

Figure S1 The global PAH prevalence, mortality and DALYs burden in 204 countries and territories. (A) PAH-related ASPR in 1992. (B) PAH-related ASPR in 2019. (C) PAH-related ASPR in 2021. (D) PAH-related ASDR in 1992. (E) PAH-related ASDR in 2019. (F) PAH-related ASDR in 2021. (G) PAH-related ASDALYs in 1992. (H) PAH-related ASDALYs in 2019. (I) PAH-related ASDALYs in 2021. PAH: pulmonary arterial hypertension; DALYs: disability-adjusted life years; ASPR: age-standardized prevalence rate; ASDR: age-standardized death rate; ASDALYs: age-standardized rate of DALYs.

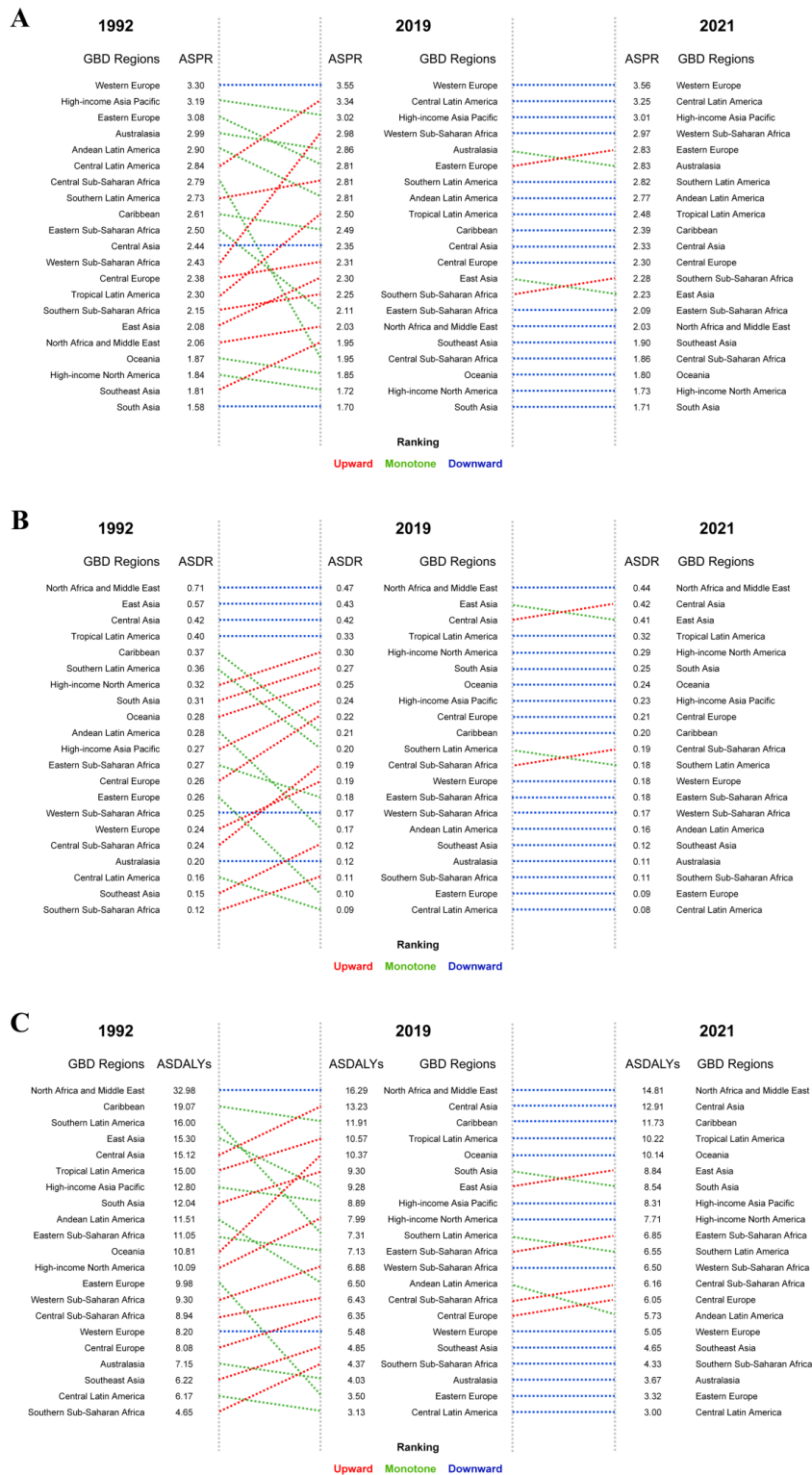


Figure S2 Ranking of GBD regions in terms of ASPR, ASDR and ASDALYs of PAH from 1992 to 2021. GBD: global burden of disease; PAH: pulmonary arterial hypertension; ASPR: age-standardized prevalence rate; ASDR: age-standardized death rate; ASDALYs: age-standardized rate of disability-adjusted life years.

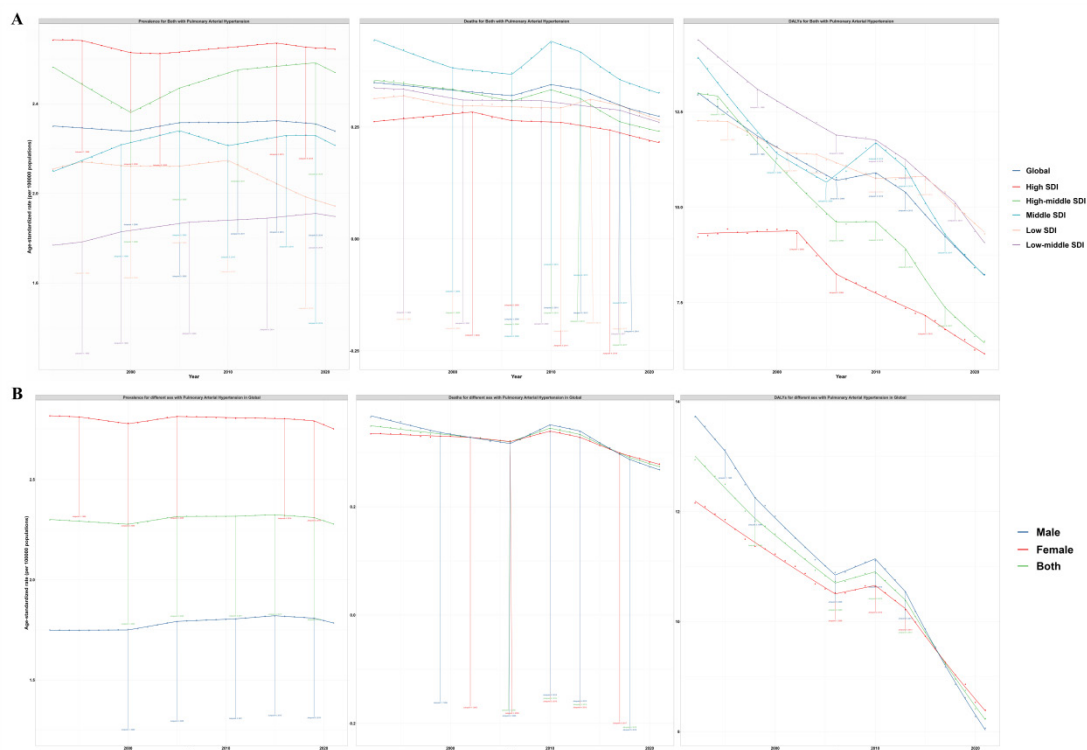


Figure S3 Jointpoint regression analysis of ASPR, ASDR and ASDALYs for PAH by SDI regions (A) and sex (B) from 1992 to 2021. PAH: pulmonary arterial hypertension; SDI: socio-demographic index; ASPR: age-standardized prevalence rate; ASDR: age-standardized death rate; ASDALYs: age-standardized rate of disability-adjusted life years.

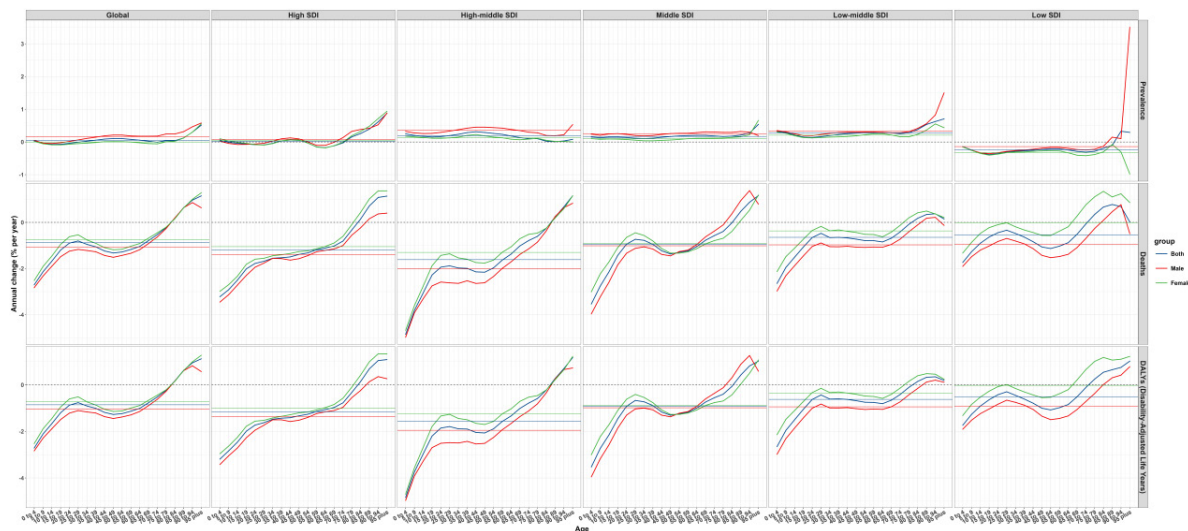


Figure S4 Local drifts of PAH ASPR, ASDR and ASDALYs (estimates from age-period-cohort models) for 20 age groups (<5 to 95+ years) from 1992 to 2021. PAH: pulmonary arterial hypertension; ASPR: age-standardized prevalence rate; ASDR: age-standardized death rate; ASDALYs: age-standardized rate of disability-adjusted life years.

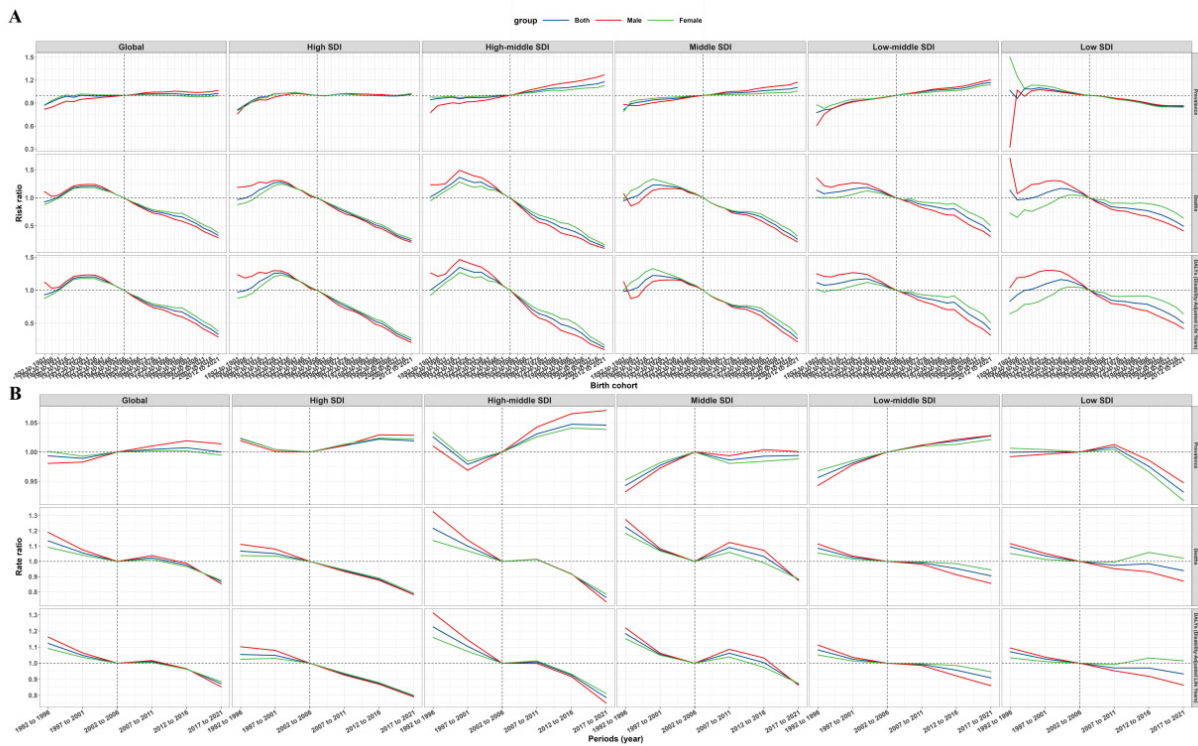


Figure S5 Age-period-cohort effects on PAH ASPR, ASDR and ASDALYs by global and SDI regions from 1992 to 2021. (A) Cohort effects were computed as the ratio of age-specific rates (adjusted for age and nonlinear period effects) from the 1892 cohort to the 2021 cohort, with the referent cohort set at 1947. (B) Period effects were computed as the ratio of age-specific rates (adjusted for age and nonlinear period effects) from 1992-1996 to 2017-2021, with the referent period set at 2002-2006. PAH: pulmonary arterial hypertension; SDI: socio-demographic index; ASPR: age-standardized prevalence rate; ASDR: age-standardized death rate; ASDALYs: age-standardized rate of disability-adjusted life years.

Table S1 Prevalence for PAH in 1992 and 2021 for both sex and GBD regions, and their temporal trends from 1992 to 2021

Variable	Prevalence (10 ³) (95% UI)		ASPR (95% UI)		EAPC (95% CI)
	1992	2021	1992	2021	1992–2021
Global	110099.11 (90103.87, 135861.57)	191808.22 (155356.95, 235787.14)	2.30 (1.87, 2.82)	2.28 (1.85, 2.80)	0.04 (0.02, 0.06)
Sex					
Male	41057.74 (33494.28, 50679.20)	73126.54 (58943.78, 89629.37)	1.75 (1.42, 2.13)	1.78 (1.44, 2.17)	0.15 (0.12, 0.18)
Female	69041.37 (56334.48, 84935.46)	118681.68 (95923.29, 146291.08)	2.82 (2.29, 3.47)	2.75 (2.24, 3.39)	−0.02 (−0.04, 0.00)
SDI					
Low	7417.90 (6113.15, 9170.00)	15180.80 (12474.43, 18747.09)	2.11 (1.70, 2.57)	1.94 (1.58, 2.36)	−0.26 (−0.34, −0.18)
Low-middle	15823.81 (13042.97, 19489.42)	32714.76 (26546.45, 40620.35)	1.77 (1.44, 2.15)	1.90 (1.53, 2.33)	0.26 (0.23, 0.29)
Middle	30855.56 (25249.12, 38119.91)	59666.73 (48064.58, 73648.38)	2.10 (1.70, 2.57)	2.21 (1.80, 2.71)	0.17 (0.10, 0.23)
High-middle	27934.76 (22679.63, 34454.61)	42635.88 (34236.20, 52931.66)	2.56 (2.08, 3.14)	2.54 (2.07, 3.12)	0.19 (0.10, 0.28)
High	27949.45 (22708.69, 34412.68)	41452.29 (33444.95, 51587.94)	2.68 (2.19, 3.29)	2.64 (2.15, 3.23)	−0.01 (−0.04, 0.02)
Age					
0–4 yr	1414.90 (1012.35, 1923.05)	1522.70 (1088.03, 2081.21)	0.23 (0.16, 0.31)	0.23 (0.17, 0.32)	–
5–9 yr	2769.46 (1998.23, 3629.00)	3133.23 (2248.50, 4120.20)	0.46 (0.33, 0.60)	0.46 (0.33, 0.60)	–
10–14 yr	3633.69 (2429.63, 5129.12)	4317.65 (2876.12, 6154.21)	0.66 (0.44, 0.93)	0.65 (0.43, 0.92)	–
15–19 yr	4863.47 (2873.86, 7375.04)	5735.66 (3365.86, 8767.63)	0.94 (0.56, 1.43)	0.92 (0.54, 1.41)	–
20–24 yr	6286.95 (4248.76, 9097.02)	7379.71 (4941.77, 10702.95)	1.26 (0.85, 1.82)	1.24 (0.83, 1.79)	–
25–29 yr	7506.61 (5051.32, 10915.65)	9344.54 (6238.15, 13583.68)	1.61 (1.08, 2.34)	1.59 (1.06, 2.31)	–
30–34 yr	7959.83 (5153.52, 11755.11)	12033.98 (7693.80, 17876.55)	2.00 (1.29, 2.95)	1.99 (1.27, 2.96)	–
35–39 yr	8783.44 (6088.77, 12316.37)	13365.86 (9218.57, 18799.89)	2.38 (1.65, 3.34)	2.38 (1.64, 3.35)	–
40–44 yr	8549.33 (5873.52, 11887.55)	13750.50 (9392.46, 19276.56)	2.75 (1.89, 3.83)	2.75 (1.88, 3.85)	–
45–49 yr	7630.71 (4935.45, 11166.25)	15016.53 (9643.37, 21952.29)	3.13 (2.03, 4.58)	3.17 (2.04, 4.64)	–
50–54 yr	8202.58 (5788.01, 11617.35)	16908.73 (11845.31, 23967.89)	3.79 (2.68, 5.37)	3.80 (2.66, 5.39)	–
55–59 yr	8647.93 (5943.30, 12195.61)	18012.76 (12333.54, 25500.52)	4.53 (3.11, 6.38)	4.55 (3.12, 6.44)	–
60–64 yr	8974.65 (5864.21, 13128.23)	17198.77 (11303.20, 25275.28)	5.40 (3.53, 7.89)	5.37 (3.53, 7.90)	–
65–69 yr	8455.44 (6036.35, 11624.10)	17267.75 (12303.88, 23727.71)	6.44 (4.60, 8.85)	6.26 (4.46, 8.60)	–
70–74 yr	6829.90 (4868.70, 9311.05)	15091.26 (10762.93, 20723.56)	7.47 (5.33, 10.19)	7.33 (5.23, 10.07)	–
75–79 yr	5129.45 (3475.47, 7375.51)	10542.36 (7017.60, 15278.14)	8.31 (5.63, 11.94)	7.99 (5.32, 11.58)	–
80–84 yr	2979.77 (2076.96, 4133.22)	6669.70 (4637.24, 9264.75)	7.94 (5.54, 11.02)	7.62 (5.29, 10.58)	–
85–89 yr	1138.76 (754.52, 1635.33)	3114.53 (2054.53, 4471.02)	6.87 (4.56, 9.87)	6.81 (4.49, 9.78)	–
90–94 yr	285.62 (182.00, 431.37)	1089.56 (687.19, 1647.61)	5.90 (3.76, 8.91)	6.09 (3.84, 9.21)	–
95+ yr	56.63 (33.21, 92.19)	312.45 (183.68, 505.50)	5.11 (3.00, 8.32)	5.73 (3.37, 9.27)	–
GBD Regions					
Andean Latin America	855.71 (701.43, 1050.85)	1777.16 (1434.00, 2193.65)	2.90 (2.35, 3.57)	2.77 (2.24, 3.40)	−0.21 (−0.33, −0.09)
Australasia	696.08 (565.80, 859.23)	1166.81 (935.86, 1444.34)	2.99 (2.44, 3.69)	2.83 (2.29, 3.44)	−0.15 (−0.19, −0.11)
Caribbean	824.65 (671.70, 1009.92)	1228.93 (987.13, 1505.96)	2.61 (2.12, 3.21)	2.39 (1.93, 2.93)	−0.4 (−0.49, −0.31)
Central Asia	1435.42 (1168.81, 1762.72)	2161.86 (1757.90, 2676.53)	2.44 (1.99, 2.97)	2.33 (1.90, 2.85)	0.00 (−0.09, 0.09)
Central Europe	3291.94 (2680.09, 4029.97)	3520.66 (2863.67, 4311.25)	2.38 (1.96, 2.88)	2.30 (1.89, 2.79)	−0.03 (−0.09, 0.04)
Central Latin America	3611.46 (2968.00, 4427.64)	8421.49 (6855.57, 10382.57)	2.84 (2.31, 3.48)	3.25 (2.64, 3.99)	0.16 (−0.04, 0.36)
Central Sub-Saharan Africa	1028.41 (846.38, 1277.97)	1693.37 (1377.93, 2093.53)	2.79 (2.27, 3.44)	1.86 (1.49, 2.24)	−1.15 (−1.32, −0.97)
East Asia	24011.79 (19460.39, 29852.28)	42486.04 (33929.79, 53043.15)	2.08 (1.69, 2.56)	2.23 (1.81, 2.75)	0.37 (0.32, 0.43)
Eastern Europe	7971.68 (6497.76, 9812.82)	7686.23 (6263.74, 9489.33)	3.08 (2.54, 3.75)	2.83 (2.32, 3.43)	0.07 (−0.25, 0.39)
Eastern Sub-Saharan Africa	3140.16 (2580.67, 3889.98)	5907.48 (4822.15, 7343.53)	2.50 (2.02, 3.04)	2.09 (1.70, 2.53)	−0.84 (−0.97, −0.7)
High-income Asia Pacific	6503.28 (5300.05, 7994.84)	9167.25 (7427.03, 11361.78)	3.19 (2.62, 3.90)	3.01 (2.47, 3.68)	−0.17 (−0.20, −0.14)
High-income North America	6059.52 (4917.25, 7437.99)	8625.44 (6917.78, 10745.03)	1.85 (1.51, 2.26)	1.73 (1.40, 2.12)	−0.19 (−0.30, −0.08)
North Africa and Middle East	5367.42 (4395.29, 6635.96)	11590.78 (9389.49, 14435.62)	2.06 (1.67, 2.52)	2.03 (1.64, 2.49)	−0.03 (−0.28, 0.22)
Oceania	91.07 (74.63, 112.24)	196.27 (158.79, 241.29)	1.87 (1.51, 2.29)	1.80 (1.45, 2.17)	0.13 (0.03, 0.24)
South Asia	13515.30 (11110.82, 16708.58)	29560.95 (23835.10, 36926.63)	1.58 (1.28, 1.92)	1.71 (1.38, 2.09)	0.29 (0.27, 0.30)
Southeast Asia	6857.94 (5632.91, 8466.33)	13615.88 (11019.31, 16956.99)	1.81 (1.47, 2.22)	1.90 (1.54, 2.32)	0.14 (−0.02, 0.30)
Southern Latin America	1342.41 (1092.24, 1641.58)	2227.32 (1800.20, 2759.99)	2.73 (2.22, 3.34)	2.82 (2.29, 3.48)	0.06 (0.02, 0.10)
Southern Sub-Saharan Africa	855.36 (705.53, 1041.00)	1596.23 (1287.45, 1944.80)	2.15 (1.75, 2.61)	2.28 (1.85, 2.76)	0.05 (−0.01, 0.11)
Tropical Latin America	2976.22 (2435.00, 3651.33)	6238.60 (5019.81, 7679.45)	2.30 (1.86, 2.81)	2.48 (2.00, 3.04)	0.17 (−0.01, 0.36)
Western Europe	16376.71 (13195.94, 20134.43)	23620.94 (19120.73, 29197.29)	3.30 (2.69, 4.05)	3.56 (2.92, 4.35)	0.3 (0.27, 0.34)
Western Sub-Saharan Africa	3286.57 (2714.91, 4049.88)	9318.55 (7635.34, 11570.12)	2.43 (1.96, 2.97)	2.97 (2.40, 3.63)	1.02 (0.80, 1.23)
Countries and territories					
Afghanistan	112.00 (90.90, 135.94)	277.76 (224.62, 343.77)	1.59 (1.28, 1.94)	1.46 (1.18, 1.78)	0.17 (−0.03, 0.36)
Albania	83.65 (67.61, 103.22)	90.51 (73.14, 111.48)	1.96 (1.58, 2.42)	2.68 (2.20, 3.28)	−0.27 (−0.35, −0.18)
Algeria	334.68 (273.92, 413.98)	782.08 (631.38, 978.98)	1.54 (1.26, 1.89)	1.86 (1.49, 2.31)	0.23 (0.08, 0.38)
American Samoa	0.78 (0.63, 0.97)	1.01 (0.82, 1.23)	1.58 (1.28, 1.93)	2.01 (1.62, 2.46)	0.20 (0.11, 0.29)
Andorra	2.35 (1.90, 2.92)	4.59 (3.68, 5.71)	1.87 (1.52, 2.28)	3.66 (2.98, 4.47)	0.29 (0.24, 0.35)
Angola	130.22 (105.29, 161.05)	330.89 (268.91, 408.28)	1.77 (1.43, 2.16)	1.61 (1.31, 1.97)	−0.46 (−0.61, −0.31)
Antigua and Barbuda	1.71 (1.40, 2.09)	2.85 (2.30, 3.55)	1.71 (1.39, 2.08)	2.74 (2.24, 3.39)	−0.4 (−0.5, −0.3)
Argentina	835.62 (676.58, 1020.92)	1370.63 (1107.84, 1702.27)	2.17 (1.76, 2.67)	2.65 (2.14, 3.29)	0.24 (0.21, 0.28)
Armenia	90.96 (74.76, 111.49)	100.74 (80.55, 124.84)	1.62 (1.31, 1.97)	2.77 (2.27, 3.40)	−0.07 (−0.09, −0.06)
Australia	584.23 (476.37, 722.33)	991.88 (794.10, 1225.55)	2.25 (1.82, 2.74)	2.87 (2.33, 3.49)	−0.12 (−0.15, −0.08)
Austria	350.79 (283.68, 433.36)	481.04 (386.86, 595.25)	1.83 (1.48, 2.25)	3.57 (2.91, 4.41)	0.24 (0.16, 0.33)
Azerbaijan	149.33 (121.89, 184.78)	298.88 (242.30, 370.23)	1.86 (1.51, 2.30)	2.67 (2.19, 3.25)	0.77 (0.52, 1.02)
Bahamas	5.63 (4.61, 6.92)	9.03 (7.26, 11.22)	1.75 (1.43, 2.11)	2.14 (1.73, 2.62)	−0.62 (−0.85, −0.39)
Bahrain	7.82 (6.32, 9.95)	28.25 (22.52, 35.84)	1.95 (1.58, 2.39)	1.83 (1.48, 2.25)	−0.03 (, 0.2−0.13)
Bangladesh	999.19 (814.62, 1236.07)	2842.40 (2308.79, 3540.67)	2.38 (1.93, 2.91)	1.81 (1.46, 2.23)	1.21 (1.04, 1.38)
Barbados	7.18 (5.81, 8.69)	9.97 (8.02, 12.30)	1.72 (1.39, 2.08)	2.47 (1.99, 3.03)	−0.37 (−0.47, −0.28)
Belarus	418.73 (342.31, 513.35)	384.53 (310.58, 480.08)	2.21 (1.81, 2.67)	3.10 (2.53, 3.78)	−0.07 (, 0.37−0.23)
Belgium	511.34 (408.85, 633.33)	719.50 (584.74, 900.01)	2.03 (1.65, 2.50)	4.22 (3.48, 5.21)	0.30 (0.19, 0.42)
Belize	2.99 (2.46, 3.66)	8.27 (6.72, 10.17)	1.67 (1.37, 2.02)	2.18 (1.76, 2.65)	−0.24 (−0.42, −0.05)
Benin	82.00 (67.45, 101.11)	215.66 (176.28, 267.46)	2.37 (1.92, 2.89)	2.54 (2.05, 3.10)	0.66 (0.10, 1.22)
Bermuda	1.95 (1.58, 2.41)	2.58 (2.06, 3.23)	2.51 (2.06, 3.06)	2.73 (2.22, 3.32)	−0.35 (−0.44, −0.26)
Bhutan	8.20 (6.66, 10.15)	11.94 (9.76, 14.79)	2.01 (1.64, 2.48)	1.64 (1.33, 2.02)	−0.56 (−0.63, −0.5)
Bolivia (Plurinational State of)	125.48 (102.33, 154.88)	265.92 (215.20, 329.44)	2.08 (1.69, 2.56)	2.45 (1.98, 3.00)	−0.29 (−0.41, −0.16)
Bosnia and Herzegovina	140.88 (114.97, 173.11)	121.28 (98.28, 149.93)	1.86 (1.51, 2.28)	2.80 (2.31, 3.41)	−0.26 (−0.41, −0.1)
Botswana	20.90 (17.10, 25.66)	39.16 (31.75, 48.58)	2.32 (1.88, 2.83)	1.95 (1.57, 2.40)	−0.45 (−0.51, −0.4)
Brazil	2896.89 (2371.11, 3553.44)	6077.92 (4890.48, 7486.91)	2.80 (2.32, 3.37)	2.48 (2.01, 3.04)	0.19 (0.00, 0.37)
Brunei Darussalam	4.03 (3.29, 5.08)	8.97 (7.16, 11.19)	2.31 (1.88, 2.82)	2.02 (1.62, 2.49)	0.07 (0.02, 0.13)
Bulgaria	218.51 (177.64, 267.79)	181.00 (146.16, 222.21)	2.65 (2.16, 3.19)	1.93 (1.57, 2.36)	−0.07 (, 0.16−0.01)
Burkina Faso	133.58 (109.07, 164.46)	303.37 (249.64, 371.05)	2.63 (2.17, 3.19)	2.10 (1.71, 2.57)	0.09 (−0.18, 0.36)
Burundi	95.60 (78.39, 117.43)	145.65 (116.49, 182.30)	1.75 (1.42, 2.15)	1.70 (1.36, 2.08)	−1.69 (−1.84, −1.53)
Cabo Verde	5.73 (4.70, 6.96)	13.69 (11.06, 16.91)	2.81 (2.31, 3.40)	2.61 (2.11, 3.17)	0.95 (0.80, 1.11)
Cambodia	117.08 (96.11, 145.81)	245.08 (196.80, 301.03)	2.13 (1.76, 2.58)	1.60 (1.29, 1.94)	0.01 (−0.10, 0.12)
Cameroon	171.86 (141.91, 209.58)	491.60 (402.64, 606.62)	2.43 (1.98, 2.97)	2.35 (1.90, 2.89)	0.33 (−0.04, 0.69)
Canada	673.23 (544.82, 828.08)	934.87 (749.08, 1164.43)	3.04 (2.50, 3.70)	1.77 (1.43, 2.17)	−0.54 (−0.75, −0.33)
Central African Republic	34.24 (27.68, 41.91)	61.02 (48.59, 75.82)	2.95 (2.40, 3.61)	1.67 (1.35, 2.03)	−0.39 (−0.45, −0.33)

Table S1 (continued)

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Variable	Prevalence (10 ³) (95% UI)		ASPR (95% UI)		EAPC (95% CI)
	1992	2021	1992	2021	1992–2021
Chad	72.25 (59.07, 89.00)	214.46 (173.58, 268.42)	3.47 (2.86, 4.21)	2.13 (1.71, 2.63)	0.99 (0.80, 1.19)
Chile	414.70 (341.11, 510.24)	758.02 (610.68, 930.79)	2.84 (2.33, 3.47)	3.30 (2.69, 4.03)	-0.29 (-0.36, -0.23)
China	23134.99 (18741.02, 28765.49)	41135.19 (32838.91, 51357.25)	2.24 (1.84, 2.75)	2.24 (1.81, 2.75)	0.39 (0.33, 0.44)
Colombia	801.29 (658.61, 976.17)	1816.56 (1473.80, 2240.82)	3.01 (2.48, 3.64)	3.38 (2.76, 4.15)	0.07 (-0.11, 0.25)
Comoros	6.53 (5.30, 8.11)	10.83 (8.71, 13.29)	2.81 (2.32, 3.41)	1.70 (1.37, 2.09)	-0.88 (-1.11, -0.64)
Congo	41.51 (33.73, 50.94)	87.63 (71.23, 108.07)	3.24 (2.69, 3.95)	2.13 (1.72, 2.62)	-0.47 (-0.71, -0.23)
Cook Islands	0.36 (0.29, 0.43)	0.46 (0.38, 0.57)	3.08 (2.53, 3.75)	2.17 (1.77, 2.68)	0.20 (0.11, 0.29)
Costa Rica	76.44 (62.78, 95.02)	189.26 (152.90, 233.07)	2.99 (2.45, 3.64)	3.58 (2.90, 4.38)	0.37 (0.21, 0.54)
Coted'Ivoire	189.63 (153.92, 235.03)	377.02 (304.79, 469.32)	3.50 (2.88, 4.27)	2.01 (1.64, 2.45)	-0.38 (-0.62, -0.14)
Croatia	156.47 (126.48, 192.58)	149.73 (120.88, 183.40)	2.09 (1.71, 2.53)	2.60 (2.13, 3.13)	-0.17 (-0.21, -0.12)
Cuba	303.31 (246.04, 370.62)	388.59 (309.06, 482.27)	3.90 (3.19, 4.78)	2.55 (2.06, 3.14)	-0.33 (-0.42, -0.24)
Cyprus	31.12 (25.14, 38.09)	76.42 (61.77, 92.99)	3.01 (2.46, 3.72)	4.24 (3.49, 5.13)	0.85 (0.64, 1.06)
Czechia	333.39 (272.71, 405.22)	374.89 (302.68, 459.06)	1.85 (1.50, 2.26)	2.62 (2.16, 3.16)	-0.17 (, 0.38-0.05)
Democratic People's Republic of Korea	402.29 (325.26, 502.01)	601.81 (478.99, 752.27)	2.50 (2.05, 3.03)	1.93 (1.56, 2.37)	-0.09 (-0.15, -0.03)
Democratic Republic of the Congo	795.51 (653.84, 986.27)	1165.86 (943.85, 1452.19)	2.40 (1.97, 2.89)	1.93 (1.55, 2.33)	-1.33 (-1.57, -1.1)
Denmark	212.88 (172.09, 262.25)	349.72 (282.19, 438.23)	2.19 (1.80, 2.66)	4.03 (3.31, 4.97)	0.94 (0.81, 1.06)
Djibouti	5.93 (4.80, 7.41)	19.42 (15.72, 23.93)	3.32 (2.74, 4.03)	1.92 (1.57, 2.35)	-0.15 (, 0.39-0.08)
Dominica	1.39 (1.13, 1.69)	1.73 (1.38, 2.13)	2.91 (2.36, 3.57)	2.23 (1.80, 2.72)	-0.06 (, 0.2-0.08)
Dominican Republic	162.19 (133.02, 200.42)	286.21 (230.70, 352.66)	2.58 (2.13, 3.14)	2.66 (2.14, 3.25)	-0.4 (-0.48, -0.33)
Ecuador	224.98 (183.43, 278.22)	518.61 (422.26, 640.18)	3.27 (2.68, 4.01)	2.97 (2.41, 3.63)	0.09 (-0.03, 0.20)
Egypt	1188.16 (967.43, 1489.74)	1547.37 (1262.19, 1927.18)	3.48 (2.85, 4.27)	1.74 (1.41, 2.14)	-1.90 (-2.17, -1.63)
El Salvador	104.54 (85.69, 127.39)	226.84 (185.61, 281.37)	3.60 (2.92, 4.42)	3.62 (2.95, 4.48)	1.31 (1.15, 1.47)
Equatorial Guinea	5.35 (4.35, 6.57)	18.23 (14.67, 22.99)	3.09 (2.50, 3.77)	1.86 (1.49, 2.30)	-0.12 (, 0.32-0.07)
Eritrea	43.30 (35.20, 53.44)	82.84 (66.50, 103.99)	3.20 (2.61, 3.91)	1.77 (1.42, 2.15)	-0.92 (-1.04, -0.8)
Estonia	62.93 (51.46, 77.50)	56.58 (45.26, 70.27)	3.09 (2.57, 3.74)	3.08 (2.53, 3.73)	-0.14 (, 0.4-0.13)
Eswatini	8.95 (7.31, 11.04)	14.69 (11.77, 18.00)	2.04 (1.65, 2.51)	1.74 (1.38, 2.12)	0.06 (0.02, 0.10)
Ethiopia	866.98 (712.96, 1072.64)	1856.64 (1521.26, 2307.14)	2.47 (2.01, 3.04)	2.53 (2.06, 3.09)	-0.48 (-0.68, -0.29)
Fiji	12.01 (9.84, 14.94)	17.15 (13.94, 21.06)	2.11 (1.72, 2.58)	1.94 (1.58, 2.37)	0.36 (0.19, 0.54)
Finland	195.77 (156.79, 241.79)	332.31 (268.06, 415.42)	2.18 (1.75, 2.67)	3.79 (3.10, 4.61)	0.81 (0.55, 1.06)
France	2443.91 (1971.87, 3012.52)	4013.54 (3243.84, 4928.16)	2.10 (1.68, 2.59)	4.07 (3.34, 4.98)	0.67 (0.56, 0.78)
Gabon	21.59 (17.81, 26.49)	29.75 (23.93, 36.78)	6.10 (5.02, 7.49)	2.05 (1.66, 2.51)	-0.82 (-1, -0.63)
Gambia	14.44 (11.90, 17.98)	32.73 (26.76, 40.54)	2.66 (2.16, 3.25)	2.03 (1.65, 2.50)	0.11 (-0.26, 0.47)
Georgia	155.34 (125.93, 189.30)	118.37 (96.01, 145.37)	3.46 (2.82, 4.24)	2.59 (2.12, 3.14)	-0.05 (-0.08, -0.02)
Germany	3476.45 (2807.04, 4291.37)	4886.47 (3953.61, 6093.82)	3.07 (2.48, 3.76)	3.59 (2.93, 4.36)	0.30 (0.21, 0.38)
Ghana	348.16 (285.68, 426.86)	807.11 (666.42, 999.67)	3.77 (3.07, 4.64)	3.26 (2.65, 4.00)	0.31 (-0.07, 0.70)
Greece	420.79 (335.10, 526.08)	459.14 (370.04, 569.60)	4.38 (3.56, 5.39)	2.88 (2.36, 3.53)	-0.31 (-0.55, -0.08)
Greenland	0.75 (0.61, 0.93)	0.87 (0.69, 1.09)	2.96 (2.42, 3.62)	1.32 (1.06, 1.62)	-0.53 (-0.73, -0.32)
Grenada	1.72 (1.42, 2.09)	2.33 (1.87, 2.88)	2.50 (2.02, 3.05)	2.06 (1.67, 2.53)	-0.24 (-0.32, -0.15)
Guam	2.51 (2.03, 3.11)	3.78 (3.06, 4.67)	2.99 (2.44, 3.64)	2.06 (1.69, 2.51)	0.15 (0.06, 0.23)
Guatemala	135.73 (110.95, 166.16)	393.03 (319.44, 485.64)	6.81 (5.67, 8.05)	2.94 (2.37, 3.61)	0.46 (0.27, 0.64)
Guinea	92.39 (75.86, 112.18)	194.87 (159.49, 238.51)	2.20 (1.77, 2.70)	2.25 (1.83, 2.71)	0.80 (0.54, 1.05)
Guinea-Bissau	11.62 (9.39, 14.40)	26.80 (21.94, 33.63)	2.10 (1.70, 2.58)	2.07 (1.68, 2.53)	0.92 (0.69, 1.16)
Guyana	12.21 (10.07, 15.07)	14.30 (11.60, 17.58)	2.57 (2.09, 3.15)	1.97 (1.60, 2.39)	-0.38 (-0.48, -0.28)
Haiti	94.92 (77.70, 117.63)	189.13 (151.80, 236.79)	2.94 (2.41, 3.59)	1.85 (1.48, 2.27)	-0.41 (-0.51, -0.31)
Honduras	80.90 (66.61, 99.32)	245.83 (201.41, 303.82)	3.24 (2.64, 3.97)	2.96 (2.40, 3.65)	0.40 (0.21, 0.59)
Hungary	380.66 (311.83, 463.93)	396.99 (318.54, 483.98)	3.12 (2.52, 3.84)	3.02 (2.48, 3.65)	0.15 (0.05, 0.24)
Iceland	8.52 (6.89, 10.42)	14.76 (11.90, 18.41)	4.02 (3.30, 4.93)	3.20 (2.61, 3.93)	0.20 (0.17, 0.22)
India	11192.24 (9221.99, 13843.15)	23741.72 (19176.40, 29559.14)	2.78 (2.26, 3.41)	1.74 (1.41, 2.12)	0.20 (0.18, 0.21)
Indonesia	2320.70 (1894.63, 2885.74)	4923.16 (3970.54, 6153.64)	3.41 (2.79, 4.16)	1.73 (1.41, 2.12)	0.30 (0.05, 0.55)
Iran (Islamic Republic of)	885.22 (722.72, 1094.79)	1903.63 (1532.67, 2361.21)	4.52 (3.69, 5.50)	2.13 (1.73, 2.62)	0.14 (-0.05, 0.33)
Iraq	233.11 (191.59, 287.05)	640.34 (524.62, 798.22)	2.73 (2.21, 3.35)	1.87 (1.52, 2.31)	0.08 (-0.11, 0.27)
Ireland	62.32 (50.51, 76.78)	123.54 (99.13, 154.20)	2.13 (1.74, 2.58)	1.89 (1.54, 2.34)	0.71 (0.66, 0.76)
Israel	231.88 (190.27, 280.31)	464.21 (377.68, 563.75)	2.61 (2.10, 3.18)	4.39 (3.61, 5.32)	-0.04 (, 0.1-0.02)
Italy	2863.91 (2302.32, 3551.46)	3881.79 (3154.34, 4755.03)	2.99 (2.43, 3.67)	3.95 (3.22, 4.82)	0.31 (0.26, 0.37)
Jamaica	54.60 (44.48, 66.06)	79.31 (64.21, 98.16)	1.60 (1.29, 1.98)	2.62 (2.12, 3.23)	-0.17 (-0.25, -0.09)
Japan	5236.49 (4262.86, 6448.99)	6753.76 (5460.24, 8398.47)	3.03 (2.45, 3.71)	3.09 (2.54, 3.79)	-0.14 (-0.17, -0.11)
Jordan	59.61 (48.46, 74.24)	242.77 (197.06, 299.34)	2.67 (2.17, 3.27)	2.25 (1.82, 2.78)	-0.17 (-0.32, -0.02)
Kazakhstan	387.78 (318.02, 467.81)	441.96 (360.54, 545.11)	2.36 (1.92, 2.89)	2.33 (1.90, 2.83)	-0.32 (-0.56, -0.09)
Kenya	386.65 (315.76, 477.86)	926.71 (761.54, 1138.65)	2.90 (2.32, 3.57)	2.59 (2.10, 3.15)	-0.19 (-0.37, -0.02)
Kiribati	0.96 (0.79, 1.19)	1.65 (1.33, 2.06)	3.42 (2.77, 4.16)	1.66 (1.33, 2.04)	0.14 (0.04, 0.24)
Kuwait	27.74 (22.21, 34.99)	105.94 (82.68, 135.19)	3.07 (2.50, 3.74)	2.17 (1.75, 2.64)	0.27 (0.12, 0.42)
Kyrgyzstan	93.94 (77.59, 114.39)	163.55 (133.53, 201.01)	2.01 (1.62, 2.46)	2.72 (2.22, 3.33)	0.35 (0.17, 0.54)
Lao People's Democratic Republic	54.13 (44.21, 67.22)	126.49 (102.63, 157.26)	2.73 (2.22, 3.34)	2.02 (1.64, 2.44)	0.44 (0.24, 0.64)
Latvia	103.98 (84.67, 126.90)	87.04 (70.65, 107.59)	2.29 (1.86, 2.81)	3.18 (2.62, 3.86)	0.30 (-0.05, 0.65)
Lebanon	55.40 (45.11, 68.34)	122.98 (99.21, 153.01)	2.31 (1.89, 2.82)	2.08 (1.68, 2.58)	0.13 (-0.04, 0.29)
Lesotho	19.22 (15.74, 23.30)	24.74 (20.33, 30.43)	2.21 (1.80, 2.68)	1.70 (1.38, 2.07)	0.02 (-0.01, 0.04)
Liberia	44.35 (36.53, 54.47)	82.42 (67.47, 103.25)	2.56 (2.08, 3.12)	2.21 (1.79, 2.73)	0.28 (-0.45, 1.02)
Libya	66.92 (54.35, 82.93)	144.08 (115.28, 180.97)	3.00 (2.44, 3.69)	2.11 (1.70, 2.58)	-0.3 (-0.53, -0.07)
Lithuania	135.29 (110.54, 165.91)	115.84 (94.01, 141.92)	1.82 (1.48, 2.23)	2.94 (2.42, 3.55)	-0.18 (, 0.42-0.05)
Luxembourg	14.38 (11.65, 17.61)	30.16 (24.50, 37.20)	2.39 (1.94, 2.90)	3.45 (2.81, 4.21)	0.44 (0.23, 0.65)
Madagascar	196.77 (161.23, 246.04)	380.30 (304.10, 479.37)	2.51 (2.02, 3.08)	1.96 (1.58, 2.39)	-1.04 (-1.23, -0.85)
Malawi	145.93 (118.25, 179.45)	202.87 (163.13, 252.97)	3.07 (2.46, 3.74)	1.60 (1.29, 1.95)	-1.53 (-1.67, -1.4)
Malaysia	276.90 (226.04, 343.09)	594.05 (479.09, 737.17)	2.57 (2.09, 3.14)	1.85 (1.50, 2.26)	0.05 (-0.01, 0.10)
Maldives	3.03 (2.46, 3.73)	10.72 (8.48, 13.60)	2.73 (2.23, 3.35)	2.06 (1.67, 2.55)	0.11 (0.01, 0.21)
Mali	133.43 (110.27, 163.79)	313.64 (256.74, 388.05)	2.59 (2.11, 3.16)	2.17 (1.75, 2.65)	-0.06 (, 0.33-0.21)
Malta	12.88 (10.42, 15.92)	25.99 (20.96, 32.14)	2.77 (2.25, 3.40)	3.74 (3.06, 4.59)	0.60 (0.43, 0.78)
Marshall Islands	0.51 (0.42, 0.63)	0.79 (0.64, 0.97)	2.18 (1.76, 2.65)	1.62 (1.31, 1.95)	0.14 (0.05, 0.24)
Mauritania	30.64 (25.45, 37.91)	75.35 (61.16, 93.19)	1.78 (1.45, 2.16)	2.45 (1.98, 3.02)	0.59 (0.38, 0.80)
Mauritius	33.24 (27.12, 41.18)	51.58 (41.59, 63.54)	2.44 (1.97, 2.96)	3.24 (2.65, 3.96)	0.05 (-0.08, 0.18)
Mexico	1829.15 (1501.22, 2252.77)	4287.35 (3482.55, 5273.35)	1.86 (1.49, 2.28)	3.22 (2.63, 3.95)	0.11 (-0.12, 0.35)
Micronesia (Federated States of)	1.31 (1.07, 1.61)	1.54 (1.25, 1.90)	2.05 (1.67, 2.53)	1.68 (1.37, 2.03)	0.09 (0.00, 0.18)
Monaco	1.68 (1.35, 2.10)	2.37 (1.90, 2.95)	2.92 (2.37, 3.59)	3.66 (3.00, 4.47)	0.42 (0.37, 0.48)
Mongolia	30.36 (24.55, 37.57)	62.91 (50.86, 78.33)	2.05 (1.66, 2.53)	2.09 (1.69, 2.55)	0.23 (0.09, 0.37)
Montenegro	15.62 (12.79, 19.06)	18.27 (14.67, 22.52)	2.91 (2.36, 3.56)	2.39 (1.96, 2.90)	0.07 (0.02, 0.13)
Morocco	361.15 (297.12, 448.09)	677.59 (545.76, 846.27)	1.76 (1.42, 2.16)	1.81 (1.46, 2.22)	0.15 (-0.03, 0.32)
Mozambique	185.82 (151.86, 228.42)	331.36 (268.25, 411.57)	1.81 (1.47, 2.21)	1.73 (1.40, 2.13)	-0.79 (-0.9, -0.68)
Myanmar	515.61 (419.32, 636.66)	858.20 (680.88, 1058.54)	2.59 (2.11, 3.13)	1.58 (1.27, 1.93)	0.06 (-0.09, 0.21)
Namibia	28.15 (22.87, 34.43)	51.01 (42.08, 61.85)	1.97 (1.62, 2.39)	2.67 (2.18, 3.22)	-0.27 (-0.38, -0.16)
Nauru	0.12 (0.10, 0.16)	0.14 (0.11, 0.17)	1.94 (1.59, 2.39)	1.63 (1.32, 1.98)	0.22 (0.12, 0.31)

Table S1 (continued)

Table S1 (continued)

Variable	Prevalence (10 ³) (95% UI)		ASPR (95% UI)		EAPC (95% CI)
	1992	2021	1992	2021	1992–2021
Nepal	216.72 (177.24, 267.17)	445.16 (362.01, 545.37)	1.63 (1.32, 1.98)	1.59 (1.29, 1.94)	0.22 (0.17, 0.27)
Netherlands	802.93 (647.69, 990.45)	1192.49 (950.66, 1473.31)	2.16 (1.75, 2.63)	4.66 (3.79, 5.76)	0.28 (0.23, 0.32)
New Zealand	111.85 (89.72, 136.85)	174.93 (141.38, 217.66)	1.70 (1.38, 2.09)	2.62 (2.11, 3.21)	-0.31 (-0.4, -0.23)
Nicaragua	68.64 (56.24, 85.02)	175.05 (142.37, 214.32)	1.64 (1.33, 1.99)	2.94 (2.38, 3.58)	-0.03 (, 0.28–0.22)
Niger	94.88 (77.68, 118.17)	301.69 (247.07, 374.74)	1.86 (1.51, 2.28)	2.16 (1.74, 2.65)	0.72 (0.51, 0.94)
Nigeria	1558.81 (1284.34, 1926.07)	5343.65 (4375.67, 6636.13)	2.12 (1.73, 2.59)	3.66 (2.95, 4.50)	1.87 (1.67, 2.07)
Niue	0.04 (0.04, 0.05)	0.04 (0.03, 0.05)	2.26 (1.84, 2.77)	1.99 (1.62, 2.44)	0.07 (-0.03, 0.16)
North Macedonia	50.80 (41.37, 61.99)	63.35 (50.96, 78.29)	2.22 (1.79, 2.68)	2.33 (1.90, 2.84)	0.15 (0.07, 0.23)
Northern Mariana Islands	0.84 (0.67, 1.09)	1.13 (0.91, 1.40)	1.35 (1.08, 1.64)	2.11 (1.72, 2.56)	-0.2 (-0.27, -0.12)
Norway	220.80 (178.73, 269.69)	303.16 (246.53, 375.46)	1.43 (1.16, 1.74)	4.00 (3.29, 4.91)	0.05 (0.01, 0.08)
Oman	28.51 (23.16, 35.78)	83.30 (67.15, 107.54)	1.51 (1.22, 1.83)	2.02 (1.64, 2.47)	0.23 (0.03, 0.44)
Pakistan	1098.95 (896.18, 1350.82)	2519.72 (2035.52, 3133.01)	1.83 (1.50, 2.25)	1.38 (1.11, 1.70)	0.31 (0.23, 0.38)
Palau	0.27 (0.22, 0.34)	0.41 (0.32, 0.50)	1.96 (1.60, 2.42)	1.84 (1.50, 2.24)	0.07 (-0.03, 0.18)
Palestine	27.50 (22.46, 33.85)	75.48 (61.28, 92.91)	1.33 (1.07, 1.64)	1.87 (1.52, 2.28)	0.41 (0.12, 0.69)
Panama	58.82 (48.13, 72.14)	152.15 (122.66, 187.72)	1.90 (1.54, 2.32)	3.47 (2.80, 4.27)	0.37 (0.21, 0.54)
Papua New Guinea	55.19 (45.11, 68.15)	140.86 (113.25, 173.92)	3.14 (2.53, 3.85)	1.78 (1.43, 2.16)	0.14 (0.04, 0.23)
Paraguay	79.33 (64.89, 96.30)	160.68 (130.29, 196.44)	2.83 (2.30, 3.44)	2.40 (1.95, 2.93)	-0.35 (-0.64, -0.06)
Peru	505.25 (414.04, 619.34)	992.62 (804.11, 1223.54)	1.85 (1.50, 2.26)	2.77 (2.23, 3.39)	-0.33 (-0.45, -0.22)
Philippines	1142.76 (937.28, 1412.07)	2238.48 (1836.21, 2775.80)	2.62 (2.11, 3.17)	2.20 (1.79, 2.68)	-0.41 (-0.61, -0.21)
Poland	909.10 (742.88, 1115.37)	1091.37 (890.40, 1342.74)	2.46 (2.00, 3.00)	2.19 (1.80, 2.65)	0.02 (-0.04, 0.08)
Portugal	266.54 (212.12, 331.29)	364.75 (292.90, 453.34)	1.89 (1.52, 2.31)	2.13 (1.74, 2.62)	-0.06 (, 0.13–0)
Puerto Rico	105.92 (85.26, 128.99)	126.21 (101.26, 157.57)	2.59 (2.10, 3.14)	2.62 (2.10, 3.18)	-0.34 (-0.42, -0.25)
Qatar	7.19 (5.65, 9.21)	54.26 (42.44, 69.78)	1.87 (1.49, 2.28)	1.89 (1.54, 2.30)	0.04 (-0.14, 0.21)
Republic of Korea	1186.81 (969.48, 1467.29)	2233.77 (1798.20, 2797.21)	1.81 (1.46, 2.18)	2.91 (2.39, 3.58)	-0.09 (-0.17, -0.01)
Republic of Moldova	136.37 (111.81, 166.88)	138.83 (112.19, 171.58)	2.09 (1.68, 2.55)	2.93 (2.39, 3.56)	0.41 (0.05, 0.78)
Romania	538.86 (436.35, 657.41)	480.97 (388.96, 592.33)	2.06 (1.66, 2.52)	1.89 (1.54, 2.31)	-0.26 (-0.31, -0.21)
Russian Federation	5261.01 (4296.25, 6469.08)	5452.53 (4431.73, 6731.29)	2.24 (1.84, 2.71)	2.90 (2.38, 3.51)	0.19 (-0.16, 0.54)
Rwanda	129.61 (105.81, 160.72)	165.05 (133.33, 206.34)	1.82 (1.48, 2.20)	1.69 (1.36, 2.11)	-1.87 (-2.1, -1.64)
Saint Kitts and Nevis	0.90 (0.73, 1.09)	1.36 (1.09, 1.71)	2.44 (1.99, 2.99)	1.97 (1.60, 2.41)	-0.59 (-0.69, -0.5)
Saint Lucia	2.67 (2.19, 3.22)	5.07 (4.05, 6.32)	2.54 (2.08, 3.10)	2.33 (1.88, 2.87)	-0.12 (, 0.38–0.15)
Saint Vincent and the Grenadines	1.93 (1.58, 2.33)	2.83 (2.27, 3.49)	2.34 (1.91, 2.87)	2.15 (1.74, 2.66)	-0.22 (-0.37, -0.07)
Samoa	2.74 (2.26, 3.34)	3.71 (3.05, 4.53)	2.13 (1.71, 2.57)	2.11 (1.71, 2.56)	0.09 (-0.08, 0.26)
San Marino	1.12 (0.91, 1.38)	1.99 (1.62, 2.50)	2.25 (1.80, 2.72)	3.85 (3.14, 4.70)	0.32 (0.30, 0.35)
Sao Tome and Principe	1.69 (1.39, 2.07)	4.03 (3.29, 5.04)	3.32 (2.71, 4.07)	2.44 (1.98, 3.01)	0.99 (0.83, 1.15)
Saudi Arabia	195.23 (158.53, 244.39)	672.66 (535.27, 842.31)	2.26 (1.83, 2.75)	1.91 (1.55, 2.32)	0.86 (0.67, 1.04)
Senegal	184.85 (152.09, 226.62)	268.26 (221.43, 331.61)	2.77 (2.25, 3.37)	2.37 (1.92, 2.90)	-1.46 (-1.92, -1)
Serbia	197.94 (159.80, 245.88)	242.11 (192.72, 299.97)	2.23 (1.81, 2.70)	2.09 (1.70, 2.55)	0.48 (0.41, 0.55)
Seychelles	1.20 (0.98, 1.47)	2.17 (1.75, 2.67)	1.98 (1.61, 2.39)	1.85 (1.50, 2.25)	0.14 (0.05, 0.24)
Sierra Leone	56.72 (46.12, 69.37)	131.00 (106.08, 162.81)	1.69 (1.37, 2.04)	2.18 (1.76, 2.71)	0.58 (0.21, 0.96)
Singapore	75.95 (61.19, 94.27)	170.75 (136.87, 212.29)	2.19 (1.79, 2.66)	2.24 (1.83, 2.77)	-0.35 (-0.4, -0.29)
Slovakia	147.39 (121.20, 179.67)	185.13 (149.29, 232.06)	3.36 (2.67, 4.12)	2.63 (2.15, 3.23)	-0.07 (, 0.25–0.12)
Slovenia	63.97 (52.31, 78.77)	73.83 (60.35, 91.37)	2.19 (1.78, 2.66)	2.58 (2.12, 3.14)	-0.22 (-0.25, -0.19)
Solomon Islands	4.14 (3.36, 5.12)	8.78 (7.16, 10.88)	2.75 (2.22, 3.37)	1.68 (1.35, 2.03)	0.18 (0.09, 0.28)
Somalia	98.28 (78.87, 122.24)	215.23 (171.36, 270.66)	1.77 (1.43, 2.17)	1.73 (1.39, 2.12)	-0.79 (-0.91, -0.66)
South Africa	641.30 (528.28, 782.55)	1266.71 (1021.29, 1543.69)	3.34 (2.70, 4.09)	2.38 (1.93, 2.88)	0.17 (0.11, 0.23)
South Sudan	80.73 (65.85, 101.12)	117.69 (95.08, 146.83)	2.02 (1.61, 2.50)	1.85 (1.49, 2.26)	-0.65 (-0.89, -0.4)
Spain	1357.15 (1089.50, 1671.96)	1970.83 (1573.23, 2448.12)	2.10 (1.68, 2.56)	2.82 (2.27, 3.46)	0.06 (-0.03, 0.15)
Sri Lanka	366.09 (298.05, 450.08)	645.83 (513.80, 798.34)	1.78 (1.42, 2.17)	2.54 (2.05, 3.09)	0.24 (0.15, 0.34)
Sudan	252.55 (207.09, 315.41)	531.02 (438.55, 667.25)	2.54 (2.06, 3.08)	1.68 (1.37, 2.05)	0.03 (-0.17, 0.23)
Suriname	8.89 (7.29, 10.93)	15.69 (12.70, 19.35)	2.55 (2.06, 3.11)	2.51 (2.05, 3.10)	-0.39 (-0.48, -0.3)
Sweden	706.00 (573.21, 867.36)	930.86 (755.77, 1152.74)	1.72 (1.39, 2.09)	6.30 (5.19, 7.70)	0.05 (0.03, 0.07)
Switzerland	609.31 (501.71, 727.57)	932.70 (761.48, 1150.89)	3.08 (2.51, 3.77)	7.09 (5.80, 8.66)	0.13 (0.10, 0.17)
Syrian Arab Republic	165.17 (134.48, 204.80)	279.91 (227.04, 345.64)	2.27 (1.84, 2.74)	1.96 (1.60, 2.41)	0.22 (-0.33, 0.77)
Taiwan (Province of China)	474.51 (385.48, 585.06)	749.04 (598.59, 928.75)	2.04 (1.64, 2.48)	2.26 (1.83, 2.77)	-0.07 (-0.11, -0.03)
Tajikistan	92.46 (74.96, 114.82)	191.88 (155.22, 238.51)	2.09 (1.69, 2.55)	2.27 (1.84, 2.77)	-0.07 (-0.09, -0.04)
Thailand	986.97 (801.00, 1225.87)	1891.89 (1513.44, 2391.99)	3.58 (2.90, 4.38)	2.08 (1.68, 2.55)	0.27 (0.21, 0.34)
Timor-Leste	9.54 (7.79, 12.08)	19.71 (15.94, 24.13)	1.88 (1.51, 2.28)	1.81 (1.47, 2.21)	0.14 (0.07, 0.22)
Togo	59.44 (48.70, 73.09)	121.10 (98.24, 150.40)	2.19 (1.77, 2.64)	2.05 (1.66, 2.51)	-0.39 (, 0.79–0.01)
Tokelau	0.02 (0.02, 0.03)	0.03 (0.02, 0.03)	1.57 (1.26, 1.91)	1.95 (1.58, 2.39)	0.88 (0.63, 1.12)
Tonga	1.61 (1.31, 1.96)	1.93 (1.58, 2.36)	1.64 (1.33, 2.01)	2.13 (1.72, 2.61)	0.16 (0.07, 0.25)
Trinidad and Tobago	23.68 (19.39, 28.88)	38.76 (31.14, 48.24)	2.32 (1.87, 2.80)	2.27 (1.83, 2.79)	0.09 (-0.09, 0.28)
Tunisia	150.87 (123.30, 185.47)	306.39 (246.00, 379.70)	1.98 (1.61, 2.44)	2.32 (1.88, 2.86)	0.33 (0.17, 0.48)
Turkey	953.48 (782.28, 1188.34)	2423.45 (1941.94, 3032.63)	2.94 (2.40, 3.60)	2.60 (2.10, 3.23)	1.15 (0.70, 1.60)
Turkmenistan	63.15 (51.62, 78.35)	103.17 (84.35, 128.23)	2.10 (1.69, 2.55)	2.15 (1.76, 2.64)	0.08 (-0.02, 0.17)
Tuvalu	0.15 (0.12, 0.19)	0.20 (0.16, 0.24)	2.08 (1.69, 2.53)	1.69 (1.36, 2.09)	-0.06 (, 0.16–0.04)
Uganda	368.98 (296.72, 457.52)	529.60 (432.42, 654.19)	1.95 (1.57, 2.36)	2.00 (1.60, 2.41)	-1.64 (-2.19, -1.07)
Ukraine	1853.36 (1507.82, 2289.95)	1450.87 (1164.47, 1795.18)	3.58 (2.91, 4.41)	2.52 (2.06, 3.07)	-0.33 (-0.57, -0.08)
United Arab Emirates	27.10 (21.37, 35.31)	175.24 (133.86, 229.61)	2.37 (1.93, 2.87)	1.67 (1.36, 2.04)	0.10 (-0.12, 0.32)
United Kingdom	1558.47 (1251.87, 1928.90)	2037.80 (1632.82, 2536.74)	2.14 (1.73, 2.61)	2.13 (1.73, 2.62)	0.13 (0.07, 0.19)
United Republic of Tanzania	413.07 (337.86, 503.35)	715.34 (575.53, 881.81)	2.39 (1.93, 2.93)	1.79 (1.44, 2.17)	-0.96 (-1.42, -0.5)
United States Virgin Islands	5385.40 (4370.01, 6615.18)	7689.56 (6171.59, 9562.46)	1.85 (1.50, 2.28)	1.72 (1.39, 2.12)	-0.15 (-0.25, -0.05)
United States of America	2.71 (2.20, 3.35)	3.10 (2.48, 3.88)	3.37 (2.74, 4.13)	2.44 (1.97, 2.95)	-0.35 (-0.45, -0.25)
Uruguay	92.02 (75.30, 113.43)	98.56 (79.51, 121.81)	2.15 (1.74, 2.62)	2.25 (1.83, 2.76)	-0.66 (-0.75, -0.57)
Uzbekistan	372.11 (305.32, 457.82)	680.40 (554.72, 842.77)	1.95 (1.58, 2.37)	2.10 (1.72, 2.55)	0.09 (-0.01, 0.20)
Vanuatu	1.74 (1.42, 2.18)	3.85 (3.14, 4.73)	2.02 (1.64, 2.46)	1.56 (1.27, 1.88)	0.18 (0.09, 0.27)
Venezuela (Bolivarian Republic of)	455.95 (369.57, 558.12)	935.42 (757.50, 1155.74)	2.38 (1.93, 2.89)	3.20 (2.60, 3.95)	0.13 (-0.18, 0.44)
Viet Nam	1020.72 (837.89, 1260.54)	1989.52 (1591.34, 2490.73)	1.70 (1.39, 2.07)	1.87 (1.51, 2.30)	0.13 (0.06, 0.21)
Yemen	225.05 (186.92, 279.12)	505.48 (413.17, 634.06)	2.62 (2.13, 3.20)	2.15 (1.73, 2.64)	-0.76 (-0.99, -0.54)
Zambia	113.60 (91.81, 140.90)	202.81 (165.31, 251.99)	2.81 (2.26, 3.42)	1.60 (1.29, 1.96)	-1.39 (-1.55, -1.24)
Zimbabwe	136.85 (112.40, 167.10)	199.92 (162.05, 250.11)	1.73 (1.40, 2.12)	1.85 (1.50, 2.29)	-0.64 (-0.85, -0.43)

GBD: global burden of disease; PAH: pulmonary arterial hypertension; ASPR: age-standardized prevalence rate; EAPC: estimated annual percentage change; UI: uncertainty intervals; CI: confidence interval.

Table S2 Mortality for PAH in 1992 and 2021 for both sex and GBD regions, and their temporal trends from 1992 to 2021

Variable	Death (10 ⁵) (95% UI)		ASDR (95% UI)		EAPC (95% CI)
	1992	2021	1992	2021	1992-2021
Global	15166.01 (12726.08, 17840.94)	22020.53 (18239.16, 25351.58)	0.35 (0.29, 0.41)	0.27 (0.23, 0.32)	-0.58 (-0.76, -0.41)
Sex					
Male	7419.88 (6086.17, 8787.76)	9578.59 (7516.26, 11703.37)	0.37 (0.29, 0.46)	0.27 (0.21, 0.33)	-0.73 (-0.94, -0.52)
Female	7746.13 (5473.02, 10369.35)	12441.95 (10000.92, 15375.96)	0.33 (0.24, 0.45)	0.28 (0.22, 0.34)	-0.46 (-0.61, -0.31)
SDI					
Low	1180.20 (760.10, 1782.60)	1781.76 (1146.62, 2543.99)	0.31 (0.15, 0.50)	0.27 (0.15, 0.40)	-0.33 (-0.46, -0.21)
Low-middle	3117.05 (2199.37, 3946.46)	3727.67 (2756.51, 5091.39)	0.34 (0.22, 0.46)	0.26 (0.18, 0.38)	-0.71 (-0.79, -0.62)
Middle	4822.86 (3947.42, 5919.18)	7548.44 (5141.35, 9025.54)	0.44 (0.35, 0.56)	0.33 (0.22, 0.39)	-0.57 (-0.86, -0.28)
High-middle	3294.97 (2868.88, 3993.38)	4326.29 (3594.30, 5141.35)	0.35 (0.31, 0.43)	0.24 (0.20, 0.29)	-1.14 (-1.36, -0.92)
High	2736.66 (2490.53, 2949.29)	4620.83 (3919.09, 5054.49)	0.26 (0.24, 0.28)	0.22 (0.19, 0.23)	-0.67 (-0.85, -0.49)
Age					
0-4 yr	3428.79 (2004.22, 4792.44)	1409.44 (1079.29, 1784.85)	0.55 (0.32, 0.77)	0.21 (0.16, 0.27)	-
5-9 yr	247.19 (176.46, 326.96)	151.20 (121.50, 188.25)	0.04 (0.03, 0.05)	0.02 (0.02, 0.03)	-
10-14 yr	191.75 (146.15, 240.29)	153.92 (121.75, 193.77)	0.03 (0.03, 0.04)	0.02 (0.02, 0.03)	-
15-19 yr	295.71 (231.79, 383.18)	258.41 (206.90, 334.29)	0.06 (0.04, 0.07)	0.04 (0.03, 0.05)	-
20-24 yr	344.23 (266.08, 455.87)	327.95 (258.92, 417.00)	0.07 (0.05, 0.09)	0.05 (0.04, 0.07)	-
25-29 yr	431.65 (339.95, 540.28)	420.22 (348.47, 507.18)	0.09 (0.07, 0.12)	0.07 (0.06, 0.09)	-
30-34 yr	358.55 (283.45, 455.22)	399.78 (335.05, 477.82)	0.09 (0.07, 0.11)	0.07 (0.06, 0.08)	-
35-39 yr	448.41 (358.86, 553.34)	479.16 (407.82, 560.30)	0.12 (0.10, 0.15)	0.09 (0.07, 0.10)	-
40-44 yr	555.40 (452.90, 695.90)	618.97 (524.53, 727.59)	0.18 (0.15, 0.22)	0.12 (0.10, 0.15)	-
45-49 yr	391.54 (315.79, 485.02)	520.34 (446.78, 617.81)	0.16 (0.13, 0.20)	0.11 (0.09, 0.13)	-
50-54 yr	549.33 (441.08, 680.82)	736.07 (621.91, 861.62)	0.25 (0.20, 0.31)	0.17 (0.14, 0.19)	-
55-59 yr	743.83 (593.97, 921.90)	1101.66 (859.65, 1316.89)	0.39 (0.31, 0.48)	0.28 (0.22, 0.33)	-
60-64 yr	865.95 (694.96, 1066.56)	1147.73 (912.13, 1341.33)	0.52 (0.42, 0.64)	0.36 (0.28, 0.42)	-
65-69 yr	1108.07 (895.82, 1358.15)	1751.37 (1383.16, 2081.13)	0.84 (0.68, 1.03)	0.63 (0.50, 0.75)	-
70-74 yr	1231.59 (970.35, 1542.23)	2233.33 (1686.32, 2659.84)	1.35 (1.06, 1.69)	1.08 (0.82, 1.29)	-
75-79 yr	1385.80 (1090.21, 1703.00)	2546.98 (1883.56, 3074.53)	2.24 (1.77, 2.76)	1.93 (1.43, 2.33)	-
80-84 yr	1235.02 (944.96, 1558.08)	2794.11 (2065.10, 3387.63)	3.29 (2.52, 4.15)	3.19 (2.36, 3.87)	-
85-89 yr	871.14 (680.64, 1077.95)	2617.12 (2027.43, 3071.38)	5.26 (4.11, 6.51)	5.72 (4.43, 6.72)	-
90-94 yr	367.31 (281.95, 441.36)	1633.88 (1270.15, 1922.09)	7.58 (5.82, 9.11)	9.13 (7.10, 10.74)	-
95+ yr	114.73 (87.97, 137.79)	718.89 (518.40, 850.10)	10.35 (7.94, 12.43)	13.19 (9.51, 15.60)	-
GBD Regions					
Andean Latin America	84.81 (58.89, 112.45)	91.30 (71.95, 119.39)	0.28 (0.21, 0.34)	0.16 (0.12, 0.20)	-1.82 (-2.10, -1.54)
Australasia	47.00 (40.51, 57.94)	57.71 (49.08, 64.86)	0.20 (0.18, 0.25)	0.11 (0.10, 0.13)	-2.3 (-2.75, -1.85)
Caribbean	123.96 (85.32, 163.94)	95.37 (65.56, 129.66)	0.37 (0.28, 0.47)	0.20 (0.13, 0.29)	-2.63 (-2.90, -2.37)
Central Asia	226.46 (182.33, 262.13)	318.52 (260.93, 381.55)	0.42 (0.33, 0.48)	0.41 (0.34, 0.48)	0.22 (-0.04, 0.47)
Central Europe	360.47 (320.28, 392.21)	437.61 (397.77, 478.87)	0.26 (0.23, 0.28)	0.21 (0.19, 0.23)	-0.65 (-0.94, -0.37)
Central Latin America	190.95 (167.88, 220.20)	201.26 (176.86, 230.33)	0.16 (0.14, 0.18)	0.08 (0.07, 0.10)	-2.77 (-3.11, -2.42)
Central Sub-Saharan Africa	89.97 (56.36, 169.54)	131.19 (61.77, 237.43)	0.24 (0.11, 0.48)	0.19 (0.08, 0.37)	-0.69 (-0.77, -0.62)
East Asia	4172.38 (3268.20, 5607.58)	7489.97 (4986.46, 9266.10)	0.57 (0.44, 0.78)	0.41 (0.28, 0.50)	-0.45 (-0.87, -0.03)
Eastern Europe	615.88 (581.97, 655.67)	278.32 (257.85, 300.35)	0.26 (0.24, 0.27)	0.09 (0.08, 0.10)	-4.17 (-4.47, -3.87)
Eastern Sub-Saharan Africa	381.41 (225.43, 715.35)	467.75 (219.41, 877.96)	0.27 (0.11, 0.52)	0.18 (0.07, 0.34)	-1.5 (-1.53, -1.46)
High-income Asia Pacific	484.22 (456.90, 511.19)	1048.79 (825.84, 1200.54)	0.27 (0.26, 0.29)	0.23 (0.20, 0.26)	-0.57 (-0.68, -0.46)
High-income North America	1109.16 (985.23, 1206.91)	1879.78 (1619.72, 2042.97)	0.32 (0.28, 0.34)	0.29 (0.26, 0.31)	-0.52 (-0.69, -0.35)
North Africa and Middle East	2023.58 (1312.87, 2555.06)	1895.82 (1328.35, 2305.00)	0.71 (0.54, 0.92)	0.44 (0.31, 0.53)	-1.26 (-1.40, -1.11)
Oceania	12.46 (8.06, 19.99)	24.94 (16.69, 43.31)	0.28 (0.18, 0.52)	0.24 (0.16, 0.48)	-0.53 (-0.59, -0.47)
South Asia	2440.63 (1504.13, 3519.63)	3548.80 (2321.09, 5531.78)	0.31 (0.17, 0.50)	0.25 (0.16, 0.42)	-0.48 (-0.59, -0.36)
Southeast Asia	519.86 (358.83, 1137.17)	741.47 (525.47, 1849.86)	0.15 (0.10, 0.43)	0.12 (0.08, 0.32)	-0.73 (-0.81, -0.64)
Southern Latin America	173.93 (157.32, 189.42)	150.04 (138.46, 161.77)	0.36 (0.33, 0.39)	0.18 (0.17, 0.20)	-2.18 (-2.38, -1.99)
Southern Sub-Saharan Africa	44.50 (33.67, 60.07)	71.71 (52.97, 85.71)	0.12 (0.08, 0.16)	0.11 (0.08, 0.13)	-0.08 (-0.34, 0.18)
Tropical Latin America	441.11 (418.39, 462.64)	779.39 (713.74, 822.48)	0.40 (0.37, 0.42)	0.32 (0.29, 0.34)	-1.64 (-2.24, -1.03)
Western Europe	1274.24 (1134.29, 1410.65)	1787.52 (1533.39, 1942.67)	0.24 (0.21, 0.26)	0.18 (0.16, 0.19)	-1.00 (-1.53, -0.46)
Western Sub-Saharan Africa	349.04 (204.41, 639.70)	523.27 (305.71, 773.92)	0.25 (0.09, 0.51)	0.17 (0.07, 0.28)	-1.47 (-1.57, -1.36)
Countries and territories					
Afghanistan	37.65 (19.66, 61.26)	125.41 (56.31, 188.57)	0.39 (0.20, 0.70)	0.67 (0.24, 1.10)	2.43 (1.95, 2.90)
Albania	11.15 (7.55, 14.93)	11.03 (7.11, 19.33)	0.49 (0.34, 0.68)	0.28 (0.19, 0.48)	-1.58 (-1.77, -1.39)
Algeria	50.62 (33.37, 91.01)	119.31 (42.52, 184.58)	0.28 (0.18, 0.58)	0.40 (0.13, 0.61)	2.24 (1.73, 2.76)
American Samoa	0.04 (0.03, 0.09)	0.05 (0.03, 0.12)	0.17 (0.12, 0.38)	0.13 (0.07, 0.28)	-0.84 (-0.88, -0.80)
Andorra	0.14 (0.10, 0.19)	0.17 (0.11, 0.27)	0.25 (0.18, 0.34)	0.11 (0.07, 0.17)	-2.55 (-2.74, -2.36)
Angola	18.70 (11.42, 41.00)	30.49 (16.39, 57.06)	0.26 (0.13, 0.55)	0.19 (0.09, 0.36)	-1.17 (-1.23, -1.11)
Antigua and Barbuda	0.06 (0.06, 0.07)	0.04 (0.03, 0.04)	0.11 (0.10, 0.12)	0.04 (0.04, 0.04)	-4.56 (-5.05, -4.07)
Argentina	140.26 (125.09, 154.13)	108.46 (99.98, 117.73)	0.43 (0.38, 0.47)	0.20 (0.19, 0.22)	-2.28 (-2.46, -2.10)
Armenia	7.83 (6.56, 9.32)	3.18 (2.59, 3.79)	0.29 (0.24, 0.34)	0.08 (0.06, 0.09)	-5.33 (-6.22, -4.44)
Australia	41.62 (35.30, 52.62)	50.10 (42.14, 56.89)	0.22 (0.18, 0.27)	0.12 (0.10, 0.13)	-2.42 (-2.81, -2.03)
Austria	21.33 (19.58, 23.03)	24.91 (21.77, 27.61)	0.19 (0.17, 0.20)	0.13 (0.12, 0.14)	-1.16 (-1.87, -0.44)
Azerbaijan	42.28 (28.79, 59.96)	53.66 (32.46, 82.50)	0.75 (0.52, 1.04)	0.57 (0.36, 0.85)	-1.15 (-1.26, -1.04)
Bahamas	2.18 (1.82, 2.51)	1.58 (1.25, 1.98)	1.02 (0.85, 1.18)	0.40 (0.32, 0.50)	-4.34 (-4.94, -3.74)
Bahrain	0.47 (0.35, 1.01)	1.08 (0.50, 2.05)	0.19 (0.14, 0.51)	0.16 (0.07, 0.31)	0.15 (-0.55, 0.85)
Bangladesh	256.92 (120.53, 417.74)	382.58 (189.27, 663.54)	0.41 (0.16, 0.83)	0.30 (0.14, 0.57)	-1.07 (-1.32, -0.82)
Barbados	3.04 (2.65, 3.38)	1.63 (1.31, 2.01)	1.05 (0.93, 1.17)	0.36 (0.29, 0.45)	-4.83 (-5.39, -4.26)
Belarus	4.90 (3.92, 6.03)	5.76 (4.74, 6.89)	0.04 (0.04, 0.06)	0.04 (0.03, 0.05)	-0.50 (-0.67, -0.34)
Belgium	45.76 (39.75, 56.34)	44.98 (37.75, 50.32)	0.32 (0.28, 0.39)	0.18 (0.16, 0.20)	-1.85 (-2.17, -1.52)
Belize	0.79 (0.72, 0.89)	0.50 (0.44, 0.56)	0.47 (0.42, 0.53)	0.15 (0.13, 0.16)	-5.07 (-5.71, -4.42)
Benin	7.54 (4.32, 13.18)	12.81 (6.69, 20.49)	0.21 (0.08, 0.43)	0.15 (0.06, 0.27)	-1.00 (-1.10, -0.89)
Bermuda	1.03 (0.89, 1.17)	0.74 (0.62, 0.91)	1.67 (1.45, 1.90)	0.57 (0.48, 0.69)	-4.95 (-5.53, -4.37)
Bhutan	1.52 (0.84, 2.36)	1.81 (0.91, 2.96)	0.39 (0.17, 0.68)	0.31 (0.15, 0.52)	-0.92 (-0.97, -0.88)
Bolivia (Plurinational State of)	23.01 (12.70, 37.18)	21.16 (14.84, 30.39)	0.41 (0.26, 0.60)	0.24 (0.17, 0.34)	-1.85 (-1.89, -1.82)
Bosnia and Herzegovina	11.58 (7.91, 15.85)	12.30 (8.89, 16.00)	0.29 (0.20, 0.39)	0.21 (0.15, 0.27)	-1.05 (-1.20, -0.90)
Botswana	1.46 (0.94, 2.36)	1.79 (1.23, 2.43)	0.18 (0.11, 0.28)	0.10 (0.07, 0.14)	-1.74 (-1.85, -1.62)
Brazil	438.57 (415.17, 460.41)	775.14 (709.73, 818.47)	0.41 (0.38, 0.43)	0.33 (0.30, 0.34)	-0.88 (-1.42, -0.35)
Brunei Darussalam	0.91 (0.50, 1.20)	0.95 (0.60, 1.19)	0.47 (0.29, 0.62)	0.27 (0.20, 0.34)	-1.50 (-1.65, -1.36)
Bulgaria	14.44 (12.21, 16.84)	11.42 (8.47, 14.98)	0.14 (0.11, 0.16)	0.09 (0.07, 0.12)	-0.44 (-1.00, 0.12)
Burkina Faso	20.55 (9.53, 38.31)	35.96 (17.27, 59.45)	0.31 (0.09, 0.64)	0.27 (0.09, 0.52)	-0.32 (-0.43, -0.21)
Burundi	15.98 (8.79, 32.66)	15.92 (6.39, 31.86)	0.37 (0.15, 0.82)	0.21 (0.07, 0.44)	-2.02 (-2.15, -1.89)
Cabo Verde	0.66 (0.24, 1.43)	0.59 (0.22, 1.10)	0.20 (0.06, 0.46)	0.13 (0.05, 0.24)	-1.86 (-2.02, -1.70)
Cambodia	12.29 (6.36, 26.22)	16.81 (10.07, 38.10)	0.16 (0.08, 0.43)	0.13 (0.07, 0.35)	-0.88 (-0.92, -0.83)
Cameroon	16.19 (8.83, 29.09)	31.63 (19.03, 53.48)	0.24 (0.10, 0.47)	0.17 (0.08, 0.31)	-1.23 (-1.40, -1.05)
Canada	105.31 (96.85, 113.22)	94.55 (82.70, 103.85)	0.33 (0.31, 0.36)	0.14 (0.13, 0.15)	-4.57 (-5.36, -3.77)
Central African Republic	5.56 (3.24, 10.84)	7.73 (3.82, 13.81)	0.30 (0.13, 0.63)	0.25 (0.10, 0.45)	-0.61 (-0.65, -0.57)

Table S2 (continued)

Table S2 (continued)

Variable	Death (10 ³) (95% UI)		ASDR (95% UI)		EAPC (95% CI)
	1992	2021	1992	2021	1992–2021
Chad	11.92 (5.51, 24.52)	27.39 (14.59, 48.71)	0.26 (0.07, 0.61)	0.24 (0.08, 0.47)	-0.26 (-0.42, -0.10)
Chile	25.82 (24.08, 27.49)	33.65 (30.42, 36.58)	0.22 (0.21, 0.23)	0.14 (0.13, 0.16)	-1.80 (-2.19, -1.41)
China	4115.08 (3224.23, 5529.90)	7317.95 (4835.72, 9075.75)	0.59 (0.46, 0.80)	0.42 (0.28, 0.51)	-0.50 (-0.91, -0.08)
Colombia	36.67 (30.19, 46.07)	51.87 (42.97, 62.50)	0.16 (0.13, 0.19)	0.10 (0.08, 0.12)	-1.93 (-2.35, -1.52)
Comoros	0.99 (0.59, 1.79)	0.84 (0.41, 1.65)	0.27 (0.13, 0.50)	0.15 (0.07, 0.30)	-2.02 (-2.31, -1.73)
Congo	3.28 (2.24, 6.76)	4.45 (2.62, 8.34)	0.21 (0.13, 0.45)	0.15 (0.08, 0.29)	-1.46 (-1.54, -1.39)
Cook Islands	0.03 (0.03, 0.07)	0.03 (0.02, 0.07)	0.25 (0.18, 0.53)	0.14 (0.08, 0.33)	-2.38 (-2.52, -2.25)
Costa Rica	9.22 (8.48, 9.91)	5.61 (4.85, 6.30)	0.44 (0.40, 0.48)	0.10 (0.09, 0.12)	-6.15 (-6.75, -5.54)
Coted'Ivoire	18.48 (11.06, 30.94)	30.73 (15.98, 49.62)	0.24 (0.09, 0.46)	0.18 (0.07, 0.32)	-0.96 (-1.07, -0.85)
Croatia	5.55 (4.75, 6.42)	4.02 (3.34, 4.81)	0.10 (0.09, 0.11)	0.05 (0.04, 0.05)	-1.40 (-2.04, -0.77)
Cuba	11.25 (10.41, 12.20)	8.64 (7.53, 9.86)	0.11 (0.10, 0.12)	0.05 (0.04, 0.06)	-3.82 (-4.44, -3.20)
Cyprus	13.45 (6.86, 18.00)	14.55 (7.31, 18.60)	2.10 (1.07, 2.77)	0.80 (0.38, 1.02)	-3.23 (-3.36, -3.09)
Czechia	49.71 (42.36, 58.24)	88.46 (75.73, 101.06)	0.38 (0.33, 0.45)	0.43 (0.36, 0.49)	0.69 (0.42, 0.96)
Democratic People's Republic of Korea	45.22 (31.29, 82.36)	95.21 (66.92, 160.09)	0.34 (0.22, 0.65)	0.35 (0.24, 0.58)	0.31 (0.10, 0.52)
Democratic Republic of the Congo	60.29 (36.92, 109.94)	86.26 (36.21, 160.62)	0.23 (0.10, 0.45)	0.19 (0.07, 0.39)	-0.46 (-0.56, -0.37)
Denmark	16.91 (15.26, 18.39)	20.96 (18.02, 23.13)	0.23 (0.21, 0.25)	0.18 (0.15, 0.19)	-1.18 (-1.85, -0.51)
Djibouti	0.71 (0.39, 1.31)	1.20 (0.54, 2.33)	0.23 (0.11, 0.47)	0.15 (0.07, 0.29)	-1.50 (-1.57, -1.43)
Dominica	0.11 (0.07, 0.21)	0.07 (0.05, 0.17)	0.18 (0.11, 0.36)	0.09 (0.07, 0.23)	-2.90 (-3.17, -2.62)
Dominican Republic	11.84 (8.67, 16.77)	8.76 (5.98, 23.26)	0.17 (0.13, 0.32)	0.08 (0.06, 0.23)	-2.85 (-3.16, -2.54)
Ecuador	19.45 (15.49, 23.85)	27.30 (22.91, 32.30)	0.28 (0.20, 0.34)	0.18 (0.15, 0.21)	-1.19 (-1.80, -0.57)
Egypt	657.09 (355.41, 921.47)	282.17 (220.48, 376.81)	1.06 (0.74, 1.39)	0.36 (0.28, 0.50)	-3.55 (-3.74, -3.36)
El Salvador	12.58 (8.87, 16.03)	7.74 (5.29, 15.88)	0.29 (0.20, 0.38)	0.12 (0.08, 0.24)	-3.65 (-3.91, -3.39)
Equatorial Guinea	0.75 (0.44, 1.45)	0.81 (0.44, 1.44)	0.25 (0.12, 0.51)	0.11 (0.06, 0.20)	-3.03 (-3.27, -2.79)
Eritrea	6.51 (3.62, 13.17)	8.50 (3.97, 16.23)	0.30 (0.14, 0.65)	0.21 (0.09, 0.43)	-1.05 (-1.18, -0.93)
Estonia	0.40 (0.36, 0.44)	1.12 (0.92, 1.31)	0.02 (0.02, 0.03)	0.04 (0.03, 0.04)	2.49 (0.52, 4.50)
Eswatini	0.83 (0.59, 1.27)	1.04 (0.68, 1.45)	0.18 (0.12, 0.27)	0.13 (0.09, 0.18)	-0.72 (-1.02, -0.43)
Ethiopia	96.98 (49.31, 177.67)	97.35 (38.22, 203.37)	0.27 (0.10, 0.53)	0.15 (0.05, 0.30)	-2.37 (-2.49, -2.26)
Fiji	0.89 (0.55, 1.70)	1.01 (0.54, 2.06)	0.21 (0.13, 0.43)	0.15 (0.08, 0.32)	-1.32 (-1.41, -1.24)
Finland	5.86 (5.01, 6.69)	7.73 (6.54, 8.72)	0.09 (0.07, 0.10)	0.06 (0.05, 0.07)	-1.21 (-1.95, -0.47)
France	246.31 (199.41, 299.22)	325.05 (279.45, 361.07)	0.30 (0.25, 0.37)	0.21 (0.19, 0.23)	-1.27 (-1.54, -0.99)
Gabon	1.40 (0.77, 2.67)	1.45 (0.77, 2.58)	0.21 (0.10, 0.43)	0.13 (0.07, 0.24)	-1.51 (-1.59, -1.44)
Gambia	1.47 (0.71, 2.64)	2.57 (1.17, 4.68)	0.24 (0.08, 0.46)	0.19 (0.07, 0.34)	-0.84 (-0.99, -0.70)
Georgia	22.70 (17.38, 28.59)	58.04 (45.46, 72.63)	0.39 (0.30, 0.50)	1.01 (0.79, 1.27)	4.77 (3.81, 5.73)
Germany	303.14 (258.77, 341.00)	543.72 (452.64, 604.01)	0.26 (0.23, 0.30)	0.26 (0.22, 0.28)	0.28 (-0.62, 1.18)
Ghana	20.14 (11.51, 38.45)	25.94 (14.16, 44.39)	0.22 (0.10, 0.45)	0.13 (0.06, 0.23)	-1.94 (-2.06, -1.81)
Greece	37.11 (33.91, 39.82)	87.19 (75.86, 97.73)	0.27 (0.25, 0.29)	0.32 (0.29, 0.36)	0.55 (0.11, 0.98)
Greenland	0.28 (0.13, 0.37)	0.10 (0.08, 0.16)	0.76 (0.38, 0.96)	0.19 (0.15, 0.30)	-5.39 (-5.72, -5.06)
Grenada	0.65 (0.57, 0.76)	0.27 (0.23, 0.31)	0.82 (0.72, 0.96)	0.26 (0.22, 0.29)	-5.04 (-5.70, -4.38)
Guam	0.12 (0.08, 0.24)	0.10 (0.05, 0.22)	0.14 (0.09, 0.33)	0.06 (0.03, 0.12)	-2.11 (-2.45, -1.78)
Guatemala	15.04 (13.65, 18.21)	6.66 (5.66, 7.77)	0.28 (0.25, 0.32)	0.06 (0.05, 0.07)	-6.41 (-6.96, -5.85)
Guinea	13.63 (7.22, 28.03)	18.55 (9.16, 32.09)	0.25 (0.09, 0.57)	0.21 (0.08, 0.41)	-0.58 (-0.72, -0.44)
Guinea-Bissau	2.14 (1.24, 3.97)	2.67 (1.33, 4.67)	0.32 (0.14, 0.60)	0.23 (0.10, 0.42)	-1.01 (-1.11, -0.92)
Guyana	1.26 (1.09, 1.42)	2.67 (2.05, 3.46)	0.19 (0.17, 0.21)	0.39 (0.30, 0.50)	-1.20 (-2.81, 0.44)
Haiti	52.91 (21.06, 89.81)	53.33 (26.63, 86.85)	0.83 (0.42, 1.20)	0.49 (0.28, 0.73)	-1.88 (-1.98, -1.77)
Honduras	7.16 (4.27, 10.43)	11.73 (7.75, 18.46)	0.26 (0.15, 0.42)	0.20 (0.12, 0.32)	-1.10 (-1.23, -0.98)
Hungary	40.94 (36.47, 46.36)	30.76 (25.05, 38.32)	0.30 (0.27, 0.34)	0.16 (0.13, 0.21)	-0.84 (-1.58, -0.09)
Iceland	0.48 (0.43, 0.52)	0.75 (0.62, 0.87)	0.16 (0.15, 0.18)	0.13 (0.11, 0.15)	-1.10 (-1.86, -0.33)
India	1805.57 (1137.84, 2586.44)	2611.57 (1738.58, 4059.81)	0.29 (0.17, 0.47)	0.24 (0.15, 0.39)	-0.43 (-0.58, -0.27)
Indonesia	193.73 (114.31, 443.59)	267.71 (170.28, 672.39)	0.14 (0.08, 0.42)	0.12 (0.07, 0.37)	-0.67 (-0.76, -0.58)
Iran (Islamic Republic of)	450.46 (295.65, 565.28)	428.63 (285.60, 493.98)	1.33 (0.84, 1.78)	0.61 (0.40, 0.70)	-2.43 (-2.53, -2.32)
Iraq	37.37 (21.37, 58.54)	37.56 (19.83, 79.91)	0.24 (0.14, 0.49)	0.15 (0.08, 0.38)	-1.85 (-1.91, -1.80)
Ireland	6.47 (5.92, 7.00)	8.40 (7.20, 9.47)	0.16 (0.15, 0.17)	0.11 (0.10, 0.12)	-1.56 (-2.19, -0.93)
Israel	24.71 (21.34, 32.16)	34.94 (29.87, 39.32)	0.49 (0.42, 0.63)	0.27 (0.23, 0.30)	-1.98 (-2.33, -1.63)
Italy	164.94 (153.35, 173.46)	137.91 (115.44, 152.51)	0.20 (0.19, 0.21)	0.09 (0.08, 0.10)	-3.57 (-4.09, -3.05)
Jamaica	4.34 (3.70, 4.99)	2.11 (1.65, 2.72)	0.20 (0.17, 0.23)	0.07 (0.05, 0.09)	-4.64 (-5.16, -4.12)
Japan	436.27 (411.19, 454.55)	1002.43 (785.83, 1147.27)	0.32 (0.30, 0.33)	0.29 (0.25, 0.32)	-0.41 (-0.52, -0.29)
Jordan	1.67 (0.86, 7.19)	4.35 (1.91, 14.18)	0.05 (0.03, 0.28)	0.06 (0.02, 0.20)	1.07 (0.56, 1.59)
Kazakhstan	7.05 (5.68, 8.50)	7.48 (6.09, 9.04)	0.05 (0.04, 0.07)	0.05 (0.04, 0.06)	-0.43 (-0.55, -0.31)
Kenya	20.05 (10.46, 40.27)	32.91 (14.34, 65.25)	0.14 (0.05, 0.31)	0.12 (0.05, 0.23)	-0.37 (-0.49, -0.25)
Kiribati	0.13 (0.07, 0.26)	0.18 (0.10, 0.36)	0.30 (0.17, 0.68)	0.25 (0.16, 0.57)	-0.69 (-0.73, -0.64)
Kuwait	0.71 (0.64, 0.78)	3.95 (3.36, 4.65)	0.06 (0.05, 0.07)	0.14 (0.12, 0.16)	4.19 (2.42, 6.00)
Kyrgyzstan	3.34 (2.83, 4.00)	2.41 (1.95, 2.96)	0.10 (0.08, 0.12)	0.05 (0.04, 0.06)	-2.52 (-2.98, -2.06)
Lao People's Democratic Republic	7.84 (3.04, 19.49)	8.76 (4.79, 20.04)	0.23 (0.11, 0.55)	0.15 (0.09, 0.36)	-1.50 (-1.57, -1.43)
Latvia	0.74 (0.67, 0.83)	4.18 (3.54, 4.81)	0.02 (0.02, 0.03)	0.10 (0.09, 0.12)	4.92 (2.57, 7.32)
Lebanon	20.71 (13.18, 30.56)	23.43 (17.49, 38.10)	0.86 (0.54, 1.27)	0.37 (0.28, 0.59)	-3.12 (-3.26, -2.99)
Lesotho	1.44 (0.88, 2.37)	1.90 (1.28, 2.56)	0.14 (0.09, 0.24)	0.14 (0.10, 0.20)	0.49 (0.17, 0.80)
Liberia	4.61 (2.79, 8.12)	5.94 (2.59, 10.70)	0.27 (0.12, 0.54)	0.19 (0.07, 0.36)	-1.28 (-1.40, -1.17)
Libya	12.82 (7.78, 24.62)	17.83 (8.05, 31.21)	0.29 (0.19, 0.60)	0.37 (0.17, 0.64)	1.90 (1.56, 2.23)
Lithuania	1.53 (1.36, 1.72)	4.50 (3.83, 5.18)	0.04 (0.03, 0.04)	0.08 (0.07, 0.09)	3.64 (1.59, 5.72)
Luxembourg	1.54 (1.41, 1.66)	2.31 (1.97, 2.60)	0.30 (0.28, 0.32)	0.21 (0.18, 0.23)	-1.47 (-2.20, -0.74)
Madagascar	38.92 (24.06, 78.50)	58.23 (30.96, 112.10)	0.41 (0.20, 0.78)	0.31 (0.15, 0.61)	-0.88 (-0.93, -0.82)
Malawi	18.09 (11.19, 32.85)	18.71 (9.07, 33.13)	0.22 (0.10, 0.43)	0.16 (0.07, 0.30)	-1.18 (-1.31, -1.06)
Malaysia	10.34 (7.02, 32.23)	19.15 (11.46, 64.87)	0.08 (0.05, 0.30)	0.07 (0.04, 0.26)	-0.31 (-0.54, -0.09)
Maldives	0.82 (0.57, 1.08)	0.75 (0.57, 1.14)	0.50 (0.36, 0.66)	0.19 (0.15, 0.30)	-3.35 (-3.46, -3.25)
Mali	14.79 (7.75, 30.92)	27.38 (12.76, 52.77)	0.23 (0.08, 0.52)	0.18 (0.06, 0.38)	-0.64 (-0.70, -0.58)
Malta	0.40 (0.37, 0.43)	0.77 (0.66, 0.87)	0.10 (0.09, 0.11)	0.08 (0.07, 0.10)	-0.96 (-1.71, -0.21)
Marshall Islands	0.07 (0.04, 0.13)	0.08 (0.05, 0.17)	0.34 (0.20, 0.68)	0.23 (0.14, 0.50)	-1.25 (-1.32, -1.18)
Mauritania	2.73 (1.51, 5.56)	3.71 (1.76, 6.89)	0.20 (0.09, 0.45)	0.14 (0.06, 0.28)	-1.19 (-1.25, -1.13)
Mauritius	1.78 (1.65, 1.94)	11.01 (9.78, 11.99)	0.21 (0.19, 0.23)	0.71 (0.63, 0.77)	5.08 (4.36, 5.80)
Mexico	88.49 (79.74, 103.52)	100.75 (88.65, 112.26)	0.15 (0.13, 0.17)	0.09 (0.08, 0.10)	-2.15 (-2.60, -1.70)
Micronesia (Federated States of)	0.19 (0.12, 0.36)	0.16 (0.10, 0.33)	0.35 (0.22, 0.75)	0.24 (0.15, 0.55)	-1.29 (-1.40, -1.18)
Monaco	0.12 (0.08, 0.18)	0.14 (0.09, 0.21)	0.17 (0.13, 0.24)	0.15 (0.10, 0.21)	-0.72 (-0.93, -0.52)
Mongolia	21.42 (11.83, 32.42)	34.25 (19.88, 43.98)	1.79 (1.07, 2.80)	1.59 (0.91, 2.05)	-0.39 (-0.56, -0.22)
Montenegro	0.27 (0.12, 1.37)	0.29 (0.13, 1.71)	0.04 (0.02, 0.23)	0.03 (0.02, 0.20)	-1.04 (-1.31, -0.78)
Morocco	71.51 (41.56, 127.79)	131.02 (50.26, 201.15)	0.32 (0.18, 0.65)	0.43 (0.15, 0.67)	1.71 (1.35, 2.07)
Mozambique	25.71 (14.14, 47.57)	40.25 (18.01, 70.27)	0.27 (0.10, 0.57)	0.24 (0.09, 0.46)	-0.05 (-0.24, 0.15)
Myanmar	72.60 (38.89, 158.43)	75.38 (48.28, 178.16)	0.22 (0.13, 0.55)	0.15 (0.10, 0.42)	-1.54 (-1.68, -1.40)
Namibia	1.44 (1.02, 2.10)	2.18 (1.50, 3.03)	0.16 (0.11, 0.23)	0.13 (0.09, 0.19)	-0.71 (-0.83, -0.59)
Nauru	0.02 (0.01, 0.04)	0.02 (0.01, 0.04)	0.33 (0.21, 0.63)	0.37 (0.24, 1.00)	0.39 (0.02, 0.76)

Table S2 (continued)

Table S2 (continued)

Variable	Death (10 ³) (95% UI)		ASDR (95% UI)		EAPC (95% CI)
	1992	2021	1992	2021	1992–2021
Nepal	53.94 (30.80, 83.92)	67.87 (34.14, 116.67)	0.37 (0.16, 0.64)	0.31 (0.15, 0.58)	-0.57 (-0.71, -0.42)
Netherlands	34.69 (31.59, 37.63)	47.80 (41.31, 53.33)	0.18 (0.16, 0.19)	0.14 (0.12, 0.15)	-1.39 (-2.27, -0.50)
New Zealand	5.38 (4.94, 5.80)	7.61 (6.67, 8.48)	0.14 (0.13, 0.15)	0.10 (0.09, 0.11)	-1.68 (-2.53, -0.83)
Nicaragua	4.19 (2.27, 6.78)	2.31 (1.42, 8.77)	0.14 (0.07, 0.30)	0.05 (0.03, 0.19)	-4.12 (-4.38, -3.85)
Niger	15.44 (7.67, 29.05)	30.57 (10.78, 61.19)	0.28 (0.08, 0.67)	0.23 (0.05, 0.52)	-0.65 (-0.72, -0.58)
Nigeria	169.20 (97.45, 311.90)	227.64 (153.30, 332.36)	0.25 (0.09, 0.52)	0.14 (0.07, 0.23)	-2.19 (-2.35, -2.02)
Niue	0.01 (0.00, 0.01)	0.00 (0.00, 0.01)	0.26 (0.16, 0.60)	0.23 (0.14, 0.52)	-1.19 (-1.50, -0.87)
North Macedonia	2.74 (1.87, 4.43)	3.43 (1.76, 6.20)	0.16 (0.10, 0.27)	0.12 (0.07, 0.23)	-0.50 (-0.64, -0.36)
Northern Mariana Islands	0.03 (0.02, 0.06)	0.05 (0.03, 0.11)	0.13 (0.07, 0.29)	0.11 (0.07, 0.28)	-1.01 (-1.22, -0.79)
Norway	9.13 (8.57, 9.59)	4.77 (4.24, 5.20)	0.17 (0.16, 0.18)	0.05 (0.05, 0.05)	-5.11 (-6.38, -3.83)
Oman	1.21 (0.65, 3.73)	2.64 (0.95, 5.07)	0.10 (0.05, 0.38)	0.11 (0.04, 0.24)	2.08 (0.94, 3.24)
Pakistan	322.68 (198.91, 481.64)	484.97 (311.47, 747.24)	0.35 (0.18, 0.57)	0.32 (0.18, 0.56)	-0.31 (-0.45, -0.17)
Palau	0.02 (0.01, 0.04)	0.02 (0.01, 0.05)	0.18 (0.10, 0.41)	0.13 (0.06, 0.30)	-1.07 (-1.14, -1.00)
Palestine	4.12 (1.96, 7.76)	3.85 (1.54, 10.54)	0.23 (0.10, 0.56)	0.13 (0.05, 0.41)	-1.70 (-1.80, -1.59)
Panama	3.45 (2.99, 3.85)	2.57 (2.04, 3.08)	0.19 (0.17, 0.22)	0.06 (0.05, 0.07)	-5.29 (-5.93, -4.64)
Papua New Guinea	9.03 (5.61, 14.44)	20.46 (13.24, 35.65)	0.30 (0.18, 0.59)	0.27 (0.17, 0.55)	-0.39 (-0.44, -0.33)
Paraguay	2.53 (1.65, 7.22)	4.25 (2.58, 12.43)	0.08 (0.05, 0.28)	0.07 (0.04, 0.22)	-0.27 (-0.41, -0.13)
Peru	42.34 (30.03, 56.45)	42.84 (30.81, 62.50)	0.24 (0.19, 0.31)	0.13 (0.09, 0.18)	-2.12 (-2.30, -1.93)
Philippines	52.74 (33.58, 112.94)	69.90 (47.94, 183.52)	0.10 (0.06, 0.30)	0.08 (0.05, 0.24)	-0.91 (-1.14, -0.67)
Poland	71.67 (63.42, 80.49)	77.24 (69.35, 84.06)	0.17 (0.15, 0.19)	0.12 (0.11, 0.13)	-1.36 (-1.79, -0.93)
Portugal	31.43 (29.15, 33.85)	56.06 (47.71, 63.05)	0.27 (0.25, 0.28)	0.22 (0.19, 0.24)	-0.85 (-1.51, -0.18)
Puerto Rico	21.83 (20.19, 23.44)	6.06 (5.04, 7.15)	0.59 (0.55, 0.64)	0.10 (0.08, 0.12)	-6.91 (-7.27, -6.55)
Qatar	0.29 (0.20, 0.60)	1.29 (0.65, 2.07)	0.16 (0.11, 0.36)	0.13 (0.07, 0.19)	0.20 (-0.30, 0.70)
Republic of Korea	40.99 (29.90, 71.10)	39.43 (22.00, 136.24)	0.12 (0.09, 0.26)	0.06 (0.03, 0.17)	-2.67 (-2.73, -2.61)
Republic of Moldova	0.08 (0.07, 0.09)	0.32 (0.28, 0.38)	0.00 (0.00, 0.00)	0.01 (0.01, 0.01)	4.17 (1.81, 6.59)
Romania	126.98 (105.65, 147.44)	170.10 (145.82, 194.90)	0.50 (0.42, 0.57)	0.49 (0.42, 0.55)	-0.47 (-0.80, -0.13)
Russian Federation	562.90 (525.69, 603.87)	220.72 (204.07, 238.34)	0.36 (0.34, 0.38)	0.10 (0.10, 0.11)	-4.95 (-5.28, -4.63)
Rwanda	20.20 (11.82, 40.95)	13.93 (6.15, 29.60)	0.37 (0.18, 0.79)	0.17 (0.07, 0.37)	-3.22 (-3.47, -2.98)
Saint Kitts and Nevis	0.07 (0.06, 0.09)	0.04 (0.03, 0.05)	0.19 (0.16, 0.23)	0.07 (0.06, 0.09)	-4.58 (-5.19, -3.96)
Saint Lucia	0.80 (0.73, 0.88)	0.52 (0.43, 0.62)	0.80 (0.74, 0.88)	0.24 (0.20, 0.29)	-5.46 (-6.05, -4.86)
Saint Vincent and the Grenadines	0.09 (0.08, 0.10)	0.08 (0.07, 0.09)	0.09 (0.09, 0.10)	0.06 (0.05, 0.07)	-3.83 (-4.77, -2.88)
Samoa	0.26 (0.18, 0.50)	0.30 (0.20, 0.64)	0.27 (0.18, 0.60)	0.20 (0.13, 0.47)	-1.00 (-1.07, -0.93)
San Marino	0.04 (0.03, 0.08)	0.04 (0.03, 0.11)	0.10 (0.07, 0.22)	0.05 (0.03, 0.12)	-1.31 (-1.69, -0.93)
Sao Tome and Principe	0.16 (0.09, 0.30)	0.17 (0.06, 0.32)	0.16 (0.07, 0.37)	0.13 (0.05, 0.24)	-0.74 (-0.88, -0.60)
Saudi Arabia	14.18 (9.10, 30.25)	18.01 (9.19, 35.62)	0.13 (0.08, 0.38)	0.08 (0.04, 0.20)	-1.15 (-1.68, -0.61)
Senegal	14.15 (7.72, 25.84)	17.87 (7.15, 31.77)	0.25 (0.09, 0.49)	0.18 (0.06, 0.33)	-1.05 (-1.18, -0.92)
Serbia	12.64 (7.72, 31.41)	14.80 (8.97, 30.18)	0.14 (0.08, 0.39)	0.09 (0.06, 0.19)	-1.75 (-1.92, -1.57)
Seychelles	0.07 (0.05, 0.21)	0.08 (0.04, 0.24)	0.11 (0.07, 0.36)	0.08 (0.04, 0.25)	-0.92 (-1.05, -0.79)
Sierra Leone	10.04 (6.23, 18.23)	12.38 (6.57, 20.64)	0.27 (0.12, 0.51)	0.20 (0.08, 0.34)	-1.12 (-1.25, -0.99)
Singapore	6.05 (5.67, 6.49)	5.99 (5.28, 6.63)	0.23 (0.21, 0.24)	0.09 (0.08, 0.10)	-2.91 (-3.40, -2.41)
Slovakia	5.86 (3.73, 11.99)	5.61 (3.48, 11.40)	0.10 (0.06, 0.22)	0.06 (0.04, 0.13)	-1.15 (-1.40, -0.91)
Slovenia	0.95 (0.83, 1.09)	1.78 (1.49, 2.07)	0.04 (0.03, 0.04)	0.04 (0.03, 0.04)	-0.13 (-0.42, 0.16)
Solomon Islands	0.43 (0.26, 0.71)	0.76 (0.49, 1.45)	0.26 (0.14, 0.54)	0.22 (0.13, 0.51)	-0.53 (-0.59, -0.46)
Somalia	19.20 (8.17, 36.07)	34.20 (9.37, 73.40)	0.36 (0.11, 0.72)	0.27 (0.06, 0.58)	-0.88 (-1.00, -0.76)
South Africa	30.93 (25.23, 38.43)	46.42 (34.93, 54.51)	0.11 (0.08, 0.14)	0.09 (0.07, 0.11)	-0.27 (-0.52, -0.02)
South Sudan	15.20 (7.94, 29.36)	16.92 (8.78, 30.28)	0.32 (0.13, 0.66)	0.24 (0.09, 0.44)	-1.00 (-1.35, -0.65)
Spain	146.51 (133.64, 157.03)	240.60 (200.21, 270.13)	0.29 (0.27, 0.31)	0.22 (0.19, 0.24)	-1.12 (-1.80, -0.43)
Sri Lanka	52.96 (39.66, 90.18)	101.29 (63.11, 147.64)	0.39 (0.30, 0.67)	0.42 (0.27, 0.60)	1.04 (0.58, 1.51)
Sudan	76.05 (40.15, 136.15)	123.99 (59.59, 183.20)	0.36 (0.20, 0.68)	0.42 (0.18, 0.61)	1.08 (0.65, 1.51)
Suriname	2.50 (1.64, 2.97)	1.88 (1.40, 2.77)	0.75 (0.53, 0.88)	0.32 (0.24, 0.47)	-3.26 (-3.55, -2.97)
Sweden	20.97 (19.31, 22.37)	25.84 (21.97, 28.92)	0.16 (0.15, 0.17)	0.12 (0.11, 0.14)	-0.89 (-1.39, -0.39)
Switzerland	35.79 (30.06, 42.76)	37.40 (30.50, 42.49)	0.35 (0.31, 0.43)	0.19 (0.16, 0.21)	-2.56 (-2.95, -2.16)
Syrian Arab Republic	9.97 (5.50, 36.49)	6.17 (2.73, 33.04)	0.09 (0.05, 0.40)	0.06 (0.03, 0.29)	-1.85 (-2.21, -1.49)
Taiwan (Province of China)	12.07 (11.34, 12.79)	76.80 (65.75, 84.87)	0.08 (0.08, 0.09)	0.18 (0.16, 0.20)	6.12 (4.62, 7.63)
Tajikistan	44.92 (29.22, 59.43)	53.18 (34.31, 72.52)	1.29 (0.82, 1.70)	0.81 (0.53, 1.09)	-1.83 (-2.11, -1.55)
Thailand	41.02 (26.57, 132.63)	62.39 (34.54, 281.83)	0.09 (0.06, 0.38)	0.07 (0.04, 0.28)	-1.16 (-1.37, -0.96)
Timor-Leste	1.12 (0.55, 2.48)	1.63 (0.96, 3.71)	0.18 (0.09, 0.49)	0.15 (0.08, 0.43)	-0.51 (-0.72, -0.29)
Togo	5.21 (3.01, 9.74)	8.78 (4.03, 14.62)	0.22 (0.09, 0.44)	0.18 (0.07, 0.31)	-0.80 (-0.93, -0.67)
Tokelau	0.00 (0.00, 0.01)	0.00 (0.00, 0.01)	0.29 (0.18, 0.60)	0.29 (0.18, 0.73)	-1.04 (-1.41, -0.67)
Tonga	0.12 (0.08, 0.24)	0.12 (0.08, 0.28)	0.19 (0.13, 0.43)	0.14 (0.09, 0.34)	-1.04 (-1.12, -0.96)
Trinidad and Tobago	4.61 (4.22, 5.03)	3.01 (2.33, 3.86)	0.47 (0.43, 0.51)	0.18 (0.14, 0.24)	-4.40 (-5.02, -3.78)
Tunisia	15.54 (10.42, 29.88)	39.60 (12.16, 66.67)	0.25 (0.16, 0.54)	0.36 (0.11, 0.60)	1.90 (1.55, 2.24)
Turkey	508.20 (327.77, 673.61)	407.93 (312.94, 561.59)	1.11 (0.76, 1.52)	0.50 (0.39, 0.69)	-2.49 (-2.65, -2.33)
Turkmenistan	4.63 (3.69, 5.79)	9.49 (7.09, 12.41)	0.19 (0.14, 0.25)	0.23 (0.17, 0.31)	0.14 (-0.12, 0.40)
Tuvalu	0.02 (0.01, 0.05)	0.02 (0.01, 0.05)	0.36 (0.21, 0.74)	0.23 (0.15, 0.52)	-1.60 (-1.64, -1.57)
Uganda	40.32 (21.92, 71.55)	40.67 (22.16, 72.11)	0.28 (0.11, 0.59)	0.15 (0.07, 0.28)	-2.46 (-2.56, -2.35)
Ukraine	45.33 (40.94, 51.24)	41.72 (30.93, 53.08)	0.07 (0.06, 0.08)	0.07 (0.05, 0.09)	-0.18 (-0.51, 0.15)
United Arab Emirates	6.45 (3.51, 9.27)	9.66 (5.42, 12.45)	0.63 (0.34, 0.88)	0.38 (0.20, 0.53)	0.48 (-0.43, 1.40)
United Kingdom	105.97 (96.05, 129.85)	118.93 (106.70, 125.68)	0.14 (0.13, 0.17)	0.10 (0.10, 0.11)	-0.92 (-1.02, -0.82)
United Republic of Tanzania	49.33 (28.34, 91.19)	61.98 (31.43, 113.13)	0.26 (0.10, 0.51)	0.16 (0.07, 0.31)	-1.67 (-1.72, -1.63)
United States Virgin Islands	1003.54 (885.34, 1095.51)	1785.10 (1535.37, 1944.86)	0.31 (0.28, 0.34)	0.31 (0.27, 0.33)	-0.12 (-0.24, 0.00)
United States of America	0.37 (0.21, 0.46)	0.20 (0.14, 0.36)	0.40 (0.23, 0.50)	0.16 (0.11, 0.26)	-3.14 (-3.50, -2.78)
Uruguay	7.83 (6.96, 8.54)	7.93 (7.08, 8.69)	0.22 (0.20, 0.24)	0.16 (0.14, 0.17)	-1.49 (-1.59, -1.38)
Uzbekistan	72.26 (58.64, 87.97)	96.84 (77.07, 119.02)	0.47 (0.36, 0.60)	0.37 (0.30, 0.46)	-0.45 (-0.72, -0.18)
Vanuatu	0.25 (0.16, 0.46)	0.44 (0.29, 0.88)	0.28 (0.17, 0.59)	0.22 (0.14, 0.52)	-1.00 (-1.10, -0.90)
Venezuela (Bolivarian Republic of)	14.15 (12.52, 15.77)	12.03 (9.21, 15.33)	0.11 (0.09, 0.12)	0.04 (0.03, 0.06)	-4.48 (-5.07, -3.90)
Viet Nam	71.79 (38.97, 199.95)	105.57 (52.95, 331.83)	0.15 (0.07, 0.50)	0.12 (0.06, 0.40)	-0.85 (-0.90, -0.81)
Yemen	45.36 (23.49, 75.17)	106.18 (49.25, 160.25)	0.40 (0.16, 0.79)	0.55 (0.21, 0.90)	1.68 (1.28, 2.08)
Zambia	12.95 (7.93, 26.78)	25.73 (9.48, 51.66)	0.24 (0.13, 0.50)	0.24 (0.08, 0.49)	0.47 (0.25, 0.70)
Zimbabwe	8.40 (4.07, 14.57)	18.38 (11.85, 26.91)	0.15 (0.07, 0.25)	0.18 (0.12, 0.26)	0.88 (0.50, 1.25)

GBD: global burden of disease; PAH: pulmonary arterial hypertension; ASDR: age-standardized death rate; EAPC: estimated annual percentage change; UI: uncertainty intervals; CI: confidence interval.

Table S3 DALYs for PAH in 1992 and 2021 for both sex and GBD regions, and their temporal trends from 1992 to 2021

Variable	DALYs (10 ³) (95% UI)		ASDALYs (95% UI)		EAPC (95% CI)
	1992	2021	1992	2021	1992–2021
Global	684266.14 (551247.50, 813514.03)	642104.29 (552272.69, 728993.24)	12.94 (10.68, 15.06)	8.24 (7.14, 9.39)	−1.33 (−1.46, −1.19)
Sex					
Male	364342.31 (316248.67, 417187.84)	299636.21 (246725.64, 348330.88)	13.72 (11.77, 15.78)	8.06 (6.72, 9.36)	−1.55 (−1.71, −1.39)
Female	319923.83 (203408.44, 435579.54)	342468.08 (282651.68, 430644.94)	12.16 (7.95, 16.46)	8.39 (6.92, 10.53)	−1.09 (−1.21, −0.97)
SDI					
Low	72860.29 (50290.79, 115104.55)	95341.84 (67470.91, 133049.95)	12.27 (7.67, 18.77)	9.30 (6.08, 13.20)	−0.80 (−0.88, −0.72)
Low–middle	190844.09 (116772.18, 240859.85)	156400.32 (122426.28, 194166.50)	14.38 (10.26, 17.89)	9.07 (7.05, 11.60)	−1.33 (−1.43, −1.23)
Middle	209334.85 (173696.31, 252221.21)	197170.68 (148781.47, 232321.22)	13.91 (11.45, 16.88)	8.23 (6.26, 9.70)	−1.36 (−1.6, −1.12)
High–middle	126619.53 (107200.23, 153343.97)	99448.16 (85757.43, 117639.39)	12.97 (10.87, 15.80)	6.48 (5.61, 7.87)	−2.28 (−2.44, −2.11)
High	83966.87 (79313.68, 89375.17)	93181.57 (84873.41, 99191.50)	9.22 (8.76, 9.82)	6.16 (5.76, 6.49)	−1.52 (−1.69, −1.36)
Age					
0–4 yr	306520.55 (179408.54, 427629.93)	125956.73 (96510.90, 159397.75)	49.33 (28.87, 68.82)	19.14 (14.66, 24.22)	–
5–9 yr	20738.29 (14867.29, 27327.75)	12812.78 (10347.53, 15867.34)	3.45 (2.47, 4.54)	1.86 (1.51, 2.31)	–
10–14 yr	15205.20 (11759.82, 18976.54)	12328.61 (9823.25, 15345.22)	2.77 (2.14, 3.45)	1.85 (1.47, 2.30)	–
15–19 yr	21897.19 (17387.64, 28224.52)	19273.06 (15485.62, 24753.14)	4.23 (3.36, 5.46)	3.09 (2.48, 3.97)	–
20–24 yr	23875.01 (18548.76, 31414.75)	22866.31 (18252.48, 28905.53)	4.77 (3.70, 6.27)	3.83 (3.06, 4.84)	–
25–29 yr	27761.60 (22055.37, 34688.52)	27205.63 (22502.61, 32558.22)	5.95 (4.72, 7.43)	4.62 (3.82, 5.53)	–
30–34 yr	21438.99 (17043.66, 27085.32)	24181.75 (20196.59, 28861.85)	5.37 (4.27, 6.79)	4.00 (3.34, 4.77)	–
35–39 yr	24465.54 (19684.90, 30247.47)	26530.65 (22780.86, 30793.05)	6.64 (5.34, 8.21)	4.73 (4.06, 5.49)	–
40–44 yr	27378.99 (22341.08, 34176.29)	30888.37 (26219.69, 35879.09)	8.81 (7.19, 11.00)	6.17 (5.24, 7.17)	–
45–49 yr	17537.59 (14293.20, 21559.46)	23738.15 (20370.14, 27850.90)	7.20 (5.87, 8.85)	5.01 (4.30, 5.88)	–
50–54 yr	21723.67 (17513.87, 26700.47)	29663.82 (25331.08, 34265.17)	10.04 (8.10, 12.34)	6.67 (5.69, 7.70)	–
55–59 yr	25707.69 (20623.84, 31641.69)	38594.57 (30611.95, 46130.76)	13.45 (10.79, 16.56)	9.75 (7.74, 11.66)	–
60–64 yr	25810.80 (20841.07, 31668.65)	34710.85 (27816.68, 39951.97)	15.52 (12.53, 19.04)	10.85 (8.69, 12.48)	–
65–69 yr	27714.42 (22497.01, 33726.83)	44134.96 (34809.40, 52090.61)	21.11 (17.14, 25.69)	16.00 (12.62, 18.88)	–
70–74 yr	25283.60 (19973.43, 31513.09)	46040.57 (34965.51, 54861.42)	27.66 (21.85, 34.48)	22.37 (16.99, 26.65)	–
75–79 yr	22578.71 (17829.60, 27709.05)	41583.80 (31082.56, 49954.23)	36.56 (28.87, 44.87)	31.53 (23.57, 37.88)	–
80–84 yr	15737.96 (12095.67, 19830.02)	35420.47 (26374.42, 42818.35)	41.96 (32.25, 52.87)	40.44 (30.11, 48.89)	–
85–89 yr	8757.45 (6849.18, 10789.34)	26172.37 (20296.49, 30618.97)	52.87 (41.35, 65.14)	57.24 (44.39, 66.97)	–
90–94 yr	3194.94 (2456.30, 3840.81)	14181.36 (11024.94, 16653.34)	65.96 (50.71, 79.29)	79.27 (61.63, 93.09)	–
95+ yr	937.95 (720.93, 1122.42)	5819.46 (4200.38, 6868.91)	84.64 (65.06, 101.29)	106.77 (77.07, 126.03)	–
GBD Regions					
Andean Latin America	5003.29 (3140.56, 7247.03)	3543.75 (2795.10, 4489.99)	11.51 (7.73, 15.75)	5.73 (4.52, 7.28)	−2.21 (−2.47, −1.94)
Australasia	1527.72 (1345.93, 1843.80)	1433.51 (1305.35, 1562.91)	7.15 (6.33, 8.58)	3.67 (3.38, 3.99)	−2.59 (−3.07, −2.10)
Caribbean	7197.61 (4167.46, 10573.57)	5071.21 (2987.61, 7877.35)	19.07 (11.67, 27.17)	11.73 (6.48, 18.74)	−2.06 (−2.26, −1.85)
Central Asia	9900.08 (8139.55, 12110.42)	11618.52 (9513.94, 14201.81)	15.12 (12.35, 17.87)	12.91 (10.61, 15.60)	−0.46 (−0.68, −0.25)
Central Europe	11082.12 (9984.69, 12016.28)	10423.53 (9511.83, 11459.38)	8.08 (7.29, 8.73)	6.05 (5.50, 6.67)	−0.96 (−1.23, −0.70)
Central Latin America	10397.88 (9316.47, 12245.76)	7245.55 (6390.76, 8406.75)	6.17 (5.48, 7.14)	3.00 (2.63, 3.51)	−2.89 (−3.19, −2.58)
Central Sub-Saharan Africa	5536.97 (3369.88, 10930.15)	6524.00 (3586.22, 11025.25)	8.94 (5.51, 16.94)	6.16 (2.94, 11.09)	−1.18 (−1.29, −1.08)
East Asia	149024.29 (115779.99, 195610.34)	154740.44 (102939.01, 190399.49)	15.30 (12.03, 20.33)	8.84 (5.99, 11.01)	−1.21 (−1.6, −0.82)
Eastern Europe	22178.88 (21125.18, 23577.89)	8356.54 (7760.37, 8996.01)	9.98 (9.57, 10.44)	3.32 (3.10, 3.56)	−4.38 (−4.68, −4.08)
Eastern Sub-Saharan Africa	24120.34 (15557.80, 47088.82)	26604.77 (14265.05, 49615.49)	11.05 (6.11, 20.59)	6.85 (3.30, 12.62)	−1.66 (−1.7, −1.62)
High-income Asia Pacific	19911.61 (19164.91, 20827.53)	19988.36 (17441.90, 21997.18)	12.80 (12.22, 13.47)	8.31 (7.74, 8.87)	−1.68 (−1.85, −1.52)
High-income North America	30850.29 (28401.46, 33139.94)	38372.60 (35059.63, 40844.36)	10.09 (9.33, 10.84)	7.71 (7.17, 8.18)	−1.23 (−1.42, −1.03)
North Africa and Middle East	134825.75 (73620.77, 187343.45)	80752.72 (58085.82, 98810.33)	32.98 (20.48, 42.43)	14.81 (10.76, 17.96)	−2.35 (−2.49, −2.20)
Oceania	737.44 (474.33, 1118.60)	1454.61 (988.20, 2410.51)	10.81 (7.09, 17.33)	10.14 (6.90, 17.10)	−0.22 (−0.27, −0.17)
South Asia	137234.27 (78879.40, 187271.83)	136562.72 (97809.04, 189353.32)	12.04 (7.58, 16.96)	8.54 (6.02, 12.46)	−0.96 (−1.05, −0.87)
Southeast Asia	28137.03 (19036.04, 52172.71)	31111.77 (22912.53, 58708.38)	6.22 (4.30, 12.59)	4.65 (3.39, 9.25)	−0.95 (−1.05, −0.87)
Southern Latin America	7969.43 (7266.74, 8644.03)	4739.32 (4439.05, 5091.53)	16.00 (14.58, 17.36)	6.55 (6.13, 7.07)	−2.41 (−2.56, −2.25)
Southern Sub-Saharan Africa	2234.92 (1729.37, 2904.62)	3211.87 (2359.18, 3891.38)	4.65 (3.63, 6.16)	4.33 (3.21, 5.20)	−0.02 (−0.29, 0.25)
Tropical Latin America	20729.53 (19433.23, 22144.06)	24234.95 (23001.96, 25403.31)	15.00 (14.14, 15.90)	10.22 (9.65, 10.78)	−1.44 (−1.98, −0.89)
Western Europe	35047.46 (32309.13, 38315.72)	34042.54 (31024.44, 36440.02)	8.20 (7.63, 8.98)	5.05 (4.75, 5.32)	−1.77 (−2.23, −1.31)
Western Sub-Saharan Africa	20619.26 (14164.50, 40498.36)	32071.03 (22084.07, 47221.86)	9.30 (5.23, 16.86)	6.50 (3.77, 9.47)	−1.22 (−1.35, −1.09)
Countries and territories					
Afghanistan	2314.92 (1222.45, 3559.95)	8110.07 (3767.65, 12130.89)	16.79 (8.78, 26.69)	25.28 (10.98, 39.03)	2.06 (1.60, 2.52)
Albania	449.78 (294.46, 560.50)	286.53 (173.00, 512.06)	15.43 (10.39, 19.66)	8.43 (5.32, 14.16)	−1.81 (−1.97, −1.66)
Algeria	3186.99 (2009.03, 5511.50)	4334.96 (2024.22, 6496.23)	11.46 (7.57, 20.21)	11.09 (4.89, 16.62)	0.62 (0.26, 0.99)
American Samoa	2.03 (1.43, 3.65)	1.93 (1.12, 3.72)	5.07 (3.57, 9.87)	4.15 (2.45, 8.06)	−0.58 (−0.62, −0.55)
Andorra	5.00 (3.56, 6.71)	4.14 (2.80, 5.90)	9.26 (6.53, 12.37)	3.55 (2.51, 4.90)	−2.94 (−3.08, −2.80)
Angola	1177.62 (631.16, 2800.73)	1628.07 (975.69, 2923.79)	9.95 (6.08, 20.44)	6.21 (3.27, 11.56)	−1.62 (−1.73, −1.50)
Antigua and Barbuda	2.56 (2.31, 2.90)	1.42 (1.30, 1.57)	4.33 (3.90, 4.87)	1.50 (1.37, 1.64)	−4.65 (−5.13, −4.16)
Argentina	6460.79 (5835.19, 7112.62)	3409.00 (3182.59, 3695.20)	19.41 (17.53, 21.39)	7.12 (6.62, 7.76)	−3.21 (−3.37, −3.05)
Armenia	296.47 (249.95, 350.14)	80.70 (67.24, 94.18)	9.33 (7.99, 11.01)	2.18 (1.82, 2.53)	−5.75 (−6.56, −4.93)
Australia	1332.31 (1159.33, 1645.91)	1207.15 (1087.40, 1333.48)	7.57 (6.62, 9.29)	3.69 (3.36, 4.03)	−2.71 (−3.14, −2.29)
Austria	541.82 (507.35, 580.75)	494.91 (449.81, 541.70)	5.75 (5.40, 6.14)	3.47 (3.21, 3.77)	−1.62 (−2.29, −0.96)
Azerbaijan	1770.23 (1087.28, 2753.16)	1871.05 (1077.75, 2999.05)	25.42 (16.52, 37.70)	17.64 (10.69, 27.74)	−1.53 (−1.65, −1.40)
Bahamas	106.44 (90.24, 122.26)	59.03 (46.73, 74.97)	41.92 (35.39, 47.88)	14.75 (11.70, 18.62)	−4.72 (−5.29, −4.14)
Bahrain	29.06 (21.36, 57.40)	48.22 (24.24, 82.98)	6.44 (4.83, 13.97)	4.52 (2.26, 8.02)	−0.23 (−0.97, 0.52)
Bangladesh	12981.47 (6970.66, 18695.53)	12634.18 (7166.87, 19513.79)	12.73 (6.14, 20.43)	8.66 (4.81, 13.69)	−1.24 (−1.39, −1.08)
Barbados	96.13 (85.75, 106.21)	43.13 (34.29, 53.97)	36.87 (32.89, 40.85)	11.88 (9.32, 15.07)	−5.02 (−5.56, −4.49)
Belarus	225.30 (188.78, 290.00)	185.48 (153.81, 219.53)	2.29 (1.90, 3.09)	1.63 (1.37, 1.89)	−1.34 (−1.49, −1.19)
Belgium	1125.36 (1004.55, 1377.54)	900.33 (801.35, 980.95)	9.44 (8.39, 11.69)	5.18 (4.74, 5.60)	−2.08 (−2.39, −1.78)
Belize	50.40 (44.44, 57.31)	22.31 (19.51, 25.15)	23.13 (20.89, 25.91)	5.72 (5.03, 6.45)	−5.69 (−6.24, −5.13)
Benin	462.43 (287.39, 869.08)	779.93 (486.85, 1192.33)	7.91 (4.22, 13.91)	5.73 (2.98, 9.04)	−0.90 (−1.04, −0.76)
Bermuda	33.00 (29.08, 37.80)	15.59 (13.17, 18.87)	53.11 (46.99, 61.08)	15.69 (13.06, 19.07)	−5.35 (−5.85, −4.85)
Bhutan	94.40 (48.46, 139.72)	61.13 (33.90, 96.76)	14.58 (8.09, 22.65)	9.27 (5.13, 14.22)	−1.77 (−1.89, −1.64)
Bolivia (Plurinational State of)	1561.95 (733.02, 2655.37)	979.69 (707.60, 1392.20)	18.74 (10.30, 30.39)	9.02 (6.57, 12.82)	−2.57 (−2.63, −2.51)
Bosnia and Herzegovina	380.36 (268.27, 506.08)	295.12 (212.39, 381.15)	8.46 (6.17, 11.21)	5.91 (4.25, 7.68)	−1.28 (−1.44, −1.13)
Botswana	73.05 (48.25, 119.45)	85.68 (59.61, 114.39)	6.54 (4.24, 10.55)	4.04 (2.86, 5.30)	−1.50 (−1.62, −1.38)
Brazil	20603.60 (19271.30, 22017.95)	24078.22 (22849.84, 25249.19)	15.36 (14.44, 16.30)	10.45 (9.88, 11.02)	−1.44 (−1.98, −0.89)
Brunei Darussalam	55.27 (29.02, 72.63)	45.45 (26.80, 58.34)	20.25 (11.33, 26.45)	11.44 (7.20, 14.88)	−1.58 (−1.70, −1.47)
Bulgaria	448.76 (384.28, 523.88)	285.98 (216.79, 375.62)	4.51 (3.85, 5.26)	2.87 (2.19, 3.74)	−0.56 (−1.08, −0.04)
Burkina Faso	1164.78 (661.13, 2016.50)	1991.59 (1161.79, 3180.60)	10.91 (4.80, 20.49)	8.98 (4.20, 14.92)	−0.46 (−0.57, −0.34)
Burundi	1011.76 (602.93, 1994.30)	916.19 (413.87, 1813.47)	15.61 (8.13, 32.36)	7.64 (3.08, 15.11)	−2.43 (−2.52, −2.34)
Cabo Verde	34.14 (15.87, 64.00)	22.38 (8.83, 41.02)	8.57 (3.48, 17.94)	4.41 (1.75, 8.30)	−2.52 (−2.63, −2.41)
Cambodia	743.46 (355.76, 1713.07)	776.58 (499.93, 1512.88)	6.62 (3.53, 13.95)	4.92 (3.12, 10.08)	−1.15 (−1.20, −1.10)
Cameroon	900.06 (581.03, 1599.71)	1814.22 (1238.00, 2862.20)	8.43 (4.45, 14.99)	6.27 (3.78, 10.57)	−0.85 (−1.11, −0.60)
Canada	3338.01 (3117.44, 3559.69)	2170.58 (1981.56, 2336.85)	11.85 (11.07, 12.58)	4.63 (4.23, 4.99)	−4.68 (−5.41, −3.94)
Central African Republic	333.50 (187.92, 716.50)	429.11 (2			

Table S3 (continued)

Variable	DALYs (10 ³) (95% UI)		ASDALYs (95% UI)		EAPC (95% CI)
	1992	2021	1992	2021	1992–2021
Chad	694.18 (336.19, 1358.45)	1766.39 (980.12, 3155.62)	9.39 (4.11, 18.93)	9.18 (4.46, 16.36)	-0.09 (-0.25, 0.07)
Chile	1208.37 (1129.33, 1286.50)	1111.86 (1027.58, 1201.12)	9.20 (8.61, 9.79)	5.45 (4.99, 5.90)	-2.13 (-2.46, -1.79)
China	147094.94 (114101.46, 192362.07)	150940.71 (99583.31, 186503.40)	15.70 (12.36, 20.92)	8.95 (6.04, 11.13)	-1.27 (-1.66, -0.88)
Colombia	1880.93 (1564.00, 2386.87)	1644.89 (1380.16, 1948.75)	5.85 (4.87, 7.33)	3.29 (2.74, 3.93)	-2.09 (-2.49, -1.70)
Comoros	63.95 (37.35, 112.78)	41.28 (22.71, 80.71)	11.62 (6.75, 19.93)	5.92 (3.15, 11.42)	-2.43 (-2.77, -2.09)
Congo	179.74 (120.12, 385.48)	205.55 (130.67, 368.56)	7.74 (5.30, 15.60)	4.80 (2.93, 8.78)	-1.82 (-1.93, -1.71)
Cook Islands	1.64 (1.20, 2.88)	0.94 (0.58, 1.98)	9.30 (6.90, 16.96)	5.26 (3.14, 10.93)	-2.59 (-2.83, -2.36)
Costa Rica	329.08 (306.17, 351.29)	163.56 (145.04, 182.93)	12.59 (11.69, 13.51)	3.31 (2.92, 3.70)	-5.52 (-6.05, -5.00)
Coted'Ivoire	1163.99 (762.62, 2102.29)	1818.26 (1113.87, 2742.29)	8.90 (4.85, 15.62)	6.79 (3.56, 10.99)	-0.75 (-0.90, -0.60)
Croatia	167.88 (147.24, 190.59)	92.27 (78.16, 108.44)	3.03 (2.66, 3.41)	1.31 (1.11, 1.53)	-1.66 (-2.21, -1.11)
Cuba	479.71 (441.85, 525.89)	265.03 (227.52, 300.90)	4.64 (4.24, 5.09)	1.90 (1.64, 2.14)	-4.15 (-4.74, -3.56)
Cyprus	377.64 (203.19, 486.76)	304.62 (165.54, 379.34)	50.78 (27.52, 64.31)	17.45 (9.61, 21.85)	-3.70 (-3.85, -3.56)
Czechia	1417.37 (1207.83, 1675.71)	1898.89 (1608.40, 2169.62)	11.79 (10.00, 13.95)	11.11 (9.35, 12.86)	0.06 (-0.20, 0.33)
Democratic People's Republic of Korea	1545.76 (1065.61, 2666.03)	2284.97 (1613.35, 3818.22)	8.43 (5.88, 14.43)	8.04 (5.73, 13.40)	0.02 (-0.17, 0.22)
Democratic Republic of the Congo	3740.70 (2327.46, 6915.43)	4157.99 (2013.45, 7024.16)	8.62 (5.15, 15.48)	6.13 (2.66, 11.34)	-1.02 (-1.14, -0.90)
Denmark	470.76 (436.16, 507.28)	425.87 (384.37, 462.44)	8.26 (7.71, 8.90)	4.80 (4.39, 5.20)	-2.05 (-2.66, -1.44)
Djibouti	46.79 (25.57, 91.87)	62.60 (30.49, 119.10)	9.39 (5.22, 17.66)	5.68 (2.66, 10.81)	-1.94 (-2.07, -1.81)
Dominica	4.19 (2.65, 5.71)	2.26 (1.65, 3.82)	6.14 (3.91, 8.47)	3.46 (2.49, 5.66)	-2.50 (-2.77, -2.22)
Dominican Republic	840.24 (537.56, 1106.91)	456.34 (329.64, 831.99)	9.44 (6.86, 12.48)	4.26 (3.05, 7.94)	-3.16 (-3.43, -2.89)
Ecuador	992.85 (841.24, 1272.06)	957.09 (811.86, 1115.64)	9.52 (7.82, 11.81)	5.80 (4.94, 6.74)	-1.45 (-2.08, -0.82)
Egypt	52646.62 (23035.12, 77067.68)	17675.58 (13635.22, 23380.86)	68.07 (36.22, 95.51)	16.51 (12.82, 21.87)	-4.72 (-4.90, -4.54)
El Salvador	677.64 (436.88, 858.81)	262.84 (190.20, 440.54)	11.61 (7.88, 14.40)	4.18 (3.02, 6.98)	-3.99 (-4.25, -3.74)
Equatorial Guinea	43.13 (24.21, 86.54)	43.17 (24.27, 74.66)	9.15 (5.41, 17.40)	3.83 (2.13, 6.65)	-3.37 (-3.60, -3.15)
Eritrea	421.04 (243.20, 888.02)	469.80 (239.30, 930.61)	12.97 (7.04, 26.48)	8.01 (3.80, 15.23)	-1.56 (-1.69, -1.43)
Estonia	18.60 (16.12, 21.77)	24.37 (20.88, 28.38)	1.19 (1.05, 1.37)	1.12 (0.96, 1.29)	0.19 (-1.32, 1.73)
Eswatini	44.96 (31.78, 68.93)	52.91 (35.42, 73.28)	6.53 (4.61, 9.89)	5.30 (3.57, 7.29)	-0.49 (-0.79, -0.18)
Ethiopia	6001.40 (3329.97, 11843.00)	5398.47 (2500.38, 11568.87)	10.66 (5.13, 20.30)	5.53 (2.30, 11.22)	-2.60 (-2.73, -2.47)
Fiji	43.71 (28.36, 80.75)	43.77 (24.64, 83.14)	6.92 (4.41, 13.33)	5.17 (2.93, 9.99)	-1.11 (-1.18, -1.04)
Finland	172.25 (150.97, 192.48)	177.96 (159.65, 198.45)	3.02 (2.67, 3.37)	2.13 (1.95, 2.35)	-1.27 (-1.96, -0.57)
France	6062.76 (5150.11, 7340.44)	6113.49 (5521.05, 6689.37)	9.10 (7.88, 11.04)	6.05 (5.60, 6.55)	-1.39 (-1.66, -1.13)
Gabon	62.28 (40.22, 109.53)	60.12 (34.00, 104.16)	6.88 (4.03, 12.58)	4.14 (2.32, 7.11)	-1.61 (-1.74, -1.48)
Gambia	86.86 (51.45, 158.40)	134.09 (70.03, 241.32)	8.51 (3.86, 15.75)	6.52 (3.06, 11.69)	-0.97 (-1.17, -0.77)
Georgia	835.92 (632.52, 1048.43)	1317.70 (1039.20, 1665.07)	14.78 (11.21, 18.57)	27.83 (22.18, 34.82)	3.32 (2.27, 4.38)
Germany	8238.95 (7099.94, 9190.35)	9440.98 (8306.11, 10352.48)	9.06 (7.86, 10.13)	6.42 (5.86, 6.91)	-1.08 (-1.85, -0.31)
Ghana	1088.67 (727.06, 2046.06)	1256.20 (806.24, 2061.56)	7.88 (4.45, 14.73)	4.49 (2.65, 7.35)	-2.02 (-2.14, -1.89)
Greece	962.28 (898.91, 1026.08)	1495.12 (1339.78, 1644.78)	8.37 (7.87, 8.85)	8.35 (7.67, 9.13)	-0.18 (-0.63, 0.27)
Greenland	15.12 (6.24, 20.72)	3.78 (2.78, 5.57)	30.07 (13.20, 40.32)	7.06 (5.05, 10.16)	-5.61 (-5.96, -5.27)
Grenada	26.66 (23.18, 30.69)	9.28 (8.01, 10.66)	31.79 (27.76, 36.43)	8.80 (7.66, 10.03)	-5.31 (-5.82, -4.79)
Guam	5.47 (3.93, 10.34)	4.21 (2.27, 8.18)	4.39 (3.15, 8.74)	2.53 (1.37, 4.91)	-1.02 (-1.31, -0.72)
Guatemala	922.75 (816.99, 1119.70)	324.33 (275.50, 385.54)	9.88 (9.00, 11.97)	2.36 (2.02, 2.80)	-5.86 (-6.32, -5.40)
Guinea	805.67 (451.85, 1654.27)	1089.58 (641.51, 1802.89)	10.05 (5.32, 20.78)	8.02 (3.99, 13.76)	-0.58 (-0.77, -0.40)
Guinea-Bissau	128.55 (76.48, 255.91)	152.94 (84.96, 260.81)	12.06 (6.60, 23.06)	8.52 (4.19, 14.99)	-1.08 (-1.24, -0.92)
Guyana	82.56 (70.20, 96.49)	119.10 (90.63, 157.23)	9.29 (8.06, 10.50)	16.06 (12.29, 21.11)	-1.68 (-3.21, -0.13)
Haiti	3726.22 (1283.19, 6820.69)	3454.06 (1446.46, 6073.08)	42.57 (17.10, 72.30)	25.17 (11.87, 42.29)	-1.82 (-1.95, -1.69)
Honduras	349.91 (223.61, 481.71)	408.61 (282.58, 617.02)	8.14 (5.04, 11.59)	5.30 (3.67, 8.02)	-1.62 (-1.72, -1.51)
Hungary	1200.50 (1065.88, 1372.62)	725.02 (590.13, 907.97)	9.48 (8.44, 10.80)	4.66 (3.75, 5.82)	-1.28 (-2.01, -0.55)
Iceland	15.38 (14.17, 16.71)	17.01 (14.92, 19.11)	5.79 (5.34, 6.29)	3.79 (3.36, 4.27)	-1.80 (-2.47, -1.13)
India	100923.17 (57424.64, 137292.55)	94736.65 (69016.87, 131902.05)	11.57 (7.28, 16.16)	7.75 (5.52, 11.36)	-1.18 (-1.28, -1.09)
Indonesia	10669.19 (6232.52, 24440.56)	11946.70 (7868.41, 24908.03)	6.03 (3.57, 13.14)	4.61 (3.03, 10.44)	-0.96 (-1.06, -0.87)
Iran (Islamic Republic of)	26072.28 (16170.34, 33561.52)	12800.80 (9989.32, 14671.86)	47.66 (30.55, 59.11)	16.26 (12.86, 18.66)	-3.27 (-3.45, -3.09)
Iraq	2437.58 (1264.72, 3430.09)	1821.98 (992.54, 3157.54)	10.93 (6.24, 16.48)	5.20 (2.84, 10.09)	-2.53 (-2.62, -2.44)
Ireland	179.36 (168.56, 191.52)	189.66 (171.64, 208.93)	4.82 (4.54, 5.12)	3.02 (2.74, 3.33)	-1.87 (-2.55, -1.18)
Israel	855.27 (752.43, 1102.90)	795.58 (718.73, 869.32)	16.41 (14.49, 21.14)	7.18 (6.52, 7.81)	-2.59 (-2.95, -2.22)
Italy	4573.40 (4347.43, 4806.81)	2779.45 (2503.88, 3032.67)	6.90 (6.59, 7.22)	2.78 (2.58, 2.99)	-3.90 (-4.35, -3.44)
Jamaica	225.00 (192.75, 259.04)	78.11 (60.29, 100.39)	9.31 (7.96, 10.67)	2.81 (2.16, 3.62)	-5.01 (-5.49, -4.54)
Japan	17160.74 (16594.19, 17773.47)	18489.96 (16064.33, 20369.62)	15.56 (15.07, 16.09)	10.72 (10.03, 11.46)	-1.54 (-1.73, -1.36)
Jordan	124.22 (67.05, 474.58)	253.26 (124.39, 686.32)	2.65 (1.44, 10.87)	2.45 (1.20, 6.89)	0.76 (0.24, 1.28)
Kazakhstan	309.92 (260.70, 367.26)	268.02 (220.16, 315.99)	2.05 (1.72, 2.43)	1.49 (1.23, 1.74)	-1.25 (-1.47, -1.03)
Kenya	1191.08 (770.91, 2307.13)	1654.78 (819.90, 3203.83)	5.15 (2.60, 10.31)	4.05 (1.93, 7.82)	-0.57 (-0.71, -0.42)
Kiribati	6.68 (3.75, 13.32)	8.31 (4.89, 16.07)	9.79 (5.51, 19.41)	8.09 (4.85, 15.83)	-0.72 (-0.77, -0.66)
Kuwait	51.60 (46.52, 57.62)	206.86 (174.05, 243.43)	3.32 (3.00, 3.69)	6.51 (5.41, 7.73)	3.73 (1.98, 5.50)
Kyrgyzstan	149.93 (125.14, 179.38)	105.35 (86.13, 130.93)	3.68 (3.10, 4.38)	1.76 (1.46, 2.16)	-2.95 (-3.38, -2.51)
Lao People's Democratic Republic	492.10 (168.66, 1344.25)	479.37 (256.03, 980.48)	9.84 (3.94, 23.89)	6.65 (3.69, 13.98)	-1.47 (-1.55, -1.39)
Latvia	33.78 (29.27, 39.28)	89.06 (76.70, 101.80)	1.25 (1.10, 1.43)	2.89 (2.51, 3.30)	2.68 (0.71, 4.70)
Lebanon	932.16 (532.16, 1374.26)	617.44 (485.42, 814.01)	30.52 (18.89, 44.91)	11.26 (8.86, 14.49)	-3.61 (-3.69, -3.52)
Lesotho	62.37 (38.86, 103.44)	87.02 (58.84, 115.73)	4.82 (3.00, 8.02)	5.40 (3.74, 7.19)	0.81 (0.46, 1.16)
Liberia	278.70 (165.36, 529.07)	339.24 (172.73, 574.71)	11.59 (7.20, 20.41)	6.94 (3.10, 12.33)	-1.45 (-1.62, -1.27)
Libya	995.57 (581.01, 1847.53)	1003.58 (437.20, 1781.92)	18.14 (10.97, 34.04)	20.43 (8.75, 36.65)	1.48 (1.13, 1.83)
Lithuania	68.60 (61.50, 77.15)	99.58 (87.33, 113.49)	1.93 (1.74, 2.16)	2.30 (2.04, 2.58)	1.63 (-0.14, 3.43)
Luxembourg	40.06 (37.55, 42.81)	45.55 (40.54, 50.81)	9.04 (8.49, 9.62)	5.06 (4.54, 5.64)	-2.31 (-2.93, -1.69)
Madagascar	2473.19 (1492.79, 5298.42)	3453.94 (1961.40, 6744.70)	17.72 (10.57, 35.32)	12.80 (6.85, 24.47)	-1.02 (-1.09, -0.95)
Malawi	1228.96 (690.17, 2453.23)	1045.55 (545.99, 1827.17)	9.52 (5.66, 17.25)	6.17 (3.08, 10.65)	-1.60 (-1.74, -1.47)
Malaysia	523.07 (378.25, 1265.39)	757.20 (518.62, 1870.73)	3.11 (2.22, 8.41)	2.48 (1.66, 6.63)	-0.44 (-0.73, -0.15)
Maldives	52.23 (32.92, 72.82)	33.70 (26.57, 49.80)	20.71 (14.48, 27.46)	7.48 (5.98, 10.28)	-3.44 (-3.50, -3.37)
Mali	908.51 (491.92, 1821.79)	1667.08 (917.76, 2937.56)	8.95 (4.48, 18.99)	6.95 (3.08, 13.92)	-0.71 (-0.78, -0.63)
Malta	13.07 (12.03, 14.19)	18.15 (16.19, 20.21)	3.45 (3.16, 3.75)	2.90 (2.55, 3.27)	-0.84 (-1.46, -0.21)
Marshall Islands	3.56 (2.25, 6.32)	3.94 (2.27, 7.49)	10.54 (6.55, 19.90)	8.04 (4.72, 15.81)	-0.92 (-1.05, -0.80)
Mauritania	140.89 (88.99, 269.95)	176.76 (101.28, 300.06)	6.83 (3.81, 13.53)	4.73 (2.40, 8.52)	-1.31 (-1.44, -1.19)
Mauritius	71.60 (66.49, 77.68)	398.21 (351.08, 433.75)	7.28 (6.77, 7.91)	28.96 (25.61, 31.57)	5.94 (5.01, 6.88)
Mexico	5090.89 (4394.55, 6079.52)	3758.61 (3349.29, 4225.82)	5.68 (5.13, 6.66)	3.11 (2.78, 3.53)	-2.35 (-2.77, -1.93)
Micronesia (Federated States of)	8.69 (5.50, 16.16)	6.57 (4.01, 12.52)	10.66 (6.76, 19.43)	7.48 (4.69, 15.03)	-1.18 (-1.24, -1.12)
Monaco	2.55 (1.90, 3.41)	2.79 (1.90, 3.85)	5.47 (4.17, 7.34)	4.46 (3.07, 6.12)	-1.03 (-1.24, -0.81)
Mongolia	871.02 (473.05, 1274.51)	1230.35 (721.47, 1613.71)	52.95 (28.11, 80.25)	43.92 (25.60, 56.54)	-0.53 (-0.68, -0.38)
Montenegro	9.61 (5.42, 40.07)	8.45 (4.88, 38.19)	1.51 (0.84, 6.62)	1.05 (0.60, 4.82)	-1.50 (-1.70, -1.31)
Morocco	4536.64 (2587.38, 7727.64)	4558.95 (2226.46, 6953.34)	15.04 (8.64, 26.05)	13.46 (6.51, 20.47)	0.21 (-0.21, 0.63)
Mozambique	1543.08 (819.43, 2628.13)	2156.89 (1087.08, 3608.29)	10.55 (5.64, 19.68)	8.59 (3.81, 15.15)	-0.34 (-0.52, -0.16)
Myanmar	4234.02 (1970.08, 10335.13)	3636.27 (2377.29, 7103.61)	10.27 (5.16, 23.47)	6.76 (4.43, 13.78)	-1.68 (-1.83, -1.52)
Namibia	69.55 (50.21, 100.64)	99.18 (67.19, 140.65)	5.84 (4.21, 8.38)	4.86 (3.36, 6.76)	-0.67 (-0.77, -0.56)
Nauru	0.97 (0.61, 1.83)	0.90 (0.52, 1.81)	10.95 (7.02, 21.21)	10.30 (6.33, 22.74)	-0.27 (-0.67, 0.13)

Table S3 (continued)

Table S3 (continued)

Variable	DALYs (10 ³) (95% UI)		ASDALYs (95% UI)		EAPC (95% CI)
	1992	2021	1992	2021	1992–2021
Nepal	3341.66 (1757.06, 4965.68)	2556.76 (1464.97, 3967.16)	14.16 (8.09, 22.05)	9.42 (5.15, 15.02)	-1.39 (-1.42, -1.36)
Netherlands	973.07 (911.70, 1043.20)	1004.24 (915.13, 1106.04)	5.79 (5.47, 6.17)	3.91 (3.61, 4.26)	-1.83 (-2.60, -1.05)
New Zealand	195.41 (181.12, 210.02)	226.37 (206.88, 249.31)	5.27 (4.90, 5.66)	3.55 (3.26, 3.89)	-1.99 (-2.82, -1.16)
Nicaragua	273.56 (141.32, 384.82)	102.47 (68.95, 301.79)	5.97 (3.35, 9.16)	1.76 (1.18, 5.35)	-4.62 (-4.83, -4.42)
Niger	1006.50 (489.66, 1912.78)	1835.09 (768.47, 3526.14)	10.24 (4.54, 20.40)	7.69 (2.46, 15.66)	-0.96 (-1.07, -0.86)
Nigeria	9905.82 (6925.59, 19335.02)	15080.70 (10536.54, 21577.96)	9.34 (5.30, 16.81)	6.04 (4.07, 8.84)	-1.60 (-1.77, -1.43)
Niue	0.18 (0.12, 0.36)	0.17 (0.10, 0.35)	8.40 (5.42, 16.61)	11.14 (7.04, 23.27)	-0.52 (-1.10, 0.06)
North Macedonia	90.58 (66.08, 139.21)	89.81 (46.67, 153.39)	4.73 (3.38, 7.60)	3.18 (1.68, 5.83)	-0.42 (-0.51, -0.33)
Northern Mariana Islands	1.43 (0.86, 2.69)	1.68 (1.05, 3.40)	3.81 (2.32, 7.25)	3.36 (2.06, 6.99)	-1.48 (-1.74, -1.21)
Norway	349.35 (334.13, 366.83)	132.81 (121.41, 148.29)	8.63 (8.24, 9.07)	1.92 (1.77, 2.11)	-5.85 (-6.91, -4.77)
Oman	77.11 (42.94, 213.18)	133.70 (51.07, 241.29)	3.74 (2.09, 11.27)	3.90 (1.49, 7.22)	1.77 (0.63, 2.92)
Pakistan	19893.56 (10693.07, 28276.34)	26574.00 (16921.27, 38115.28)	14.36 (9.02, 20.56)	11.96 (7.86, 18.26)	-0.29 (-0.41, -0.16)
Palau	0.86 (0.47, 1.68)	0.76 (0.38, 1.58)	6.11 (3.45, 12.58)	4.37 (2.21, 9.17)	-1.01 (-1.09, -0.94)
Palestine	287.28 (137.26, 468.50)	212.16 (91.01, 499.79)	9.47 (4.64, 18.02)	4.66 (1.98, 11.88)	-1.98 (-2.18, -1.78)
Panama	142.24 (124.54, 159.74)	88.67 (73.65, 104.21)	6.44 (5.65, 7.18)	2.08 (1.73, 2.46)	-4.91 (-5.47, -4.34)
Papua New Guinea	561.59 (337.99, 875.79)	1243.25 (832.13, 2019.84)	12.31 (7.66, 19.82)	11.31 (7.43, 19.45)	-0.30 (-0.36, -0.23)
Paraguay	125.93 (89.71, 273.74)	156.73 (102.90, 384.23)	3.15 (2.20, 7.44)	2.42 (1.58, 6.14)	-0.77 (-0.93, -0.62)
Peru	2448.49 (1506.72, 3618.76)	1606.97 (1197.34, 2183.81)	10.15 (6.85, 14.09)	4.65 (3.45, 6.29)	-2.42 (-2.60, -2.25)
Philippines	3277.05 (2205.66, 5818.50)	3530.66 (2583.73, 7427.35)	4.81 (3.21, 9.54)	3.28 (2.37, 7.50)	-1.08 (-1.30, -0.85)
Poland	2491.37 (2235.12, 2794.45)	2111.87 (1911.59, 2297.01)	6.09 (5.48, 6.83)	3.95 (3.58, 4.29)	-1.60 (-1.98, -1.22)
Portugal	957.46 (902.74, 1015.17)	1021.59 (916.59, 1117.23)	9.48 (8.93, 10.02)	5.82 (5.35, 6.28)	-1.98 (-2.53, -1.43)
Puerto Rico	849.71 (792.58, 904.21)	158.46 (132.47, 185.01)	23.52 (21.99, 24.99)	3.98 (3.33, 4.67)	-7.01 (-7.39, -6.62)
Qatar	19.12 (12.98, 37.95)	68.65 (37.26, 102.12)	5.14 (3.50, 10.53)	3.75 (1.96, 5.57)	0.13 (-0.51, 0.77)
Republic of Korea	2382.18 (1758.20, 3353.95)	1245.74 (841.77, 2906.39)	6.10 (4.49, 9.02)	2.40 (1.67, 4.75)	-3.12 (-3.19, -3.06)
Republic of Moldova	16.53 (12.19, 22.35)	22.22 (17.53, 28.72)	0.38 (0.28, 0.51)	0.54 (0.44, 0.68)	1.41 (0.30, 2.52)
Romania	3665.25 (3109.12, 4244.45)	3948.61 (3383.73, 4490.62)	14.40 (12.30, 16.56)	13.92 (12.01, 15.83)	-0.46 (-0.78, -0.13)
Russian Federation	19974.18 (18711.45, 21456.90)	6389.11 (5934.38, 6897.28)	13.74 (12.99, 14.53)	3.62 (3.38, 3.89)	-5.24 (-5.58, -4.90)
Rwanda	1286.53 (762.38, 2743.96)	725.39 (355.63, 1528.51)	16.12 (9.14, 31.96)	6.17 (2.87, 13.12)	-3.84 (-4.08, -3.60)
Saint Kitts and Nevis	3.03 (2.64, 3.96)	1.38 (1.14, 1.70)	7.68 (6.69, 10.05)	2.32 (1.90, 2.81)	-5.26 (-5.80, -4.71)
Saint Lucia	34.71 (31.12, 38.54)	16.12 (13.19, 19.49)	28.10 (25.49, 31.01)	8.36 (6.78, 10.22)	-5.35 (-5.87, -4.83)
Saint Vincent and the Grenadines	4.93 (4.27, 5.62)	2.81 (2.44, 3.27)	4.59 (4.05, 5.15)	2.45 (2.08, 2.88)	-4.40 (-5.30, -3.49)
Samoa	11.94 (8.32, 20.52)	12.36 (8.35, 23.27)	8.51 (5.80, 15.16)	6.56 (4.40, 12.94)	-0.82 (-0.88, -0.75)
San Marino	0.90 (0.69, 1.72)	0.91 (0.59, 1.90)	3.05 (2.36, 5.67)	1.61 (1.07, 3.13)	-1.40 (-1.66, -1.14)
Sao Tome and Principe	9.08 (5.47, 18.08)	7.75 (3.30, 15.46)	6.62 (3.76, 12.38)	4.36 (1.85, 8.40)	-1.31 (-1.50, -1.13)
Saudi Arabia	917.54 (578.22, 1611.18)	871.78 (464.94, 1517.88)	5.30 (3.50, 11.20)	2.62 (1.45, 5.39)	-1.83 (-2.38, -1.28)
Senegal	863.82 (562.63, 1696.10)	904.41 (433.44, 1527.52)	9.93 (5.20, 17.81)	6.40 (2.74, 11.21)	-1.33 (-1.55, -1.11)
Serbia	360.12 (244.46, 778.44)	337.04 (214.51, 618.06)	3.58 (2.40, 8.34)	2.43 (1.58, 4.62)	-1.56 (-1.68, -1.45)
Seychelles	2.85 (1.89, 6.10)	3.10 (1.90, 6.74)	4.09 (2.73, 9.22)	2.86 (1.75, 6.44)	-0.80 (-0.93, -0.68)
Sierra Leone	653.37 (355.01, 1333.29)	774.42 (456.65, 1267.76)	11.79 (7.24, 20.48)	8.24 (4.47, 13.62)	-1.16 (-1.30, -1.03)
Singapore	313.42 (292.56, 339.30)	207.22 (187.16, 227.83)	10.73 (10.00, 11.59)	3.83 (3.44, 4.27)	-3.32 (-3.73, -2.90)
Slovakia	185.48 (125.19, 313.74)	154.00 (99.90, 267.81)	3.28 (2.20, 5.84)	2.04 (1.32, 3.61)	-1.28 (-1.48, -1.07)
Slovenia	30.90 (27.12, 35.85)	38.21 (32.76, 44.40)	1.31 (1.15, 1.52)	1.03 (0.88, 1.21)	-0.88 (-1.12, -0.65)
Solomon Islands	22.06 (13.66, 33.83)	33.63 (22.54, 58.79)	7.61 (4.68, 12.90)	6.31 (4.18, 11.93)	-0.55 (-0.63, -0.47)
Somalia	1287.66 (589.77, 2327.22)	2163.18 (667.22, 4512.51)	15.19 (6.07, 29.46)	10.58 (2.79, 22.97)	-1.08 (-1.22, -0.94)
South Africa	1583.73 (1252.66, 1899.75)	1931.64 (1491.04, 2297.19)	4.48 (3.68, 5.46)	3.58 (2.77, 4.23)	-0.51 (-0.76, -0.25)
South Sudan	982.72 (453.67, 2027.38)	1105.76 (627.72, 2079.55)	13.50 (7.48, 25.79)	10.34 (5.26, 18.60)	-0.82 (-1.30, -0.35)
Spain	4009.45 (3786.17, 4224.48)	4291.57 (3844.77, 4655.45)	9.48 (8.94, 9.98)	6.00 (5.52, 6.41)	-1.85 (-2.42, -1.27)
Sri Lanka	2541.70 (1807.90, 4256.24)	3523.42 (2180.30, 5135.34)	15.81 (11.71, 26.49)	15.14 (9.48, 21.88)	0.43 (0.02, 0.84)
Sudan	5489.62 (2629.63, 10607.13)	7551.16 (3740.14, 11346.37)	17.94 (9.49, 31.86)	17.35 (8.60, 25.58)	0.60 (0.10, 1.11)
Suriname	141.61 (84.28, 177.41)	78.75 (58.49, 109.37)	36.81 (22.64, 45.49)	14.26 (10.62, 19.62)	-3.71 (-4.02, -3.41)
Sweden	662.43 (623.35, 703.57)	603.82 (539.78, 678.23)	6.79 (6.38, 7.20)	4.14 (3.73, 4.63)	-1.50 (-1.94, -1.06)
Switzerland	934.45 (823.44, 1133.63)	714.97 (633.62, 793.84)	11.88 (10.15, 14.49)	5.12 (4.64, 5.63)	-3.23 (-3.59, -2.87)
Syrian Arab Republic	709.11 (382.11, 2358.34)	283.90 (132.91, 1389.63)	4.32 (2.48, 15.47)	2.32 (1.05, 11.57)	-2.06 (-2.58, -1.53)
Taiwan (Province of China)	383.58 (361.87, 410.26)	1514.76 (1353.04, 1648.99)	2.14 (2.02, 2.29)	4.19 (3.77, 4.54)	5.40 (4.04, 6.78)
Tajikistan	2061.25 (1328.61, 2977.83)	2491.46 (1593.07, 3452.28)	41.72 (27.06, 57.42)	27.43 (17.75, 37.43)	-1.70 (-1.79, -1.61)
Thailand	2127.65 (1485.79, 4766.47)	2148.57 (1424.85, 6094.36)	4.04 (2.76, 10.48)	3.09 (2.13, 7.50)	-1.22 (-1.46, -0.97)
Timor-Leste	76.47 (33.37, 191.11)	87.79 (51.93, 174.00)	7.86 (4.15, 16.36)	6.29 (3.77, 13.06)	-0.66 (-0.92, -0.40)
Togo	322.60 (207.21, 591.08)	459.61 (236.88, 734.42)	8.42 (4.52, 15.33)	6.36 (3.03, 10.38)	-0.90 (-1.05, -0.75)
Tokelau	0.13 (0.08, 0.25)	0.16 (0.10, 0.37)	9.12 (5.73, 17.56)	13.26 (8.10, 31.56)	-0.73 (-1.50, 0.04)
Tonga	5.02 (3.64, 9.12)	4.37 (2.88, 9.01)	5.90 (4.25, 11.17)	4.46 (2.97, 9.33)	-0.96 (-1.04, -0.88)
Trinidad and Tobago	227.95 (205.80, 252.29)	110.36 (84.94, 141.81)	20.67 (18.71, 22.76)	7.72 (5.91, 9.91)	-4.59 (-5.22, -3.95)
Tunisia	872.28 (581.60, 1515.66)	1063.53 (438.06, 1720.93)	10.19 (6.81, 18.05)	9.23 (3.88, 14.80)	0.30 (-0.01, 0.62)
Turkey	29374.46 (16002.37, 44373.25)	12652.38 (9855.73, 15875.26)	49.47 (29.15, 69.96)	16.56 (12.93, 20.56)	-3.50 (-3.62, -3.39)
Turkmenistan	216.43 (180.63, 275.34)	379.66 (289.51, 499.33)	6.70 (5.41, 8.34)	7.85 (5.96, 10.27)	0.04 (-0.25, 0.33)
Tuvalu	1.14 (0.67, 2.08)	0.83 (0.54, 1.59)	12.07 (7.17, 22.34)	7.30 (4.76, 14.38)	-1.73 (-1.77, -1.68)
Uganda	2721.83 (1647.88, 4823.83)	2530.95 (1529.46, 4433.19)	12.04 (6.01, 21.46)	5.98 (3.20, 10.36)	-2.65 (-2.77, -2.53)
Ukraine	1841.88 (1625.47, 2094.03)	1546.73 (1172.39, 1956.09)	3.22 (2.81, 3.70)	3.05 (2.37, 3.83)	-0.13 (-0.46, 0.21)
United Arab Emirates	413.38 (233.50, 600.98)	433.66 (265.84, 540.84)	24.08 (13.56, 33.57)	10.31 (5.63, 13.04)	-1.37 (-1.85, -0.88)
United Kingdom	3495.70 (3174.32, 4217.24)	3037.04 (2871.89, 3181.12)	6.03 (5.38, 7.25)	3.73 (3.54, 3.92)	-1.49 (-1.62, -1.36)
United Republic of Tanzania	3027.46 (2008.99, 5840.25)	3514.28 (2011.80, 6433.38)	10.15 (5.48, 18.13)	6.27 (3.28, 11.36)	-1.63 (-1.70, -1.56)
United States Virgin Islands	27496.46 (25036.70, 29771.88)	36197.64 (33003.84, 38647.83)	9.90 (9.08, 10.73)	8.08 (7.49, 8.60)	-0.86 (-1.00, -0.73)
United States of America	16.88 (9.86, 21.19)	6.06 (4.33, 8.63)	16.11 (9.30, 20.09)	6.40 (4.53, 8.82)	-3.00 (-3.38, -2.63)
Uruguay	299.88 (270.94, 329.23)	218.20 (200.03, 238.37)	9.40 (8.51, 10.36)	5.44 (4.97, 5.99)	-2.19 (-2.29, -2.09)
Uzbekistan	3388.91 (2858.93, 4034.02)	3874.23 (3132.71, 4698.68)	17.25 (14.40, 20.48)	12.20 (9.83, 14.82)	-1.02 (-1.27, -0.78)
Vanuatu	13.77 (8.37, 23.57)	21.52 (14.19, 41.20)	9.74 (6.13, 17.56)	7.80 (5.12, 15.18)	-0.91 (-1.01, -0.80)
Venezuela (Bolivarian Republic of)	730.87 (646.21, 825.63)	491.58 (391.39, 609.33)	4.06 (3.61, 4.54)	1.83 (1.46, 2.27)	-3.96 (-4.50, -3.42)
Viet Nam	3284.81 (2114.62, 6769.04)	3746.81 (2123.06, 8856.42)	5.31 (3.20, 12.21)	3.80 (2.13, 9.56)	-1.08 (-1.11, -1.05)
Yemen	3263.57 (1688.52, 5451.51)	5974.80 (2916.76, 8720.97)	16.52 (8.36, 27.98)	19.30 (9.07, 28.92)	1.09 (0.68, 1.50)
Zambia	814.67 (495.28, 1867.97)	1342.55 (566.65, 2580.89)	9.33 (5.72, 18.43)	8.64 (3.22, 17.19)	0.13 (-0.07, 0.33)
Zimbabwe	401.26 (198.74, 708.74)	955.43 (595.20, 1431.59)	5.04 (2.49, 8.67)	7.16 (4.65, 10.44)	2.06 (1.60, 2.52)

GBD: global burden of disease; PAH: pulmonary arterial hypertension; ASDALYs: age-standardized rate of disability-adjusted life years; EAPC: estimated annual percentage change; UI: uncertainty intervals; CI: confidence interval.

Table S4 Joinpoint regression analysis of trends in prevalence in PAH from 1992 to 2021, categorized by global, SDI Regions

Variable	Total period	Period 1		Period 2		Period 3		Period 4		Period 5		Period 6	
	AAPC (95% CI)	Years	APC (95% CI)	Years	APC (95% CI)	Years	APC (95% CI)	Years	APC (95% CI)	Years	APC (95% CI)	Years	APC (95% CI)
Global	-0.03 (-0.05, -0.02)	1992–2000	-0.13* (-0.14, 0.12)	2000–2005	0.34* (0.30, 0.38)	2005–2011	0.01 (-0.02, 0.04)	2011–2015	0.08* (0.02, 0.14)	2015–2019	-0.15* (-0.21, -0.09)	2019–2021	-0.70* (-0.83, -0.58)
Sex													
Male	0.07 (0.05, 0.09)	1992–2000	0.01 (-0.01, 0.03)	2000–2005	0.48* (0.44, 0.53)	2005–2011	0.12* (0.09, 0.15)	2011–2015	0.21 (0.14, 0.29)	2015–2019	-0.17* (-0.24, -0.09)	2019–2021	-0.67* (-0.82, -0.53)
Female	-0.08 (-0.10, -0.06)	1992–1995	-0.07 (-0.15, 0.01)	1995–2000	-0.24* (-0.3, -0.19)	2000–2005	0.26* (0.21, 0.31)	2005–2016	-0.04* (-0.05, -0.02)	2016–2019	-0.12 (-0.29, 0.04)	2019–2021	-0.71* (-0.88, -0.55)
SDI													
Low	-0.28 (-0.30–0.26)	1992–1995	0.50* (0.40, 0.59)	1995–2000	-0.19* (-0.25, -0.13)	2000–2005	0.01 (-0.05, 0.07)	2005–2010	0.24* (0.19, 0.30)	2010–2018	-0.99* (-1.01, -0.96)	2018–2021	-0.69* (-0.77, -0.60)
Low-middle	0.24 (0.23, 0.25)	1992–1995	0.28* (0.23, 0.33)	1995–1999	0.63* (0.58, 0.68)	1999–2006	0.33* (0.32, 0.35)	2006–2014	0.12* (0.10, 0.13)	2014–2019	0.23* (0.20, 0.26)	2019–2021	-0.37* (-0.46, -0.27)
Middle	0.19 (0.14, 0.23)	1992–1999	0.79* (0.75, 0.83)	1999–2005	0.47* (0.40, 0.54)	2005–2010	-0.60* (-0.69, -0.50)	2010–2016	0.35* (0.28, 0.41)	2016–2019	-0.01 (-0.31, 0.29)	2019–2021	-0.99* (-1.28, -0.69)
High-middle	-0.03 (-0.07, 0.00)	1992–2000	-1.03* (-1.06, -0.99)	2000–2005	0.91* (0.80, 1.01)	2005–2011	0.54* (0.47, 0.61)	2011–2019	0.15* (0.11, 0.20)	2019–2021	-0.84* (-1.16, -0.52)	-	-
High	-0.05 (-0.08, -0.03)	1992–1995	-0.05 (-0.14, 0.04)	1995–2000	-0.41* (-0.47, -0.35)	2000–2003	-0.06 (-0.23, 0.12)	2003–2015	0.15* (0.14, 0.16)	2015–2018	-0.23* (-0.4, -0.06)	2018–2021	-0.11* (-0.19, -0.02)
Age													
0–4 yr	0.05 (0.02, 0.09)	1992–2000	-0.02 (-0.05, 0.00)	2000–2011	0.2 (0.18, 0.22)	2011–2016	-0.18 (-0.27, -0.10)	2016–2019	0.26 (0.00, 0.52)	2019–2021	-0.16 (-0.42, 0.10)	-	-
5–9 yr	-0.07 (-0.08, -0.06)	1992–1996	0.12 (0.10, 0.14)	1996–2001	-0.15 (-0.17, -0.13)	2001–2005	0.3 (0.27, 0.34)	2005–2010	-0.18 (-0.21, -0.16)	2010–2019	-0.02 (-0.03, -0.02)	2019–2021	-0.39 (-0.46, -0.32)
10–14 yr	-0.08 (-0.09, -0.06)	1992–2001	0.09 (0.08, 0.10)	2001–2005	0.23 (0.19, 0.27)	2005–2010	-0.42 (-0.45, -0.39)	2010–2015	-0.13 (-0.16, -0.11)	2015–2019	-0.04 (-0.09, 0.00)	2019–2021	-0.39 (-0.48, -0.3)
15–19 yr	-0.05 (-0.06, -0.05)	1992–2001	0.07 (0.06, 0.08)	2001–2005	0.29 (0.24, 0.34)	2005–2008	-0.2 (-0.3, -0.09)	2008–2012	-0.32 (-0.37, -0.27)	2012–2019	-0.19 (-0.20, -0.17)	2019–2021	-0.44 (-0.54, -0.33)
20–24 yr	-0.04 (-0.05, -0.03)	1992–1998	0.17 (0.16, 0.18)	1998–2001	0.07 (0.01, 0.14)	2001–2005	0.23 (0.19, 0.26)	2005–2011	-0.09 (-0.1, -0.07)	2011–2019	-0.27 (-0.28, -0.26)	2019–2021	-0.51 (-0.57, -0.45)
25–29 yr	-0.01 (-0.03, 0.00)	1992–1996	0.03 (0.00, 0.05)	1996–2000	0.11 (0.07, 0.15)	2000–2005	0.25 (0.23, 0.28)	2005–2014	-0.07 (-0.08, -0.06)	2014–2018	-0.17 (-0.20, -0.13)	2018–2021	-0.58 (-0.61, -0.54)
30–34 yr	0 (-0.02, 0.01)	1992–2001	0.05 (0.04, 0.06)	2001–2005	0.29 (0.24, 0.33)	2005–2008	0.02 (-0.08, 0.11)	2008–2014	-0.13 (-0.15, -0.11)	2014–2019	-0.01 (-0.04, 0.02)	2019–2021	-0.58 (-0.68, -0.48)
35–39 yr	0 (-0.02, 0.01)	1992–2000	0.04 (0.03, 0.05)	2000–2004	0.41 (0.36, 0.45)	2004–2007	0.08 (-0.02, 0.17)	2007–2011	-0.05 (-0.09, 0.00)	2011–2019	-0.13 (-0.15, -0.12)	2019–2021	-0.51 (-0.60, -0.42)
40–44 yr	0.04 (0.02, 0.07)	1992–2000	-0.06 (-0.07, -0.04)	2000–2006	0.48 (0.45, 0.51)	2006–2016	-0.02 (-0.03, -0.01)	2016–2019	-0.28 (-0.42, -0.14)	2019–2021	-0.75 (-0.88, -0.61)	-	-
45–49 yr	-0.03 (-0.04, -0.03)	1992–1995	0.32 (0.22, 0.42)	1995–2000	-0.13 (-0.19, -0.07)	2000–2005	0.41 (0.34, 0.47)	2005–2015	0.15 (0.13, 0.17)	2015–2019	-0.21 (-0.31, -0.11)	2019–2021	-0.85 (-1.05, -0.65)
50–54 yr	0.01 (-0.02, 0.04)	1992–1996	0.12 (0.10, 0.14)	1996–2001	-0.15 (-0.17, -0.13)	2001–2005	0.3 (0.27, 0.34)	2005–2010	-0.18 (-0.21, -0.16)	2010–2019	-0.02 (-0.03, -0.02)	2019–2021	-0.39 (-0.46, -0.32)
55–59 yr	0.03 (0.00, 0.05)	1992–1997	-0.17 (-0.23, -0.12)	1997–2006	0.23 (0.20, 0.26)	2006–2010	-0.06 (-0.19, 0.06)	2010–2015	0.31 (0.23, 0.38)	2015–2019	-0.07 (-0.19, 0.05)	2019–2021	-0.95 (-1.19, -0.71)
60–64 yr	-0.01 (-0.03, 0.00)	1992–2000	-0.16 (-0.17, -0.15)	2000–2004	0.41 (0.35, 0.46)	2004–2009	0 (-0.03, 0.03)	2009–2013	0.1 (0.05, 0.16)	2013–2019	0.01 (-0.02, 0.03)	2019–2021	-0.61 (-0.71, -0.5)
65–69 yr	-0.1 (-0.13, -0.07)	1992–1999	-0.38 (-0.41, -0.36)	1999–2007	0.22 (0.19, 0.25)	2007–2011	-0.15 (-0.25, -0.04)	2011–2015	0.32 (0.21, 0.42)	2015–2018	-0.14 (-0.35, 0.07)	2018–2021	-0.73 (-0.84, -0.63)
70–74 yr	-0.07 (-0.11, -0.03)	1992–1995	0.23 (0.04, 0.41)	1995–2000	-0.56 (-0.67, -0.44)	2000–2013	0.15 (0.13, 0.17)	2013–2019	-0.11 (-0.19, -0.02)	2019–2021	-0.61 (-0.98, -0.25)	-	-
75–79 yr	-0.13 (-0.18, -0.08)	1992–1994	-1.2 (-1.54, -0.85)	1998–2008	-0.05 (-0.08, -0.02)	2008–2016	0.2 (0.16, 0.25)	2016–2019	-0.37 (-0.72, -0.02)	2019–2021	-1.08 (-1.43, -0.73)	-	-
80–84 yr	-0.15 (-0.19, -0.11)	1992–1995	-0.49 (-0.69, -0.29)	1995–1999	-1.76 (-1.96, -1.56)	1999–2005	0.94 (0.85, 1.03)	2005–2017	0.05 (0.02, 0.07)	2017–2021	-0.47 (-0.60, -0.34)	-	-
85–89 yr	-0.03 (-0.05, -0.01)	1992–1995	-0.4 (-0.48, -0.33)	1995–2000	-0.9 (-0.95, -0.85)	2000–2004	-0.02 (-0.09, 0.06)	2004–2009	1.62 (1.57–1.67)	2009–2015	0.09 (0.06, 0.13)	2015–2021	-0.61 (-0.63, -0.58)
90–94 yr	0.11 (0.04, 0.17)	1992–1997	-1.31 (-1.41, -1.21)	1997–2000	-0.69 (-1.15, -0.23)	2000–2005	1.88 (1.73, 2.03)	2005–2009	-0.11 (-0.34, 0.12)	2009–2014	1.55 (1.40, 1.69)	2014–2021	-0.68 (-0.74, -0.62)
95+ yr	0.4 (0.30, 0.50)	1992–2000	-0.97 (-1.04, -0.9)	2000–2006	2.7 (2.55, 2.85)	2006–2009	1.85 (1.20, 2.50)	2009–2013	-0.8 (-1.11, -0.49)	2013–2016	0.82 (0.19, 1.46)	2016–2021	-0.27 (-0.42, -0.13)

PAH: pulmonary arterial hypertension; SDI: socio-demographic index; AAPC: average annual percentage change; APC: average percent change.

Table S5 Joinpoint regression analysis of trends in mortality in PAH from 1992 to 2021, categorized by global, SDI Regions

Variable	Total period	Period 1		Period 2		Period 3		Period 4		Period 5		Period 6	
	AAPC (95% CI)	Years	APC (95% CI)	Years	APC (95% CI)	Years	APC (95% CI)	Years	APC (95% CI)	Years	APC (95% CI)	Years	APC (95% CI)
Global	-0.84 (-0.98, 0.69)	1992–2006	-0.63* (-0.68, -0.58)	2006–2010	1.90* (1.42, 2.38)	2010–2013	-1.12* (-2.2, -0.04)	2013–2018	-2.70* (-3.03, -2.36)	2018–2021	-1.99* (-2.53, -1.46)	-	-
Sex													
Male	-1.09 (-1.25, -0.92)	1992–1999	-1.25* (-1.43, -1.08)	1999–2006	-0.88* (-1.06, -0.69)	2006–2010	2.63* (2.08, 3.18)	2010–2013	-1.09 (-2.31, 0.13)	2013–2018	-3.31 (-3.69, -2.92)	2018–2021	-2.30* (-2.93, -1.67)
Female	-0.64 (-0.77, -0.51)	1992–2002	-0.21* (-0.30, -0.12)	2002–2006	-0.61* (-1.11, -0.10)	2006–2010	1.47* (1.03, 1.91)	2010–2013	-1.11* (-1.92, -0.29)	2013–2017	-2.30* (-2.72, -1.88)	2017–2021	-1.81* (-2.08, -1.54)
SDI													
Low	-0.57 (-0.87, 0.26)	1992–1995	0.64 (-0.44, 1.73)	1995–2000	-1.34* (-1.99, -0.69)	2000–2011	-0.18* (-0.34, -0.03)	2011–2014	2.20* (0.22, 4.23)	2014–2017	-1.54* (-3.42–0.38)	2017–2021	-2.83* (-3.40, -2.26)
Low-middle	-0.88 (-1.02, 0.75)	1992–1995	-0.30 (-1.05, 0.46)	1995–2001	-1.24* (-1.57, -0.90)	2001–2009	-0.06 (-0.25, 0.14)	2009–2017	-0.88* (-1.08, -0.68)	2017–2021	-2.43* (-2.92, -1.94)	-	-
Middle	-1.08 (-1.23, 0.93)	1992–2000	-1.92* (-2.02, -1.81)	2000–2006	-0.62* (-0.82, -0.43)	2006–2010	4.69* (4.22, 5.17)	2010–2013	-1.82* (-2.88, -0.74)	2013–2017	-3.95* (-4.48, -3.41)	2017–2021	-2.21* (-2.56, -1.87)
High-middle	-1.34 (-1.61, 1.07)	1992–2000	-0.77* (-1.01, -0.53)	2000–2006	-1.32* (-1.76, -0.87)	2006–2010	1.99* (1.14, 2.85)	2010–2013	-2.02* (-3.78, -0.22)	2013–2017	-4.42* (-5.38, -3.46)	2017–2021	-2.13* (-2.83, -1.41)
High	-0.68 (-0.85, 0.52)	1992–2002	0.79* (0.68, 0.90)	2002–2006	-1.77* (-2.42, -1.10)	2006–2011	-0.27 (-0.76, 0.23)	2011–2016	-1.38* (-1.92, -0.83)	2016–2021	-2.43* (-2.86, -1.99)	-	-
Age													
0–4 yr	-3.18 (-3.41, -2.94)	1992–2005	-2.57 (-2.72, -2.42)	2005–2013	-1.91 (-2.21, -1.61)	2013–2016	-3.91 (-5.93, -1.84)	2016–2021	-6.29 (-6.72, -5.87)	-	-	-	-
5–9 yr	-1.43 (-1.71, -1.16)	1992–2002	-1.99 (-2.15, -1.82)	2002–2009	-0.28 (-0.58, 0.01)	2009–2013	-1.29 (-2.1, -0.47)	2013–2016	-3.15 (-4.73, -1.55)	2016–2021	-5.09 (-5.46, -4.73)	-	-
10–14 yr	-1.13 (-1.29, -0.96)	1992–1995	-0.22 (-1.11, 0.69)	1995–2004	-1.65 (-1.84, -1.47)	2004–2007	-0.54 (-2.29–1.23)	2007–2010	0.89 (-0.95, 2.77)	2010–2015	-1.55 (-2.08, -1.02)	-	-
15–19 yr	-0.81 (-0.86, -0.76)	1992–1999	-0.48 (-0.62, -0.34)	1999–2002	-1.56 (-2.57, -0.54)	2002–2011	-0.73 (-0.84, -0.63)	2011–2016	-1.42 (-1.73, -1.11)	2016–2019	-3.01 (-4.00, -2.00)	2019–2021	-0.93 (-1.92, 0.07)
20–24 yr	-0.93 (-1.02, -0.84)	1992–2010	-0.25 (-0.31, -0.19)	2010–2021	-1.73 (-1.84, -1.62)	-	-	-	-	-	-	-	-
25–29 yr	-1.11 (-1.29, -0.93)	1992–1997	-0.95 (-1.37, -0.52)	1997–2010	0.01 (-0.09, 0.11)	2010–2021	-2.01 (-2.11, -1.9)	-	-	-	-	-	-
30–34 yr	-1.28 (-1.4, -1.15)	1992–2001	-1.1 (-1.27, -0.93)	2001–2007	-0.29 (-0.67, 0.10)	2007–2010	0.97 (-0.63, 2.59)	2010–2021	-2.13 (-2.23, -2.02)	-	-	-	-
35–39 yr	-1.3 (-1.54, -1.06)	1992–2005	-1.16 (-1.27, -1.05)	2005–2009	-0.15 (-0.99, 0.70)	2009–2021	-1.77 (-1.87, -1.67)	-	-	-	-	-	-
40–44 yr	-1.31 (-1.49, -1.13)	1992–1994	-0.42 (-2.2, 1.38)	1994–2004	-1.56 (-1.71, -1.41)	2004–2007	1.1 (-0.35–2.57)	2007–2011	-1.55 (-2.21, -0.89)	2011–2014	-2.41 (-3.73, -1.07)	2014–2021	-1.56 (-1.74, -1.38)
45–49 yr	-2.15 (-2.36, -1.94)	1992–1995	-0.11 (-0.81, 0.58)	1995–2007	-1.2 (-1.27, -1.12)	2007–2010	0.89 (-0.09, 1.88)	2010–2013	-1.98 (-2.94, -1.01)	2013–2016	-3.54 (-4.53, -2.55)	2016–2021	-1.84 (-2.08, -1.6)

Table S6 Joinpoint regression analysis of trends in DALYs in PAH from 1992 to 2021, categorized by global, SDI Regions

Variable	Total period	Period 1		Period 2		Period 3		Period 4		Period 5		Period 6	
	AAPC (95% CI)	Years	APC (95% CI)	Years	APC (95% CI)	Years	APC (95% CI)	Years	APC (95% CI)	Years	APC (95% CI)	Years	APC (95% CI)
Global	-1.57 (-1.68, 1.46)	1992–1998	-1.51* (-1.68, -1.34)	1998–2006	-1.29* (-1.41, -1.17)	2006–2010	0.47* (0.06, 0.89)	2010–2013	-1.59* (-2.44, -0.73)	2013–2021	-2.90* (-2.99, -2.81)	-	-
Sex													
Male	-1.29 (-1.40, 1.18)	1992–1995	-1.58* (-1.96, -1.20)	1995–1998	-2.21* (-2.95, -1.47)	1998–2006	-1.51* (-1.61, -1.41)	2006–2010	0.67* (0.29, 1.05)	2010–2013	-1.81* (-2.64, -0.97)	2013–2021	-1.81* (-3.45, -3.27)
Female	-1.84 (-1.96, 1.71)	1992–2006	-1.06* (-1.11, -1.00)	2006–2010	0.36 (-0.11, 0.84)	2010–2013	-1.33* (-2.19, -0.46)	2013–2021	-2.48* (-2.57, -2.39)	-	-	-	-
SDI													
Low	-0.93 (-1.07, 0.80)	1992–1995	-0.04 (-0.58, 0.49)	1995–2001	-1.15* (-1.38, -0.92)	2001–2004	-0.13 (-1.14, 0.89)	2004–2010	-0.95* (-1.17, -0.73)	2010–2015	0.11 (-0.18, 0.41)	2015–2021	-2.40* (-2.55, -2.25)
Low-middle	-1.58 (-1.71, 1.45)	1992–1998	-1.56* (-1.73, -1.40)	1998–2006	-1.20* (-1.33, -1.07)	2006–2010	-0.28 (-0.74, 0.19)	2010–2013	-1.49* (-2.39, -0.57)	2013–2018	-2.06* (-2.34, -1.77)	2018–2021	3.65* (-4.11, -3.19)
Middle	-1.81 (-1.96, 1.66)	1992–2000	-2.47* (-2.59, -2.36)	2000–2005	-1.35* (-1.65, -1.05)	2005–2010	1.87* (1.58, 2.17)	2010–2013	-1.90* (-2.95, -0.85)	2013–2017	-4.22* (-4.74, -3.69)	2017–2021	-3.05* (-3.42, -2.69)
High-middle	-2.39 (-2.67, 2.11)	1992–1994	-0.26 (-2.65, 2.18)	1994–2006	-2.43* (-2.57, -2.30)	2006–2010	0.03 (-0.73, 0.80)	2010–2013	-2.51* (-4.12, -0.88)	2013–2017	-4.63* (-5.52, -3.73)	2017–2021	-3.33* (-4.00, -2.65)
High	-1.42 (-1.54, 1.30)	1992–2002	0.07 (-0.04, 0.19)	2002–2006	-3.18* (-3.78, -2.57)	2006–2015	-1.55* (-1.72, -1.38)	2015–2021	-2.50* (-2.81, -2.18)	-	-	-	-
Age													
0–4 yr	-3.18 (-3.41, -2.95)	1992–2005	-2.57 (-2.72, -2.42)	2005–2013	-1.91 (-2.21, -1.61)	2013–2016	-3.91 (-5.93, -1.84)	2016–2021	-6.3 (-6.72, -5.87)	-	-	-	-
5–9 yr	-1.4 (-1.66, -1.13)	1992–2002	-1.96 (-2.13, -1.79)	2002–2009	-0.28 (-0.57, -0.02)	2009–2013	-1.26 (-2.06, -0.46)	2013–2016	-3.11 (-4.67, -1.52)	2016–2021	-5 (-5.36, -4.65)	-	-
10–14 yr	-1.1 (-1.26, -0.94)	1992–1995	-0.21 (-1.09, -0.68)	1995–2004	-1.62 (-1.8, -1.44)	2004–2007	-0.53 (-2.24, 1.21)	2007–2010	0.86 (-0.91, 2.66)	2010–2015	-1.51 (-2.02, -0.99)	2015–2021	-3.09 (-3.37, -2.81)
15–19 yr	-0.8 (-0.85, -0.74)	1992–1999	-0.46 (-0.6, -0.33)	1999–2002	-1.52 (-2.51, -0.53)	2002–2011	-0.72 (-0.83, -0.62)	2011–2016	-1.38 (-1.69, -1.08)	2016–2019	-2.93 (-3.92, -1.94)	2019–2021	-0.91 (-1.9, 0.09)
20–24 yr	-0.9 (-0.99, -0.82)	1992–2010	-0.24 (-0.3, -0.19)	2010–2021	-1.69 (-1.8, -1.58)	-	-	-	-	-	-	-	-
25–29 yr	-1.07 (-1.25, -0.9)	1992–1997	-0.92 (-1.33, -0.5)	1997–2010	0.01 (-0.09, 0.11)	2010–2021	-1.96 (-2.07, -1.86)	-	-	-	-	-	-
30–34 yr	-1.23 (-1.34, -1.11)	1992–2001	-1.07 (-1.23, -0.9)	2001–2007	-0.27 (-0.64, 0.10)	2007–2010	0.95 (-0.60, 2.51)	2010–2021	-2.05 (-2.15, -1.95)	-	-	-	-
35–39 yr	-1.25 (-1.47, -1.03)	1992–2005	-1.12 (-1.22, -1.01)	2005–2009	-0.15 (-0.95, 0.65)	2009–2021	-1.7 (-1.79, -1.60)	-	-	-	-	-	-
40–44 yr	-1.25 (-1.42, -1.08)	1992–1994	-0.47 (-2.22, 1.31)	1994–2004	-1.5 (-1.65, -1.36)	2004–2007	1.09 (-0.35, 2.56)	2007–2011	-1.57 (-2.21, -0.92)	2011–2015	-2.15 (-2.81, -1.48)	2015–2021	-1.44 (-1.66, -1.22)
45–49 yr	-2.11 (-2.32, -1.90)	1992–1995	-0.13 (-0.78, 0.52)	1995–2007	-1.14 (-1.21, -1.07)	2007–2010	0.91 (-0.01, 1.83)	2010–2013	-1.92 (-2.83, -1.01)	2013–2016	-3.36 (-4.31, -2.4)	2016–2021	-1.75 (-1.98, -1.52)
50–54 yr	-1.43 (-1.65, -1.2)	1992–1994	0.09 (-1.72, 1.94)	1994–1997	-1.9 (-3.57, -0.2)	1997–2004	-0.98 (-1.24, -0.72)	2004–2008	-0.43 (-1.09, 0.23)	2008–2015	-1.74 (-1.94, -1.54)	2015–2021	-2.51 (-2.72, -2.29)
55–59 yr	-1.16 (-1.36, -0.95)	1992–2001	-0.99 (-1.13, -0.84)	2001–2004	-1.94 (-3.34, -0.53)	2004–2008	0.2 (-0.45, 0.86)	2008–2012	-0.76 (-1.46, -0.05)	2012–2017	-2.76 (-3.2, -2.32)	2017–2021	-0.67 (-1.16, -0.18)
60–64 yr	-1.22 (-1.37, -1.07)	1992–1995	-0.22 (-0.86, 0.43)	1995–1998	-1.76 (-2.93, -0.58)	1998–2006	-0.93 (-1.08, -0.79)	2006–2011	1.2 (0.85, 1.56)	2011–2021	-2.77 (-2.86, -2.68)	-	-
65–69 yr		1992–2000	-0.5 (-0.63, -0.36)	2000–2006	-1.33 (-1.58, -1.09)	2006–2011	1.68 (1.34, 2.03)	2011–2015	-3.02 (-3.63, -2.4)	2015–2021	-1.94 (-2.14, -1.73)	-	-
70–74 yr	-0.75 (-0.93, -0.57)	1992–2000	-0.74 (-0.87, -0.61)	2000–2006	-0.37 (-0.61, -0.13)	2006–2010	2.03 (1.48–2.58)	2010–2013	-1.33 (-2.6, -0.05)	2013–2019	-2.7 (-2.99, -2.42)	2019–2021	-0.65 (-1.91–0.62)
75–79 yr	-0.55 (-0.81, -0.28)	1992–2006	-0.52 (-0.6, -0.44)	2006–2010	3.74 (2.90, 4.58)	2010–2013	-1.04 (-3.01, 0.96)	2013–2017	-3.67 (-4.63, -2.69)	2017–2021	-1.32 (-1.93, -0.70)	-	-
80–84 yr	-0.16 (-0.35–0.04)	1992–1997	1.02 (0.64–1.40)	1997–2006	-0.28 (-0.44, -0.12)	2006–2010	4.32 (3.63, 5.01)	2010–2013	-0.74 (-2.30, 0.83)	2013–2021	-2.68 (-2.86, -2.51)	-	-
85–89 yr	0.25 (-0.04–0.54)	1992–1997	-0.02 (-0.47, 0.42)	1997–2003	2.23 (1.83, 2.63)	2003–2006	-0.83 (-2.57, 0.95)	2006–2010	3.51 (2.61, 4.42)	2010–2013	-0.9 (-2.74, 0.97)	-	-
90–94 yr	0.62 (0.44, 0.80)	1992–1998	0.6 (0.34, 0.85)	1998–2006	1.48 (1.29, 1.67)	2006–2010	3.6 (2.90, 4.30)	2010–2014	0.42 (-0.31, 1.16)	2014–2018	-2.78 (-3.46, -2.1)	2018–2021	-0.68 (-1.40, 0.04)
95+ yr	0.8 (0.64, 0.95)	1992–1995	2.18 (1.41, 2.97)	1995–2006	0.57 (0.45, 0.68)	2006–2010	3.72 (2.93, 4.51)	2010–2017	0.19 (-0.07, 0.46)	2017–2021	-1.41 (-1.91, -0.90)	-	-

PAH: pulmonary arterial hypertension; SDI: socio-demographic index; DALYs: disability-adjusted life years; AAPC: average annual percentage change; APC: average percent change.

Table S7 Net drift and local drift values for PAH prevalence

Measure	Global	High SDI	High-middle SDI	Middle SDI	Low-middle SDI	Low SDI
Prevalence						
Net drift (% per year)	0.05 (0.02, 0.08)	0.02 (-0.04, 0.08)	0.19 (0.12, 0.26)	0.17 (0.09, 0.25)	0.28 (0.18, 0.38)	-0.24 (-0.42, -0.06)
Local drift (% per year)						
0–4 yr	0.03 (-0.15, 0.21)	0.06 (-0.53, 0.65)	0.25 (-0.23, 0.73)	0.15 (-0.17, 0.47)	0.32 (-0.03, 0.68)	-0.14 (-0.56, 0.28)
5–9 yr	-0.04 (-0.16, 0.07)	-0.01 (-0.36, 0.34)	0.20 (-0.09, 0.49)	0.13 (-0.07, 0.33)	0.29 (-0.05, 0.52)	-0.25 (-0.54, 0.04)
10–14 yr	-0.07 (-0.16, 0.02)	-0.04 (-0.30, 0.22)	0.17 (-0.05, 0.39)	0.15 (-0.01, 0.30)	0.21 (-0.03, 0.40)	-0.34 (-0.57, -0.11)
15–19 yr	-0.07 (-0.14, 0.00)	-0.06 (-0.27, 0.15)	0.15 (-0.03, 0.34)	0.15 (-0.01, 0.28)	0.15 (-0.01, 0.31)	-0.39 (-0.59, -0.19)
20–24 yr	-0.04 (-0.11, 0.02)	-0.08 (-0.26, 0.09)	0.16 (-0.01, 0.32)	0.14 (-0.02, 0.25)	0.14 (-0.00, 0.28)	-0.36 (-0.54, -0.17)
25–29 yr	-0.01 (-0.07, 0.05)	-0.09 (-0.24, 0.06)	0.19 (-0.07, 0.32)	0.11 (-0.02, 0.21)	0.16 (-0.03, 0.29)	-0.31 (-0.48, -0.13)
30–34 yr	0.02 (-0.03, 0.08)	-0.04 (-0.17, 0.09)	0.23 (-0.12, 0.35)	0.10 (-0.01, 0.19)	0.20 (-0.07, 0.32)	-0.28 (-0.46, -0.10)
35–39 yr	0.05 (-0.00, 0.11)	0.03 (-0.09, 0.15)	0.29 (-0.18, 0.39)	0.12 (-0.03, 0.20)	0.23 (-0.11, 0.35)	-0.27 (-0.45, -0.09)
40–44 yr	0.09 (-0.04, 0.14)	0.07 (-0.04, 0.19)	0.31 (-0.21, 0.41)	0.14 (-0.06, 0.23)	0.25 (-0.13, 0.38)	-0.25 (-0.44, -0.07)
45–49 yr	0.10 (-0.06, 0.15)	0.06 (-0.05, 0.16)	0.29 (-0.19, 0.39)	0.17 (-0.08, 0.25)	0.27 (-0.15, 0.39)	-0.23 (-0.42, -0.04)
50–54 yr	0.10 (-0.05, 0.15)	-0.03 (-0.13, 0.07)	0.26 (-0.16, 0.36)	0.19 (-0.10, 0.27)	0.29 (-0.16, 0.42)	-0.21 (-0.41, -0.01)
55–59 yr	0.08 (-0.03, 0.13)	-0.15 (-0.25, -0.05)	0.23 (-0.14, 0.33)	0.20 (-0.11, 0.29)	0.30 (-0.16, 0.43)	-0.21 (-0.42, -0.01)
60–64 yr	0.05 (-0.00, 0.10)	-0.18 (-0.27, -0.08)	0.18 (-0.08, 0.28)	0.20 (-0.11, 0.30)	0.30 (-0.16, 0.44)	-0.25 (-0.46, -0.03)
65–69 yr	0.02 (-0.03, 0.07)	-0.12 (-0.21, -0.02)	0.13 (-0.03, 0.24)	0.20 (-0.10, 0.31)	0.28 (-0.13, 0.43)	-0.29 (-0.53, -0.05)
70–74 yr	-0.01 (-0.07, 0.05)	-0.03 (-0.13, 0.07)	0.10 (-0.01, 0.22)	0.18 (-0.06, 0.31)	0.25 (-0.07, 0.44)	-0.31 (-0.59, -0.03)
75–79 yr	0.04 (-0.03, 0.11)	0.15 (-0.04, 0.27)	0.10 (-0.05, 0.25)	0.17 (-0.00, 0.33)	0.28 (-0.04, 0.52)	-0.29 (-0.66, 0.09)
80–84 yr	0.04 (-0.06, 0.14)	0.26 (-0.11, 0.41)	0.02 (-0.17, 0.22)	0.18 (-0.07, 0.43)	0.38 (-0.02, 0.74)	-0.19 (-0.78, 0.40)
85–89 yr	0.12 (-0.04, 0.28)	0.39 (-0.17, 0.62)	0.01 (-0.31, 0.33)	0.21 (-0.23, 0.65)	0.54 (-0.08, 1.16)	-0.10 (-1.19, 1.00)
90–94 yr	0.30 (-0.02, 0.62)	0.61 (-0.19, 1.04)	0.03 (-0.62, 0.69)	0.27 (-0.65, 1.20)	0.62 (-0.63, 1.89)	0.33 (-2.17, 2.89)
95+ yr	0.51 (-0.26, 1.29)	0.87 (-0.11, 1.87)	0.08 (-1.64, 1.83)	0.54 (-1.88, 3.01)	0.71 (-2.29, 3.80)	0.29 (-5.64, 6.60)

PAH: pulmonary arterial hypertension; SDI: socio-demographic index.

Table S8 Net drift and local drift values for PAH mortality

Measure		Global	High SDI	High-middle SDI	Middle SDI	Low-middle SDI	Low SDI
Deaths	Net drift (% per year)	-0.88 (-0.97, -0.79)	-1.21 (-1.44, -0.97)	-1.62 (-1.82, -1.41)	-0.95 (-1.11, -0.80)	-0.65 (-0.85, -0.45)	-0.54 (-0.86, -0.21)
	Local drift (% per year)						
	0-4 yr	-2.71 (-2.89, -2.52)	-3.22 (-4.09, -2.35)	-4.85 (-5.51, -4.18)	-3.54 (-3.96, -3.11)	-2.64 (-2.94, -2.35)	-1.74 (-2.12, -1.35)
	5-9 yr	-2.14 (-2.37, -1.91)	-2.91 (-3.82, -2.00)	-3.82 (-4.51, -3.12)	-2.77 (-3.22, -2.31)	-1.95 (-2.35, -1.55)	-1.27 (-1.80, -0.74)
	10-14 yr	-1.68 (-1.95, -1.42)	-2.50 (-3.44, -1.54)	-3.05 (-3.81, -2.29)	-2.15 (-2.64, -1.64)	-1.51 (-1.99, -1.02)	-0.90 (-1.54, -0.26)
	15-19 yr	-1.20 (-1.48, -0.92)	-2.02 (-2.94, -1.08)	-2.28 (-3.05, -1.51)	-1.43 (-1.94, -0.92)	-1.06 (-1.58, -0.54)	-0.64 (-1.33, 0.07)
	20-24 yr	-0.90 (-1.17, -0.63)	-1.78 (-2.63, -0.92)	-1.94 (-2.66, -1.22)	-0.94 (-1.42, -0.46)	-0.66 (-1.18, -0.13)	-0.45 (-1.17, 0.28)
	25-29 yr	-0.81 (-1.06, -0.55)	-1.69 (-2.44, -0.93)	-1.88 (-2.52, -1.24)	-0.73 (-1.17, -0.30)	-0.47 (-0.98, 0.03)	-0.34 (-1.08, 0.41)
	30-34 yr	-0.95 (-1.20, -0.71)	-1.55 (-2.24, -0.86)	-1.98 (-2.57, -1.38)	-0.78 (-1.20, -0.36)	-0.66 (-1.16, -0.16)	-0.48 (-1.24, 0.29)
	35-39 yr	-1.06 (-1.29, -0.83)	-1.53 (-2.15, -0.91)	-1.99 (-2.54, -1.44)	-0.95 (-1.35, -0.55)	-0.65 (-1.14, -0.16)	-0.64 (-1.40, 0.13)
	40-44 yr	-1.24 (-1.46, -1.02)	-1.50 (-2.06, -0.93)	-2.14 (-2.64, -1.65)	-1.23 (-1.60, -0.86)	-0.67 (-1.15, -0.20)	-0.84 (-1.59, -0.08)
	45-49 yr	-1.33 (-1.53, -1.12)	-1.39 (-1.90, -0.88)	-2.16 (-2.62, -1.70)	-1.37 (-1.72, -1.02)	-0.73 (-1.19, -0.26)	-1.07 (-1.80, -0.32)
	50-54 yr	-1.28 (-1.47, -1.09)	-1.32 (-1.78, -0.86)	-1.97 (-2.39, -1.55)	-1.29 (-1.62, -0.96)	-0.79 (-1.23, -0.35)	-1.13 (-1.84, -0.42)
	55-59 yr	-1.17 (-1.35, -1.00)	-1.19 (-1.59, -0.78)	-1.63 (-2.01, -1.26)	-1.24 (-1.54, -0.94)	-0.79 (-1.20, -0.38)	-1.03 (-1.69, -0.37)
	60-64 yr	-1.04 (-1.20, -0.89)	-1.11 (-1.47, -0.75)	-1.37 (-1.70, -1.04)	-1.05 (-1.32, -0.78)	-0.85 (-1.23, -0.46)	-0.88 (-1.50, -0.25)
	65-69 yr	-0.79 (-0.93, -0.65)	-1.02 (-1.34, -0.71)	-1.02 (-1.31, -0.73)	-0.77 (-1.01, -0.53)	-0.69 (-1.05, -0.32)	-0.52 (-1.12, 0.09)
	70-74 yr	-0.53 (-0.67, -0.40)	-0.81 (-1.09, -0.53)	-0.79 (-1.06, -0.51)	-0.57 (-0.80, -0.35)	-0.41 (-0.78, -0.05)	-0.07 (-0.68, 0.54)
	75-79 yr	-0.23 (-0.36, -0.10)	-0.33 (-0.60, -0.06)	-0.61 (-0.87, -0.34)	-0.39 (-0.61, -0.17)	-0.08 (-0.47, 0.31)	0.34 (-0.33, 1.02)
	80-84 yr	0.19 (-0.05, 0.32)	0.14 (-0.12, 0.40)	-0.26 (-0.53, 0.02)	-0.02 (-0.26, 0.23)	0.18 (-0.27, 0.63)	0.66 (-0.18, 1.52)
	85-89 yr	0.64 (-0.47, 0.81)	0.71 (-0.43, 1.00)	0.23 (-0.11, 0.58)	0.48 (-0.15, 0.81)	0.34 (-0.26, 0.94)	0.78 (-0.45, 2.02)
	90-94 yr	0.96 (-0.70, 1.23)	1.08 (-0.69, 1.47)	0.67 (-0.10, 1.24)	0.87 (-0.29, 1.45)	0.37 (-0.60, 1.36)	0.68 (-1.45, 2.86)
	95+ yr	1.15 (-0.61, 1.69)	1.14 (-0.44, 1.84)	1.15 (-0.15, 2.47)	1.16 (-0.26, 2.60)	0.15 (-1.89, 2.23)	0.02 (-4.31, 4.54)

PAH: pulmonary arterial hypertension; SDI: socio-demographic index.

Table S9 Net drift and local drift values for PAH DALYs

Measure		Global	High SDI	High-middle SDI	Middle SDI	Low-middle SDI	Low SDI
DALYs	Net drift (% per year)	-0.85 (-0.92, -0.79)	-1.16 (-1.21, -1.11)	-1.55 (-1.62, -1.49)	-0.92 (-1.01, -0.83)	-0.62 (-0.73, -0.51)	-0.51 (-0.61, -0.40)
	Local drift (% per year)						
	0-4 yr	-2.71 (-2.81, -2.62)	-3.19 (-3.33, -3.05)	-4.84 (-4.99, -4.69)	-3.53 (-3.68, -3.37)	-2.65 (-2.75, -2.56)	-1.73 (-1.80, -1.67)
	5-9 yr	-2.11 (-2.23, -1.99)	-2.83 (-2.98, -2.68)	-3.74 (-3.91, -3.58)	-2.74 (-2.91, -2.56)	-1.96 (-2.10, -1.82)	-1.27 (-1.36, -1.17)
	10-14 yr	-1.67 (-1.81, -1.53)	-2.46 (-2.62, -2.30)	-2.96 (-3.15, -2.78)	-2.15 (-2.35, -1.95)	-1.50 (-1.67, -1.32)	-0.91 (-1.02, -0.80)
	15-19 yr	-1.20 (-1.35, -1.05)	-1.99 (-2.15, -1.83)	-2.20 (-2.39, -2.01)	-1.46 (-1.67, -1.26)	-1.05 (-1.24, -0.86)	-0.64 (-0.76, -0.51)
	20-24 yr	-0.87 (-1.02, -0.72)	-1.73 (-1.88, -1.57)	-1.85 (-2.04, -1.67)	-0.92 (-1.12, -0.72)	-0.63 (-0.82, -0.43)	-0.42 (-0.56, -0.29)
	25-29 yr	-0.76 (-0.91, -0.62)	-1.62 (-1.76, -1.49)	-1.79 (-1.96, -1.62)	-0.67 (-0.86, -0.48)	-0.43 (-0.63, -0.24)	-0.30 (-0.44, -0.15)
	30-34 yr	-0.91 (-1.05, -0.76)	-1.48 (-1.61, -1.34)	-1.89 (-2.05, -1.73)	-0.73 (-0.91, -0.54)	-0.61 (-0.81, -0.41)	-0.45 (-0.60, -0.30)
	35-39 yr	-1.01 (-1.15, -0.86)	-1.43 (-1.55, -1.31)	-1.90 (-2.05, -1.74)	-0.89 (-1.07, -0.70)	-0.60 (-0.81, -0.39)	-0.61 (-0.77, -0.45)
	40-44 yr	-1.18 (-1.33, -1.04)	-1.41 (-1.53, -1.29)	-2.04 (-2.19, -1.90)	-1.17 (-1.35, -0.99)	-0.63 (-0.84, -0.42)	-0.79 (-0.95, -0.62)
	45-49 yr	-1.27 (-1.42, -1.13)	-1.33 (-1.44, -1.22)	-2.07 (-2.21, -1.92)	-1.31 (-1.49, -1.12)	-0.68 (-0.90, -0.46)	-1.00 (-1.17, -0.83)
	50-54 yr	-1.23 (-1.38, -1.09)	-1.26 (-1.37, -1.15)	-1.89 (-2.03, -1.75)	-1.24 (-1.42, -1.06)	-0.75 (-0.96, -0.53)	-1.08 (-1.25, -0.90)
	55-59 yr	-1.13 (-1.27, -0.99)	-1.14 (-1.24, -1.04)	-1.57 (-1.70, -1.43)	-1.17 (-1.35, -1.00)	-0.75 (-0.97, -0.54)	-0.98 (-1.15, -0.80)
	60-64 yr	-1.01 (-1.14, -0.87)	-1.06 (-1.16, -0.96)	-1.33 (-1.46, -1.20)	-1.00 (-1.17, -0.82)	-0.81 (-1.03, -0.59)	-0.84 (-1.02, -0.67)
	65-69 yr	-0.77 (-0.90, -0.64)	-0.97 (-1.06, -0.88)	-1.01 (-1.13, -0.89)	-0.74 (-0.90, -0.57)	-0.66 (-0.89, -0.43)	-0.51 (-0.70, -0.32)
	70-74 yr	-0.52 (-0.66, -0.39)	-0.77 (-0.86, -0.68)	-0.78 (-0.91, -0.65)	-0.55 (-0.73, -0.38)	-0.41 (-0.67, -0.16)	-0.11 (-0.33, 0.10)
	75-79 yr	-0.23 (-0.38, -0.08)	-0.33 (-0.42, -0.23)	-0.59 (-0.73, -0.45)	-0.40 (-0.59, -0.21)	-0.11 (-0.41, 0.20)	0.25 (-0.01, 0.51)
	80-84 yr	0.17 (-0.01, 0.35)	0.14 (-0.03, 0.25)	-0.23 (-0.39, -0.06)	-0.06 (-0.30, 0.18)	0.15 (-0.25, 0.55)	0.54 (-0.18, 0.91)
	85-89 yr	0.63 (-0.38, 0.88)	0.69 (-0.56, 0.83)	0.27 (-0.04, 0.50)	0.42 (-0.06, 0.78)	0.33 (-0.25, 0.91)	0.65 (-0.06, 1.24)
	90-94 yr	0.95 (-0.53, 1.36)	1.05 (-0.85, 1.24)	0.70 (-0.29, 1.11)	0.82 (-0.15, 1.49)	0.35 (-0.66, 1.36)	0.75 (-0.37, 1.89)
	95+ yr	1.12 (-0.26, 1.99)	1.09 (-0.72, 1.45)	1.17 (-0.21, 2.14)	1.02 (-0.65, 2.72)	0.19 (-2.01, 2.45)	1.02 (-1.65, 3.76)

PAH: pulmonary arterial hypertension; SDI: socio-demographic index; DALYs: disability-adjusted life years.

Table S10 The Wald χ^2 test for PAH prevalence, mortality and DALYs

Measure	Location	Wald χ^2	P value
Prevalence	Global	11.02	<0.01
	High SDI	0.62	0.43
	High-middle SDI	31.13	<0.01
	Middle SDI	19.51	<0.01
	Low-middle SDI	28.82	<0.01
	Low SDI	6.52	0.01
Deaths	Global	378.26	<0.01
	High SDI	97.04	<0.01
	High-middle SDI	224.45	<0.01
	Middle SDI	143.07	<0.01
	Low-middle SDI	40.25	<0.01
	Low SDI	10.59	<0.01
DALYs	Global	654.35	<0.01
	High SDI	1943.83	<0.01
	High-middle SDI	1981.04	<0.01
	Middle SDI	413.09	<0.01
	Low-middle SDI	117.08	<0.01
	Low SDI	92.56	<0.01

PAH: pulmonary arterial hypertension; DALYs: disability-adjusted life years; SDI: socio-demographic index.

Table S11 Changes in prevalence number according to population-level determinants from 1992 to 2021

Location	Overall difference	Change due to population-level determinants (% contribute to the total changes)		
		Aging	Population	Epidemiological change
Global	31965.91	9617.95 (30.09%)	21322.48 (66.70%)	1025.48 (3.21%)
Sex				
Male	81345.48	25549.51 (31.41%)	57155 (70.26%)	-1359.03 (-1.67%)
Female	49379.58	15629.3 (31.65%)	35958.33 (72.82%)	-2208.05 (-4.47%)
SDI				
High	13363.93	6336.89 (47.42%)	7536.76 (56.4%)	-509.72 (-3.81%)
High-middle	14693.07	7755.21 (52.78%)	7344.02 (49.98%)	-406.17 (-2.76%)
Middle	28805.79	10945.1 (38%)	15596.01 (54.14%)	2264.68 (7.86%)
Low-middle	16814.23	3508.29 (20.86%)	11754.77 (69.91%)	1551.17 (9.23%)
Low	7628.45	190.66 (2.5%)	8407.29 (110.21%)	-969.49 (-12.71%)
GBD Regions				
East Asia	18515.09	9706.26 (52.42%)	6569.81 (35.48%)	2239.03 (12.09%)
Australasia	468.45	149.72 (31.96%)	376.13 (80.29%)	-57.4 (-12.25%)
Oceania	103.46	12.16 (11.75%)	96.84 (93.61%)	-5.54 (-5.36%)
Southeast Asia	6753.89	2288.36 (33.88%)	4027.23 (59.63%)	438.3 (6.49%)
Tropical Latin America	3251.83	1193.04 (36.69%)	1731.16 (53.24%)	327.63 (10.08%)
High-income North America	2560.07	1120.85 (43.78%)	1983.04 (77.46%)	-543.83 (-21.24%)
Western Sub-Saharan Africa	5902.19	-186.45 (-3.16%)	5049.84 (85.56%)	1038.8 (17.6%)
Central Sub-Saharan Africa	655.77	4.12 (0.63%)	1215.12 (185.3%)	-563.46 (-85.92%)
Western Europe	7160.65	2968.18 (41.45%)	2570.64 (35.9%)	1621.84 (22.65%)
Eastern Europe	-274.02	1046.42 (-381.88%)	-581.35 (212.16%)	-739.08 (269.72%)
North Africa and Middle East	6203.47	1569.87 (25.31%)	4832.14 (77.89%)	-198.54 (-3.2%)
Andean Latin America	918.36	281.25 (30.63%)	695.2 (75.7%)	-58.09 (-6.33%)
Caribbean	403.65	188.37 (46.67%)	305.56 (75.7%)	-90.29 (-22.37%)
Central Europe	232.61	577.66 (248.34%)	-210.93 (-90.68%)	-134.12 (-57.66%)
Central Latin America	4801.19	1563.1 (32.56%)	2509.67 (52.27%)	728.41 (15.17%)
Eastern Sub-Saharan Africa	2729.04	130.29 (4.77%)	3432.91 (125.79%)	-834.16 (-30.57%)
Southern Latin America	883.65	255.39 (28.9%)	570.63 (64.58%)	57.63 (6.52%)
High-income Asia Pacific	2595.87	2536.6 (97.72%)	596.56 (22.98%)	-537.29 (-20.7%)
Southern Sub-Saharan Africa	738.63	185.1 (25.06%)	490.96 (66.47%)	62.57 (8.47%)
Central Asia	724.2	214.99 (29.69%)	583.31 (80.55%)	-74.1 (-10.23%)
South Asia	16017.45	3568.25 (22.28%)	10931.23 (68.25%)	1517.97 (9.48%)

SDI: socio-demographic index; GBD: global burden of disease.

Table S12 Changes in mortality number according to population-level determinants from 1992 to 2021

Location	Overall difference	Change due to population-level determinants (% contribute to the total changes)		
		Aging	Population	Epidemiological change
Global	8269.72	5203.55 (62.92%)	6073.77 (73.45%)	-3007.6 (-36.37%)
Sex				
Male	3323.09	2537.83 (76.37%)	2675.96 (80.53%)	-1890.7 (-56.90%)
Female	4946.63	2691.57 (54.41%)	3407 (68.88%)	-1151.93 (-23.29%)
SDI				
High	1634.5	1263.65 (77.31%)	719.68 (44.03%)	-348.83 (-21.34%)
High-middle	1305.45	1560.8 (119.56%)	737.11 (56.46%)	-992.46 (-76.02%)
Middle	3309.07	2962.28 (89.52%)	1984.84 (59.98%)	-1638.05 (-49.5%)
Low-middle	1398.96	591.87 (42.31%)	1219.57 (87.18%)	-412.48 (-29.48%)
Low	619.66	12.33 (1.99%)	764.09 (123.31%)	-156.75 (-25.3%)
GBD Regions				
High-income Asia Pacific	26.85	22.97 (85.53%)	34.23 (127.49%)	-30.35 (-113.02%)
High-income North America	9.68	16.69 (172.36%)	20.76 (214.38%)	-27.76 (-286.74%)
Western Europe	-10.76	17.71 (-164.63%)	23.06 (-214.31%)	-51.53 (478.94%)
Australasia	97.55	22.51 (23.07%)	84.64 (86.76%)	-9.59 (-9.83%)
Andean Latin America	75.01	163.69 (218.23%)	-24.61 (-32.81%)	-64.07 (-85.42%)
Tropical Latin America	55.25	77.65 (140.55%)	72.05 (130.42%)	-94.45 (-170.96%)
Central Latin America	55.35	-1.63 (-2.95%)	69.89 (126.25%)	-12.9 (-23.3%)
Southern Latin America	3630	4270.16 (117.64%)	1121.65 (30.9%)	-1761.8 (-48.53%)
Caribbean	-306.36	113.5 (-37.05%)	-32.37 (10.57%)	-387.49 (126.48%)
Central Europe	131.28	4.46 (3.4%)	245.61 (187.09%)	-118.79 (-90.48%)
Eastern Europe	472.48	408.51 (86.46%)	48.63 (10.29%)	15.34 (3.25%)
Central Asia	673.24	368.55 (54.74%)	359.21 (53.36%)	-54.52 (-8.1%)
North Africa and Middle East	579.59	300 (51.76%)	762.02 (131.48%)	-482.43 (-83.24%)
South Asia	9.00	1.44 (16.03%)	8.7 (96.68%)	-1.14 (-12.71%)
Southeast Asia	1552.35	728.61 (46.94%)	1209.92 (77.94%)	-386.18 (-24.88%)
East Asia	273.19	163.04 (59.68%)	218.28 (79.9%)	-108.14 (-39.58%)
Oceania	1.79	31.88 (1785.2%)	48.15 (2696.38%)	-78.25 (-4381.58%)
Western Sub-Saharan Africa	28.62	9.04 (31.57%)	21.97 (76.74%)	-2.38 (-8.31%)
Eastern Sub-Saharan Africa	370.64	249.36 (67.28%)	210.36 (56.76%)	-89.08 (-24.03%)
Central Sub-Saharan Africa	427.46	503.69 (117.83%)	183.98 (43.04%)	-260.21 (-60.87%)
Southern Sub-Saharan Africa	117.49	-23.45 (-19.96%)	253.27 (215.57%)	-112.33 (-95.61%)

SDI: socio-demographic index; GBD: global burden of disease.

Table S13 Changes in DALYs number according to population-level determinants from 1992 to 2021

Location	Overall difference	Change due to population-level determinants (% contribute to the total changes)		
		Aging	Population	Epidemiological change
Global	133520.46	81244.59 (60.85%)	174810.35 (130.92%)	-122534.48 (-91.77%)
Sex				
Female	47616.22	40429.32 (84.91%)	78244.77 (164.32%)	-71057.87 (-149.23%)
Male	85904.23	41120 (47.87%)	96771.16 (112.65%)	-51986.92 (-60.52%)
SDI				
High	15914.25	16617.31 (104.42%)	16886.99 (106.11%)	-17590.05 (-110.53%)
High-middle	5866.2	23563.16 (401.68%)	19068.09 (325.05%)	-36765.05 (-626.73%)
Middle	49464.63	49116.81 (99.3%)	55511.72 (112.23%)	-55163.89 (-111.52%)
Low-middle	37922.77	11576.98 (30.53%)	43743.34 (115.35%)	-17397.56 (-45.88%)
Low	24340.01	285.94 (1.17%)	31460.01 (129.25%)	-7405.94 (-30.43%)
GBD Regions				
High-income Asia Pacific	499.38	375.96 (75.29%)	1119.37 (224.15%)	-995.96 (-199.44%)
High-income North America	39.78	222.45 (559.24%)	563.86 (1417.54%)	-746.54 (-1876.78%)
Western Europe	-490.25	279.53 (-57.02%)	880 (-179.5%)	-1649.78 (336.52%)
Australasia	2331.93	548.79 (23.53%)	3207.93 (137.57%)	-1424.79 (-61.1%)
Andean Latin America	-347.93	2545.02 (-731.48%)	-651.53 (187.26%)	-2241.41 (644.22%)
Tropical Latin America	1243.56	1473.06 (118.45%)	2450.26 (197.04%)	-2679.76 (-215.49%)
Central Latin America	2253.87	-22.4 (-0.99%)	2915.67 (129.36%)	-639.41 (-28.37%)
Southern Latin America	45277.02	66094.37 (145.98%)	25707.88 (56.78%)	-46525.23 (-102.76%)
Caribbean	-11049.61	1510.35 (-13.67%)	-1004.01 (9.09%)	-11555.94 (104.58%)
Central Europe	6495.74	174.84 (2.69%)	11823.23 (182.02%)	-5502.33 (-84.71%)
Eastern Europe	2326.66	4221.53 (181.44%)	1239.06 (53.26%)	-3133.93 (-134.7%)
Central Asia	9717.68	5621.47 (57.85%)	8059.3 (82.93%)	-3963.09 (-40.78%)
North Africa and Middle East	10665.24	4304.85 (40.36%)	28607.27 (268.23%)	-22246.88 (-208.59%)
South Asia	409.55	34.82 (8.5%)	377.86 (92.26%)	-3.12 (-0.76%)
Southeast Asia	40513.24	14622.63 (36.09%)	40658.68 (100.36%)	-14768.07 (-36.45%)
East Asia	8088.76	3543.93 (43.81%)	8786.18 (108.62%)	-4241.35 (-52.44%)
Oceania	-700.1	533 (-76.13%)	1613.46 (-230.46%)	-2846.56 (406.6%)
Western Sub-Saharan Africa	1098.15	226.88 (20.66%)	954.31 (86.9%)	-83.04 (-7.56%)
Eastern Sub-Saharan Africa	7887.43	4666.75 (59.17%)	6921.67 (87.76%)	-3700.99 (-46.92%)
Central Sub-Saharan Africa	786.48	6084.35 (773.61%)	4073.76 (517.97%)	-9371.63 (-1191.59%)
Southern Sub-Saharan Africa	6473.86	-397.04 (-6.13%)	10813.42 (167.03%)	-3942.52 (-60.9%)

DALYs: disability-adjusted life years; SDI: socio-demographic index; GBD: global burden of disease.

Table S14 Frontier of PAH-related prevalence and effective difference by countries or territories

Countries/territories	SDI	ASPR (95% UI)	Frontier ASPR	Effective difference	Effective difference rank
Afghanistan	0.34	1.46 (1.18, 1.78)	1.34	0.12	3 (3)
Albania	0.71	2.68 (2.2, 3.28)	1.24	1.44	153 (153)
Algeria	0.66	1.86 (1.49, 2.31)	1.24	0.61	47 (46)
American Samoa	0.72	2.01 (1.62, 2.46)	1.24	0.77	72 (69)
Andorra	0.87	3.66 (2.98, 4.47)	1.24	2.42	190 (190)
Angola	0.45	1.61 (1.31, 1.97)	1.25	0.36	12 (10)
Antigua and Barbuda	0.75	2.74 (2.24, 3.39)	1.24	1.5	156 (156)
Argentina	0.72	2.65 (2.14, 3.29)	1.25	1.4	149 (149)
Armenia	0.70	2.77 (2.27, 3.4)	1.25	1.52	157 (158)
Australia	0.84	2.87 (2.33, 3.49)	1.24	1.63	161 (161)
Austria	0.85	3.57 (2.91, 4.41)	1.24	2.33	186 (185)
Azerbaijan	0.69	2.67 (2.19, 3.25)	1.24	1.43	152 (152)
Bahamas	0.81	2.14 (1.73, 2.62)	1.24	0.9	98 (95)
Bahrain	0.75	1.83 (1.48, 2.25)	1.24	0.58	41 (39)
Bangladesh	0.49	1.81 (1.46, 2.23)	1.24	0.57	40 (38)
Barbados	0.75	2.47 (1.99, 3.03)	1.25	1.22	130 (130)
Belarus	0.78	3.1 (2.53, 3.78)	1.24	1.85	174 (174)
Belgium	0.85	4.22 (3.48, 5.21)	1.24	2.98	199 (199)
Belize	0.61	2.18 (1.76, 2.65)	1.24	0.94	104 (103)
Benin	0.37	2.54 (2.05, 3.1)	1.25	1.29	134 (135)
Bermuda	0.82	2.73 (2.22, 3.32)	1.24	1.49	155 (155)
Bhutan	0.47	1.64 (1.33, 2.02)	1.24	0.4	16 (13)
Bolivia (Plurinational State of)	0.60	2.45 (1.98, 3)	1.24	1.21	129 (129)
Bosnia and Herzegovina	0.72	2.8 (2.31, 3.41)	1.24	1.56	159 (159)
Botswana	0.64	1.95 (1.57, 2.4)	1.24	0.7	61 (60)
Brazil	0.65	2.48 (2.01, 3.04)	1.24	1.24	131 (131)
Brunei Darussalam	0.81	2.02 (1.62, 2.49)	1.24	0.78	75 (71)
Bulgaria	0.77	1.93 (1.57, 2.36)	1.25	0.68	56 (56)
Burkina Faso	0.29	2.1 (1.71, 2.57)	1.34	0.76	71 (84)
Burundi	0.29	1.7 (1.36, 2.08)	1.34	0.36	13 (22)
Cabo Verde	0.53	2.61 (2.11, 3.17)	1.25	1.36	143 (143)
Cambodia	0.47	1.6 (1.29, 1.94)	1.25	0.35	9 (8)
Cameroon	0.48	2.35 (1.9, 2.89)	1.24	1.1	121 (121)
Canada	0.87	1.77 (1.43, 2.17)	1.24	0.53	35 (32)
Central African Republic	0.31	1.67 (1.35, 2.03)	1.34	0.34	7 (16)
Chad	0.24	2.13 (1.71, 2.63)	1.37	0.76	70 (92)
Chile	0.77	3.3 (2.69, 4.03)	1.24	2.06	181 (181)
China	0.72	2.24 (1.81, 2.75)	1.26	0.98	109 (109)
Colombia	0.66	3.38 (2.76, 4.15)	1.26	2.13	182 (182)
Comoros	0.48	1.7 (1.37, 2.09)	1.25	0.46	27 (24)
Congo	0.58	2.13 (1.72, 2.62)	1.25	0.88	93 (94)
Cook Islands	0.78	2.17 (1.77, 2.68)	1.24	0.93	102 (101)
Costa Rica	0.70	3.58 (2.9, 4.38)	1.25	2.33	185 (186)
Coted'Ivoire	0.43	2.01 (1.64, 2.45)	1.25	0.76	69 (68)
Croatia	0.80	2.6 (2.13, 3.13)	1.24	1.36	142 (141)
Cuba	0.67	2.55 (2.06, 3.14)	1.25	1.3	136 (137)
Cyprus	0.84	4.24 (3.49, 5.13)	1.24	3	200 (200)
Czechia	0.83	2.62 (2.16, 3.16)	1.24	1.38	147 (147)
Democratic People's Republic of Korea	0.57	1.93 (1.56, 2.37)	1.24	0.69	59 (58)
Democratic Republic of the Congo	0.38	1.93 (1.55, 2.33)	1.24	0.69	58 (57)
Denmark	0.90	4.03 (3.31, 4.97)	1.24	2.79	197 (197)
Djibouti	0.49	1.92 (1.57, 2.35)	1.24	0.68	57 (55)
Dominica	0.75	2.23 (1.8, 2.72)	1.24	0.99	110 (108)
Dominican Republic	0.62	2.66 (2.14, 3.25)	1.24	1.42	150 (150)
Ecuador	0.66	2.97 (2.41, 3.63)	1.24	1.73	170 (170)
Egypt	0.61	1.74 (1.41, 2.14)	1.25	0.49	30 (30)
El Salvador	0.56	3.62 (2.95, 4.48)	1.24	2.37	188 (188)
Equatorial Guinea	0.66	1.86 (1.49, 2.3)	1.24	0.62	48 (47)
Eritrea	0.40	1.77 (1.42, 2.15)	1.24	0.52	34 (33)
Estonia	0.84	3.08 (2.53, 3.73)	1.24	1.84	172 (172)
Eswatini	0.59	1.74 (1.38, 2.12)	1.24	0.5	32 (31)
Ethiopia	0.36	2.53 (2.06, 3.09)	1.24	1.29	135 (134)
Fiji	0.68	1.94 (1.58, 2.37)	1.24	0.7	60 (59)
Finland	0.86	3.79 (3.1, 4.61)	1.24	2.55	193 (193)
France	0.84	4.07 (3.34, 4.98)	1.24	2.82	198 (198)
Gabon	0.63	2.05 (1.66, 2.51)	1.26	0.8	78 (75)
Gambia	0.41	2.03 (1.65, 2.5)	1.25	0.78	76 (73)
Georgia	0.73	2.59 (2.12, 3.14)	1.24	1.35	140 (139)
Germany	0.90	3.59 (2.93, 4.36)	1.24	2.35	187 (187)
Ghana	0.56	3.26 (2.65, 4)	1.25	2.01	180 (180)
Greece	0.79	2.88 (2.36, 3.53)	1.24	1.64	162 (162)
Greenland	0.83	1.32 (1.06, 1.62)	1.24	0.08	2 (1)
Grenada	0.67	2.06 (1.67, 2.53)	1.24	0.82	80 (77)
Guam	0.80	2.06 (1.69, 2.51)	1.24	0.82	81 (78)
Guatemala	0.54	2.94 (2.37, 3.61)	1.24	1.7	168 (168)
Guinea	0.34	2.25 (1.83, 2.71)	1.28	0.97	108 (112)
Guinea-Bissau	0.35	2.07 (1.68, 2.53)	1.24	0.83	83 (79)

Table S14 (continued)

Table S14 (continued)

Countries/territories	SDI	ASPR (95% UI)	Frontier ASPR	Effective difference	Effective difference rank
Guyana	0.65	1.97 (1.6, 2.39)	1.24	0.73	66 (65)
Haiti	0.45	1.85 (1.48, 2.27)	1.25	0.6	42 (41)
Honduras	0.51	2.96 (2.4, 3.65)	1.24	1.72	169 (169)
Hungary	0.79	3.02 (2.48, 3.65)	1.24	1.78	171 (171)
Iceland	0.88	3.2 (2.61, 3.93)	1.24	1.96	177 (177)
India	0.58	1.74 (1.41, 2.12)	1.24	0.5	31 (29)
Indonesia	0.66	1.73 (1.41, 2.12)	1.25	0.48	29 (28)
Iran (Islamic Republic of)	0.70	2.13 (1.73, 2.62)	1.24	0.89	96 (93)
Iraq	0.66	1.87 (1.52, 2.31)	1.24	0.63	51 (50)
Ireland	0.87	1.89 (1.54, 2.34)	1.24	0.65	53 (53)
Israel	0.81	4.39 (3.61, 5.32)	1.24	3.15	201 (201)
Italy	0.81	3.95 (3.22, 4.82)	1.24	2.71	195 (195)
Jamaica	0.68	2.62 (2.12, 3.23)	1.24	1.37	144 (144)
Japan	0.87	3.09 (2.54, 3.79)	1.24	1.85	173 (173)
Jordan	0.73	2.25 (1.82, 2.78)	1.24	1.01	113 (113)
Kazakhstan	0.73	2.33 (1.9, 2.83)	1.24	1.09	120 (119)
Kenya	0.52	2.59 (2.1, 3.15)	1.24	1.35	139 (140)
Kiribati	0.53	1.66 (1.33, 2.04)	1.25	0.42	19 (14)
Kuwait	0.85	2.17 (1.75, 2.64)	1.24	0.93	103 (100)
Kyrgyzstan	0.60	2.72 (2.22, 3.33)	1.24	1.48	154 (154)
Lao People's Democratic Republic	0.49	2.02 (1.64, 2.44)	1.24	0.77	74 (72)
Latvia	0.83	3.18 (2.62, 3.86)	1.24	1.94	175 (175)
Lebanon	0.74	2.08 (1.68, 2.58)	1.24	0.84	85 (80)
Lesotho	0.51	1.7 (1.38, 2.07)	1.25	0.45	26 (23)
Liberia	0.35	2.21 (1.79, 2.73)	1.29	0.91	101 (107)
Libya	0.73	2.11 (1.7, 2.58)	1.24	0.87	91 (87)
Lithuania	0.86	2.94 (2.42, 3.55)	1.24	1.7	167 (166)
Luxembourg	0.88	3.45 (2.81, 4.21)	1.24	2.21	183 (183)
Madagascar	0.40	1.96 (1.58, 2.39)	1.24	0.71	64 (62)
Malawi	0.38	1.6 (1.29, 1.95)	1.25	0.35	10 (9)
Malaysia	0.74	1.85 (1.5, 2.26)	1.24	0.61	45 (44)
Maldives	0.65	2.06 (1.67, 2.55)	1.24	0.82	79 (76)
Mali	0.27	2.17 (1.75, 2.65)	1.35	0.82	82 (102)
Malta	0.80	3.74 (3.06, 4.59)	1.24	2.5	192 (192)
Marshall Islands	0.57	1.62 (1.31, 1.95)	1.25	0.37	14 (11)
Mauritania	0.50	2.45 (1.98, 3.02)	1.26	1.19	126 (128)
Mauritius	0.72	3.24 (2.65, 3.96)	1.24	2	179 (179)
Mexico	0.66	3.22 (2.63, 3.95)	1.24	1.98	178 (178)
Micronesia (Federated States of)	0.59	1.68 (1.37, 2.03)	1.24	0.44	22 (18)
Monaco	0.91	3.66 (3, 4.47)	1.24	2.42	191 (191)
Mongolia	0.62	2.09 (1.69, 2.55)	1.24	0.85	88 (83)
Montenegro	0.80	2.39 (1.96, 2.9)	1.24	1.14	124 (124)
Morocco	0.56	1.81 (1.46, 2.22)	1.24	0.57	38 (36)
Mozambique	0.33	1.73 (1.4, 2.13)	1.33	0.4	17 (27)
Myanmar	0.53	1.58 (1.27, 1.93)	1.25	0.33	6 (5)
Namibia	0.62	2.67 (2.18, 3.22)	1.24	1.43	151 (151)
Nauru	0.63	1.63 (1.32, 1.98)	1.24	0.39	15 (12)
Nepal	0.43	1.59 (1.29, 1.94)	1.25	0.34	8 (6)
Netherlands	0.89	4.66 (3.79, 5.76)	1.24	3.42	202 (202)
New Zealand	0.85	2.62 (2.11, 3.21)	1.24	1.38	146 (146)
Nicaragua	0.52	2.94 (2.38, 3.58)	1.25	1.7	166 (167)
Niger	0.17	2.16 (1.74, 2.65)	1.76	0.4	18 (99)
Nigeria	0.50	3.66 (2.95, 4.5)	1.24	2.42	189 (189)
Niue	0.73	1.99 (1.62, 2.44)	1.24	0.75	67 (66)
North Macedonia	0.75	2.33 (1.9, 2.84)	1.24	1.09	118 (118)
Northern Mariana Islands	0.77	2.11 (1.72, 2.56)	1.24	0.87	90 (88)
Norway	0.92	4 (3.29, 4.91)	1.24	2.76	196 (196)
Oman	0.77	2.02 (1.64, 2.47)	1.24	0.77	73 (70)
Pakistan	0.50	1.38 (1.11, 1.7)	1.24	0.14	4 (2)
Palau	0.75	1.84 (1.5, 2.24)	1.24	0.6	43 (40)
Palestine	0.63	1.87 (1.52, 2.28)	1.25	0.63	49 (49)
Panama	0.71	3.47 (2.8, 4.27)	1.24	2.22	184 (184)
Papua New Guinea	0.42	1.78 (1.43, 2.16)	1.24	0.54	36 (34)
Paraguay	0.64	2.4 (1.95, 2.93)	1.24	1.16	125 (125)
Peru	0.66	2.77 (2.23, 3.39)	1.24	1.53	158 (157)
Philippines	0.65	2.2 (1.79, 2.68)	1.24	0.95	107 (106)
Poland	0.81	2.19 (1.8, 2.65)	1.24	0.94	106 (105)
Portugal	0.74	2.13 (1.74, 2.62)	1.24	0.89	95 (91)
Puerto Rico	0.83	2.62 (2.1, 3.18)	1.24	1.38	145 (145)
Qatar	0.85	1.89 (1.54, 2.3)	1.24	0.65	52 (51)
Republic of Korea	0.89	2.91 (2.39, 3.58)	1.24	1.67	164 (164)
Republic of Moldova	0.73	2.93 (2.39, 3.56)	1.25	1.69	165 (165)
Romania	0.77	1.89 (1.54, 2.31)	1.24	0.65	54 (52)
Russian Federation	0.81	2.9 (2.38, 3.51)	1.24	1.65	163 (163)
Rwanda	0.44	1.69 (1.36, 2.11)	1.25	0.44	24 (21)
Saint Kitts and Nevis	0.75	1.97 (1.6, 2.41)	1.24	0.73	65 (64)

Table S14 (continued)

Table S14 (continued)

Countries/territories	SDI	ASPR (95% UI)	Frontier ASPR	Effective difference	Effective difference rank
Saint Lucia	0.67	2.33 (1.88, 2.87)	1.24	1.09	119 (120)
Saint Vincent and the Grenadines	0.64	2.15 (1.74, 2.66)	1.26	0.9	97 (98)
Samoa	0.59	2.11 (1.71, 2.56)	1.26	0.85	86 (86)
San Marino	0.89	3.85 (3.14, 4.7)	1.25	2.61	194 (194)
Sao Tome and Principe	0.51	2.44 (1.98, 3.01)	1.24	1.2	128 (127)
Saudi Arabia	0.82	1.91 (1.55, 2.32)	1.24	0.67	55 (54)
Senegal	0.41	2.37 (1.92, 2.9)	1.24	1.13	122 (122)
Serbia	0.79	2.09 (1.7, 2.55)	1.24	0.85	87 (82)
Seychelles	0.73	1.85 (1.5, 2.25)	1.24	0.61	44 (43)
Sierra Leone	0.36	2.18 (1.76, 2.71)	1.24	0.94	105 (104)
Singapore	0.86	2.24 (1.83, 2.77)	1.24	1	111 (110)
Slovakia	0.81	2.63 (2.15, 3.23)	1.25	1.39	148 (148)
Slovenia	0.84	2.58 (2.12, 3.14)	1.24	1.34	138 (138)
Solomon Islands	0.43	1.68 (1.35, 2.03)	1.24	0.44	21 (17)
Somalia	0.08	1.73 (1.39, 2.12)	1.73	0	1 (26)
South Africa	0.68	2.38 (1.93, 2.88)	1.24	1.13	123 (123)
South Sudan	0.28	1.85 (1.49, 2.26)	1.35	0.5	33 (42)
Spain	0.77	2.82 (2.27, 3.46)	1.24	1.58	160 (160)
Sri Lanka	0.70	2.54 (2.05, 3.09)	1.24	1.3	137 (136)
Sudan	0.54	1.68 (1.37, 2.05)	1.24	0.44	23 (19)
Suriname	0.63	2.51 (2.05, 3.1)	1.25	1.27	132 (132)
Sweden	0.89	6.3 (5.19, 7.7)	1.24	5.06	203 (203)
Switzerland	0.93	7.09 (5.8, 8.66)	1.24	5.85	204 (204)
Syrian Arab Republic	0.62	1.96 (1.6, 2.41)	1.25	0.71	63 (63)
Taiwan (Province of China)	0.87	2.26 (1.83, 2.77)	1.24	1.02	114 (114)
Tajikistan	0.54	2.27 (1.84, 2.77)	1.24	1.03	116 (116)
Thailand	0.68	2.08 (1.68, 2.55)	1.25	0.83	84 (81)
Timor-Leste	0.44	1.81 (1.47, 2.21)	1.24	0.57	39 (37)
Togo	0.41	2.05 (1.66, 2.51)	1.25	0.79	77 (74)
Tokelau	0.69	1.95 (1.58, 2.39)	1.25	0.7	62 (61)
Tonga	0.63	2.13 (1.72, 2.61)	1.24	0.88	94 (90)
Trinidad and Tobago	0.77	2.27 (1.83, 2.79)	1.24	1.03	115 (115)
Tunisia	0.68	2.32 (1.88, 2.86)	1.24	1.08	117 (117)
Turkey	0.71	2.6 (2.1, 3.23)	1.24	1.36	141 (142)
Turkmenistan	0.68	2.15 (1.76, 2.64)	1.24	0.91	100 (97)
Tuvalu	0.58	1.69 (1.36, 2.09)	1.25	0.44	25 (20)
Uganda	0.42	2 (1.6, 2.41)	1.25	0.75	68 (67)
Ukraine	0.76	2.52 (2.06, 3.07)	1.25	1.27	133 (133)
United Arab Emirates	0.85	1.67 (1.36, 2.04)	1.24	0.43	20 (15)
United Kingdom	0.86	2.13 (1.73, 2.62)	1.25	0.88	92 (89)
United Republic of Tanzania	0.45	1.79 (1.44, 2.17)	1.24	0.54	37 (35)
United States Virgin Islands	0.82	2.44 (1.97, 2.95)	1.24	1.2	127 (126)
United States of America	0.86	1.72 (1.39, 2.12)	1.24	0.48	28 (25)
Uruguay	0.72	2.25 (1.83, 2.76)	1.25	1	112 (111)
Uzbekistan	0.66	2.1 (1.72, 2.55)	1.24	0.86	89 (85)
Vanuatu	0.47	1.56 (1.27, 1.88)	1.25	0.31	5 (4)
Venezuela (Bolivarian Republic of)	0.60	3.2 (2.6, 3.95)	1.24	1.95	176 (176)
Viet Nam	0.63	1.87 (1.51, 2.3)	1.24	0.63	50 (48)
Yemen	0.45	2.15 (1.73, 2.64)	1.24	0.91	99 (96)
Zambia	0.51	1.6 (1.29, 1.96)	1.24	0.35	11 (7)
Zimbabwe	0.47	1.85 (1.5, 2.29)	1.24	0.61	46 (45)

PAH: pulmonary arterial hypertension; SDI: socio-demographic index; ASPR: age-standardized prevalence rate.

Table S15 Frontier of PAH-related mortality and effective difference by countries or territories

Countries/territories	SDI	ASDR (95% UI)	Frontier ASDR	Effective difference	Effective difference rank
Afghanistan	0.34	0.67 (0.24, 1.1)	0.15	0.51	196 (199)
Albania	0.71	0.28 (0.19, 0.48)	0	0.28	168 (163)
Algeria	0.66	0.4 (0.13, 0.61)	0	0.4	188 (185)
American Samoa	0.72	0.13 (0.07, 0.28)	0	0.12	110 (66)
Andorra	0.87	0.11 (0.07, 0.17)	0	0.11	100 (55)
Angola	0.45	0.19 (0.09, 0.36)	0.12	0.07	58 (122)
Antigua and Barbuda	0.75	0.04 (0.04, 0.04)	0	0.04	18 (5)
Argentina	0.72	0.2 (0.19, 0.22)	0	0.2	152 (129)
Armenia	0.70	0.08 (0.06, 0.09)	0	0.08	63 (33)
Australia	0.84	0.12 (0.1, 0.13)	0	0.11	102 (57)
Austria	0.85	0.13 (0.12, 0.14)	0	0.13	113 (73)
Azerbaijan	0.69	0.57 (0.36, 0.85)	0	0.57	198 (197)
Bahamas	0.81	0.4 (0.32, 0.5)	0	0.4	189 (186)
Bahrain	0.75	0.16 (0.07, 0.31)	0	0.16	132 (102)
Bangladesh	0.49	0.3 (0.14, 0.57)	0.07	0.23	159 (166)
Barbados	0.75	0.36 (0.29, 0.45)	0	0.36	178 (178)
Belarus	0.78	0.04 (0.03, 0.05)	0	0.04	19 (6)
Belgium	0.85	0.18 (0.16, 0.2)	0	0.18	140 (117)
Belize	0.61	0.15 (0.13, 0.16)	0.03	0.11	104 (90)
Benin	0.37	0.15 (0.06, 0.27)	0.13	0.02	9 (95)
Bermuda	0.82	0.57 (0.48, 0.69)	0	0.57	197 (196)
Bhutan	0.47	0.31 (0.15, 0.52)	0.08	0.22	158 (167)
Bolivia (Plurinational State of)	0.60	0.24 (0.17, 0.34)	0.04	0.19	149 (148)
Bosnia and Herzegovina	0.72	0.21 (0.15, 0.27)	0	0.21	155 (134)
Botswana	0.64	0.1 (0.07, 0.14)	0	0.1	95 (49)
Brazil	0.65	0.33 (0.3, 0.34)	0	0.32	176 (174)
Brunei Darussalam	0.81	0.27 (0.2, 0.34)	0	0.27	167 (162)
Bulgaria	0.77	0.09 (0.07, 0.12)	0	0.09	80 (40)
Burkina Faso	0.29	0.27 (0.09, 0.52)	0.17	0.1	85 (159)
Burundi	0.29	0.21 (0.07, 0.44)	0.18	0.03	12 (131)
Cabo Verde	0.53	0.13 (0.05, 0.24)	0.05	0.08	65 (67)
Cambodia	0.47	0.13 (0.07, 0.35)	0.08	0.05	23 (69)
Cameroon	0.48	0.17 (0.08, 0.31)	0.08	0.08	73 (107)
Canada	0.87	0.14 (0.13, 0.15)	0	0.14	122 (85)
Central African Republic	0.31	0.25 (0.1, 0.45)	0.16	0.08	72 (154)
Chad	0.24	0.24 (0.08, 0.47)	0.2	0.05	25 (153)
Chile	0.77	0.14 (0.13, 0.16)	0	0.14	124 (87)
China	0.72	0.42 (0.28, 0.51)	0	0.41	190 (187)
Colombia	0.66	0.1 (0.08, 0.12)	0	0.09	84 (44)
Comoros	0.48	0.15 (0.07, 0.3)	0.08	0.07	51 (96)
Congo	0.58	0.15 (0.08, 0.29)	0.05	0.1	86 (88)
Cook Islands	0.78	0.14 (0.08, 0.33)	0	0.13	118 (79)
Costa Rica	0.70	0.1 (0.09, 0.12)	0	0.1	96 (51)
Coted'Ivoire	0.43	0.18 (0.07, 0.32)	0.12	0.06	40 (112)
Croatia	0.80	0.05 (0.04, 0.05)	0	0.04	20 (8)
Cuba	0.67	0.05 (0.04, 0.06)	0	0.05	24 (11)
Cyprus	0.84	0.8 (0.38, 1.02)	0	0.8	202 (201)
Czechia	0.83	0.43 (0.36, 0.49)	0	0.42	192 (190)
Democratic People's Republic of Korea	0.57	0.35 (0.24, 0.58)	0.05	0.3	171 (175)
Democratic Republic of the Congo	0.38	0.19 (0.07, 0.39)	0.13	0.06	45 (125)
Denmark	0.90	0.18 (0.15, 0.19)	0	0.17	135 (109)
Djibouti	0.49	0.15 (0.07, 0.29)	0.08	0.08	67 (100)
Dominica	0.75	0.09 (0.07, 0.23)	0	0.09	83 (43)
Dominican Republic	0.62	0.08 (0.06, 0.23)	0	0.08	68 (35)
Ecuador	0.66	0.18 (0.15, 0.21)	0	0.17	136 (111)
Egypt	0.61	0.36 (0.28, 0.5)	0.04	0.32	173 (177)
El Salvador	0.56	0.12 (0.08, 0.24)	0.05	0.07	56 (60)
Equatorial Guinea	0.66	0.11 (0.06, 0.2)	0	0.11	98 (53)
Eritrea	0.40	0.21 (0.09, 0.43)	0.13	0.09	79 (135)
Estonia	0.84	0.04 (0.03, 0.04)	0	0.04	17 (4)
Eswatini	0.59	0.13 (0.09, 0.18)	0.05	0.09	76 (77)
Ethiopia	0.36	0.15 (0.05, 0.3)	0.14	0.01	8 (92)
Fiji	0.68	0.15 (0.08, 0.32)	0	0.15	129 (93)
Finland	0.86	0.06 (0.05, 0.07)	0	0.06	42 (22)
France	0.84	0.21 (0.19, 0.23)	0	0.21	154 (133)
Gabon	0.63	0.13 (0.07, 0.24)	0	0.13	115 (75)
Gambia	0.41	0.19 (0.07, 0.34)	0.13	0.06	44 (120)
Georgia	0.73	1.01 (0.79, 1.27)	0	1.01	203 (203)
Germany	0.90	0.26 (0.22, 0.28)	0	0.26	164 (156)
Ghana	0.56	0.13 (0.06, 0.23)	0.05	0.08	69 (72)
Greece	0.79	0.32 (0.29, 0.36)	0	0.32	175 (173)
Greenland	0.83	0.19 (0.15, 0.3)	0	0.19	147 (124)
Grenada	0.67	0.26 (0.22, 0.29)	0	0.26	165 (157)
Guam	0.80	0.06 (0.03, 0.12)	0	0.05	34 (17)
Guatemala	0.54	0.06 (0.05, 0.07)	0.05	0.01	7 (19)
Guinea	0.34	0.21 (0.08, 0.41)	0.15	0.06	38 (132)
Guinea-Bissau	0.35	0.23 (0.1, 0.42)	0.15	0.09	75 (142)

Table S15 (continued)

Table S15 (continued)

Countries/territories	SDI	ASDR (95% UI)	Frontier ASDR	Effective difference	Effective difference rank
Guyana	0.65	0.39 (0.3, 0.5)	0	0.39	187 (184)
Haiti	0.45	0.49 (0.28, 0.73)	0.11	0.38	185 (193)
Honduras	0.51	0.2 (0.12, 0.32)	0.06	0.14	123 (127)
Hungary	0.79	0.16 (0.13, 0.21)	0	0.16	134 (106)
Iceland	0.88	0.13 (0.11, 0.15)	0	0.13	111 (68)
India	0.58	0.24 (0.15, 0.39)	0.05	0.18	144 (146)
Indonesia	0.66	0.12 (0.07, 0.37)	0	0.12	105 (61)
Iran (Islamic Republic of)	0.70	0.61 (0.4, 0.7)	0	0.61	199 (198)
Iraq	0.66	0.15 (0.08, 0.38)	0	0.14	125 (89)
Ireland	0.87	0.11 (0.1, 0.12)	0	0.11	97 (52)
Israel	0.81	0.27 (0.23, 0.3)	0	0.27	166 (161)
Italy	0.81	0.09 (0.08, 0.1)	0	0.09	78 (39)
Jamaica	0.68	0.07 (0.05, 0.09)	0	0.07	52 (26)
Japan	0.87	0.29 (0.25, 0.32)	0	0.28	169 (164)
Jordan	0.73	0.06 (0.02, 0.2)	0	0.05	33 (16)
Kazakhstan	0.73	0.05 (0.04, 0.06)	0	0.05	22 (10)
Kenya	0.52	0.12 (0.05, 0.23)	0.05	0.06	46 (59)
Kiribati	0.53	0.25 (0.16, 0.57)	0.05	0.2	151 (155)
Kuwait	0.85	0.14 (0.12, 0.16)	0	0.14	121 (82)
Kyrgyzstan	0.60	0.05 (0.04, 0.06)	0.04	0.01	6 (12)
Lao People's Democratic Republic	0.49	0.15 (0.09, 0.36)	0.08	0.07	59 (98)
Latvia	0.83	0.1 (0.09, 0.12)	0	0.1	93 (47)
Lebanon	0.74	0.37 (0.28, 0.59)	0	0.37	182 (181)
Lesotho	0.51	0.14 (0.1, 0.2)	0.07	0.07	61 (86)
Liberia	0.35	0.19 (0.07, 0.36)	0.14	0.05	21 (121)
Libya	0.73	0.37 (0.17, 0.64)	0	0.37	181 (180)
Lithuania	0.86	0.08 (0.07, 0.09)	0	0.08	64 (32)
Luxembourg	0.88	0.21 (0.18, 0.23)	0	0.2	153 (130)
Madagascar	0.40	0.31 (0.15, 0.61)	0.13	0.18	141 (170)
Malawi	0.38	0.16 (0.07, 0.3)	0.13	0.03	13 (104)
Malaysia	0.74	0.07 (0.04, 0.26)	0	0.07	49 (25)
Maldives	0.65	0.19 (0.15, 0.3)	0	0.19	146 (123)
Mali	0.27	0.18 (0.06, 0.38)	0.18	0	4 (114)
Malta	0.80	0.08 (0.07, 0.1)	0	0.08	70 (36)
Marshall Islands	0.57	0.23 (0.14, 0.5)	0.05	0.19	145 (145)
Mauritania	0.50	0.14 (0.06, 0.28)	0.07	0.07	50 (84)
Mauritius	0.72	0.71 (0.63, 0.77)	0	0.71	200 (200)
Mexico	0.66	0.09 (0.08, 0.1)	0	0.08	71 (37)
Micronesia (Federated States of)	0.59	0.24 (0.15, 0.55)	0.05	0.19	150 (151)
Monaco	0.91	0.15 (0.1, 0.21)	0	0.15	127 (91)
Mongolia	0.62	1.59 (0.91, 2.05)	0.01	1.58	204 (204)
Montenegro	0.80	0.03 (0.02, 0.2)	0	0.03	14 (2)
Morocco	0.56	0.43 (0.15, 0.67)	0.05	0.38	186 (191)
Mozambique	0.33	0.24 (0.09, 0.46)	0.16	0.09	74 (150)
Myanmar	0.53	0.15 (0.1, 0.42)	0.05	0.1	92 (99)
Namibia	0.62	0.13 (0.09, 0.19)	0	0.13	117 (78)
Nauru	0.63	0.37 (0.24, 1)	0	0.36	179 (179)
Nepal	0.43	0.31 (0.15, 0.58)	0.12	0.19	148 (169)
Netherlands	0.89	0.14 (0.12, 0.15)	0	0.14	119 (80)
New Zealand	0.85	0.1 (0.09, 0.11)	0	0.1	88 (45)
Nicaragua	0.52	0.05 (0.03, 0.19)	0.05	0	2 (9)
Niger	0.17	0.23 (0.05, 0.52)	0.21	0.02	10 (141)
Nigeria	0.50	0.14 (0.07, 0.23)	0.07	0.07	57 (83)
Niue	0.73	0.23 (0.14, 0.52)	0	0.23	161 (144)
North Macedonia	0.75	0.12 (0.07, 0.23)	0	0.12	108 (64)
Northern Mariana Islands	0.77	0.11 (0.07, 0.28)	0	0.11	99 (54)
Norway	0.92	0.05 (0.05, 0.05)	0	0.05	26 (13)
Oman	0.77	0.11 (0.04, 0.24)	0	0.11	101 (56)
Pakistan	0.50	0.32 (0.18, 0.56)	0.07	0.25	163 (171)
Palau	0.75	0.13 (0.06, 0.3)	0	0.13	112 (70)
Palestine	0.63	0.13 (0.05, 0.41)	0	0.13	116 (76)
Panama	0.71	0.06 (0.05, 0.07)	0	0.06	36 (20)
Papua New Guinea	0.42	0.27 (0.17, 0.55)	0.12	0.15	128 (160)
Paraguay	0.64	0.07 (0.04, 0.22)	0	0.07	55 (29)
Peru	0.66	0.13 (0.09, 0.18)	0	0.12	109 (65)
Philippines	0.65	0.08 (0.05, 0.24)	0	0.07	60 (30)
Poland	0.81	0.12 (0.11, 0.13)	0	0.12	106 (62)
Portugal	0.74	0.22 (0.19, 0.24)	0	0.21	156 (136)
Puerto Rico	0.83	0.1 (0.08, 0.12)	0	0.1	89 (46)
Qatar	0.85	0.13 (0.07, 0.19)	0	0.13	114 (74)
Republic of Korea	0.89	0.06 (0.03, 0.17)	0	0.05	35 (18)
Republic of Moldova	0.73	0.01 (0.01, 0.01)	0	0	5 (1)
Romania	0.77	0.49 (0.42, 0.55)	0	0.48	194 (192)
Russian Federation	0.81	0.1 (0.1, 0.11)	0	0.1	94 (50)
Rwanda	0.44	0.17 (0.07, 0.37)	0.12	0.05	29 (108)
Saint Kitts and Nevis	0.75	0.07 (0.06, 0.09)	0	0.07	54 (28)

Table S15 (continued)

Table S15 (continued)

Countries/territories	SDI	ASDR (95% UI)	Frontier ASDR	Effective difference	Effective difference rank
Saint Lucia	0.67	0.24 (0.2, 0.29)	0	0.24	162 (149)
Saint Vincent and the Grenadines	0.64	0.06 (0.05, 0.07)	0	0.06	41 (21)
Samoa	0.59	0.2 (0.13, 0.47)	0.05	0.15	131 (128)
San Marino	0.89	0.05 (0.03, 0.12)	0	0.05	27 (14)
Sao Tome and Principe	0.51	0.13 (0.05, 0.24)	0.06	0.06	47 (71)
Saudi Arabia	0.82	0.08 (0.04, 0.2)	0	0.08	66 (34)
Senegal	0.41	0.18 (0.06, 0.33)	0.13	0.05	31 (113)
Serbia	0.79	0.09 (0.06, 0.19)	0	0.09	81 (41)
Seychelles	0.73	0.08 (0.04, 0.25)	0	0.07	62 (31)
Sierra Leone	0.36	0.2 (0.08, 0.34)	0.14	0.06	39 (126)
Singapore	0.86	0.09 (0.08, 0.1)	0	0.09	77 (38)
Slovakia	0.81	0.06 (0.04, 0.13)	0	0.06	43 (23)
Slovenia	0.84	0.04 (0.03, 0.04)	0	0.03	16 (3)
Solomon Islands	0.43	0.22 (0.13, 0.51)	0.12	0.1	90 (137)
Somalia	0.08	0.27 (0.06, 0.58)	0.27	0	2 (158)
South Africa	0.68	0.09 (0.07, 0.11)	0	0.09	82 (42)
South Sudan	0.28	0.24 (0.09, 0.44)	0.18	0.06	37 (147)
Spain	0.77	0.22 (0.19, 0.24)	0	0.22	157 (138)
Sri Lanka	0.70	0.42 (0.27, 0.6)	0	0.42	191 (189)
Sudan	0.54	0.42 (0.18, 0.61)	0.05	0.37	180 (188)
Suriname	0.63	0.32 (0.24, 0.47)	0	0.32	174 (172)
Sweden	0.89	0.12 (0.11, 0.14)	0	0.12	107 (63)
Switzerland	0.93	0.19 (0.16, 0.21)	0	0.18	142 (119)
Syrian Arab Republic	0.62	0.06 (0.03, 0.29)	0	0.05	32 (15)
Taiwan (Province of China)	0.87	0.18 (0.16, 0.2)	0	0.18	139 (116)
Tajikistan	0.54	0.81 (0.53, 1.09)	0.05	0.76	201 (202)
Thailand	0.68	0.07 (0.04, 0.28)	0	0.07	53 (27)
Timor-Leste	0.44	0.15 (0.08, 0.43)	0.12	0.03	15 (97)
Togo	0.41	0.18 (0.07, 0.31)	0.13	0.05	30 (110)
Tokelau	0.69	0.29 (0.18, 0.73)	0	0.29	170 (165)
Tonga	0.63	0.14 (0.09, 0.34)	0	0.14	120 (81)
Trinidad and Tobago	0.77	0.18 (0.14, 0.24)	0	0.18	143 (118)
Tunisia	0.68	0.36 (0.11, 0.6)	0	0.35	177 (176)
Turkey	0.71	0.5 (0.39, 0.69)	0	0.5	195 (194)
Turkmenistan	0.68	0.23 (0.17, 0.31)	0	0.23	160 (143)
Tuvalu	0.58	0.23 (0.15, 0.52)	0.05	0.18	138 (140)
Uganda	0.42	0.15 (0.07, 0.28)	0.12	0.03	11 (94)
Ukraine	0.76	0.07 (0.05, 0.09)	0	0.07	48 (24)
United Arab Emirates	0.85	0.38 (0.2, 0.53)	0	0.38	184 (183)
United Kingdom	0.86	0.1 (0.1, 0.11)	0	0.1	91 (48)
United Republic of Tanzania	0.45	0.16 (0.07, 0.31)	0.11	0.05	28 (105)
United States Virgin Islands	0.82	0.16 (0.11, 0.26)	0	0.16	133 (103)
United States of America	0.86	0.31 (0.27, 0.33)	0	0.31	172 (168)
Uruguay	0.72	0.16 (0.14, 0.17)	0	0.15	130 (101)
Uzbekistan	0.66	0.37 (0.3, 0.46)	0	0.37	183 (182)
Vanuatu	0.47	0.22 (0.14, 0.52)	0.08	0.14	126 (139)
Venezuela (Bolivarian Republic of)	0.60	0.04 (0.03, 0.06)	0.04	0	2 (7)
Viet Nam	0.63	0.12 (0.06, 0.4)	0	0.11	103 (58)
Yemen	0.45	0.55 (0.21, 0.9)	0.11	0.45	193 (195)
Zambia	0.51	0.24 (0.08, 0.49)	0.07	0.18	137 (152)
Zimbabwe	0.47	0.18 (0.12, 0.26)	0.08	0.1	87 (115)

PAH: pulmonary arterial hypertension; SDI: socio-demographic index; ASDR: age-standardized death rate.

Table S16 Frontier of PAH-related DALYs and effective difference by countries or territories

Countries/territories	SDI	Age standardized DALYs (95% UI)	Frontier DALYs	Effective difference	Effective difference rank
Afghanistan	0.34	25.28 (10.98, 39.03)	5.93	19.35	198 (200)
Albania	0.71	8.43 (5.32, 14.16)	0.38	8.05	166 (153)
Algeria	0.66	11.09 (4.89, 16.62)	0.4	10.68	176 (173)
American Samoa	0.72	4.15 (2.45, 8.06)	0.36	3.8	111 (67)
Andorra	0.87	3.55 (2.51, 4.9)	0.38	3.18	83 (48)
Angola	0.45	6.21 (3.27, 11.56)	4.03	2.18	53 (114)
Antigua and Barbuda	0.75	1.5 (1.37, 1.64)	0.36	1.14	17 (7)
Argentina	0.72	7.12 (6.62, 7.76)	0.4	6.72	157 (132)
Armenia	0.70	2.18 (1.82, 2.53)	0.37	1.8	35 (18)
Australia	0.84	3.69 (3.36, 4.03)	0.36	3.33	91 (52)
Austria	0.85	3.47 (3.21, 3.77)	0.37	3.09	81 (47)
Azerbaijan	0.69	17.64 (10.69, 27.74)	0.36	17.28	197 (196)
Bahamas	0.81	14.75 (11.7, 18.62)	0.36	14.39	187 (187)
Bahrain	0.75	4.52 (2.26, 8.02)	0.42	4.09	116 (77)
Bangladesh	0.49	8.66 (4.81, 13.69)	2.35	6.31	153 (157)
Barbados	0.75	11.88 (9.32, 15.07)	0.37	11.51	181 (179)
Belarus	0.78	1.63 (1.37, 1.89)	0.37	1.26	19 (9)
Belgium	0.85	5.18 (4.74, 5.6)	0.38	4.79	130 (91)
Belize	0.61	5.72 (5.03, 6.45)	1.47	4.25	121 (101)
Benin	0.37	5.73 (2.98, 9.04)	4.77	0.95	14 (102)
Bermuda	0.82	15.69 (13.06, 19.07)	0.37	15.32	191 (189)
Bhutan	0.47	9.27 (5.13, 14.22)	3.65	5.62	142 (165)
Bolivia (Plurinational State of)	0.60	9.02 (6.57, 12.82)	1.76	7.26	160 (162)
Bosnia and Herzegovina	0.72	5.91 (4.25, 7.68)	0.39	5.52	141 (105)
Botswana	0.64	4.04 (2.86, 5.3)	0.46	3.58	102 (63)
Brazil	0.65	10.45 (9.88, 11.02)	0.36	10.09	174 (170)
Brunei Darussalam	0.81	11.44 (7.2, 14.88)	0.36	11.09	180 (178)
Bulgaria	0.77	2.87 (2.19, 3.74)	0.38	2.48	61 (34)
Burkina Faso	0.29	8.98 (4.2, 14.92)	6.43	2.54	65 (161)
Burundi	0.29	7.64 (3.08, 15.11)	6.64	1	15 (138)
Cabo Verde	0.53	4.41 (1.75, 8.3)	1.77	2.63	66 (73)
Cambodia	0.47	4.92 (3.12, 10.08)	3.47	1.45	22 (87)
Cameroon	0.48	6.27 (3.78, 10.57)	2.98	3.29	88 (115)
Canada	0.87	4.63 (4.23, 4.99)	0.43	4.2	119 (79)
Central African Republic	0.31	8.92 (4.34, 15.95)	6.49	2.42	58 (159)
Chad	0.24	9.18 (4.46, 16.36)	7.64	1.54	26 (163)
Chile	0.77	5.45 (4.99, 5.9)	0.35	5.1	137 (98)
China	0.72	8.95 (6.04, 11.13)	0.38	8.57	169 (160)
Colombia	0.66	3.29 (2.74, 3.93)	0.37	2.92	76 (43)
Comoros	0.48	5.92 (3.15, 11.42)	3.38	2.53	64 (106)
Congo	0.58	4.8 (2.93, 8.78)	1.77	3.03	80 (84)
Cook Islands	0.78	5.26 (3.14, 10.93)	0.41	4.85	133 (93)
Costa Rica	0.70	3.31 (2.92, 3.7)	0.35	2.96	78 (44)
Coted'Ivoire	0.43	6.79 (3.56, 10.99)	4.7	2.09	50 (128)
Croatia	0.80	1.31 (1.11, 1.53)	0.36	0.95	13 (5)
Cuba	0.67	1.9 (1.64, 2.14)	0.43	1.47	23 (13)
Cyprus	0.84	17.45 (9.61, 21.85)	0.38	17.07	196 (195)
Czechia	0.83	11.11 (9.35, 12.86)	0.37	10.75	177 (174)
Democratic People's Republic of Korea	0.57	8.04 (5.73, 13.4)	1.78	6.26	152 (146)
Democratic Republic of the Congo	0.38	6.13 (2.66, 11.34)	4.79	1.34	21 (111)
Denmark	0.90	4.8 (4.39, 5.2)	0.43	4.38	126 (85)
Djibouti	0.49	5.68 (2.66, 10.81)	2.44	3.24	86 (100)
Dominica	0.75	3.46 (2.49, 5.66)	0.36	3.11	82 (46)
Dominican Republic	0.62	4.26 (3.05, 7.94)	1.61	2.65	68 (70)
Ecuador	0.66	5.8 (4.94, 6.74)	0.36	5.44	138 (103)
Egypt	0.61	16.51 (12.82, 21.87)	1.76	14.75	189 (192)
El Salvador	0.56	4.18 (3.02, 6.98)	1.77	2.41	57 (68)
Equatorial Guinea	0.66	3.83 (2.13, 6.65)	0.36	3.47	98 (58)
Eritrea	0.40	8.01 (3.8, 15.23)	4.55	3.45	96 (144)
Estonia	0.84	1.12 (0.96, 1.29)	0.37	0.74	12 (4)
Eswatini	0.59	5.3 (3.57, 7.29)	1.78	3.53	100 (94)
Ethiopia	0.36	5.53 (2.3, 11.22)	5.15	0.38	7 (99)
Fiji	0.68	5.17 (2.93, 9.99)	0.37	4.81	132 (90)
Finland	0.86	2.13 (1.95, 2.35)	0.37	1.77	33 (17)
France	0.84	6.05 (5.6, 6.55)	0.36	5.7	144 (110)
Gabon	0.63	4.14 (2.32, 7.11)	0.38	3.76	110 (66)
Gambia	0.41	6.52 (3.06, 11.69)	4.68	1.85	36 (124)
Georgia	0.73	27.83 (22.18, 34.82)	0.4	27.43	202 (202)
Germany	0.90	6.42 (5.86, 6.91)	0.36	6.06	148 (122)
Ghana	0.56	4.49 (2.65, 7.35)	1.78	2.71	71 (76)
Greece	0.79	8.35 (7.67, 9.13)	0.36	7.99	165 (151)
Greenland	0.83	7.06 (5.05, 10.16)	0.37	6.69	155 (131)
Grenada	0.67	8.8 (7.66, 10.03)	0.38	8.43	168 (158)
Guam	0.80	2.53 (1.37, 4.91)	0.38	2.16	52 (29)
Guatemala	0.54	2.36 (2.02, 2.8)	1.76	0.6	9 (22)
Guinea	0.34	8.02 (3.99, 13.76)	5.94	2.07	47 (145)

Table S16 (continued)

Table S16 (continued)

Countries/territories	SDI	Age standardized DALYs (95% UI)	Frontier DALYs	Effective difference	Effective difference rank
Guinea-Bissau	0.35	8.52 (4.19, 14.99)	4.92	3.6	104 (154)
Guyana	0.65	16.06 (12.29, 21.11)	0.37	15.7	193 (190)
Haiti	0.45	25.17 (11.87, 42.29)	4.32	20.85	200 (199)
Honduras	0.51	5.3 (3.67, 8.02)	1.99	3.31	89 (95)
Hungary	0.79	4.66 (3.75, 5.82)	0.38	4.28	123 (82)
Iceland	0.88	3.79 (3.36, 4.27)	0.39	3.41	94 (55)
India	0.58	7.75 (5.52, 11.36)	1.77	5.98	146 (141)
Indonesia	0.66	4.61 (3.03, 10.44)	0.37	4.24	120 (78)
Iran (Islamic Republic of)	0.70	16.26 (12.86, 18.66)	0.38	15.88	194 (191)
Iraq	0.66	5.2 (2.84, 10.09)	0.43	4.77	129 (92)
Ireland	0.87	3.02 (2.74, 3.33)	0.38	2.64	67 (37)
Israel	0.81	7.18 (6.52, 7.81)	0.36	6.81	158 (134)
Italy	0.81	2.78 (2.58, 2.99)	0.38	2.4	56 (31)
Jamaica	0.68	2.81 (2.16, 3.62)	0.37	2.44	60 (32)
Japan	0.87	10.72 (10.03, 11.46)	0.41	10.31	175 (172)
Jordan	0.73	2.45 (1.2, 6.89)	0.4	2.05	43 (27)
Kazakhstan	0.73	1.49 (1.23, 1.74)	0.37	1.12	16 (6)
Kenya	0.52	4.05 (1.93, 7.82)	1.97	2.08	49 (64)
Kiribati	0.53	8.09 (4.85, 15.83)	1.77	6.32	154 (149)
Kuwait	0.85	6.51 (5.41, 7.73)	0.36	6.15	149 (123)
Kyrgyzstan	0.60	1.76 (1.46, 2.16)	1.76	0.01	4 (11)
Lao People's Democratic Republic	0.49	6.65 (3.69, 13.98)	2.46	4.19	118 (126)
Latvia	0.83	2.89 (2.51, 3.3)	0.36	2.53	63 (35)
Lebanon	0.74	11.26 (8.86, 14.49)	0.4	10.87	179 (176)
Lesotho	0.51	5.4 (3.74, 7.19)	2.02	3.38	93 (96)
Liberia	0.35	6.94 (3.1, 12.33)	4.91	2.03	42 (129)
Libya	0.73	20.43 (8.75, 36.65)	0.36	20.07	199 (198)
Lithuania	0.86	2.3 (2.04, 2.58)	0.41	1.89	38 (19)
Luxembourg	0.88	5.06 (4.54, 5.64)	0.39	4.67	127 (88)
Madagascar	0.40	12.8 (6.85, 24.47)	4.73	8.07	167 (182)
Malawi	0.38	6.17 (3.08, 10.65)	4.69	1.48	24 (113)
Malaysia	0.74	2.48 (1.66, 6.63)	0.36	2.12	51 (28)
Maldives	0.65	7.48 (5.98, 10.28)	0.36	7.12	159 (136)
Mali	0.27	6.95 (3.08, 13.92)	6.57	0.38	8 (130)
Malta	0.80	2.9 (2.55, 3.27)	0.37	2.52	62 (36)
Marshall Islands	0.57	8.04 (4.72, 15.81)	1.8	6.24	150 (147)
Mauritania	0.50	4.73 (2.4, 8.52)	2.39	2.34	55 (83)
Mauritius	0.72	28.96 (25.61, 31.57)	0.4	28.56	203 (203)
Mexico	0.66	3.11 (2.78, 3.53)	0.37	2.74	73 (40)
Micronesia (Federated States of)	0.59	7.48 (4.69, 15.03)	1.76	5.72	145 (137)
Monaco	0.91	4.46 (3.07, 6.12)	0.37	4.09	115 (75)
Mongolia	0.62	43.92 (25.6, 56.54)	1.32	42.6	204 (204)
Montenegro	0.80	1.05 (0.6, 4.82)	0.38	0.67	11 (3)
Morocco	0.56	13.46 (6.51, 20.47)	1.77	11.69	182 (184)
Mozambique	0.33	8.59 (3.81, 15.15)	5.92	2.67	69 (155)
Myanmar	0.53	6.76 (4.43, 13.78)	1.78	4.98	135 (127)
Namibia	0.62	4.86 (3.36, 6.76)	1.22	3.64	106 (86)
Nauru	0.63	10.3 (6.33, 22.74)	0.36	9.94	172 (167)
Nepal	0.43	9.42 (5.15, 15.02)	4.57	4.86	134 (166)
Netherlands	0.89	3.91 (3.61, 4.26)	0.41	3.5	99 (60)
New Zealand	0.85	3.55 (3.26, 3.89)	0.37	3.18	84 (49)
Nicaragua	0.52	1.76 (1.18, 5.35)	1.76	0	2 (10)
Niger	0.17	7.69 (2.46, 15.66)	7.69	0	2 (139)
Nigeria	0.50	6.04 (4.07, 8.84)	2.35	3.68	107 (109)
Niue	0.73	11.14 (7.04, 23.27)	0.36	10.78	178 (175)
North Macedonia	0.75	3.18 (1.68, 5.83)	0.36	2.82	74 (41)
Northern Mariana Islands	0.77	3.36 (2.06, 6.99)	0.41	2.95	77 (45)
Norway	0.92	1.92 (1.77, 2.11)	0.37	1.55	28 (14)
Oman	0.77	3.9 (1.49, 7.22)	0.37	3.54	101 (59)
Pakistan	0.50	11.96 (7.86, 18.26)	2.38	9.58	171 (180)
Palau	0.75	4.37 (2.21, 9.17)	0.36	4.01	113 (72)
Palestine	0.63	4.66 (1.98, 11.88)	0.55	4.11	117 (81)
Panama	0.71	2.08 (1.73, 2.46)	0.38	1.7	31 (16)
Papua New Guinea	0.42	11.31 (7.43, 19.45)	4.61	6.7	156 (177)
Paraguay	0.64	2.42 (1.58, 6.14)	0.36	2.06	44 (24)
Peru	0.66	4.65 (3.45, 6.29)	0.37	4.28	124 (80)
Philippines	0.65	3.28 (2.37, 7.5)	0.37	2.91	75 (42)
Poland	0.81	3.95 (3.58, 4.29)	0.36	3.59	103 (61)
Portugal	0.74	5.82 (5.35, 6.28)	0.37	5.45	139 (104)
Puerto Rico	0.83	3.98 (3.33, 4.67)	0.37	3.61	105 (62)
Qatar	0.85	3.75 (1.96, 5.57)	0.39	3.36	92 (54)
Republic of Korea	0.89	2.4 (1.67, 4.75)	0.38	2.02	41 (23)
Republic of Moldova	0.73	0.54 (0.44, 0.68)	0.38	0.17	6 (1)
Romania	0.77	13.92 (12.01, 15.83)	0.41	13.51	185 (185)
Russian Federation	0.81	3.62 (3.38, 3.89)	0.37	3.26	87 (51)
Rwanda	0.44	6.17 (2.87, 13.12)	4.66	1.5	25 (112)

Table S16 (continued)

Table S16 (continued)

Countries/territories	SDI	Age standardized DALYs (95% UI)	Frontier DALYs	Effective difference	Effective difference rank
Saint Kitts and Nevis	0.75	2.32 (1.9, 2.81)	0.43	1.88	37 (20)
Saint Lucia	0.67	8.36 (6.78, 10.22)	0.37	7.99	164 (152)
Saint Vincent and the Grenadines	0.64	2.45 (2.08, 2.88)	0.38	2.07	45 (26)
Samoa	0.59	6.56 (4.4, 12.94)	1.76	4.8	131 (125)
San Marino	0.89	1.61 (1.07, 3.13)	0.37	1.24	18 (8)
Sao Tome and Principe	0.51	4.36 (1.85, 8.4)	2.28	2.08	48 (71)
Saudi Arabia	0.82	2.62 (1.45, 5.39)	0.38	2.24	54 (30)
Senegal	0.41	6.4 (2.74, 11.21)	4.71	1.69	30 (121)
Serbia	0.79	2.43 (1.58, 4.62)	0.36	2.07	46 (25)
Seychelles	0.73	2.86 (1.75, 6.44)	0.43	2.43	59 (33)
Sierra Leone	0.36	8.24 (4.47, 13.62)	5.24	2.99	79 (150)
Singapore	0.86	3.83 (3.44, 4.27)	0.37	3.46	97 (57)
Slovakia	0.81	2.04 (1.32, 3.61)	0.37	1.67	29 (15)
Slovenia	0.84	1.03 (0.88, 1.21)	0.38	0.66	10 (2)
Solomon Islands	0.43	6.31 (4.18, 11.93)	4.76	1.55	27 (118)
Somalia	0.08	10.58 (2.79, 22.97)	10.58	0	2 (171)
South Africa	0.68	3.58 (2.77, 4.23)	0.36	3.22	85 (50)
South Sudan	0.28	10.34 (5.26, 18.6)	6.6	3.74	108 (169)
Spain	0.77	6 (5.52, 6.41)	0.38	5.62	143 (108)
Sri Lanka	0.70	15.14 (9.48, 21.88)	0.43	14.71	188 (188)
Sudan	0.54	17.35 (8.6, 25.58)	1.8	15.55	192 (194)
Suriname	0.63	14.26 (10.62, 19.62)	0.37	13.88	186 (186)
Sweden	0.89	4.14 (3.73, 4.63)	0.38	3.75	109 (65)
Switzerland	0.93	5.12 (4.64, 5.63)	0.36	4.76	128 (89)
Syrian Arab Republic	0.62	2.32 (1.05, 11.57)	0.4	1.92	39 (21)
Taiwan (Province of China)	0.87	4.19 (3.77, 4.54)	0.36	3.83	112 (69)
Tajikistan	0.54	27.43 (17.75, 37.43)	1.76	25.67	201 (201)
Thailand	0.68	3.09 (2.13, 7.5)	0.36	2.73	72 (39)
Timor-Leste	0.44	6.29 (3.77, 13.06)	4.57	1.72	32 (117)
Togo	0.41	6.36 (3.03, 10.38)	4.55	1.8	34 (119)
Tokelau	0.69	13.26 (8.1, 31.56)	0.4	12.86	184 (183)
Tonga	0.63	4.46 (2.97, 9.33)	0.39	4.07	114 (74)
Trinidad and Tobago	0.77	7.72 (5.91, 9.91)	0.37	7.35	161 (140)
Tunisia	0.68	9.23 (3.88, 14.8)	0.37	8.86	170 (164)
Turkey	0.71	16.56 (12.93, 20.56)	0.36	16.19	195 (193)
Turkmenistan	0.68	7.85 (5.96, 10.27)	0.37	7.48	162 (143)
Tuvalu	0.58	7.3 (4.76, 14.38)	1.78	5.51	140 (135)
Uganda	0.42	5.98 (3.2, 10.36)	4.69	1.3	20 (107)
Ukraine	0.76	3.05 (2.37, 3.83)	0.37	2.69	70 (38)
United Arab Emirates	0.85	10.31 (5.63, 13.04)	0.37	9.94	173 (168)
United Kingdom	0.86	3.73 (3.54, 3.92)	0.41	3.32	90 (53)
United Republic of Tanzania	0.45	6.27 (3.28, 11.36)	4.32	1.96	40 (116)
United States Virgin Islands	0.82	6.4 (4.53, 8.82)	0.38	6.03	147 (120)
United States of America	0.86	8.08 (7.49, 8.6)	0.36	7.72	163 (148)
Uruguay	0.72	5.44 (4.97, 5.99)	0.36	5.08	136 (97)
Uzbekistan	0.66	12.2 (9.83, 14.82)	0.36	11.84	183 (181)
Vanuatu	0.47	7.8 (5.12, 15.18)	3.46	4.34	125 (142)
Venezuela (Bolivarian Republic of)	0.60	1.83 (1.46, 2.27)	1.76	0.07	5 (12)
Viet Nam	0.63	3.8 (2.13, 9.56)	0.36	3.44	95 (56)
Yemen	0.45	19.3 (9.07, 28.92)	4.16	15.14	190 (197)
Zambia	0.51	8.64 (3.22, 17.19)	2.39	6.25	151 (156)
Zimbabwe	0.47	7.16 (4.65, 10.44)	2.9	4.26	122 (133)

PAH: pulmonary arterial hypertension; SDI: socio-demographic index; ASDALYs: age-standardized rate of disability-adjusted life years.

Table S17 Prevalence for PAH from 2022 to 2046 by BAPC models

Sex	Year	ASPR	Number
Male	2022	1.80	75685
	2023	1.79	76912
	2024	1.79	78156
	2025	1.79	79396
	2026	1.79	80630
	2027	1.78	81846
	2028	1.78	83052
	2029	1.78	84261
	2030	1.78	85458
	2031	1.77	86642
	2032	1.77	87804
	2033	1.77	88950
	2034	1.76	90094
	2035	1.76	91222
	2036	1.76	92334
	2037	1.76	93421
	2038	1.75	94491
	2039	1.75	95558
	2040	1.75	96604
	2041	1.75	97627
	2042	1.74	98617
	2043	1.74	99577
	2044	1.74	100521
	2045	1.74	101442
	2046	1.73	102335
Female	2022	2.77	123011
	2023	2.77	125032
	2024	2.76	127076
	2025	2.76	129145
	2026	2.75	131204
	2027	2.75	133235
	2028	2.75	135249
	2029	2.74	137263
	2030	2.74	139280
	2031	2.74	141272
	2032	2.73	143228
	2033	2.73	145151
	2034	2.72	147060
	2035	2.72	148959
	2036	2.72	150823
	2037	2.72	152644
	2038	2.71	154431
	2039	2.71	156196
	2040	2.71	157935
	2041	2.70	159628
	2042	2.70	161267
	2043	2.70	162854
	2044	2.69	164406
	2045	2.69	165916
	2046	2.69	167375
Both	2022	2.29	198697
	2023	2.29	201944
	2024	2.29	205232
	2025	2.28	208542
	2026	2.28	211834
	2027	2.28	215081
	2028	2.27	218300
	2029	2.27	221524
	2030	2.27	224739
	2031	2.26	227914
	2032	2.26	231031
	2033	2.26	234101
	2034	2.25	237153
	2035	2.25	240181
	2036	2.25	243157
	2037	2.24	246065
	2038	2.24	248922
	2039	2.24	251754
	2040	2.23	254539
	2041	2.23	257255
	2042	2.23	259883
	2043	2.23	262431
	2044	2.22	264927
	2045	2.22	267358
	2046	2.22	269710

PAH: pulmonary arterial hypertension; ASPR: age-standardized prevalence rate; BAPC: Bayesian age-period-cohort.

Table S18 Mortality for PAH from 2022 to 2046 by BAPC models

Sex	Year	ASDR	Number
Male	2022	0.26	9813
	2023	0.26	9831
	2024	0.25	9866
	2025	0.25	9954
	2026	0.24	10033
	2027	0.24	10098
	2028	0.23	10164
	2029	0.23	10243
	2030	0.23	10395
	2031	0.22	10543
	2032	0.22	10682
	2033	0.22	10825
	2034	0.21	10981
	2035	0.21	11210
	2036	0.21	11436
	2037	0.21	11652
	2038	0.20	11869
	2039	0.20	12100
	2040	0.20	12338
	2041	0.20	12568
	2042	0.20	12784
	2043	0.20	12996
	2044	0.19	13213
	2045	0.19	13430
	2046	0.19	13640
Female	2022	0.27	12784
	2023	0.26	12919
	2024	0.26	13101
	2025	0.26	13276
	2026	0.25	13434
	2027	0.25	13600
	2028	0.25	13789
	2029	0.24	14041
	2030	0.24	14292
	2031	0.24	14534
	2032	0.23	14784
	2033	0.23	15054
	2034	0.23	15394
	2035	0.23	15734
	2036	0.23	16065
	2037	0.22	16405
	2038	0.22	16765
	2039	0.22	17137
	2040	0.22	17502
	2041	0.22	17849
	2042	0.22	18194
	2043	0.21	18550
	2044	0.21	18905
	2045	0.21	19248
	2046	0.27	12784
Both	2022	0.26	22615
	2023	0.26	22785
	2024	0.25	23055
	2025	0.25	23309
	2026	0.25	23533
	2027	0.24	23764
	2028	0.24	24032
	2029	0.23	24436
	2030	0.23	24836
	2031	0.23	25217
	2032	0.23	25609
	2033	0.22	26035
	2034	0.22	26604
	2035	0.22	27170
	2036	0.22	27717
	2037	0.22	28274
	2038	0.21	28865
	2039	0.21	29475
	2040	0.21	30071
	2041	0.21	30633
	2042	0.21	31189
	2043	0.21	31763
	2044	0.20	32334
	2045	0.20	32887
	2046	0.26	22615

PAH: pulmonary arterial hypertension; ASDR: age-standardized death rate; BAPC: Bayesian age-period-cohort.

Table S19 DALYs for PAH from 2022 to 2046 by BAPC models

Sex	Year	ASDALYs	Number
Male	2022	7.97	307413
	2023	7.79	304633
	2024	7.60	301927
	2025	7.46	301027
	2026	7.32	299938
	2027	7.19	298572
	2028	7.05	297099
	2029	6.91	295668
	2030	6.81	296037
	2031	6.72	296321
	2032	6.62	296448
	2033	6.53	296535
	2034	6.43	296702
	2035	6.38	298688
	2036	6.32	300615
	2037	6.27	302410
	2038	6.21	304197
	2039	6.15	306075
	2040	6.10	308033
	2041	6.05	309868
	2042	5.99	311494
	2043	5.94	313002
	2044	5.88	314509
	2045	5.83	315947
2046	5.77	317251	
Female	2022	8.30	349904
	2023	8.14	349291
	2024	7.99	348822
	2025	7.87	349776
	2026	7.76	350560
	2027	7.64	351083
	2028	7.52	351559
	2029	7.41	352156
	2030	7.32	354141
	2031	7.23	356039
	2032	7.15	357761
	2033	7.06	359436
	2034	6.97	361209
	2035	6.92	364517
	2036	6.86	367763
	2037	6.81	370879
	2038	6.75	374009
	2039	6.69	377271
	2040	6.64	380628
	2041	6.58	383835
	2042	6.53	386785
	2043	6.47	389612
	2044	6.42	392456
	2045	6.36	395205
2046	6.31	397761	
Both	2022	8.14	657317
	2023	7.97	653924
	2024	7.80	650749
	2025	7.67	650803
	2026	7.55	650498
	2027	7.42	649655
	2028	7.29	648658
	2029	7.16	647824
	2030	7.07	650179
	2031	6.98	652360
	2032	6.89	654209
	2033	6.80	655971
	2034	6.71	657911
	2035	6.65	663205
	2036	6.59	668378
	2037	6.54	673289
	2038	6.48	678206
	2039	6.42	683346
	2040	6.37	688661
	2041	6.32	693703
	2042	6.26	698278
	2043	6.21	702614
	2044	6.15	706966
	2045	6.10	711152
2046	6.04	715012	

PAH: pulmonary arterial hypertension; DALYs: disability-adjusted life years; ASDALYs: age-standardized rate of disability-adjusted life years; BAPC: Bayesian age-period-cohort.