–92.1)	1710.1 (942.7–2779.9)	59.4 (32.8–96.6)	–0.68 (–0.87, –0.49)
Belgium	842.6 (516.5–1347.2)	32.1 (19.7–51.4)	1565.3 (945.9–2434.0)	41.4 (25.0–64.4)	0.80 (0.44, 1.15)
Belize	7.5 (4.7–11.0)	49.0 (30.2–71.8)	27.4 (17.1–40.0)	54.8 (34.1–79.9)	–0.41 (–1.00, 0.18)
Benin	3321.8 (1738.0–5063.0)	1038.3 (543.3–1582.6)	4287.3 (2713.1–6537.3)	518.4 (328.0–790.4)	–2.66 (–2.95, –2.37)
Bermuda	7.2 (4.3–10.5)	67.8 (41.1–99.6)	6.8 (4.1–10.4)	29.3 (17.7–44.6)	–2.91 (–3.32, –2.49)
Bhutan	43.9 (21.0–73.9)	110.7 (53.0–186.3)	107.4 (58.0–183.1)	107.8 (58.3–183.9)	–0.19 (–0.29, –0.10)
Bolivia (Plurinational State of)	762.9 (458.6–1150.5)	145.5 (87.5–219.4)	2064.5 (1172.0–3351.6)	133.6 (75.8–216.9)	–0.53 (–0.62, –0.44)
Bosnia and Herzegovina	1547.3 (940.4–2342.5)	210.9 (128.2–319.3)	1655.2 (956.9–2697.3)	151.1 (87.4–246.3)	–1.63 (–1.77, –1.48)
Botswana	174.6 (77.8–341.6)	187.8 (83.7–367.4)	435.7 (187.5–1030.0)	179.7 (77.4–424.9)	–1.29 (–1.90, –0.68)
Brazil	4708.9 (3712.2–5815.9)	31.9 (25.1–39.4)	15087.3 (11653.5–18808.3)	34.8 (26.9–43.4)	0.58 (0.39, 0.78)
Brunei Darussalam	127.2 (82.2–185.5)	812.4 (525.3–1184.5)	263.5 (172.6–376.0)	440.0 (288.2–627.9)	–2.10 (–2.33, –1.87)
Bulgaria	4570.2 (2692.6–6891.9)	201.9 (119.0–304.5)	1699.5 (952.5–2696.4)	71.5 (40.1–113.4)	–3.20 (–3.71, –2.68)
Burkina Faso	10011.9 (4373.7–19939.6)	1384.3 (604.7–2757.0)	10583.1 (4858.6–18736.8)	703.9 (323.2–1246.3)	–2.32 (–2.52, –2.12)
Burundi	432.7 (199.6–880.2)	115.0 (53.0–233.9)	533.9 (245.9–1038.5)	66.7 (30.7–129.7)	–2.39 (–2.60, –2.17)
Cabo Verde	141.9 (85.6–230.3)	359.6 (216.9–583.5)	321.0 (180.4–484.4)	418.8 (235.3–632.0)	–0.08 (–0.35, 0.20)
Cambodia	2888.7 (1321.3–5996.5)	389.9 (178.3–809.3)	4888.7 (2047.0–10442.1)	224.9 (94.2–480.4)	–1.94 (–2.05, –1.84)
Cameroon	6390.0 (3805.1–10882.7)	863.0 (513.9–1469.8)	9476.1 (4694.4–18564.9)	465.5 (230.6–912.1)	–2.51 (–2.75, –2.27)
Canada	824.5 (482.1–1270.5)	15.1 (8.8–23.3)	3596.4 (2107.0–5707.4)	29.3 (17.2–46.5)	2.47 (2.30, 2.65)
Central African Republic	633.0 (230.8–1345.9)	335.3 (122.2–712.8)	594.0 (226.3–1266.2)	166.1 (63.3–354.0)	–2.79 (–2.99, –2.60)
Chad	4000.2 (1687.7–7623.0)	863.2 (364.2–1645.0)	5755.0 (3045.1–9637.8)	619.8 (328.0–1038.0)	–1.46 (–1.77, –1.15)
Chile	587.5 (349.7–901.3)	34.9 (20.8–53.6)	2473.7 (1486.0–3832.6)	55.2 (33.2–85.6)	1.88 (1.70, 2.05)
China	817978.1 (671924.0–982144.0)	569.9 (468.2–684.3)	1531218.6 (1157593.0–1991418.4)	404.1 (305.5–525.5)	–1.03 (–1.22, –0.83)
Colombia	1810.4 (1116.5–2668.1)	62.9 (38.8–92.7)	4007.3 (2290.0–6199.9)	41.9 (23.9–64.8)	–1.57 (–2.10, –1.04)
Comoros	53.6 (27.0–89.7)	165.0 (83.1–276.4)	94.0 (48.5–165.9)	116.3 (59.9–205.3)	–1.56 (–1.70, –1.41)
Congo	532.5 (227.2–1068.7)	299.1 (127.6–600.4)	583.6 (240.5–1201.4)	134.3 (55.3–276.5)	–3.01 (–3.20, –2.81)
Cook Islands	11.1 (7.4–16.0)	522.2 (347.6–751.4)	19.7 (12.2–29.7)	417.1 (258.6–630.1)	–0.90 (–1.00, –0.79)
Costa Rica	205.1 (123.1–316.1)	72.1 (43.3–111.1)	721.2 (416.8–1110.6)	75.3 (43.5–116.0)	–0.19 (–0.58, 0.21)
Côte d'Ivoire	2472.7 (1411.7–3713.7)	385.8 (220.3–579.4)	3134.8 (1624.0–5316.0)	174.8 (90.6–296.5)	–3.14 (–3.37, –2.90)
Croatia	789.3 (487.3–1149.8)	70.9 (43.8–103.3)	1253.0 (745.6–1894.2)	84.0 (50.0–127.0)	1.01 (0.54, 1.48)
Cuba	855.0 (539.8–1249.6)	50.5 (31.8–73.7)	1096.0 (667.7–1675.2)	32.1 (19.5–49.0)	–2.05 (–2.61, –1.49)
Cyprus	67.2 (37.1–108.4)	48.1 (26.6–77.6)	143.2 (78.0–232.9)	41.0 (22.3–66.6)	–0.58 (–0.68, –0.48)
Czechia	2665.1 (1610.5–3992.3)	112.6 (68.0–168.6)	1827.8 (1086.9–2788.6)	52.3 (31.1–79.8)	–2.59 (–2.91, –2.27)
Democratic People's Republic of Korea	15095.8 (8027.1–23475.4)	567.2 (301.6–882.1)	18813.0 (11780.0–28792.7)	333.8 (209.0–510.9)	–2.05 (–2.26, –1.84)
Democratic Republic of the Congo	2689.4 (1048.6–6214.7)	101.8 (39.7–235.3)	4000.6 (1443.4–10075.9)	66.2 (23.9–166.8)	–1.53 (–1.63, –1.43)
Denmark	262.9 (156.8–399.6)	20.2 (12.0–30.6)	841.8 (514.6–1318.2)	43.7 (26.7–68.5)	2.61 (2.19, 3.03)
Djibouti	25.1 (12.3–46.4)	116.8 (57.3–216.3)	131.0 (67.3–230.1)	126.4 (64.9–221.9)	0.04 (–0.19, 0.28)
Dominica	6.9 (3.9–11.0)	69.9 (39.6–112.2)	11.9 (6.5–19.3)	78.7 (43.4–128.1)	0.38 (0.09, 0.67)
Dominican Republic	207.3 (118.8–327.4)	33.9 (19.4–53.5)	748.2 (416.1–1182.7)	44.8 (24.9–70.8)	1.08 (0.92, 1.25)
Ecuador	1446.8 (1025.5–1878.7)	168.3 (119.3–218.5)	2905.6 (1843.9–4290.8)	105.0 (66.6–155.0)	–1.69 (–2.32, –1.05)
Egypt	8602.8 (4102.5–16516.3)	192.4 (91.8–369.4)	27208.9 (13556.5–46042.8)	245.9 (122.5–416.1)	0.55 (0.29, 0.81)
El Salvador	156.9 (88.9–250.6)	32.1 (18.2–51.2)	221.9 (120.2–367.9)	21.7 (11.8–36.0)	–1.46 (–1.89, –1.02)
Equatorial Guinea	24.9 (10.0–64.0)	78.0 (31.3–200.4)	86.2 (40.4–166.2)	109.0 (51.1–210.2)	1.30 (0.90, 1.71)
Eritrea	220.0 (108.0–378.4)	124.5 (61.1–214.1)	418.0 (202.9–767.9)	94.9 (46.1–174.3)	–1.44 (–1.68, –1.19)

Table S4 (continued)

Table S4 (continued)

Location	1990		2021		EAPC (95% CI)
	Number (95% UI)	ASDR (95% UI)	Number (95% UI)	ASDR (95% UI)	
Estonia	274.6 (158.7–422.1)	76.6 (44.3–117.7)	308.9 (183.9–462.9)	70.6 (42.0–105.8)	−0.86 (−1.29, −0.43)
Eswatini	154.8 (49.2–306.2)	342.8 (108.9–678.2)	590.2 (184.9–1426.1)	651.8 (204.2–1575.1)	1.97 (0.52, 3.45)
Ethiopia	3399.1 (2271.8–4994.5)	105.8 (70.7–155.4)	4188.1 (2498.6–7251.0)	61.2 (36.5–105.9)	−2.30 (−2.50, −2.09)
Fiji	128.6 (78.8–202.2)	228.1 (139.8–358.8)	311.5 (187.2–462.6)	227.8 (136.9–338.3)	0.27 (−0.04, 0.58)
Finland	493.2 (295.2–786.3)	41.5 (24.9–66.2)	1224.6 (735.2–1920.7)	60.8 (36.5–95.4)	1.39 (1.23, 1.55)
France	9880.8 (5810.4–15154.6)	71.0 (41.8–108.9)	16779.2 (9958.7–26318.3)	75.9 (45.0–119.0)	−0.06 (−0.33, 0.22)
Gabon	211.8 (86.4–455.1)	216.3 (88.2–464.9)	332.9 (158.4–596.9)	186.3 (88.6–333.9)	−0.56 (−0.70, −0.42)
Gambia	914.2 (596.7–1304.7)	1650.9 (1077.5–2356.0)	2387.9 (1387.4–3842.6)	1544.2 (897.2–2484.9)	−0.65 (−0.87, −0.42)
Georgia	1435.4 (873.9–2218.0)	129.2 (78.7–199.7)	995.1 (591.0–1503.9)	94.8 (56.3–143.2)	−1.84 (−3.33, −0.33)
Germany	7136.0 (4350.3–11049.5)	34.0 (20.7–52.7)	13651.9 (8192.8–21160.1)	43.3 (26.0–67.1)	0.81 (0.58, 1.05)
Ghana	4925.0 (2764.3–7958.6)	482.3 (270.7–779.3)	8033.3 (4575.2–12943.6)	294.6 (167.8–474.6)	−1.97 (−2.34, −1.59)
Greece	1980.4 (1419.0–2556.7)	74.1 (53.1–95.6)	5792.0 (3993.1–7655.9)	157.6 (108.6–208.3)	2.29 (1.90, 2.69)
Greenland	3.8 (2.0–6.5)	69.7 (37.1–117.2)	9.1 (4.6–15.2)	67.0 (33.9–112.0)	−0.02 (−0.15, 0.10)
Grenada	6.5 (4.0–9.9)	53.6 (33.0–82.5)	16.1 (9.6–24.9)	80.0 (47.8–123.8)	0.59 (0.08, 1.10)
Guam	22.4 (15.6–30.1)	174.0 (121.0–233.4)	104.5 (71.2–141.0)	277.3 (188.9–374.2)	2.32 (2.02, 2.61)
Guatemala	693.0 (416.8–1088.6)	120.5 (72.5–189.3)	1298.9 (740.3–2085.1)	70.9 (40.4–113.9)	−2.17 (−4.11, −0.20)
Guinea	6650.3 (4507.6–9332.2)	1201.7 (814.5–1686.3)	8083.4 (4596.2–13426.6)	884.8 (503.1–1469.7)	−0.67 (−0.97, −0.36)
Guinea-Bissau	1212.4 (456.4–2019.5)	1899.3 (715.0–3163.7)	964.6 (539.6–1452.0)	839.8 (469.8–1264.0)	−2.84 (−2.98, −2.70)
Guyana	42.3 (25.4–63.6)	69.0 (41.4–103.8)	59.3 (33.8–93.7)	52.6 (30.0–83.2)	−1.06 (−1.31, −0.82)
Haiti	241.3 (106.0–497.7)	44.7 (19.6–92.3)	440.2 (175.8–913.4)	37.1 (14.8–77.1)	−0.56 (−0.62, −0.49)
Honduras	112.8 (51.9–227.9)	33.8 (15.6–68.4)	551.4 (294.8–944.8)	52.4 (28.0–89.8)	1.43 (1.15, 1.70)
Hungary	1632.8 (987.9–2458.3)	63.4 (38.4–95.4)	1453.6 (858.9–2269.1)	45.7 (27.0–71.4)	−1.37 (−2.05, −0.69)
Iceland	19.6 (11.8–30.0)	41.1 (24.8–62.8)	62.4 (37.3–97.6)	64.1 (38.3–100.2)	1.15 (0.78, 1.53)
India	65925.9 (51772.0–81831.2)	86.0 (67.5–106.7)	202726.2 (159202.2–248976.4)	100.8 (79.2–123.8)	0.45 (0.37, 0.53)
Indonesia	13664.0 (8787.8–21852.9)	84.6 (54.4–135.3)	41341.5 (23556.6–68376.6)	98.7 (56.2–163.3)	0.61 (0.55, 0.67)
Iran (Islamic Republic of)	4867.1 (3818.6–6375.0)	105.6 (82.8–138.3)	16284.9 (13546.7–19021.7)	125.4 (104.3–146.4)	0.05 (−0.78, 0.88)
Iraq	2011.6 (1271.8–2928.4)	159.4 (100.8–232.0)	6512.6 (3750.9–9943.1)	167.6 (96.5–255.9)	0.22 (−0.07, 0.52)
Ireland	184.5 (109.7–287.6)	27.1 (16.1–42.3)	538.9 (315.5–841.1)	41.1 (24.0–64.1)	1.93 (1.67, 2.19)
Israel	331.4 (209.2–502.4)	40.9 (25.8–62.0)	713.8 (429.1–1107.7)	35.7 (21.5–55.4)	−0.60 (−0.76, −0.45)
Italy	12902.9 (9904.7–16601.8)	84.8 (65.1–109.1)	10178.1 (7884.1–12786.7)	44.8 (34.7–56.3)	−2.54 (−3.00, −2.08)
Jamaica	87.0 (53.4–127.6)	29.5 (18.1–43.3)	190.7 (107.8–297.7)	36.1 (20.4–56.3)	0.57 (0.05, 1.09)
Japan	53056.0 (42340.8–64859.6)	179.2 (143.0–219.0)	48568.3 (37612.8–60718.1)	93.0 (72.1–116.3)	−2.84 (−3.33, −2.35)
Jordan	188.2 (106.5–315.4)	87.5 (49.5–146.7)	612.6 (356.6–959.1)	48.7 (28.4–76.3)	−2.43 (−2.65, −2.20)
Kazakhstan	6241.8 (3738.4–9397.0)	298.5 (178.8–449.3)	3479.8 (1986.8–5401.6)	109.7 (62.6–170.2)	−4.43 (−4.85, −4.01)
Kenya	670.9 (434.1–1082.7)	50.3 (32.6–81.2)	2808.1 (1919.1–4102.9)	75.1 (51.3–109.7)	1.15 (0.82, 1.48)
Kiribati	20.0 (12.9–29.0)	335.1 (215.9–486.7)	34.3 (21.4–54.1)	272.6 (170.4–430.5)	−0.98 (−1.25, −0.71)
Kuwait	166.3 (110.4–234.1)	181.9 (120.7–256.0)	151.4 (94.1–225.1)	32.5 (20.2–48.3)	−4.83 (−5.84, −3.80)
Kyrgyzstan	866.5 (527.6–1340.2)	168.3 (102.5–260.3)	784.3 (447.9–1209.3)	92.7 (53.0–143.0)	−2.24 (−3.24, −1.22)
Lao People's Democratic Republic	1586.8 (887.9–2516.2)	462.7 (258.9–733.7)	2035.8 (1142.4–3328.5)	263.3 (147.8–430.5)	−2.08 (−2.20, −1.96)
Latvia	396.2 (235.6–594.0)	63.4 (37.7–95.0)	370.7 (220.2–573.6)	56.3 (33.5–87.2)	−1.05 (−1.48, −0.61)
Lebanon	652.0 (432.7–936.4)	172.0 (114.1–247.0)	1052.3 (701.1–1498.6)	107.4 (71.5–152.9)	−1.42 (−1.56, −1.28)
Lesotho	320.3 (98.2–671.1)	229.1 (70.2–479.9)	971.1 (315.4–2485.6)	537.8 (174.7–1376.7)	2.36 (1.49, 3.24)
Liberia	2289.3 (1093.2–3620.7)	1214.9 (580.1–1921.4)	2387.2 (1405.1–3737.2)	723.1 (425.6–1132.1)	−1.61 (−1.87, −1.35)
Libya	573.6 (320.9–930.7)	184.4 (103.2–299.2)	1858.6 (1018.1–3032.6)	222.2 (121.7–362.6)	0.64 (0.50, 0.78)
Lithuania	380.9 (232.2–574.8)	48.1 (29.3–72.5)	640.9 (378.0–983.6)	66.2 (39.1–101.6)	0.30 (−0.07, 0.67)
Luxembourg	42.1 (25.0–65.0)	45.1 (26.8–69.6)	86.9 (52.0–135.3)	48.9 (29.3–76.1)	0.18 (−0.03, 0.38)
Madagascar	791.4 (408.0–1415.9)	93.7 (48.3–167.6)	1345.2 (705.0–2371.7)	72.8 (38.2–128.4)	−1.16 (−1.31, −1.01)
Malawi	747.1 (407.9–1255.0)	118.8 (64.8–199.5)	1619.3 (894.8–2596.8)	138.5 (76.5–222.1)	−0.46 (−1.16, 0.25)
Malaysia	3836.5 (2658.7–5151.6)	259.9 (180.1–349.1)	15262.7 (10154.5–21349.7)	311.3 (207.1–435.5)	0.64 (0.32, 0.96)
Maldives	55.4 (33.8–84.6)	361.6 (220.8–551.8)	101.3 (60.5–156.8)	186.2 (111.2–288.3)	−2.50 (−2.61, −2.38)
Mali	9633.1 (6578.0–13565.6)	1440.7 (983.8–2028.8)	19008.8 (11634.0–28476.2)	1313.3 (803.8–1967.4)	−0.30 (−0.41, −0.20)
Malta	24.9 (14.7–37.9)	34.4 (20.4–52.4)	65.2 (38.6–103.6)	41.3 (24.5–65.6)	0.79 (0.68, 0.90)
Marshall Islands	4.3 (2.3–7.8)	169.6 (89.3–306.1)	10.7 (5.2–21.7)	183.0 (88.1–369.9)	0.20 (0.03, 0.37)
Mauritania	3558.0 (738.5–7339.5)	2143.2 (444.9–4421.1)	3238.9 (1443.4–5359.8)	902.8 (402.3–1494.0)	−3.26 (−3.44, −3.08)
Mauritius	222.9 (152.3–297.7)	183.2 (125.2–244.7)	94.3 (61.3–128.2)	27.9 (18.1–37.9)	−0.25 (−2.19, 1.74)
Mexico	1377.8 (1037.0–1785.6)	19.8 (14.9–25.7)	5281.8 (3892.4–6985.0)	24.5 (18.1–32.4)	0.55 (0.17, 0.93)
Micronesia (Federated States of)	20.1 (11.7–33.3)	253.0 (147.4–417.8)	32.4 (17.3–59.6)	246.1 (131.4–453.2)	−0.22 (−0.36, −0.07)
Monaco	6.5 (3.4–10.7)	58.4 (30.6–96.5)	15.8 (8.7–26.5)	101.0 (55.7–169.1)	1.96 (1.41, 2.51)
Mongolia	3304.3 (1917.0–5274.8)	1906.9 (1106.3–3044.1)	7341.4 (4091.2–11750.9)	1859.5 (1036.3–2976.4)	−0.23 (−0.43, −0.03)
Montenegro	161.8 (93.3–254.3)	148.5 (85.7–233.4)	266.2 (148.4–429.0)	152.6 (85.1–246.0)	0.30 (0.09, 0.51)
Morocco	409.0 (245.1–611.9)	17.4 (10.5–26.1)	1213.7 (683.9–1889.1)	20.2 (11.4–31.4)	0.13 (−0.01, 0.28)
Mozambique	7847.4 (4229.7–12850.2)	803.1 (432.8–1315.0)	15791.5 (7218.0–35794.4)	882.6 (403.4–2000.7)	0.35 (−0.05, 0.74)
Myanmar	6066.0 (2697.8–12804.7)	155.0 (68.9–327.1)	10385.5 (4661.5–21647.0)	123.0 (55.2–256.4)	−1.07 (−1.17, −0.98)
Namibia	79.4 (34.7–148.0)	73.1 (32.0–136.4)	220.1 (129.0–364.6)	97.4 (57.1–161.4)	0.65 (−0.04, 1.35)
Nauru	2.6 (1.6–3.7)	353.1 (224.6–509.2)	2.4 (1.3–4.0)	264.0 (144.8–432.1)	−1.37 (−1.58, −1.16)
Nepal	832.9 (464.5–1375.7)	54.1 (30.2–89.4)	3368.2 (1756.0–5560.5)	85.1 (44.4–140.5)	1.82 (1.53, 2.12)
Netherlands	648.0 (381.3–994.7)	19.6 (11.5–30.0)	2240.9 (1350.8–3410.7)	38.3 (23.1–58.3)	2.56 (2.38, 2.75)
New Zealand	191.3 (144.9–245.9)	29.1 (22.0–37.4)	675.1 (512.3–880.0)	47.3 (35.9–61.7)	1.57 (1.35, 1.79)
Nicaragua	129.4 (70.5–211.0)	52.1 (28.4–84.9)	331.5 (176.1–557.0)	40.7 (21.6–68.4)	−0.48 (−0.84, −0.12)
Niger	4321.4 (1928.6–7969.6)	983.2 (438.8–1813.3)	5099.1 (2752.4–8404.7)	366.3 (197.7–603.7)	−3.28 (−3.38, −3.19)
Nigeria	17282.6 (7509.5–32874.3)	237.2 (103.1–451.3)	24314.8 (15937.7–36936.3)	162.1 (106.2–246.2)	−1.52 (−1.71, −1.34)
Niue	0.7 (0.5–1.1)	205.1 (124.2–313.1)	0.9 (0.5–1.5)	231.4 (134.0–384.9)	0.09 (−0.04, 0.22)
North Macedonia	838.7 (495.3–1268.6)	254.9 (150.6–385.6)	1162.6 (667.9–1801.7)	196.1 (112.6–303.9)	−1.17 (−1.30, −1.04)
Northern Mariana Islands	6.4 (4.1–9.0)	262.7 (169.8–369.6)	35.9 (24.6–50.3)	369.1 (253.4–517.2)	1.24 (1.00, 1.47)
Norway	259.5 (201.9–322.3)	24.0 (18.6–29.8)	691.4 (542.1–855.1)	42.6 (33.4–52.7)	1.92 (1.58, 2.26)
Oman	147.3 (82.0–250.2)	146.5 (81.6–248.9)	434.0 (255.0–682.4)	139.0 (81.6–218.5)	0.14 (−0.13, 0.41)
Pakistan	3489.8 (2285.7–5155.2)	38.3 (25.1–56.5)	9379.1 (6175.6–13510.5)	47.3 (31.1–68.1)	0.40 (0.18, 0.63)
Palau	6.8 (4.2–10.8)	423.7 (264.4–676.8)	16.2 (9.2–26.9)	385.9 (219.9–642.2)	−0.42 (−0.59, −0.24)
Palestine	383.5 (220.3–608.2)	264.2 (151.7–419.1)	829.7 (504.0–1262.8)	192.8 (117.1–293.5)	−1.44 (−1.62, −1.26)
Panama	152.8 (92.8–234.6)	63.1 (38.3–96.8)	302.0 (172.4–490.0)	40.6 (23.2–65.9)	−1.05 (−1.68, −0.41)
Papua New Guinea	624.9 (275.6–1637.2)	211.2 (93.1–553.4)	1076.7 (439.2–2931.7)	131.1 (53.5–357.0)	−1.76 (−1.87, −1.65)
Paraguay	118.1 (64.9–183.2)	32.6 (17.9–50.5)	553.3 (296.3–913.5)	55.9 (29.9–92.3)	2.69 (2.25, 3.14)
Peru	1586.5 (984.1–2220.1)	80.5 (49.9–112.6)	4797.0 (2883.5–7289.7)	85.8 (51.6–130.3)	−0.05 (−0.31, 0.20)
Philippines	13222.9 (8558.0–19028.2)	277.0 (179.3–398.6)	32395.1 (24224.3–42282.7)	232.3 (173.7–303.2)	−0.79 (−0.92, −0.65)
Poland	1069.0 (828.7–1312.7)	13.9 (10.8–17.0)	4524.3 (3479.3–5741.8)	37.3 (28.7–47.4)	4.06 (3.43, 4.69)
Portugal	683.4 (400.5–1055.4)	28.0 (16.4–43.3)	2448.5 (1449.3–3763.7)	62.9 (37.3–96.7)	2.31 (1.98, 2.64)
Puerto Rico	425.7 (260.5–648.7)	70.2 (42.9–106.9)	758.4 (453.5–1166.9)	65.0 (38.8–100.0)	−0.62 (−0.97, −0.25)
Qatar	75.3 (43.5–118.6)	460.8 (266.3–726.2)	638.3 (351.8–1035.9)	416.7 (229.7–676.3)	−1.46 (−1.87, −1.04)

Table S4 (continued)

Table S4 (continued)

Location	1990		2021		EAPC (95% CI)
	Number (95% UI)	ASDR (95% UI)	Number (95% UI)	ASDR (95% UI)	
Republic of Korea	113004.4 (76623.8–149366.3)	2270.6 (1539.6–3001.3)	135590.8 (100833.5–179028.9)	810.8 (602.9–1070.5)	–3.30 (–3.40, –3.21)
Republic of Moldova	534.0 (322.4–814.3)	69.2 (41.8–105.5)	610.1 (364.8–913.3)	57.8 (34.6–86.5)	–1.53 (–2.64, –0.41)
Romania	1755.2 (1037.5–2605.1)	35.1 (20.7–52.1)	4232.6 (2440.2–6725.5)	70.5 (40.6–112.0)	2.36 (1.95, 2.78)
Russian Federation	12413.4 (9606.1–15650.1)	39.3 (30.4–49.6)	21891.8 (16823.4–27524.9)	51.5 (39.6–64.8)	1.24 (0.83, 1.65)
Rwanda	784.1 (414.2–1333.1)	167.6 (88.5–284.9)	1019.6 (545.1–1880.7)	96.4 (51.5–177.9)	–2.63 (–3.06, –2.20)
Saint Kitts and Nevis	6.3 (3.9–9.4)	98.6 (60.9–147.6)	11.6 (6.8–17.5)	90.3 (52.8–136.1)	–1.15 (–1.69, –0.60)
Saint Lucia	7.7 (4.5–11.7)	52.8 (31.0–79.9)	13.3 (8.0–20.3)	31.6 (19.1–48.3)	–2.19 (–2.51, –1.87)
Saint Vincent and the Grenadines	10.7 (6.7–15.7)	89.2 (55.4–131.0)	15.0 (9.1–22.3)	58.9 (35.8–87.7)	–1.84 (–2.23, –1.46)
Samoa	43.8 (28.6–61.7)	303.7 (198.2–427.8)	60.6 (38.8–87.5)	246.1 (157.7–355.4)	–0.93 (–1.07, –0.79)
San Marino	1.8 (1.0–2.9)	29.9 (16.7–49.1)	3.3 (1.6–6.0)	28.1 (13.4–50.4)	–0.01 (–0.16, 0.13)
Sao Tome and Principe	13.7 (9.2–19.0)	122.6 (82.2–169.9)	16.0 (8.3–30.3)	87.4 (45.4–165.8)	–1.28 (–1.58, –0.98)
Saudi Arabia	3054.8 (1793.9–4873.8)	342.9 (201.4–547.1)	6809.6 (3979.1–10365.5)	226.2 (132.2–344.3)	–2.08 (–2.42, –1.74)
Senegal	4524.5 (2392.0–6432.5)	856.2 (452.7–1217.3)	5632.2 (3560.3–8234.2)	436.2 (275.7–637.7)	–2.51 (–2.66, –2.37)
Serbia	2461.8 (1389.3–3906.3)	118.4 (66.8–187.8)	2710.5 (1433.6–4445.8)	96.6 (51.1–158.5)	–1.24 (–1.51, –0.97)
Seychelles	34.9 (23.2–50.0)	364.2 (241.6–521.5)	32.9 (20.1–48.3)	158.7 (97.1–233.0)	–2.42 (–3.01, –1.82)
Sierra Leone	3270.8 (1165.7–5763.7)	986.8 (351.7–1738.9)	2331.2 (1434.2–3535.2)	385.9 (237.4–585.2)	–3.12 (–3.38, –2.86)
Singapore	2241.9 (1794.1–2691.5)	618.3 (494.8–742.3)	5527.1 (4307.4–6737.0)	363.9 (283.6–443.6)	–1.73 (–2.13, –1.34)
Slovakia	1381.8 (828.8–2170.9)	133.2 (79.9–209.3)	1402.9 (712.8–2436.1)	85.5 (43.5–148.5)	–2.06 (–2.30, –1.82)
Slovenia	458.1 (285.9–663.3)	106.3 (66.4–154.0)	842.0 (499.9–1231.4)	115.0 (68.3–168.2)	0.03 (–0.18, 0.23)
Solomon Islands	88.5 (27.7–207.7)	391.6 (122.4–918.9)	127.2 (68.8–225.8)	234.6 (126.8–416.2)	–1.78 (–1.90, –1.66)
Somalia	1195.9 (465.1–2311.9)	332.1 (129.2–642.1)	2535.2 (1016.1–5027.9)	268.8 (107.7–533.1)	–0.89 (–1.03, –0.76)
South Africa	3301.6 (1758.8–6090.0)	97.8 (52.1–180.4)	13995.6 (10945.0–17791.5)	177.4 (138.7–225.5)	1.25 (0.48, 2.02)
South Sudan	660.6 (315.9–1173.6)	159.3 (76.2–283.0)	1271.2 (665.7–2219.3)	204.1 (106.9–356.4)	0.63 (0.43, 0.82)
Spain	3967.2 (2252.3–6303.4)	41.5 (23.6–65.9)	7418.5 (4217.2–11874.5)	47.9 (27.3–76.7)	0.06 (–0.20, 0.32)
Sri Lanka	1531.5 (1017.9–2168.9)	86.0 (57.2–121.9)	2566.9 (1299.6–4378.0)	53.3 (27.0–90.9)	–1.93 (–2.30, –1.55)
Sudan	1641.5 (690.1–3199.4)	110.4 (46.4–215.2)	3440.3 (1894.8–5476.9)	110.5 (60.9–175.9)	0.13 (–0.11, 0.38)
Suriname	25.4 (15.4–38.3)	58.4 (35.3–88.0)	74.8 (40.2–118.8)	67.0 (36.0–106.3)	0.01 (–0.21, 0.22)
Sweden	472.3 (316.8–697.1)	19.9 (13.3–29.4)	711.8 (461.7–1066.3)	21.1 (13.7–31.7)	1.31 (0.36, 2.27)
Switzerland	981.4 (582.1–1497.0)	58.1 (34.5–88.6)	1684.5 (1005.2–2582.1)	57.5 (34.3–88.1)	0.23 (0.05, 0.41)
Syrian Arab Republic	2136.8 (1220.0–3494.2)	242.4 (138.4–396.3)	3977.4 (2195.1–6547.6)	168.3 (92.9–277.1)	–1.71 (–2.11, –1.30)
Taiwan (Province of China)	10283.2 (7722.1–13117.5)	370.7 (278.4–472.9)	33420.6 (24688.0–42921.9)	443.8 (327.9–570.0)	1.60 (0.83, 2.37)
Tajikistan	432.8 (221.9–791.6)	92.4 (47.4–169.0)	753.1 (352.0–1463.7)	73.3 (34.3–142.5)	–0.90 (–1.17, –0.62)
Thailand	39970.1 (25902.3–57281.4)	673.5 (436.5–965.3)	72711.0 (41780.3–111578.8)	374.1 (214.9–574.0)	–2.50 (–2.75, –2.25)
Timor-Leste	66.8 (38.5–110.9)	153.6 (88.7–255.1)	165.0 (89.8–296.8)	116.2 (63.2–209.0)	–0.84 (–0.98, –0.70)
Togo	874.4 (548.1–1383.2)	448.2 (281.0–709.1)	1909.8 (1022.7–3502.7)	305.7 (163.7–560.7)	–1.59 (–1.82, –1.36)
Tokelau	0.4 (0.2–0.8)	177.9 (96.2–319.0)	0.6 (0.3–1.0)	237.5 (132.1–386.8)	0.78 (0.47, 1.09)
Tonga	113.8 (72.4–174.4)	1198.8 (763.0–1837.8)	137.1 (86.2–204.2)	1021.0 (641.5–1520.6)	–0.85 (–1.09, –0.60)
Trinidad and Tobago	77.9 (47.1–114.1)	56.8 (34.3–83.1)	167.9 (96.0–269.7)	48.2 (27.6–77.4)	–1.09 (–1.38, –0.81)
Tunisia	432.5 (262.4–659.5)	49.7 (30.1–75.7)	1263.1 (665.3–2187.2)	54.0 (28.5–93.6)	–0.22 (–0.46, 0.03)
Türkiye	9536.4 (6489.4–13190.5)	159.6 (108.6–220.8)	21636.9 (13901.4–31341.5)	131.0 (84.1–189.7)	–0.69 (–0.97, –0.41)
Turkmenistan	525.5 (313.9–784.6)	161.8 (96.6–241.6)	959.1 (497.8–1629.1)	135.5 (70.3–230.2)	–0.34 (–0.77, 0.09)
Tuvalu	2.8 (1.7–4.6)	243.0 (147.7–394.5)	4.1 (2.4–6.8)	222.3 (129.8–371.0)	–0.36 (–0.47, –0.26)
Uganda	2623.1 (1461.5–4278.2)	250.8 (139.7–409.0)	3954.7 (2123.4–6578.3)	166.8 (89.5–277.4)	–2.08 (–2.47, –1.69)
Ukraine	5360.4 (3909.9–7228.3)	43.0 (31.4–58.0)	4332.0 (2864.7–6415.3)	31.9 (21.1–47.2)	–2.07 (–2.83, –1.31)
United Arab Emirates	220.0 (123.9–335.8)	392.0 (220.7–598.3)	2567.0 (1489.0–4205.0)	357.5 (207.4–585.6)	–0.49 (–0.73, –0.25)
United Kingdom	3997.5 (3044.5–5114.4)	26.9 (20.5–34.4)	14445.9 (11019.9–18449.1)	68.7 (52.4–87.7)	3.91 (3.61, 4.20)
United Republic of Tanzania	3136.9 (1720.4–4970.1)	173.9 (95.4–275.5)	4655.0 (2460.0–8072.3)	112.9 (59.7–195.8)	–1.98 (–2.17, –1.79)
United States of America	12817.8 (10279.7–15443.5)	24.4 (19.6–29.4)	50017.9 (39890.2–61051.6)	49.9 (39.8–60.9)	2.69 (2.51, 2.87)
United States Virgin Islands	6.5 (3.7–10.6)	46.7 (26.5–75.7)	19.4 (9.6–33.3)	60.3 (29.9–103.3)	1.08 (0.79, 1.37)
Uruguay	155.0 (89.9–237.2)	23.0 (13.3–35.1)	436.0 (252.4–681.0)	48.2 (27.9–75.3)	2.77 (2.48, 3.07)
Uzbekistan	1697.2 (920.6–2756.3)	86.8 (47.1–140.9)	5149.5 (2800.7–8484.4)	110.8 (60.2–182.5)	0.43 (0.17, 0.70)
Vanuatu	25.6 (14.2–51.6)	256.8 (142.2–517.8)	61.1 (33.3–110.8)	213.1 (116.1–386.2)	–0.45 (–0.62, –0.28)
Venezuela (Bolivarian Republic of)	1406.8 (834.8–2181.5)	89.8 (53.3–139.3)	1778.1 (959.5–2927.8)	34.0 (18.3–56.0)	–2.93 (–4.24, –1.60)
Viet Nam	51153.6 (30936.3–75593.9)	733.7 (443.7–1084.2)	95646.5 (53812.5–152657.8)	547.5 (308.1–873.9)	–0.89 (–0.97, –0.80)
Yemen	884.6 (312.4–1815.3)	110.3 (38.9–226.3)	1458.1 (677.7–2746.7)	64.8 (30.1–122.1)	–2.00 (–2.12, –1.88)
Zambia	1342.5 (737.9–2165.7)	291.6 (160.3–470.5)	1249.5 (442.2–3135.1)	115.7 (40.9–290.2)	–4.65 (–5.45, –3.84)
Zimbabwe	2938.4 (1544.6–4968.5)	443.3 (233.0–749.6)	4338.8 (2379.6–7250.9)	391.8 (214.9–654.8)	–1.49 (–2.16, –0.82)