

eTable 1 The number of PAH death and ASMR in 1990 and 2021 among children and adolescents by SDI quintiles and by GBD regions, with EAPC from 1990 to 2021.

Location	1990		2021		EAPC (95 % CI) 1990-2021
	Number (95 % Uls)	ASMR (95 % Uls)	Number (95 % Uls)	ASMR (95 % Uls)	
Global	4347.341 (2632.326 to 5951.223)	0.071 (0.043 to 0.097)	1972.965 (1585.29 to 2408.537)	0.028 (0.022 to 0.034)	-2.49 (-2.68 to -2.3)
SDI quintiles					
High SDI	248.595 (229.525 to 278.538)	0.037 (0.034 to 0.041)	99.569 (91.501 to 107.001)	0.016 (0.015 to 0.017)	-2.78 (-2.98 to -2.57)
High-middle SDI	635.887 (447.811 to 920.576)	0.064 (0.045 to 0.092)	123.057 (103.274 to 154.812)	0.015 (0.013 to 0.019)	-3.87 (-4.15 to -3.58)
Middle SDI	1229.757 (870.265 to 1716.151)	0.059 (0.042 to 0.083)	344.927 (290.441 to 444.487)	0.017 (0.014 to 0.022)	-3.14 (-3.46 to -2.81)
Low-middle SDI	1641.416 (745.451 to 2296.957)	0.103 (0.047 to 0.144)	759.223 (556.631 to 965.867)	0.037 (0.027 to 0.047)	-2.75 (-2.93 to -2.56)
Low SDI	587.961 (337.417 to 1043.677)	0.078 (0.045 to 0.138)	643.813 (468.308 to 888.422)	0.041 (0.03 to 0.056)	-1.83 (-1.96 to -1.7)
GBD regions					
Andean Latin America	43.065 (22.789 to 67.847)	0.084 (0.044 to 0.132)	18.128 (13.642 to 23.105)	0.028 (0.021 to 0.036)	-3.01 (-3.23 to -2.78)
Australasia	4.518 (3.634 to 5.609)	0.027 (0.021 to 0.033)	1.617 (1.375 to 1.918)	0.008 (0.007 to 0.009)	-3.67 (-4.29 to -3.04)
Caribbean	58.343 (25.427 to 97.662)	0.143 (0.062 to 0.239)	33.908 (13.738 to 59.935)	0.082 (0.033 to 0.145)	-1.87 (-2.06 to -1.68)
Central Asia	30.712 (23.714 to 40.124)	0.036 (0.028 to 0.047)	20.081 (15.809 to 24.47)	0.021 (0.017 to 0.026)	-1.25 (-1.58 to -0.92)
Central Europe	15.301 (13.453 to 17.197)	0.014 (0.013 to 0.016)	4.144 (3.68 to 4.944)	0.007 (0.006 to 0.008)	-2.27 (-2.42 to -2.13)
Central Latin America	74.255 (63.051 to 91.138)	0.033 (0.028 to 0.041)	20.698 (16.406 to 26.264)	0.009 (0.007 to 0.011)	-4.24 (-4.66 to -3.81)
Central Sub-Saharan Africa	43.665 (19.978 to 97.685)	0.052 (0.024 to 0.117)	36.072 (22.49 to 59.469)	0.018 (0.011 to 0.03)	-3.06 (-3.35 to -2.77)
East Asia	707.202 (484.107 to 1022.534)	0.057 (0.039 to 0.082)	120.018 (73.71 to 184.471)	0.013 (0.008 to 0.02)	-3.4 (-3.98 to -2.82)
Eastern Europe	66.937 (63.639 to 70.348)	0.037 (0.035 to 0.039)	8.907 (8.17 to 9.538)	0.007 (0.007 to 0.008)	-5.08 (-5.64 to -4.52)
Eastern Sub-Saharan Africa	186.343 (87.88 to 421.496)	0.062 (0.029 to 0.141)	168.107 (101.286 to 313.802)	0.027 (0.016 to 0.051)	-2.55 (-2.63 to -2.47)
High-income Asia Pacific	79.806 (73.63 to 87.548)	0.059 (0.054 to 0.064)	27.992 (25.816 to 30.196)	0.034 (0.031 to 0.036)	-2.38 (-2.79 to -1.98)
High-income North America	83.827 (76.415 to 93.722)	0.038 (0.035 to 0.042)	41.297 (37.486 to 45.339)	0.017 (0.015 to 0.019)	-2.71 (-2.93 to -2.5)
North Africa and Middle East	1359.891 (596.71 to 2049.367)	0.285 (0.125 to 0.429)	451.376 (331.623 to 565.48)	0.071 (0.052 to 0.088)	-3.57 (-3.86 to -3.29)

Oceania	4.932 (2.803 to 8.198)	0.054 (0.031 to 0.09)	9.673 (5.788 to 16.563)	0.056 (0.034 to 0.096)	0.23 (0.09 to 0.36)
South Asia	1025.961 (418.312 to 1498.162)	0.07 (0.029 to 0.102)	565.589 (343.688 to 835.672)	0.031 (0.019 to 0.045)	-2.29 (-2.42 to -2.15)
Southeast Asia	163.306 (90.483 to 381.572)	0.027 (0.015 to 0.064)	98.108 (66.839 to 181.674)	0.016 (0.011 to 0.029)	-1.59 (-1.7 to -1.49)
Southern Latin America	44.209 (39.158 to 50.331)	0.084 (0.075 to 0.096)	8.064 (6.83 to 9.287)	0.015 (0.013 to 0.018)	-5.07 (-5.32 to -4.82)
Southern Sub-Saharan Africa	10.716 (7.899 to 13.697)	0.015 (0.011 to 0.019)	10.447 (7.718 to 13.778)	0.012 (0.009 to 0.016)	0.07 (-0.23 to 0.38)
Tropical Latin America	104.003 (91.405 to 117.713)	0.056 (0.049 to 0.063)	48.464 (40.533 to 57.055)	0.027 (0.023 to 0.032)	-1.82 (-2.49 to -1.14)
Western Europe	82.119 (74.576 to 94.134)	0.031 (0.028 to 0.035)	29.692 (27.209 to 32.073)	0.012 (0.011 to 0.013)	-2.91 (-3.34 to -2.47)
Western Sub-Saharan Africa	158.231 (68.406 to 375.934)	0.054 (0.024 to 0.129)	250.585 (167.099 to 393.541)	0.035 (0.023 to 0.054)	-1.12 (-1.37 to -0.87)

Abbreviations: ASMR, age-standardized mortality rate; PAH, pulmonary arterial hypertension; SDI, socio-demographic index; EAPC, estimated annual percentage change; UIs, uncertainty intervals; CI, confidence interval.

eTable 2 The number of PAH DALYs and ASDR in 1990 and 2021 among children and adolescents by SDI quintiles and by GBD regions, with EAPC from 1990 to 2021.

Location	1990		2021		EAPC (95 % CI) 1990-2021
	Number (95 % UIs)	ASDR (95 % UIs)	Number (95 % UIs)	ASDR (95 % UIs)	
Global	380811.567 (229303.09 to 522974.829)	6.236 (3.755 to 8.563)	170371.183 (136995.969 to 207398.146)	2.39 (1.922 to 2.91)	-2.53 (-2.72 to -2.33)
SDI quintiles					
High SDI	21375.967 (19689.16 to 23927.859)	3.146 (2.897 to 3.521)	8526.948 (7821.58 to 9185.726)	1.355 (1.243 to 1.46)	-2.78 (-2.99 to -2.57)
High-middle SDI	55388.489 (38768.671 to 80850.872)	5.534 (3.873 to 8.078)	10578.861 (8857.609 to 13267.371)	1.29 (1.08 to 1.617)	-3.89 (-4.18 to -3.61)
Middle SDI	107218.904 (75745.886 to 150101.299)	5.186 (3.664 to 7.261)	29534.889 (24752.41 to 38296.141)	1.458 (1.222 to 1.89)	-3.17 (-3.51 to -2.84)
Low-middle SDI	145002.361 (65721.4 to 202981.382)	9.073 (4.112 to 12.701)	65904.352 (47874.926 to 84147.107)	3.189 (2.316 to 4.071)	-2.79 (-2.98 to -2.61)
Low SDI	51500.58 (29411.782 to 91561.206)	6.813 (3.891 to 12.112)	55619.827 (40621.337 to 76933.627)	3.521 (2.572 to 4.87)	-1.87 (-2 to -1.73)
GBD regions					
Andean Latin America	3807.109 (2007.218 to 6011.57)	7.428 (3.916 to 11.728)	1595.442 (1199.319 to 2031.613)	2.492 (1.874 to 3.174)	-3.03 (-3.24 to -2.81)
Australasia	386.088 (309.83 to 477.228)	2.276 (1.827 to 2.813)	139.28 (118.246 to 165.349)	0.683 (0.58 to 0.811)	-3.62 (-4.23 to -3.01)
Caribbean	5111.28 (2205.962 to 8575.454)	12.519 (5.403 to 21.004)	2965.282 (1190.613 to 5256.512)	7.185 (2.885 to 12.737)	-1.86 (-2.05 to -1.68)
Central Asia	2545.672 (1962.609 to 3372.724)	2.981 (2.298 to 3.95)	1649.317 (1297.683 to 2024.413)	1.762 (1.386 to 2.162)	-1.26 (-1.57 to -0.94)

Central Europe	1277.174 (1122.148 to 1441.458)	1.203 (1.057 to 1.358)	345.541 (306.654 to 413.343)	0.542 (0.481 to 0.649)	-2.28 (-2.41 to -2.14)
Central Latin America	6555.351 (5553.444 to 8046.118)	2.934 (2.486 to 3.601)	1838.048 (1465.064 to 2316.145)	0.797 (0.635 to 1.004)	-4.22 (-4.64 to -3.8)
Central Sub-Saharan Africa	3819.866 (1718.294 to 8547.571)	4.559 (2.051 to 10.201)	3070.999 (1946.219 to 5045.278)	1.544 (0.978 to 2.537)	-3.13 (-3.43 to -2.83)
East Asia	61766.332 (42098.009 to 89712.229)	4.964 (3.384 to 7.21)	10369.3 (6432.485 to 15682.577)	1.112 (0.69 to 1.681)	-3.42 (-4 to -2.83)
Eastern Europe	5700.543 (5415.23 to 6001.749)	3.134 (2.977 to 3.299)	771.521 (708.518 to 824.537)	0.618 (0.568 to 0.661)	-4.99 (-5.52 to -4.45)
Eastern Sub-Saharan Africa	16099.956 (7380.869 to 36741.892)	5.369 (2.461 to 12.253)	14209.108 (8646.889 to 26397.483)	2.309 (1.405 to 4.29)	-2.6 (-2.69 to -2.52)
High-income Asia Pacific	6750.545 (6226.628 to 7410.577)	4.961 (4.576 to 5.446)	2353.2 (2164.092 to 2547.328)	2.827 (2.599 to 3.06)	-2.4 (-2.82 to -1.97)
High-income North America	7323.609 (6683.596 to 8186.297)	3.314 (3.024 to 3.704)	3558.26 (3232.201 to 3910.14)	1.469 (1.335 to 1.615)	-2.75 (-2.97 to -2.53)
North Africa and Middle East	119621.649 (52080.425 to 181030.715)	25.026 (10.896 to 37.874)	38934.948 (28727.25 to 48906.406)	6.089 (4.492 to 7.648)	-3.62 (-3.91 to -3.33)
Oceania	434.166 (246.105 to 724.265)	4.77 (2.704 to 7.957)	844.142 (503.168 to 1453.493)	4.888 (2.914 to 8.417)	0.2 (0.06 to 0.33)
South Asia	90807.968 (36909.775 to 131986.172)	6.191 (2.517 to 8.999)	49355.187 (29917.538 to 73746.317)	2.671 (1.619 to 3.99)	-2.33 (-2.47 to -2.19)
Southeast Asia	14216.599 (7898.627 to 33535.305)	2.391 (1.328 to 5.64)	8426.576 (5733.249 to 15663.341)	1.359 (0.925 to 2.527)	-1.64 (-1.74 to -1.53)
Southern Latin America	3850.037 (3409.032 to 4397.336)	7.347 (6.506 to 8.392)	676.001 (572.691 to 777.337)	1.281 (1.086 to 1.474)	-5.18 (-5.43 to -4.93)
Southern Sub-Saharan Africa	911.053 (668.877 to 1169.834)	1.273 (0.935 to 1.635)	866.328 (647.245 to 1133.388)	1.025 (0.766 to 1.341)	0.01 (-0.3 to 0.32)
Tropical Latin America	9006.292 (7924.985 to 10218.225)	4.809 (4.232 to 5.456)	4108.302 (3419.87 to 4865.287)	2.282 (1.899 to 2.702)	-1.89 (-2.56 to -1.21)
Western Europe	7000.973 (6351.71 to 8034.058)	2.633 (2.389 to 3.021)	2548.971 (2338.056 to 2741.266)	1.028 (0.943 to 1.105)	-2.87 (-3.29 to -2.45)
Western Sub-Saharan Africa	13819.306 (5829.327 to 33027.905)	4.754 (2.006 to 11.363)	21745.429 (14621.664 to 34393.769)	2.994 (2.013 to 4.736)	-1.13 (-1.38 to -0.88)

Abbreviations: ASDR, age-standardized DALYs rate; PAH, pulmonary arterial hypertension; SDI, socio-demographic index; EAPC, estimated annual percentage change; UIs, uncertainty intervals; CI, confidence interval.

eTable 3 Incidence of PAH among children and adolescents between 1990 and 2021 at the national level.

Location	1990		2021		EAPC (95 % CI) 1990-2021
	Number (95 % UIs)	ASIR (95 % UIs)	Number (95 % UIs)	ASIR (95 % UIs)	
Afghanistan	10.698 (7.746 to 14.591)	0.071 (0.051 to 0.097)	33.737 (24.146 to 45.313)	0.07 (0.05 to 0.094)	-0.06 (-0.17 to 0.05)
Albania	2.48 (1.787 to 3.327)	0.063 (0.046 to 0.085)	1.178 (0.838 to 1.622)	0.071 (0.05 to 0.097)	0.31 (0.23 to 0.38)

Algeria	22.965 (16.266 to 31.272)	0.063 (0.045 to 0.086)	26.482 (19.044 to 35.772)	0.06 (0.043 to 0.08)	-0.2 (-0.29 to -0.12)
American Samoa	0.038 (0.027 to 0.051)	0.058 (0.041 to 0.078)	0.031 (0.022 to 0.043)	0.06 (0.042 to 0.083)	-0.06 (-0.12 to -0.01)
Andorra	0.02 (0.014 to 0.029)	0.056 (0.04 to 0.078)	0.02 (0.014 to 0.029)	0.053 (0.037 to 0.073)	-0.28 (-0.31 to -0.24)
Angola	16.184 (11.689 to 21.703)	0.104 (0.075 to 0.139)	53.161 (38.267 to 72.331)	0.105 (0.076 to 0.143)	0.07 (0.01 to 0.13)
Antigua and Barbuda	0.034 (0.024 to 0.047)	0.053 (0.038 to 0.073)	0.034 (0.024 to 0.048)	0.054 (0.038 to 0.076)	0.11 (0.06 to 0.17)
Argentina	15.206 (11.054 to 20.702)	0.043 (0.031 to 0.059)	16.015 (11.274 to 22.208)	0.043 (0.03 to 0.06)	-0.01 (-0.04 to 0.02)
Armenia	1.844 (1.357 to 2.429)	0.051 (0.038 to 0.068)	1.083 (0.79 to 1.448)	0.052 (0.038 to 0.07)	0.15 (0.11 to 0.18)
Australia	6.087 (4.338 to 8.302)	0.044 (0.031 to 0.059)	7.653 (5.42 to 10.51)	0.045 (0.032 to 0.062)	0.12 (0.1 to 0.14)
Austria	2.723 (1.963 to 3.684)	0.054 (0.039 to 0.073)	2.421 (1.729 to 3.333)	0.051 (0.036 to 0.07)	-0.24 (-0.31 to -0.18)
Azerbaijan	4.905 (3.563 to 6.49)	0.058 (0.042 to 0.077)	4.252 (3.085 to 5.736)	0.052 (0.037 to 0.07)	-0.46 (-0.6 to -0.31)
Bahamas	0.144 (0.103 to 0.198)	0.05 (0.035 to 0.068)	0.175 (0.122 to 0.251)	0.056 (0.039 to 0.081)	0.3 (0.17 to 0.43)
Bahrain	0.271 (0.198 to 0.365)	0.05 (0.037 to 0.067)	0.547 (0.391 to 0.744)	0.05 (0.036 to 0.068)	-0.02 (-0.1 to 0.06)
Bangladesh	91.506 (65.421 to 123.217)	0.056 (0.04 to 0.075)	107.228 (75.634 to 147.677)	0.065 (0.046 to 0.09)	0.15 (-0.14 to 0.43)
Barbados	0.113 (0.079 to 0.155)	0.049 (0.034 to 0.068)	0.091 (0.064 to 0.127)	0.051 (0.036 to 0.071)	0.15 (0.09 to 0.22)
Belarus	3.937 (2.883 to 5.292)	0.046 (0.034 to 0.062)	2.771 (2.014 to 3.8)	0.051 (0.037 to 0.069)	0.25 (0.13 to 0.38)
Belgium	4.032 (2.887 to 5.541)	0.06 (0.043 to 0.083)	4.082 (2.929 to 5.655)	0.059 (0.043 to 0.082)	-0.08 (-0.14 to -0.02)
Belize	0.158 (0.113 to 0.213)	0.057 (0.041 to 0.077)	0.261 (0.184 to 0.365)	0.057 (0.04 to 0.08)	0.1 (-0.01 to 0.22)
Benin	9.651 (6.99 to 13.136)	0.124 (0.09 to 0.169)	16.789 (12.062 to 22.728)	0.083 (0.059 to 0.112)	-1.22 (-1.58 to -0.87)
Bermuda	0.02 (0.014 to 0.026)	0.045 (0.033 to 0.062)	0.014 (0.01 to 0.02)	0.046 (0.034 to 0.064)	0.1 (0.05 to 0.15)
Bhutan	0.674 (0.486 to 0.918)	0.073 (0.053 to 0.1)	0.563 (0.397 to 0.783)	0.082 (0.058 to 0.114)	0.36 (0.33 to 0.4)
Bolivia (Plurinational State of)	6.687 (4.83 to 9.175)	0.074 (0.053 to 0.101)	9.271 (6.676 to 12.684)	0.075 (0.054 to 0.103)	0.15 (0.08 to 0.23)
Bosnia and Herzegovina	2.429 (1.756 to 3.258)	0.061 (0.044 to 0.081)	1.158 (0.821 to 1.607)	0.064 (0.046 to 0.089)	0.23 (0.15 to 0.31)
Botswana	2.048 (1.474 to 2.826)	0.102 (0.074 to 0.141)	2.59 (1.821 to 3.61)	0.104 (0.073 to 0.146)	0.18 (0.13 to 0.23)
Brazil	108.529 (77.083 to 149.682)	0.06 (0.042 to 0.082)	102.923 (73.735 to 140.915)	0.06 (0.043 to 0.082)	-0.02 (-0.11 to 0.07)

Brunei Darussalam	0.125 (0.088 to 0.169)	0.04 (0.028 to 0.054)	0.145 (0.103 to 0.203)	0.041 (0.029 to 0.058)	0.06 (0.03 to 0.09)
Bulgaria	2.953 (2.166 to 4.034)	0.046 (0.034 to 0.063)	1.867 (1.316 to 2.556)	0.053 (0.038 to 0.073)	0.25 (0.15 to 0.35)
Burkina Faso	18.351 (13.266 to 24.666)	0.12 (0.087 to 0.161)	26.472 (19.289 to 35.797)	0.076 (0.056 to 0.103)	-1.97 (-2.29 to -1.65)
Burundi	10.609 (7.651 to 14.074)	0.124 (0.09 to 0.165)	21.089 (15.093 to 28.632)	0.107 (0.077 to 0.146)	-0.36 (-0.56 to -0.16)
Cabo Verde	0.37 (0.266 to 0.497)	0.07 (0.05 to 0.095)	0.318 (0.226 to 0.437)	0.061 (0.043 to 0.084)	-0.65 (-0.74 to -0.57)
Cambodia	10.884 (7.916 to 14.743)	0.071 (0.051 to 0.096)	12.666 (8.959 to 17.239)	0.071 (0.05 to 0.096)	-0.03 (-0.09 to 0.03)
Cameroon	19.559 (14.29 to 26.232)	0.122 (0.089 to 0.163)	41.567 (29.705 to 57.016)	0.091 (0.065 to 0.125)	-1.3 (-1.46 to -1.13)
Canada	5.567 (3.972 to 7.405)	0.027 (0.019 to 0.036)	6.824 (4.846 to 9.444)	0.031 (0.022 to 0.042)	0.43 (0.32 to 0.54)
Central African Republic	4.304 (3.113 to 5.746)	0.106 (0.077 to 0.142)	8.174 (5.818 to 11.252)	0.104 (0.074 to 0.144)	0.04 (-0.01 to 0.09)
Chad	9.224 (6.702 to 12.385)	0.097 (0.07 to 0.13)	23.195 (16.848 to 30.893)	0.078 (0.057 to 0.104)	-0.83 (-0.91 to -0.75)
Chile	6.833 (4.839 to 9.205)	0.048 (0.034 to 0.065)	6.13 (4.379 to 8.543)	0.046 (0.033 to 0.065)	0.09 (0.03 to 0.15)
China	722.765 (518.849 to 994.186)	0.06 (0.043 to 0.083)	530.221 (379.635 to 725.549)	0.059 (0.042 to 0.08)	-0.07 (-0.11 to -0.03)
Colombia	25.911 (18.661 to 35.271)	0.064 (0.046 to 0.087)	23.73 (16.905 to 33.287)	0.06 (0.043 to 0.085)	-0.03 (-0.13 to 0.07)
Comoros	0.656 (0.469 to 0.884)	0.092 (0.066 to 0.124)	0.881 (0.631 to 1.214)	0.104 (0.074 to 0.143)	0.52 (0.37 to 0.67)
Congo	3.382 (2.436 to 4.572)	0.094 (0.068 to 0.127)	5.831 (4.148 to 8.085)	0.087 (0.062 to 0.12)	-0.04 (-0.13 to 0.05)
Cook Islands	0.013 (0.009 to 0.017)	0.054 (0.039 to 0.073)	0.008 (0.006 to 0.011)	0.056 (0.04 to 0.08)	-0.04 (-0.09 to 0.02)
Costa Rica	2.307 (1.657 to 3.137)	0.06 (0.043 to 0.082)	2.024 (1.434 to 2.743)	0.055 (0.039 to 0.074)	-0.2 (-0.28 to -0.11)
Côte d'Ivoire	24.32 (17.498 to 32.857)	0.13 (0.094 to 0.176)	33.837 (23.99 to 46.279)	0.087 (0.062 to 0.119)	-1.94 (-2.17 to -1.7)
Croatia	1.865 (1.363 to 2.52)	0.052 (0.038 to 0.07)	1.233 (0.88 to 1.671)	0.057 (0.04 to 0.077)	0.22 (0.16 to 0.28)
Cuba	4.781 (3.404 to 6.535)	0.048 (0.034 to 0.066)	3.212 (2.266 to 4.486)	0.049 (0.035 to 0.069)	0.14 (0.07 to 0.2)
Cyprus	0.438 (0.316 to 0.601)	0.063 (0.045 to 0.086)	0.43 (0.313 to 0.577)	0.056 (0.041 to 0.075)	-0.54 (-0.67 to -0.41)
Czechia	4.215 (3.045 to 5.769)	0.051 (0.037 to 0.07)	3.396 (2.464 to 4.579)	0.057 (0.041 to 0.076)	0.25 (0.15 to 0.35)
Democratic People's Republic of Korea	11.505 (8.267 to 15.524)	0.055 (0.039 to 0.074)	10.124 (7.166 to 13.988)	0.057 (0.04 to 0.078)	0.04 (0.02 to 0.07)

Democratic Republic of the Congo	60.043 (43.547 to 80.226)	0.103 (0.074 to 0.137)	134.034 (96.75 to 182.394)	0.103 (0.075 to 0.141)	0.3 (0.06 to 0.55)
Denmark	2.112 (1.502 to 2.909)	0.062 (0.044 to 0.086)	1.835 (1.298 to 2.503)	0.052 (0.037 to 0.072)	-0.63 (-0.7 to -0.56)
Djibouti	0.608 (0.434 to 0.836)	0.1 (0.072 to 0.138)	1.358 (0.977 to 1.859)	0.095 (0.068 to 0.13)	-0.06 (-0.2 to 0.08)
Dominica	0.051 (0.036 to 0.069)	0.058 (0.04 to 0.078)	0.029 (0.02 to 0.041)	0.055 (0.039 to 0.078)	-0.08 (-0.17 to 0.01)
Dominican Republic	6.063 (4.375 to 8.113)	0.064 (0.046 to 0.086)	6.958 (4.891 to 9.526)	0.066 (0.046 to 0.091)	0.16 (0.1 to 0.21)
Ecuador	8.9 (6.261 to 12.134)	0.066 (0.047 to 0.091)	11.658 (8.241 to 16.173)	0.065 (0.046 to 0.09)	-0.04 (-0.11 to 0.02)
Egypt	69.294 (49.64 to 93.15)	0.092 (0.066 to 0.123)	77.422 (55.706 to 105.018)	0.062 (0.044 to 0.083)	-1.78 (-1.97 to -1.59)
El Salvador	5.341 (3.804 to 7.351)	0.072 (0.051 to 0.099)	3.698 (2.681 to 5.053)	0.057 (0.042 to 0.078)	-0.78 (-0.86 to -0.69)
Equatorial Guinea	0.595 (0.427 to 0.806)	0.092 (0.066 to 0.124)	1.902 (1.344 to 2.608)	0.091 (0.065 to 0.125)	-0.02 (-0.14 to 0.09)
Eritrea	5.6 (4.057 to 7.531)	0.105 (0.076 to 0.142)	8.953 (6.441 to 12.329)	0.103 (0.074 to 0.142)	0.17 (0.05 to 0.29)
Estonia	0.574 (0.418 to 0.758)	0.046 (0.034 to 0.061)	0.374 (0.268 to 0.507)	0.049 (0.035 to 0.067)	0.2 (0.07 to 0.32)
Eswatini	1.169 (0.843 to 1.617)	0.091 (0.065 to 0.125)	1.297 (0.914 to 1.8)	0.09 (0.063 to 0.124)	-0.03 (-0.05 to -0.02)
Ethiopia	104.211 (75.918 to 140.605)	0.131 (0.095 to 0.176)	199.807 (143.617 to 274.317)	0.129 (0.093 to 0.177)	0.09 (0.03 to 0.15)
Fiji	0.66 (0.466 to 0.906)	0.068 (0.048 to 0.093)	0.705 (0.5 to 0.978)	0.074 (0.053 to 0.103)	-0.08 (-0.22 to 0.07)
Finland	2.106 (1.485 to 2.896)	0.061 (0.043 to 0.084)	1.671 (1.18 to 2.317)	0.054 (0.038 to 0.075)	-0.59 (-0.72 to -0.46)
France	31.34 (22.384 to 43.121)	0.072 (0.051 to 0.099)	26.77 (19.079 to 36.712)	0.063 (0.045 to 0.086)	-0.49 (-0.58 to -0.39)
Gabon	1.459 (1.04 to 1.988)	0.106 (0.076 to 0.145)	1.977 (1.424 to 2.746)	0.088 (0.064 to 0.123)	-0.26 (-0.42 to -0.1)
Gambia	1.246 (0.896 to 1.661)	0.082 (0.059 to 0.109)	2.792 (2.011 to 3.86)	0.082 (0.059 to 0.113)	-0.16 (-0.3 to -0.02)
Georgia	2.446 (1.777 to 3.278)	0.05 (0.037 to 0.067)	1.293 (0.937 to 1.728)	0.051 (0.037 to 0.069)	0.11 (0.09 to 0.13)
Germany	27.478 (19.446 to 37.986)	0.059 (0.041 to 0.081)	21.039 (15.034 to 28.447)	0.049 (0.035 to 0.066)	-0.49 (-0.59 to -0.39)
Ghana	26.357 (19.131 to 35.583)	0.118 (0.086 to 0.159)	36.486 (26.448 to 50.047)	0.083 (0.06 to 0.113)	-1.42 (-1.6 to -1.24)
Greece	3.921 (2.745 to 5.443)	0.052 (0.036 to 0.072)	2.676 (1.901 to 3.659)	0.052 (0.037 to 0.071)	-0.18 (-0.34 to -0.02)
Greenland	0.016 (0.012 to 0.023)	0.034 (0.024 to 0.047)	0.016 (0.011 to 0.023)	0.039 (0.028 to 0.056)	0.5 (0.36 to 0.63)
Grenada	0.06 (0.044 to 0.081)	0.052 (0.038 to 0.071)	0.046 (0.032 to 0.064)	0.056 (0.04 to 0.078)	0.09 (0.04 to 0.13)

Guam	0.085 (0.061 to 0.117)	0.058 (0.042 to 0.08)	0.079 (0.056 to 0.11)	0.06 (0.043 to 0.084)	-0.03 (-0.09 to 0.02)
Guatemala	10.149 (7.201 to 13.763)	0.076 (0.054 to 0.104)	12.316 (8.733 to 17.043)	0.069 (0.049 to 0.095)	-0.18 (-0.3 to -0.06)
Guinea	9.558 (6.914 to 12.729)	0.108 (0.078 to 0.143)	16.244 (11.63 to 21.834)	0.08 (0.058 to 0.108)	-1.03 (-1.11 to -0.94)
Guinea-Bissau	1.603 (1.146 to 2.182)	0.101 (0.072 to 0.137)	2.397 (1.703 to 3.278)	0.079 (0.056 to 0.108)	-0.92 (-1 to -0.83)
Guyana	0.59 (0.42 to 0.811)	0.057 (0.041 to 0.079)	0.449 (0.317 to 0.621)	0.059 (0.042 to 0.082)	0.19 (0.11 to 0.27)
Haiti	5.931 (4.284 to 8.046)	0.066 (0.047 to 0.089)	10.385 (7.325 to 14.078)	0.068 (0.048 to 0.093)	0.22 (0.15 to 0.29)
Honduras	5.163 (3.726 to 7.075)	0.07 (0.051 to 0.096)	7.381 (5.177 to 10.148)	0.063 (0.044 to 0.086)	-0.22 (-0.33 to -0.11)
Hungary	4.413 (3.171 to 6.085)	0.056 (0.04 to 0.078)	3.082 (2.281 to 4.162)	0.061 (0.045 to 0.082)	0.14 (0.06 to 0.21)
Iceland	0.113 (0.081 to 0.156)	0.05 (0.035 to 0.068)	0.113 (0.08 to 0.153)	0.047 (0.033 to 0.064)	-0.26 (-0.28 to -0.24)
India	784.218 (561.855 to 1065.803)	0.071 (0.051 to 0.096)	947.22 (671.622 to 1317.888)	0.07 (0.05 to 0.097)	-0.05 (-0.06 to -0.04)
Indonesia	145.558 (103.818 to 200.348)	0.062 (0.044 to 0.085)	178.509 (127.378 to 246.427)	0.073 (0.052 to 0.101)	0.41 (0.34 to 0.48)
Iran (Islamic Republic of)	48.341 (34.731 to 65.05)	0.057 (0.041 to 0.076)	39.43 (28.135 to 53.873)	0.056 (0.04 to 0.077)	-0.06 (-0.16 to 0.03)
Iraq	19.24 (13.779 to 26.273)	0.069 (0.049 to 0.094)	31.304 (22.294 to 43.597)	0.066 (0.047 to 0.091)	-0.11 (-0.23 to 0.01)
Ireland	1.004 (0.703 to 1.429)	0.028 (0.02 to 0.04)	0.885 (0.623 to 1.239)	0.025 (0.017 to 0.035)	-0.55 (-0.73 to -0.38)
Israel	4.522 (3.283 to 6.168)	0.083 (0.061 to 0.114)	7.587 (5.604 to 9.991)	0.083 (0.061 to 0.11)	-0.07 (-0.11 to -0.03)
Italy	21.294 (15.09 to 29.763)	0.058 (0.041 to 0.081)	15.95 (11.362 to 22.209)	0.056 (0.04 to 0.078)	-0.21 (-0.25 to -0.17)
Jamaica	1.436 (1.035 to 1.952)	0.049 (0.035 to 0.066)	1.062 (0.75 to 1.465)	0.048 (0.034 to 0.066)	0.04 (-0.01 to 0.1)
Japan	39.957 (28.205 to 55.741)	0.044 (0.031 to 0.062)	26.299 (18.69 to 36.463)	0.046 (0.033 to 0.064)	0.11 (0.1 to 0.13)
Jordan	3.159 (2.307 to 4.275)	0.056 (0.041 to 0.075)	7.402 (5.241 to 10.288)	0.056 (0.039 to 0.077)	0.06 (-0.02 to 0.13)
Kazakhstan	9.461 (6.837 to 12.853)	0.053 (0.038 to 0.072)	9.965 (7.201 to 13.175)	0.055 (0.04 to 0.072)	0.2 (0.08 to 0.32)
Kenya	39.731 (28.606 to 54.044)	0.107 (0.077 to 0.145)	68.3 (48.747 to 94.816)	0.103 (0.073 to 0.143)	-0.21 (-0.29 to -0.13)
Kiribati	0.069 (0.05 to 0.092)	0.07 (0.05 to 0.093)	0.106 (0.075 to 0.146)	0.073 (0.052 to 0.101)	-0.05 (-0.13 to 0.03)
Kuwait	0.928 (0.678 to 1.242)	0.05 (0.037 to 0.067)	1.477 (1.05 to 2.033)	0.05 (0.035 to 0.069)	-0.07 (-0.15 to 0.02)

Kyrgyzstan	3.081 (2.251 to 4.065)	0.054 (0.039 to 0.071)	3.87 (2.803 to 5.2)	0.051 (0.037 to 0.068)	-0.14 (-0.24 to -0.04)
Lao People's Democratic Republic	4.945 (3.555 to 6.674)	0.081 (0.058 to 0.109)	6.993 (4.969 to 9.64)	0.086 (0.061 to 0.119)	0.18 (0.12 to 0.23)
Latvia	0.935 (0.691 to 1.245)	0.046 (0.034 to 0.061)	0.493 (0.355 to 0.662)	0.047 (0.034 to 0.063)	0.02 (-0.11 to 0.15)
Lebanon	1.86 (1.333 to 2.491)	0.051 (0.037 to 0.069)	2.298 (1.639 to 3.147)	0.051 (0.036 to 0.07)	-0.07 (-0.16 to 0.02)
Lesotho	1.999 (1.423 to 2.75)	0.088 (0.063 to 0.121)	2.033 (1.425 to 2.84)	0.09 (0.063 to 0.125)	0.01 (-0.01 to 0.03)
Liberia	5.461 (3.977 to 7.325)	0.148 (0.108 to 0.198)	7.109 (5.063 to 9.754)	0.094 (0.067 to 0.129)	-1.34 (-1.58 to -1.1)
Libya	3.841 (2.738 to 5.247)	0.062 (0.044 to 0.084)	3.582 (2.518 to 4.958)	0.063 (0.045 to 0.088)	0.13 (0 to 0.27)
Lithuania	1.34 (0.989 to 1.785)	0.045 (0.033 to 0.06)	0.684 (0.499 to 0.913)	0.047 (0.034 to 0.063)	0.1 (-0.04 to 0.24)
Luxembourg	0.137 (0.098 to 0.189)	0.057 (0.041 to 0.079)	0.181 (0.128 to 0.246)	0.049 (0.035 to 0.067)	-0.48 (-0.59 to -0.37)
Madagascar	20.237 (14.564 to 27.197)	0.111 (0.08 to 0.15)	44.861 (32.298 to 61.115)	0.111 (0.08 to 0.151)	0.09 (-0.02 to 0.19)
Malawi	17.533 (12.528 to 23.421)	0.116 (0.083 to 0.155)	32.54 (23.32 to 44.951)	0.114 (0.081 to 0.157)	0.04 (-0.08 to 0.17)
Malaysia	12.223 (8.631 to 16.556)	0.054 (0.038 to 0.073)	14.221 (10.012 to 19.575)	0.051 (0.036 to 0.071)	-0.22 (-0.29 to -0.16)
Maldives	0.235 (0.168 to 0.311)	0.068 (0.048 to 0.09)	0.212 (0.15 to 0.289)	0.06 (0.043 to 0.082)	-0.18 (-0.28 to -0.08)
Mali	15.112 (10.952 to 20.24)	0.113 (0.082 to 0.151)	30.633 (22.143 to 40.902)	0.08 (0.058 to 0.106)	-1.72 (-1.99 to -1.45)
Malta	0.181 (0.128 to 0.25)	0.058 (0.041 to 0.08)	0.115 (0.082 to 0.155)	0.051 (0.036 to 0.068)	-0.44 (-0.55 to -0.32)
Marshall Islands	0.045 (0.032 to 0.061)	0.062 (0.044 to 0.084)	0.041 (0.029 to 0.057)	0.065 (0.047 to 0.091)	-0.02 (-0.09 to 0.06)
Mauritania	2.902 (2.065 to 3.91)	0.095 (0.067 to 0.128)	4.354 (3.125 to 5.894)	0.069 (0.05 to 0.093)	-0.78 (-0.9 to -0.66)
Mauritius	1.042 (0.739 to 1.43)	0.089 (0.063 to 0.123)	0.668 (0.474 to 0.917)	0.083 (0.059 to 0.114)	-0.22 (-0.24 to -0.2)
Mexico	83.272 (59.852 to 113.671)	0.071 (0.051 to 0.097)	74.289 (52.884 to 102.487)	0.064 (0.045 to 0.088)	-0.13 (-0.27 to 0.02)
Micronesia (Federated States of)	0.1 (0.071 to 0.138)	0.064 (0.046 to 0.089)	0.076 (0.054 to 0.106)	0.068 (0.048 to 0.095)	0.02 (-0.05 to 0.08)
Monaco	0.008 (0.005 to 0.01)	0.058 (0.04 to 0.079)	0.01 (0.007 to 0.014)	0.054 (0.038 to 0.074)	-0.31 (-0.34 to -0.27)
Mongolia	1.479 (1.079 to 1.972)	0.048 (0.035 to 0.064)	2.103 (1.515 to 2.818)	0.059 (0.043 to 0.079)	0.58 (0.44 to 0.72)
Montenegro	0.274 (0.2 to 0.371)	0.047 (0.034 to 0.064)	0.202 (0.145 to 0.272)	0.05 (0.036 to 0.067)	0.07 (0.02 to 0.12)
Morocco	20.402 (14.61 to 27.393)	0.06 (0.043 to 0.081)	20.988 (14.806 to 28.553)	0.06 (0.042 to 0.082)	-0.09 (-0.19 to 0.02)

Mozambique	22.694 (16.403 to 30.927)	0.111 (0.08 to 0.151)	53.581 (38.193 to 74.013)	0.112 (0.08 to 0.154)	0.18 (0.08 to 0.28)
Myanmar	37.845 (26.977 to 52.614)	0.073 (0.052 to 0.102)	40.721 (28.871 to 55.857)	0.073 (0.051 to 0.099)	-0.11 (-0.15 to -0.07)
Namibia	2.278 (1.637 to 3.114)	0.111 (0.079 to 0.151)	2.972 (2.079 to 4.158)	0.103 (0.072 to 0.144)	-0.11 (-0.22 to 0)
Nauru	0.009 (0.007 to 0.013)	0.067 (0.048 to 0.091)	0.01 (0.007 to 0.013)	0.07 (0.05 to 0.097)	-0.04 (-0.1 to 0.02)
Nepal	17.415 (12.554 to 23.51)	0.062 (0.045 to 0.084)	22.969 (16.122 to 31.864)	0.068 (0.048 to 0.095)	0.23 (0.14 to 0.32)
Netherlands	7.497 (5.35 to 10.278)	0.072 (0.052 to 0.099)	6.924 (4.913 to 9.457)	0.069 (0.049 to 0.095)	-0.09 (-0.16 to -0.01)
New Zealand	1.497 (1.071 to 2.063)	0.05 (0.036 to 0.069)	1.841 (1.308 to 2.541)	0.052 (0.037 to 0.072)	0.11 (0.08 to 0.14)
Nicaragua	4.433 (3.176 to 5.998)	0.073 (0.052 to 0.099)	4.528 (3.212 to 6.234)	0.064 (0.046 to 0.089)	-0.11 (-0.29 to 0.06)
Niger	13.074 (9.418 to 17.546)	0.1 (0.072 to 0.134)	32.418 (23.679 to 42.764)	0.077 (0.056 to 0.101)	-1.08 (-1.16 to -0.99)
Nigeria	124.459 (90.076 to 167.241)	0.095 (0.069 to 0.127)	293.572 (211.043 to 398.395)	0.085 (0.061 to 0.115)	-0.66 (-0.78 to -0.55)
Niue	0.002 (0.001 to 0.002)	0.059 (0.042 to 0.082)	0.001 (0.001 to 0.001)	0.062 (0.044 to 0.087)	-0.01 (-0.08 to 0.07)
North Macedonia	1.014 (0.73 to 1.386)	0.054 (0.039 to 0.074)	0.705 (0.507 to 0.962)	0.058 (0.042 to 0.08)	0.24 (0.18 to 0.3)
Northern Mariana Islands	0.024 (0.017 to 0.033)	0.055 (0.039 to 0.075)	0.023 (0.016 to 0.032)	0.056 (0.039 to 0.078)	-0.06 (-0.1 to -0.01)
Norway	1.823 (1.313 to 2.508)	0.061 (0.044 to 0.083)	2.008 (1.434 to 2.753)	0.06 (0.043 to 0.082)	-0.09 (-0.11 to -0.07)
Oman	1.618 (1.154 to 2.186)	0.06 (0.043 to 0.081)	2.446 (1.734 to 3.339)	0.061 (0.043 to 0.083)	0 (-0.09 to 0.09)
Pakistan	108.927 (78.665 to 148.303)	0.066 (0.048 to 0.09)	211.005 (150.742 to 288.807)	0.071 (0.051 to 0.098)	-0.06 (-0.17 to 0.04)
Palau	0.01 (0.007 to 0.014)	0.061 (0.043 to 0.084)	0.008 (0.005 to 0.011)	0.064 (0.045 to 0.089)	-0.05 (-0.12 to 0.01)
Palestine	1.659 (1.222 to 2.207)	0.051 (0.038 to 0.068)	3.606 (2.588 to 4.96)	0.055 (0.04 to 0.076)	-0.19 (-0.39 to 0.01)
Panama	1.919 (1.362 to 2.665)	0.065 (0.046 to 0.091)	2.366 (1.686 to 3.243)	0.058 (0.041 to 0.08)	-0.26 (-0.36 to -0.17)
Papua New Guinea	4.071 (2.939 to 5.472)	0.071 (0.051 to 0.095)	9.683 (6.918 to 13.205)	0.073 (0.052 to 0.1)	-0.08 (-0.15 to -0.01)
Paraguay	2.782 (1.997 to 3.725)	0.05 (0.036 to 0.067)	3.699 (2.629 to 5.093)	0.051 (0.036 to 0.071)	0.27 (0.1 to 0.43)
Peru	19.31 (13.687 to 26.445)	0.067 (0.048 to 0.092)	23.423 (16.737 to 31.76)	0.069 (0.049 to 0.094)	0.17 (0.1 to 0.24)
Philippines	66.285 (47.528 to 90.476)	0.076 (0.055 to 0.104)	93.819 (66.931 to 129.816)	0.077 (0.055 to 0.107)	0.11 (0.04 to 0.18)

Poland	18.331 (13.197 to 24.951)	0.054 (0.039 to 0.074)	11.887 (8.549 to 16.1)	0.057 (0.041 to 0.077)	0.12 (0.07 to 0.18)
Portugal	3.049 (2.119 to 4.337)	0.038 (0.026 to 0.054)	1.924 (1.351 to 2.744)	0.037 (0.026 to 0.053)	-0.09 (-0.14 to -0.03)
Puerto Rico	1.685 (1.198 to 2.306)	0.047 (0.033 to 0.064)	0.855 (0.593 to 1.207)	0.048 (0.034 to 0.068)	0.14 (0.08 to 0.19)
Qatar	0.209 (0.15 to 0.281)	0.051 (0.036 to 0.068)	0.812 (0.588 to 1.086)	0.05 (0.036 to 0.067)	-0.07 (-0.15 to 0.01)
Republic of Korea	17.33 (12.306 to 23.939)	0.04 (0.029 to 0.056)	9.203 (6.371 to 13.078)	0.041 (0.028 to 0.058)	0.07 (0.03 to 0.11)
Republic of Moldova	2.069 (1.51 to 2.758)	0.048 (0.035 to 0.064)	1.033 (0.746 to 1.43)	0.055 (0.04 to 0.076)	0.31 (0.18 to 0.44)
Romania	9.841 (7.099 to 13.3)	0.049 (0.035 to 0.066)	5.915 (4.219 to 7.985)	0.054 (0.039 to 0.073)	0.31 (0.25 to 0.37)
Russian Federation	62.87 (45.866 to 84.879)	0.051 (0.038 to 0.069)	49.366 (35.58 to 67.308)	0.054 (0.039 to 0.074)	0.05 (-0.13 to 0.24)
Rwanda	13.863 (10.021 to 18.514)	0.124 (0.09 to 0.165)	19.991 (14.269 to 27.495)	0.115 (0.082 to 0.158)	-0.01 (-0.19 to 0.17)
Saint Kitts and Nevis	0.026 (0.018 to 0.036)	0.053 (0.037 to 0.072)	0.022 (0.016 to 0.031)	0.059 (0.041 to 0.082)	0.34 (0.27 to 0.41)
Saint Lucia	0.096 (0.069 to 0.131)	0.053 (0.038 to 0.073)	0.06 (0.043 to 0.083)	0.053 (0.038 to 0.074)	-0.05 (-0.22 to 0.11)
Saint Vincent and the Grenadines	0.083 (0.058 to 0.113)	0.057 (0.04 to 0.078)	0.051 (0.036 to 0.071)	0.056 (0.039 to 0.078)	0 (-0.11 to 0.11)
Samoa	0.139 (0.1 to 0.19)	0.056 (0.04 to 0.077)	0.161 (0.116 to 0.221)	0.059 (0.042 to 0.081)	0 (-0.11 to 0.1)
San Marino	0.009 (0.007 to 0.013)	0.057 (0.041 to 0.081)	0.009 (0.006 to 0.012)	0.053 (0.037 to 0.074)	-0.35 (-0.37 to -0.32)
Sao Tome and Principe	0.141 (0.102 to 0.19)	0.074 (0.054 to 0.101)	0.179 (0.127 to 0.247)	0.065 (0.046 to 0.09)	-0.66 (-0.76 to -0.56)
Saudi Arabia	13.031 (9.476 to 17.24)	0.059 (0.043 to 0.078)	14.581 (10.38 to 20.222)	0.053 (0.038 to 0.074)	-0.47 (-0.58 to -0.36)
Senegal	18.018 (13.182 to 24.042)	0.15 (0.11 to 0.2)	19.007 (13.606 to 25.824)	0.087 (0.062 to 0.118)	-1.47 (-1.6 to -1.35)
Serbia	3.246 (2.338 to 4.374)	0.041 (0.03 to 0.056)	2.638 (1.866 to 3.648)	0.052 (0.037 to 0.072)	0.72 (0.56 to 0.89)
Seychelles	0.046 (0.032 to 0.063)	0.054 (0.038 to 0.075)	0.043 (0.031 to 0.059)	0.053 (0.038 to 0.072)	-0.13 (-0.17 to -0.08)
Sierra Leone	6.917 (4.994 to 9.106)	0.116 (0.084 to 0.153)	10.008 (7.185 to 13.685)	0.081 (0.058 to 0.111)	-1.56 (-1.72 to -1.41)
Singapore	1.005 (0.707 to 1.396)	0.04 (0.028 to 0.056)	1.228 (0.865 to 1.661)	0.044 (0.031 to 0.059)	0.29 (0.26 to 0.32)
Slovakia	2.2 (1.617 to 2.933)	0.046 (0.034 to 0.062)	1.827 (1.324 to 2.454)	0.06 (0.044 to 0.081)	0.77 (0.63 to 0.9)
Slovenia	0.751 (0.544 to 1.029)	0.05 (0.036 to 0.068)	0.594 (0.431 to 0.815)	0.054 (0.039 to 0.074)	0.25 (0.17 to 0.32)
Solomon Islands	0.345 (0.246 to 0.469)	0.066 (0.047 to 0.089)	0.611 (0.441 to 0.84)	0.068 (0.049 to 0.094)	-0.05 (-0.11 to 0.01)

Somalia	14.25 (10.312 to 19.13)	0.111 (0.081 to 0.149)	37.493 (26.959 to 50.51)	0.108 (0.078 to 0.146)	0.14 (0.04 to 0.24)
South Africa	45.965 (32.852 to 63.442)	0.096 (0.069 to 0.133)	49.216 (35.03 to 68.76)	0.091 (0.065 to 0.128)	-0.07 (-0.15 to 0.01)
South Sudan	9.712 (6.968 to 13.243)	0.109 (0.078 to 0.149)	16.855 (12.026 to 23.069)	0.114 (0.081 to 0.155)	0.36 (0.23 to 0.49)
Spain	14.587 (10.209 to 20.508)	0.048 (0.034 to 0.068)	11.264 (7.982 to 15.634)	0.047 (0.034 to 0.066)	-0.19 (-0.26 to -0.11)
Sri Lanka	13.804 (9.752 to 19.111)	0.071 (0.05 to 0.098)	12.768 (8.941 to 17.851)	0.068 (0.048 to 0.096)	-0.15 (-0.2 to -0.1)
Sudan	20.627 (14.737 to 27.768)	0.069 (0.049 to 0.093)	38.174 (26.938 to 52.301)	0.066 (0.047 to 0.09)	-0.17 (-0.27 to -0.07)
Suriname	0.291 (0.207 to 0.4)	0.063 (0.045 to 0.087)	0.33 (0.233 to 0.465)	0.064 (0.045 to 0.091)	0.13 (0.06 to 0.2)
Sweden	5.879 (4.245 to 7.922)	0.103 (0.075 to 0.139)	7.005 (5.039 to 9.555)	0.107 (0.077 to 0.146)	0.07 (0.02 to 0.11)
Switzerland	4.641 (3.362 to 6.302)	0.109 (0.079 to 0.148)	5.007 (3.592 to 6.721)	0.105 (0.075 to 0.141)	0.02 (-0.05 to 0.09)
Syrian Arab Republic	13.877 (9.962 to 18.565)	0.07 (0.05 to 0.093)	10.538 (7.314 to 14.793)	0.072 (0.05 to 0.101)	-0.08 (-0.4 to 0.23)
Taiwan (Province of China)	9.394 (6.651 to 13.011)	0.048 (0.034 to 0.066)	5.402 (3.864 to 7.538)	0.049 (0.035 to 0.069)	0.07 (0.05 to 0.09)
Tajikistan	4.399 (3.206 to 5.75)	0.057 (0.041 to 0.074)	6.972 (5.024 to 9.331)	0.058 (0.042 to 0.077)	0.04 (0.03 to 0.06)
Thailand	38.641 (27.124 to 53.617)	0.063 (0.044 to 0.087)	23.103 (16.149 to 32.815)	0.063 (0.044 to 0.089)	-0.07 (-0.15 to 0)
Timor-Leste	0.792 (0.575 to 1.06)	0.072 (0.052 to 0.096)	1.309 (0.93 to 1.802)	0.071 (0.05 to 0.097)	-0.07 (-0.11 to -0.02)
Togo	6.512 (4.713 to 8.832)	0.112 (0.081 to 0.152)	8.681 (6.224 to 11.788)	0.077 (0.055 to 0.104)	-1.5 (-1.8 to -1.21)
Tokelau	0.001 (0.001 to 0.002)	0.063 (0.045 to 0.086)	0.001 (0.001 to 0.001)	0.06 (0.042 to 0.085)	-0.52 (-0.65 to -0.39)
Tonga	0.083 (0.06 to 0.11)	0.057 (0.042 to 0.076)	0.079 (0.057 to 0.106)	0.059 (0.042 to 0.079)	-0.07 (-0.13 to -0.01)
Trinidad and Tobago	0.783 (0.559 to 1.082)	0.056 (0.04 to 0.077)	0.525 (0.37 to 0.722)	0.053 (0.038 to 0.073)	-0.12 (-0.23 to -0.01)
Tunisia	6.11 (4.367 to 8.325)	0.057 (0.04 to 0.077)	5.298 (3.769 to 7.222)	0.055 (0.039 to 0.074)	-0.15 (-0.24 to -0.07)
Turkey	40.07 (28.903 to 53.939)	0.056 (0.04 to 0.075)	42.112 (30.262 to 58.231)	0.063 (0.045 to 0.087)	0.06 (-0.26 to 0.38)
Turkmenistan	2.946 (2.122 to 3.945)	0.058 (0.042 to 0.077)	3.124 (2.236 to 4.256)	0.059 (0.042 to 0.08)	0.02 (-0.04 to 0.08)
Tuvalu	0.008 (0.006 to 0.01)	0.066 (0.048 to 0.088)	0.009 (0.007 to 0.013)	0.071 (0.051 to 0.096)	0.05 (-0.02 to 0.12)
Uganda	49.845 (35.851 to 66.774)	0.179 (0.129 to 0.24)	82.274 (59.672 to 111.498)	0.122 (0.088 to 0.165)	-0.71 (-1.01 to -0.41)
Ukraine	20.655 (14.956 to	0.051 (0.037 to 0.07)	13.065 (9.162 to	0.057 (0.04 to 0.081)	0.33 (0.2 to 0.47)

	28.303)		18.454)		
United Arab Emirates	1.004 (0.733 to 1.331)	0.053 (0.038 to 0.07)	2.407 (1.735 to 3.269)	0.053 (0.038 to 0.071)	-0.15 (-0.27 to -0.02)
United Kingdom	15.206 (10.909 to 20.974)	0.038 (0.027 to 0.052)	15.082 (10.734 to 20.968)	0.036 (0.025 to 0.05)	-0.31 (-0.36 to -0.26)
United Republic of Tanzania	50.221 (36.207 to 68.279)	0.124 (0.09 to 0.169)	82.347 (58.631 to 111.396)	0.099 (0.07 to 0.134)	-0.84 (-0.95 to -0.73)
United States of America	68.466 (48.998 to 93.882)	0.034 (0.024 to 0.047)	81.815 (57.776 to 113.931)	0.037 (0.026 to 0.052)	0.24 (0.22 to 0.26)
United States Virgin Islands	0.056 (0.04 to 0.077)	0.049 (0.035 to 0.068)	0.025 (0.018 to 0.035)	0.051 (0.036 to 0.071)	0.12 (0.06 to 0.18)
Uruguay	1.049 (0.758 to 1.44)	0.036 (0.026 to 0.049)	0.942 (0.667 to 1.283)	0.039 (0.027 to 0.053)	0.38 (0.3 to 0.45)
Uzbekistan	15.4 (11.277 to 20.041)	0.053 (0.039 to 0.069)	19.811 (14.419 to 26.636)	0.058 (0.042 to 0.078)	0.07 (-0.04 to 0.19)
Vanuatu	0.133 (0.096 to 0.179)	0.059 (0.042 to 0.079)	0.244 (0.175 to 0.334)	0.061 (0.044 to 0.084)	-0.06 (-0.13 to 0.01)
Venezuela (Bolivarian Republic of)	16.001 (11.546 to 21.614)	0.065 (0.047 to 0.088)	15.099 (10.568 to 21.082)	0.064 (0.045 to 0.089)	-0.11 (-0.27 to 0.05)
Viet Nam	49.754 (35.74 to 67.371)	0.055 (0.039 to 0.074)	45.952 (32.656 to 62.275)	0.054 (0.038 to 0.073)	-0.1 (-0.14 to -0.06)
Yemen	21.112 (15.143 to 28.283)	0.093 (0.067 to 0.124)	38.284 (27.354 to 52.696)	0.081 (0.058 to 0.112)	-0.76 (-0.9 to -0.61)
Zambia	15.434 (11.227 to 20.809)	0.121 (0.088 to 0.164)	36.266 (26.134 to 49.615)	0.128 (0.092 to 0.176)	0.48 (0.36 to 0.59)
Zimbabwe	16.625 (11.824 to 23.032)	0.102 (0.073 to 0.141)	18.959 (13.555 to 26.016)	0.088 (0.063 to 0.121)	-0.15 (-0.32 to 0.02)

Abbreviations: PAH, pulmonary arterial hypertension; ASIR, age-standardized incidence rate; EAPC, estimated annual percentage change; UIs, uncertainty intervals; CI, confidence interval.

eTable 4 Death of PAH among children and adolescents between 1990 and 2021 at the national level.

Location	1990		2021		EAPC (95 % CI) 1990-2021
	Number (95 % UIs)	ASMR (95 % UIs)	Number (95 % UIs)	ASMR (95 % UIs)	
Afghanistan	20.556 (9.794 to 33.877)	0.136 (0.065 to 0.225)	66.038 (31.608 to 101.474)	0.137 (0.066 to 0.211)	0.58 (0.3 to 0.86)
Albania	1.841 (0.902 to 2.455)	0.047 (0.023 to 0.063)	0.271 (0.172 to 0.419)	0.016 (0.01 to 0.025)	-2.7 (-2.97 to -2.42)
Algeria	29.602 (17.032 to 51.245)	0.081 (0.047 to 0.14)	17.925 (11.09 to 25.583)	0.04 (0.025 to 0.058)	-0.77 (-1.28 to -0.26)
American Samoa	0.007 (0.005 to 0.014)	0.011 (0.008 to 0.022)	0.004 (0.002 to 0.009)	0.008 (0.005 to 0.017)	-1.02 (-1.14 to -0.89)
Andorra	0.014 (0.007 to 0.022)	0.038 (0.02 to 0.06)	0.003 (0.002 to 0.004)	0.007 (0.004 to 0.01)	-5.51 (-5.77 to -5.24)
Angola	9.242 (3.402 to 24.928)	0.059 (0.022 to 0.16)	10.21 (6.299 to 18.834)	0.02 (0.012 to 0.037)	-3.26 (-3.63 to -2.89)

Antigua and Barbuda	0.011 (0.009 to 0.015)	0.017 (0.013 to 0.023)	0.002 (0.002 to 0.003)	0.004 (0.003 to 0.004)	-6.16 (-6.83 to -5.49)
Argentina	37.067 (32.185 to 42.687)	0.105 (0.091 to 0.121)	6.067 (5.098 to 7.014)	0.016 (0.014 to 0.019)	-5.53 (-5.81 to -5.24)
Armenia	0.488 (0.422 to 0.592)	0.014 (0.012 to 0.016)	0.034 (0.03 to 0.038)	0.002 (0.001 to 0.002)	-6.91 (-8.05 to -5.76)
Australia	4.12 (3.205 to 5.203)	0.029 (0.023 to 0.037)	1.407 (1.174 to 1.699)	0.008 (0.007 to 0.01)	-3.75 (-4.33 to -3.18)
Austria	0.746 (0.659 to 0.846)	0.015 (0.013 to 0.017)	0.29 (0.256 to 0.328)	0.006 (0.005 to 0.007)	-2.39 (-3.09 to -1.69)
Azerbaijan	4.128 (2.242 to 6.237)	0.049 (0.026 to 0.074)	2.011 (1.465 to 2.773)	0.024 (0.018 to 0.034)	-2.21 (-2.53 to -1.88)
Bahamas	0.449 (0.377 to 0.538)	0.154 (0.13 to 0.185)	0.095 (0.074 to 0.122)	0.031 (0.024 to 0.039)	-6.15 (-6.72 to -5.57)
Bahrain	0.222 (0.149 to 0.397)	0.041 (0.027 to 0.073)	0.165 (0.08 to 0.268)	0.015 (0.007 to 0.025)	-1.62 (-2.68 to -0.55)
Bangladesh	92.61 (33.462 to 163.856)	0.057 (0.021 to 0.1)	37.696 (21.922 to 54.453)	0.023 (0.013 to 0.033)	-2.52 (-2.68 to -2.37)
Barbados	0.292 (0.246 to 0.343)	0.127 (0.107 to 0.149)	0.053 (0.04 to 0.07)	0.03 (0.022 to 0.039)	-5.47 (-6.02 to -4.93)
Belarus	0.968 (0.625 to 1.491)	0.011 (0.007 to 0.018)	0.212 (0.165 to 0.262)	0.004 (0.003 to 0.005)	-2.76 (-3.05 to -2.46)
Belgium	1.956 (1.449 to 2.643)	0.029 (0.022 to 0.04)	0.74 (0.631 to 0.854)	0.011 (0.009 to 0.012)	-3.13 (-3.46 to -2.8)
Belize	0.437 (0.362 to 0.518)	0.158 (0.13 to 0.187)	0.075 (0.062 to 0.09)	0.016 (0.013 to 0.02)	-7.86 (-8.34 to -7.38)
Benin	3.729 (1.631 to 8.343)	0.048 (0.021 to 0.108)	6.072 (3.814 to 9.343)	0.03 (0.019 to 0.046)	-1.07 (-1.25 to -0.88)
Bermuda	0.064 (0.053 to 0.076)	0.148 (0.124 to 0.177)	0.008 (0.006 to 0.01)	0.025 (0.019 to 0.033)	-6.34 (-6.67 to -6)
Bhutan	0.784 (0.295 to 1.216)	0.085 (0.032 to 0.132)	0.217 (0.134 to 0.34)	0.032 (0.019 to 0.049)	-3.39 (-3.62 to -3.16)
Bolivia (Plurinational State of)	15 (6.047 to 26.285)	0.166 (0.067 to 0.29)	6.247 (4.105 to 9.108)	0.051 (0.033 to 0.074)	-3.63 (-3.69 to -3.58)
Bosnia and Herzegovina	0.371 (0.213 to 0.696)	0.009 (0.005 to 0.017)	0.103 (0.065 to 0.18)	0.006 (0.004 to 0.01)	-1.37 (-1.63 to -1.11)
Botswana	0.339 (0.229 to 0.508)	0.017 (0.011 to 0.025)	0.368 (0.253 to 0.538)	0.015 (0.01 to 0.022)	0.17 (-0.14 to 0.48)
Brazil	103.237 (90.715 to 117.12)	0.057 (0.05 to 0.064)	47.974 (40.223 to 56.324)	0.028 (0.023 to 0.033)	-1.79 (-2.47 to -1.11)
Brunei Darussalam	0.363 (0.19 to 0.492)	0.117 (0.061 to 0.158)	0.181 (0.106 to 0.255)	0.052 (0.03 to 0.073)	-2.53 (-2.67 to -2.4)
Bulgaria	0.618 (0.522 to 0.726)	0.01 (0.008 to 0.011)	0.127 (0.099 to 0.166)	0.004 (0.003 to 0.005)	-2.2 (-2.72 to -1.67)
Burkina Faso	9.125 (3.876 to 18.505)	0.06 (0.025 to 0.121)	15.263 (8.732 to 24.306)	0.044 (0.025 to 0.07)	-0.56 (-0.74 to -0.39)
Burundi	8.005 (3.94 to 18.138)	0.094 (0.046 to 0.213)	6.073 (3.078 to 11.124)	0.031 (0.016 to 0.057)	-3.04 (-3.37 to -2.7)

Cabo Verde	0.241 (0.12 to 0.44)	0.046 (0.023 to 0.084)	0.07 (0.026 to 0.146)	0.013 (0.005 to 0.028)	-4.19 (-4.37 to -4)
Cambodia	5.234 (2.148 to 14.124)	0.034 (0.014 to 0.092)	3.139 (1.849 to 5.681)	0.018 (0.01 to 0.032)	-2.14 (-2.22 to -2.06)
Cameroon	6.006 (3.035 to 13.101)	0.037 (0.019 to 0.082)	12.211 (8.198 to 19.591)	0.027 (0.018 to 0.043)	-0.35 (-0.81 to 0.1)
Canada	10.26 (9.333 to 11.126)	0.05 (0.045 to 0.054)	2.865 (2.442 to 3.365)	0.013 (0.011 to 0.015)	-5.02 (-5.55 to -4.49)
Central African Republic	2.53 (1.086 to 6.19)	0.062 (0.027 to 0.153)	2.807 (1.602 to 5.242)	0.036 (0.02 to 0.067)	-1.59 (-1.7 to -1.49)
Chad	5.472 (1.759 to 12.393)	0.057 (0.018 to 0.13)	15.208 (7.048 to 29.373)	0.051 (0.024 to 0.099)	-0.14 (-0.31 to 0.03)
Chile	5.851 (5.226 to 6.473)	0.041 (0.037 to 0.045)	1.726 (1.471 to 1.986)	0.013 (0.011 to 0.015)	-3.36 (-3.7 to -3.03)
China	700.96 (479.399 to 1017.042)	0.058 (0.04 to 0.085)	117.295 (72.099 to 179.97)	0.013 (0.008 to 0.02)	-3.44 (-4.02 to -2.85)
Colombia	11.447 (9.283 to 14.853)	0.028 (0.023 to 0.036)	3.665 (2.774 to 4.849)	0.009 (0.007 to 0.012)	-3.18 (-3.62 to -2.74)
Comoros	0.517 (0.251 to 0.967)	0.072 (0.035 to 0.135)	0.218 (0.128 to 0.436)	0.026 (0.015 to 0.051)	-3.59 (-3.85 to -3.32)
Congo	1.173 (0.6 to 2.834)	0.033 (0.017 to 0.079)	0.835 (0.555 to 1.556)	0.012 (0.008 to 0.023)	-3.15 (-3.54 to -2.77)
Cook Islands	0.01 (0.006 to 0.017)	0.042 (0.027 to 0.074)	0.003 (0.001 to 0.007)	0.022 (0.007 to 0.05)	-3.86 (-4.42 to -3.29)
Costa Rica	1.427 (1.294 to 1.572)	0.037 (0.034 to 0.041)	0.235 (0.196 to 0.28)	0.006 (0.005 to 0.008)	-5 (-5.65 to -4.34)
Côte d'Ivoire	8.926 (4.516 to 18.966)	0.048 (0.024 to 0.101)	13.013 (8.547 to 20.831)	0.033 (0.022 to 0.054)	-0.55 (-0.78 to -0.33)
Croatia	0.159 (0.142 to 0.175)	0.004 (0.004 to 0.005)	0.021 (0.018 to 0.025)	0.001 (0.001 to 0.001)	-3.9 (-4.7 to -3.1)
Cuba	2.098 (1.756 to 2.41)	0.021 (0.018 to 0.024)	0.282 (0.238 to 0.333)	0.004 (0.004 to 0.005)	-5.71 (-6.25 to -5.16)
Cyprus	1.129 (0.697 to 1.593)	0.161 (0.1 to 0.227)	0.18 (0.12 to 0.254)	0.023 (0.016 to 0.033)	-5.47 (-5.83 to -5.12)
Czechia	1.547 (1.211 to 2.005)	0.019 (0.015 to 0.024)	0.537 (0.425 to 0.657)	0.009 (0.007 to 0.011)	-2.48 (-2.71 to -2.26)
Democratic People's Republic of Korea	5.737 (3.61 to 10.961)	0.027 (0.017 to 0.052)	2.289 (1.191 to 4.138)	0.013 (0.007 to 0.023)	-2.25 (-2.48 to -2.03)
Democratic Republic of the Congo	30.089 (13.969 to 61.38)	0.051 (0.024 to 0.105)	21.757 (12.136 to 36.811)	0.017 (0.009 to 0.028)	-3.16 (-3.45 to -2.87)
Denmark	1.321 (1.137 to 1.49)	0.039 (0.034 to 0.044)	0.413 (0.355 to 0.477)	0.012 (0.01 to 0.014)	-3.92 (-4.38 to -3.47)
Djibouti	0.313 (0.136 to 0.732)	0.052 (0.022 to 0.121)	0.324 (0.163 to 0.663)	0.023 (0.011 to 0.046)	-2.65 (-2.98 to -2.31)
Dominica	0.018 (0.011 to 0.025)	0.021 (0.012 to 0.029)	0.005 (0.003 to 0.008)	0.01 (0.006 to 0.015)	-2.94 (-3.32 to -2.56)
Dominican Republic	7.593 (3.523 to	0.08 (0.037 to 0.118)	2.559 (1.646 to 4.046)	0.024 (0.016 to 0.038)	-4.39 (-4.68 to -4.1)

11.143)

Ecuador	7.07 (5.626 to 9.44)	0.053 (0.042 to 0.07)	4.338 (3.369 to 5.523)	0.024 (0.019 to 0.031)	-1.94 (-2.57 to -1.31)
Egypt	609.868 (215.68 to 920.157)	0.808 (0.286 to 1.219)	142.724 (105.914 to 192.208)	0.113 (0.084 to 0.153)	-5.42 (-5.78 to -5.06)
El Salvador	5.269 (2.892 to 7.579)	0.071 (0.039 to 0.102)	0.81 (0.511 to 1.497)	0.013 (0.008 to 0.023)	-6 (-6.3 to -5.69)
Equatorial Guinea	0.31 (0.125 to 0.696)	0.048 (0.019 to 0.107)	0.241 (0.139 to 0.419)	0.012 (0.007 to 0.02)	-5.13 (-5.4 to -4.86)
Eritrea	3.524 (1.624 to 8.529)	0.066 (0.031 to 0.16)	2.661 (1.44 to 5.548)	0.031 (0.017 to 0.064)	-2.44 (-2.57 to -2.3)
Estonia	0.052 (0.046 to 0.059)	0.004 (0.004 to 0.005)	0.009 (0.008 to 0.011)	0.001 (0.001 to 0.001)	-2.44 (-4.25 to -0.59)
Eswatini	0.273 (0.173 to 0.4)	0.021 (0.013 to 0.031)	0.239 (0.158 to 0.331)	0.017 (0.011 to 0.023)	-0.29 (-0.48 to -0.09)
Ethiopia	43.446 (19.612 to 102.348)	0.055 (0.025 to 0.128)	33.105 (17.408 to 72.769)	0.021 (0.011 to 0.047)	-3.33 (-3.49 to -3.16)
Fiji	0.199 (0.125 to 0.378)	0.021 (0.013 to 0.039)	0.17 (0.093 to 0.347)	0.018 (0.01 to 0.037)	-0.35 (-0.51 to -0.19)
Finland	0.366 (0.316 to 0.431)	0.011 (0.009 to 0.013)	0.16 (0.138 to 0.183)	0.005 (0.004 to 0.006)	-2.12 (-2.87 to -1.37)
France	11.044 (8.729 to 14.8)	0.025 (0.02 to 0.034)	5.862 (5.122 to 6.668)	0.014 (0.012 to 0.016)	-2.01 (-2.38 to -1.65)
Gabon	0.322 (0.182 to 0.669)	0.023 (0.013 to 0.049)	0.221 (0.136 to 0.362)	0.01 (0.006 to 0.016)	-2.25 (-2.56 to -1.95)
Gambia	0.594 (0.309 to 1.315)	0.039 (0.02 to 0.087)	0.801 (0.484 to 1.457)	0.023 (0.014 to 0.043)	-1.68 (-2 to -1.37)
Georgia	1.097 (0.919 to 1.338)	0.023 (0.019 to 0.028)	0.575 (0.455 to 0.698)	0.023 (0.018 to 0.028)	0.73 (-1.1 to 2.6)
Germany	17.53 (14.837 to 20.373)	0.037 (0.032 to 0.043)	6.422 (5.561 to 7.264)	0.015 (0.013 to 0.017)	-2.37 (-3.02 to -1.72)
Ghana	6.42 (3.475 to 15.334)	0.029 (0.016 to 0.069)	5.132 (3.156 to 9.582)	0.012 (0.007 to 0.022)	-2.62 (-2.77 to -2.47)
Greece	1.925 (1.736 to 2.104)	0.025 (0.023 to 0.028)	0.928 (0.789 to 1.07)	0.018 (0.015 to 0.021)	-1.06 (-1.61 to -0.51)
Greenland	0.117 (0.031 to 0.187)	0.242 (0.064 to 0.386)	0.014 (0.008 to 0.02)	0.034 (0.019 to 0.049)	-6.62 (-7.1 to -6.15)
Grenada	0.15 (0.12 to 0.18)	0.131 (0.105 to 0.158)	0.018 (0.015 to 0.022)	0.022 (0.019 to 0.027)	-6.06 (-6.55 to -5.57)
Guam	0.022 (0.015 to 0.043)	0.015 (0.01 to 0.029)	0.013 (0.007 to 0.03)	0.01 (0.005 to 0.023)	-0.08 (-0.53 to 0.38)
Guatemala	7.225 (6.109 to 9.103)	0.054 (0.046 to 0.069)	1.605 (1.281 to 2.004)	0.009 (0.007 to 0.011)	-6.48 (-6.94 to -6.02)
Guinea	6.517 (2.321 to 15.473)	0.073 (0.026 to 0.174)	8.379 (5.03 to 13.453)	0.042 (0.025 to 0.067)	-1.21 (-1.45 to -0.98)
Guinea-Bissau	0.983 (0.368 to 2.288)	0.062 (0.023 to 0.144)	0.948 (0.564 to 1.597)	0.031 (0.019 to 0.053)	-1.73 (-2.11 to -1.35)
Guyana	0.659 (0.551 to 0.793)	0.064 (0.053 to 0.077)	0.401 (0.305 to 0.524)	0.053 (0.04 to 0.069)	-2.48 (-3.85 to -1.09)

Haiti	36.812 (9.949 to 71.751)	0.407 (0.11 to 0.793)	28.368 (9.298 to 53.325)	0.187 (0.061 to 0.352)	-2.19 (-2.4 to -1.98)
Honduras	2.266 (1.3 to 3.29)	0.031 (0.018 to 0.045)	1.175 (0.648 to 2.158)	0.01 (0.006 to 0.018)	-3.64 (-3.75 to -3.53)
Hungary	0.921 (0.802 to 1.052)	0.012 (0.01 to 0.013)	0.146 (0.117 to 0.182)	0.003 (0.002 to 0.004)	-3.17 (-4.01 to -2.32)
Iceland	0.059 (0.052 to 0.067)	0.026 (0.023 to 0.029)	0.025 (0.021 to 0.03)	0.011 (0.009 to 0.013)	-3.34 (-4.09 to -2.59)
India	727.681 (298.424 to 1057.266)	0.066 (0.027 to 0.095)	329.703 (209.383 to 501.603)	0.024 (0.015 to 0.037)	-2.93 (-3.1 to -2.75)
Indonesia	61.296 (26.657 to 181.183)	0.026 (0.011 to 0.077)	40.473 (23.845 to 85.097)	0.017 (0.01 to 0.035)	-1.45 (-1.6 to -1.31)
Iran (Islamic Republic of)	232.63 (134.964 to 379.799)	0.273 (0.158 to 0.446)	27.025 (20.595 to 39.34)	0.039 (0.029 to 0.056)	-4.51 (-5.12 to -3.9)
Iraq	21.716 (9.447 to 32.396)	0.078 (0.034 to 0.116)	9.881 (5.157 to 14.989)	0.021 (0.011 to 0.031)	-3.98 (-4.2 to -3.75)
Ireland	0.492 (0.446 to 0.54)	0.014 (0.012 to 0.015)	0.234 (0.197 to 0.271)	0.007 (0.006 to 0.008)	-2.38 (-3.38 to -1.38)
Israel	3.926 (3.178 to 5.167)	0.072 (0.059 to 0.095)	1.599 (1.376 to 1.842)	0.018 (0.015 to 0.02)	-3.72 (-4.23 to -3.21)
Italy	7.728 (7.306 to 8.197)	0.021 (0.02 to 0.022)	1.706 (1.533 to 1.859)	0.006 (0.005 to 0.007)	-4.77 (-5.32 to -4.22)
Jamaica	1.6 (1.322 to 1.919)	0.054 (0.045 to 0.065)	0.155 (0.116 to 0.208)	0.007 (0.005 to 0.009)	-7.33 (-7.73 to -6.93)
Japan	61.557 (59.455 to 63.552)	0.068 (0.066 to 0.07)	25.298 (23.118 to 27.424)	0.044 (0.04 to 0.048)	-2.14 (-2.66 to -1.62)
Jordan	1.11 (0.589 to 4.027)	0.02 (0.01 to 0.071)	1.671 (0.729 to 4.25)	0.013 (0.005 to 0.032)	-0.16 (-0.76 to 0.45)
Kazakhstan	0.423 (0.316 to 0.551)	0.002 (0.002 to 0.003)	0.183 (0.141 to 0.225)	0.001 (0.001 to 0.001)	-3.36 (-3.87 to -2.85)
Kenya	8.581 (5.248 to 18.125)	0.023 (0.014 to 0.049)	7.83 (4.139 to 15.126)	0.012 (0.006 to 0.023)	-1.61 (-1.82 to -1.39)
Kiribati	0.037 (0.018 to 0.084)	0.037 (0.018 to 0.084)	0.034 (0.018 to 0.068)	0.023 (0.012 to 0.047)	-1.36 (-1.45 to -1.27)
Kuwait	0.601 (0.518 to 0.696)	0.032 (0.028 to 0.038)	1.25 (1 to 1.541)	0.042 (0.034 to 0.052)	2.94 (1.16 to 4.74)
Kyrgyzstan	0.349 (0.283 to 0.421)	0.006 (0.005 to 0.007)	0.103 (0.082 to 0.128)	0.001 (0.001 to 0.002)	-5.02 (-5.54 to -4.5)
Lao People's Democratic Republic	3.786 (1.116 to 11.713)	0.062 (0.018 to 0.191)	2.638 (1.395 to 5.58)	0.033 (0.017 to 0.069)	-2.19 (-2.29 to -2.09)
Latvia	0.08 (0.071 to 0.09)	0.004 (0.003 to 0.004)	0.032 (0.028 to 0.037)	0.003 (0.003 to 0.004)	0.16 (-1.84 to 2.19)
Lebanon	5.446 (2.508 to 9.408)	0.15 (0.069 to 0.26)	1.931 (1.358 to 2.694)	0.043 (0.03 to 0.06)	-3.79 (-4.04 to -3.53)
Lesotho	0.299 (0.186 to 0.501)	0.013 (0.008 to 0.022)	0.358 (0.233 to 0.498)	0.016 (0.01 to 0.022)	1.39 (1.06 to 1.71)
Liberia	3.084 (1.296 to 7.452)	0.083 (0.035 to 0.202)	2.251 (1.253 to 3.769)	0.03 (0.017 to 0.05)	-2.76 (-3.04 to -2.48)

Libya	11.822 (6.463 to 22.111)	0.189 (0.104 to 0.354)	7.265 (2.98 to 12.904)	0.129 (0.053 to 0.229)	0.1 (-0.32 to 0.53)
Lithuania	0.215 (0.193 to 0.239)	0.007 (0.006 to 0.008)	0.047 (0.041 to 0.054)	0.003 (0.003 to 0.004)	-0.98 (-2.7 to 0.77)
Luxembourg	0.07 (0.062 to 0.077)	0.029 (0.026 to 0.032)	0.034 (0.028 to 0.041)	0.009 (0.008 to 0.011)	-4.22 (-4.62 to -3.82)
Madagascar	18.722 (8.658 to 47.154)	0.103 (0.048 to 0.259)	21.148 (12.071 to 41.242)	0.052 (0.03 to 0.102)	-1.89 (-2.06 to -1.73)
Malawi	10.286 (4.486 to 22.964)	0.068 (0.03 to 0.152)	6.272 (3.497 to 10.72)	0.022 (0.012 to 0.037)	-3.58 (-3.78 to -3.37)
Malaysia	2.427 (1.596 to 5.506)	0.011 (0.007 to 0.024)	1.546 (1.019 to 3.966)	0.006 (0.004 to 0.014)	-1.43 (-2.09 to -0.78)
Maldives	0.456 (0.209 to 0.674)	0.131 (0.06 to 0.194)	0.103 (0.078 to 0.136)	0.029 (0.022 to 0.038)	-4.07 (-4.43 to -3.71)
Mali	6.86 (2.431 to 15.771)	0.051 (0.018 to 0.118)	12.24 (6.683 to 21.525)	0.032 (0.017 to 0.056)	-1.26 (-1.44 to -1.08)
Malta	0.035 (0.031 to 0.041)	0.011 (0.01 to 0.013)	0.022 (0.018 to 0.027)	0.01 (0.008 to 0.012)	-0.54 (-0.96 to -0.11)
Marshall Islands	0.016 (0.01 to 0.028)	0.022 (0.014 to 0.039)	0.013 (0.008 to 0.025)	0.021 (0.012 to 0.041)	-0.31 (-0.68 to 0.07)
Mauritania	0.914 (0.399 to 2.167)	0.03 (0.013 to 0.071)	1.004 (0.622 to 1.69)	0.016 (0.01 to 0.027)	-1.87 (-2.27 to -1.48)
Mauritius	0.427 (0.382 to 0.475)	0.037 (0.033 to 0.041)	0.622 (0.522 to 0.714)	0.078 (0.065 to 0.089)	8.59 (6.28 to 10.96)
Mexico	38.349 (29.664 to 48.357)	0.033 (0.025 to 0.041)	11.135 (9.026 to 13.757)	0.01 (0.008 to 0.012)	-3.96 (-4.61 to -3.31)
Micronesia (Federated States of)	0.043 (0.026 to 0.078)	0.028 (0.017 to 0.05)	0.018 (0.011 to 0.034)	0.016 (0.01 to 0.03)	-1.67 (-1.72 to -1.61)
Monaco	0.002 (0.001 to 0.003)	0.015 (0.009 to 0.026)	0.002 (0.001 to 0.003)	0.01 (0.006 to 0.015)	-2.26 (-2.64 to -1.87)
Mongolia	2.195 (1.122 to 3.511)	0.072 (0.037 to 0.114)	1.217 (0.757 to 1.707)	0.034 (0.021 to 0.048)	-1.27 (-1.8 to -0.74)
Montenegro	0.016 (0.006 to 0.114)	0.003 (0.001 to 0.02)	0.004 (0.001 to 0.032)	0.001 (0 to 0.008)	-3.43 (-3.9 to -2.95)
Morocco	42.312 (22.229 to 76.853)	0.125 (0.066 to 0.228)	18.248 (10.719 to 28.968)	0.052 (0.031 to 0.083)	-1.92 (-2.47 to -1.37)
Mozambique	12.544 (5.289 to 25.183)	0.061 (0.026 to 0.123)	11.808 (6.667 to 19.147)	0.025 (0.014 to 0.04)	-2.68 (-2.87 to -2.49)
Myanmar	27.869 (9.495 to 80.717)	0.054 (0.018 to 0.156)	17.939 (10.334 to 36.18)	0.032 (0.018 to 0.064)	-1.79 (-1.97 to -1.6)
Namibia	0.321 (0.216 to 0.466)	0.016 (0.01 to 0.023)	0.369 (0.242 to 0.563)	0.013 (0.008 to 0.019)	-0.11 (-0.38 to 0.16)
Nauru	0.005 (0.003 to 0.01)	0.036 (0.022 to 0.069)	0.004 (0.003 to 0.009)	0.032 (0.019 to 0.066)	-0.35 (-0.87 to 0.18)
Nepal	29.535 (11.623 to 46.157)	0.106 (0.042 to 0.165)	10.275 (5.896 to 16.693)	0.031 (0.018 to 0.05)	-4 (-4.14 to -3.86)
Netherlands	1.847 (1.714 to 2.007)	0.018 (0.017 to 0.019)	0.846 (0.752 to 0.947)	0.008 (0.008 to 0.009)	-2.73 (-3.46 to -1.99)

New Zealand	0.397 (0.348 to 0.459)	0.013 (0.012 to 0.015)	0.21 (0.182 to 0.241)	0.006 (0.005 to 0.007)	-2.99 (-4.05 to -1.92)
Nicaragua	2.504 (1.09 to 3.623)	0.041 (0.018 to 0.06)	0.368 (0.203 to 1.128)	0.005 (0.003 to 0.016)	-6.74 (-6.9 to -6.57)
Niger	8.364 (3.145 to 18.186)	0.064 (0.024 to 0.139)	14.609 (6.805 to 26.92)	0.035 (0.016 to 0.064)	-2.05 (-2.28 to -1.83)
Nigeria	75.998 (30.977 to 192.908)	0.058 (0.024 to 0.147)	129.111 (80.097 to 214.025)	0.037 (0.023 to 0.062)	-1.08 (-1.4 to -0.76)
Niue	0.001 (0 to 0.001)	0.024 (0.015 to 0.046)	0.001 (0.001 to 0.002)	0.068 (0.042 to 0.142)	0.83 (-0.05 to 1.71)
North Macedonia	0.199 (0.124 to 0.381)	0.011 (0.007 to 0.02)	0.039 (0.018 to 0.12)	0.003 (0.002 to 0.01)	-3.14 (-3.56 to -2.71)
Northern Mariana Islands	0.003 (0.002 to 0.008)	0.008 (0.005 to 0.017)	0.002 (0.001 to 0.004)	0.005 (0.003 to 0.01)	-1.67 (-2.18 to -1.16)
Norway	1.427 (1.346 to 1.517)	0.047 (0.045 to 0.05)	0.185 (0.166 to 0.205)	0.005 (0.005 to 0.006)	-7.91 (-8.89 to -6.92)
Oman	0.709 (0.354 to 1.908)	0.026 (0.013 to 0.07)	0.636 (0.198 to 1.068)	0.016 (0.005 to 0.026)	0.94 (-0.85 to 2.76)
Pakistan	175.35 (71.534 to 265.684)	0.106 (0.043 to 0.161)	187.698 (95.125 to 294.495)	0.064 (0.032 to 0.1)	-0.73 (-1.14 to -0.31)
Palau	0.003 (0.002 to 0.007)	0.02 (0.011 to 0.039)	0.002 (0.001 to 0.003)	0.013 (0.006 to 0.028)	-1.29 (-1.45 to -1.13)
Palestine	2.865 (1.18 to 4.748)	0.089 (0.037 to 0.147)	1.571 (0.62 to 3.322)	0.024 (0.01 to 0.051)	-3.41 (-3.73 to -3.1)
Panama	0.673 (0.552 to 0.801)	0.023 (0.019 to 0.027)	0.204 (0.162 to 0.253)	0.005 (0.004 to 0.006)	-5.67 (-6.35 to -4.98)
Papua New Guinea	3.964 (2.13 to 6.842)	0.069 (0.037 to 0.119)	8.668 (5.033 to 14.857)	0.065 (0.038 to 0.112)	-0.05 (-0.18 to 0.08)
Paraguay	0.766 (0.515 to 1.474)	0.014 (0.009 to 0.026)	0.49 (0.274 to 1.266)	0.007 (0.004 to 0.018)	-2.1 (-2.34 to -1.85)
Peru	20.995 (10.227 to 34.247)	0.073 (0.036 to 0.119)	7.542 (4.968 to 10.762)	0.022 (0.015 to 0.032)	-3.18 (-3.36 to -3.01)
Philippines	22.466 (13.708 to 39.982)	0.026 (0.016 to 0.046)	13.316 (9.645 to 31.151)	0.011 (0.008 to 0.026)	-2.37 (-2.58 to -2.17)
Poland	3.664 (3.242 to 4.298)	0.011 (0.01 to 0.013)	0.943 (0.848 to 1.036)	0.005 (0.004 to 0.005)	-2.81 (-3.03 to -2.59)
Portugal	2.895 (2.618 to 3.205)	0.036 (0.032 to 0.04)	0.625 (0.531 to 0.72)	0.012 (0.01 to 0.014)	-4.06 (-4.65 to -3.46)
Puerto Rico	3.41 (3.1 to 3.76)	0.095 (0.086 to 0.104)	0.148 (0.122 to 0.183)	0.008 (0.007 to 0.01)	-8.86 (-9.41 to -8.3)
Qatar	0.136 (0.085 to 0.27)	0.033 (0.02 to 0.065)	0.231 (0.114 to 0.358)	0.014 (0.007 to 0.022)	-0.98 (-1.85 to -0.1)
Republic of Korea	16.008 (10.198 to 23.734)	0.037 (0.024 to 0.055)	1.941 (1.288 to 3.016)	0.009 (0.006 to 0.013)	-4.52 (-4.7 to -4.35)
Republic of Moldova	0.031 (0.026 to 0.037)	0.001 (0.001 to 0.001)	0.024 (0.018 to 0.031)	0.001 (0.001 to 0.002)	3.27 (1.26 to 5.31)
Romania	4.974 (4.222 to 5.898)	0.025 (0.021 to 0.029)	1.74 (1.5 to 2.003)	0.016 (0.014 to 0.018)	-1.05 (-1.33 to -0.77)

Russian Federation	61.939 (58.841 to 65.263)	0.051 (0.048 to 0.053)	6.956 (6.383 to 7.432)	0.008 (0.007 to 0.008)	-5.89 (-6.52 to -5.24)
Rwanda	9.001 (4.537 to 22.154)	0.08 (0.041 to 0.198)	3.876 (2.131 to 7.712)	0.022 (0.012 to 0.044)	-4.72 (-5.01 to -4.44)
Saint Kitts and Nevis	0.013 (0.01 to 0.017)	0.026 (0.02 to 0.033)	0.002 (0.002 to 0.003)	0.006 (0.005 to 0.008)	-5.76 (-6.44 to -5.07)
Saint Lucia	0.177 (0.143 to 0.211)	0.098 (0.079 to 0.117)	0.025 (0.019 to 0.033)	0.022 (0.017 to 0.029)	-5.69 (-6.16 to -5.21)
Saint Vincent and the Grenadines	0.034 (0.027 to 0.042)	0.023 (0.019 to 0.029)	0.007 (0.005 to 0.009)	0.008 (0.006 to 0.01)	-5.2 (-6.19 to -4.19)
Samoa	0.063 (0.04 to 0.114)	0.025 (0.016 to 0.046)	0.048 (0.028 to 0.094)	0.017 (0.01 to 0.035)	-1.06 (-1.19 to -0.94)
San Marino	0.001 (0.001 to 0.002)	0.009 (0.006 to 0.014)	0 (0 to 0.001)	0.002 (0.001 to 0.005)	-3.59 (-3.72 to -3.46)
Sao Tome and Principe	0.071 (0.033 to 0.178)	0.038 (0.018 to 0.094)	0.032 (0.014 to 0.073)	0.011 (0.005 to 0.027)	-3.44 (-3.81 to -3.06)
Saudi Arabia	8.022 (4.521 to 14.137)	0.036 (0.02 to 0.064)	1.484 (0.605 to 3.734)	0.005 (0.002 to 0.014)	-5.51 (-6.07 to -4.95)
Senegal	6.694 (3.159 to 14.79)	0.056 (0.026 to 0.123)	5.413 (3.039 to 9.242)	0.025 (0.014 to 0.042)	-2.2 (-2.63 to -1.77)
Serbia	0.468 (0.274 to 1.284)	0.006 (0.003 to 0.016)	0.078 (0.037 to 0.329)	0.002 (0.001 to 0.006)	-4.34 (-4.68 to -4)
Seychelles	0.008 (0.005 to 0.017)	0.009 (0.006 to 0.02)	0.004 (0.002 to 0.009)	0.005 (0.003 to 0.011)	-0.14 (-0.6 to 0.33)
Sierra Leone	5.824 (2.253 to 14.038)	0.098 (0.038 to 0.235)	6.227 (3.664 to 11.158)	0.051 (0.03 to 0.091)	-2.03 (-2.22 to -1.84)
Singapore	1.878 (1.688 to 2.087)	0.075 (0.068 to 0.084)	0.572 (0.476 to 0.669)	0.02 (0.017 to 0.024)	-3.84 (-4.2 to -3.48)
Slovakia	0.265 (0.158 to 0.764)	0.006 (0.003 to 0.016)	0.069 (0.038 to 0.23)	0.002 (0.001 to 0.008)	-2.19 (-2.43 to -1.96)
Slovenia	0.013 (0.011 to 0.016)	0.001 (0.001 to 0.001)	0.005 (0.004 to 0.005)	0 (0 to 0)	-3.1 (-3.53 to -2.67)
Solomon Islands	0.133 (0.071 to 0.224)	0.025 (0.013 to 0.043)	0.141 (0.082 to 0.265)	0.016 (0.009 to 0.03)	-1.52 (-1.68 to -1.37)
Somalia	10.995 (4.206 to 21.74)	0.086 (0.033 to 0.17)	15.687 (5.493 to 32.879)	0.045 (0.016 to 0.095)	-1.76 (-1.99 to -1.53)
South Africa	7.49 (5.406 to 10.35)	0.016 (0.011 to 0.022)	4.555 (3.558 to 5.767)	0.008 (0.007 to 0.011)	-1.36 (-1.63 to -1.08)
South Sudan	8.51 (3.073 to 20.132)	0.096 (0.035 to 0.227)	9.264 (4.887 to 17.962)	0.062 (0.033 to 0.121)	-1.27 (-1.67 to -0.87)
Spain	8.707 (7.891 to 9.568)	0.029 (0.026 to 0.032)	3.31 (2.834 to 3.705)	0.014 (0.012 to 0.016)	-2.39 (-3.05 to -1.72)
Sri Lanka	11.969 (8.055 to 19.484)	0.061 (0.041 to 0.1)	6.681 (4.407 to 9.232)	0.036 (0.024 to 0.049)	-0.97 (-1.5 to -0.43)
Sudan	50.774 (21.309 to 108.369)	0.17 (0.071 to 0.363)	60.028 (29.586 to 88.983)	0.104 (0.051 to 0.154)	-0.64 (-1.22 to -0.06)
Suriname	1.044 (0.471 to 1.409)	0.226 (0.102 to 0.305)	0.319 (0.208 to 0.474)	0.062 (0.041 to 0.092)	-4.7 (-4.97 to -4.42)

Sweden	1.585 (1.454 to 1.727)	0.028 (0.026 to 0.03)	0.623 (0.542 to 0.711)	0.01 (0.008 to 0.011)	-3.01 (-3.45 to -2.57)
Switzerland	2.085 (1.58 to 2.666)	0.049 (0.037 to 0.063)	0.599 (0.517 to 0.693)	0.013 (0.011 to 0.015)	-4.55 (-4.82 to -4.28)
Syrian Arab Republic	6.959 (3.263 to 21.589)	0.035 (0.016 to 0.109)	1.222 (0.522 to 5.229)	0.008 (0.004 to 0.036)	-4.56 (-5.11 to -4)
Taiwan (Province of China)	0.505 (0.449 to 0.56)	0.003 (0.002 to 0.003)	0.434 (0.375 to 0.496)	0.004 (0.003 to 0.005)	4.64 (3.31 to 5.99)
Tajikistan	9.53 (5.27 to 14.783)	0.123 (0.068 to 0.19)	8.398 (5.464 to 11.427)	0.07 (0.045 to 0.095)	-1.81 (-2.03 to -1.58)
Thailand	10.679 (6.155 to 21.366)	0.017 (0.01 to 0.035)	3.407 (2.312 to 6.594)	0.009 (0.006 to 0.018)	-2.23 (-2.54 to -1.91)
Timor-Leste	0.636 (0.235 to 1.799)	0.058 (0.021 to 0.164)	0.554 (0.321 to 1.078)	0.03 (0.017 to 0.058)	-2.33 (-2.59 to -2.07)
Togo	2.404 (1.151 to 5.321)	0.041 (0.02 to 0.091)	2.595 (1.579 to 4.156)	0.023 (0.014 to 0.037)	-1.59 (-1.86 to -1.31)
Tokelau	0 (0 to 0.001)	0.021 (0.013 to 0.039)	0.001 (0.001 to 0.002)	0.072 (0.037 to 0.175)	-0.02 (-1.53 to 1.51)
Tonga	0.027 (0.018 to 0.047)	0.019 (0.013 to 0.033)	0.018 (0.011 to 0.037)	0.013 (0.008 to 0.028)	-1.02 (-1.22 to -0.82)
Trinidad and Tobago	1.422 (1.211 to 1.657)	0.101 (0.086 to 0.118)	0.23 (0.172 to 0.297)	0.023 (0.018 to 0.03)	-5.12 (-5.63 to -4.6)
Tunisia	7.362 (4.375 to 12.691)	0.068 (0.041 to 0.118)	2.388 (1.419 to 3.662)	0.025 (0.015 to 0.038)	-2.11 (-2.56 to -1.66)
Turkey	272.517 (110.035 to 478.952)	0.378 (0.153 to 0.664)	43.872 (31.657 to 57.35)	0.066 (0.047 to 0.086)	-4.98 (-5.19 to -4.76)
Turkmenistan	0.694 (0.456 to 0.971)	0.014 (0.009 to 0.019)	0.599 (0.463 to 0.775)	0.011 (0.009 to 0.015)	-1.08 (-1.47 to -0.68)
Tuvalu	0.006 (0.003 to 0.012)	0.055 (0.03 to 0.103)	0.003 (0.002 to 0.005)	0.02 (0.013 to 0.038)	-3.05 (-3.22 to -2.87)
Uganda	22.346 (9.529 to 44.833)	0.08 (0.034 to 0.161)	18.935 (11.701 to 35.285)	0.028 (0.017 to 0.052)	-3.49 (-3.68 to -3.3)
Ukraine	3.651 (2.738 to 4.859)	0.009 (0.007 to 0.012)	1.626 (1.35 to 1.977)	0.007 (0.006 to 0.009)	-0.39 (-0.73 to -0.05)
United Arab Emirates	3.091 (1.866 to 4.789)	0.162 (0.098 to 0.25)	1.099 (0.736 to 1.795)	0.024 (0.016 to 0.039)	-4.24 (-4.82 to -3.66)
United Kingdom	15.16 (11.844 to 19.11)	0.038 (0.03 to 0.048)	4.858 (4.276 to 5.372)	0.011 (0.01 to 0.013)	-3.17 (-3.46 to -2.89)
United Republic of Tanzania	23.352 (12.613 to 53.542)	0.058 (0.031 to 0.133)	24.585 (14.996 to 46.324)	0.029 (0.018 to 0.056)	-1.84 (-2.01 to -1.67)
United States of America	73.448 (65.982 to 83.448)	0.037 (0.033 to 0.042)	38.418 (34.899 to 42.256)	0.017 (0.016 to 0.019)	-2.46 (-2.64 to -2.28)
United States Virgin Islands	0.086 (0.05 to 0.116)	0.076 (0.044 to 0.103)	0.007 (0.004 to 0.01)	0.014 (0.008 to 0.021)	-5.32 (-5.68 to -4.96)
Uruguay	1.289 (1.125 to 1.469)	0.044 (0.039 to 0.05)	0.27 (0.226 to 0.32)	0.011 (0.009 to 0.013)	-4.68 (-4.88 to -4.49)
Uzbekistan	11.807 (9.827 to 14.161)	0.041 (0.034 to 0.049)	6.96 (5.795 to 8.201)	0.02 (0.017 to 0.024)	-1.23 (-1.82 to -0.63)

Vanuatu	0.078 (0.044 to 0.14)	0.034 (0.02 to 0.062)	0.096 (0.057 to 0.196)	0.024 (0.014 to 0.049)	-1.13 (-1.45 to -0.82)
Venezuela (Bolivarian Republic of)	5.096 (4.319 to 5.975)	0.021 (0.018 to 0.024)	1.501 (1.055 to 2.043)	0.006 (0.004 to 0.009)	-4.27 (-4.88 to -3.66)
Viet Nam	15.817 (9.768 to 28.575)	0.017 (0.011 to 0.031)	7.549 (4.252 to 14.624)	0.009 (0.005 to 0.017)	-1.46 (-1.76 to -1.15)
Yemen	30.829 (14.679 to 55.796)	0.136 (0.065 to 0.245)	44.3 (23.958 to 65.685)	0.094 (0.051 to 0.139)	-0.3 (-0.83 to 0.23)
Zambia	6.068 (2.872 to 15.6)	0.048 (0.023 to 0.123)	6.174 (3.669 to 10.935)	0.022 (0.013 to 0.039)	-2.3 (-2.51 to -2.1)
Zimbabwe	1.995 (1.112 to 3.182)	0.012 (0.007 to 0.02)	4.558 (2.868 to 7.189)	0.021 (0.013 to 0.033)	2.84 (2.36 to 3.33)

Abbreviations: PAH, pulmonary arterial hypertension; ASMR, age-standardized mortality rate; EAPC, estimated annual percentage change; UIs, uncertainty intervals; CI, confidence interval.

eTable 5 DALYs of PAH among children and adolescents between 1990 and 2021 at the national level.

Location	1990		2021		EAPC (95% CI) 1990-2021
	Number (95 % UIs)	ASDR (95 % UIs)	Number (95 % UIs)	ASDR (95 % UIs)	
Afghanistan	1798.536 (855.573 to 2992.053)	11.935 (5.678 to 19.856)	5727.919 (2762.154 to 8774.225)	11.916 (5.746 to 18.254)	0.54 (0.26 to 0.82)
Albania	155.022 (73.411 to 206.803)	3.965 (1.878 to 5.29)	22.824 (14.687 to 35.352)	1.368 (0.88 to 2.119)	-2.75 (-3.01 to -2.49)
Algeria	2588.592 (1483.23 to 4504.267)	7.083 (4.058 to 12.324)	1538.565 (960.305 to 2200.679)	3.459 (2.159 to 4.948)	-0.8 (-1.32 to -0.28)
American Samoa	0.644 (0.451 to 1.211)	0.995 (0.697 to 1.872)	0.345 (0.203 to 0.724)	0.668 (0.393 to 1.4)	-1.13 (-1.26 to -1)
Andorra	1.194 (0.63 to 1.871)	3.281 (1.73 to 5.142)	0.221 (0.152 to 0.317)	0.568 (0.391 to 0.817)	-5.52 (-5.8 to -5.24)
Angola	806.027 (290.777 to 2173.144)	5.17 (1.865 to 13.938)	872.099 (541.116 to 1611.773)	1.727 (1.072 to 3.192)	-3.32 (-3.69 to -2.94)
Antigua and Barbuda	0.963 (0.758 to 1.268)	1.49 (1.173 to 1.963)	0.212 (0.183 to 0.243)	0.335 (0.289 to 0.384)	-6.01 (-6.64 to -5.36)
Argentina	3226.603 (2803.819 to 3734.519)	9.16 (7.96 to 10.602)	507.041 (425.125 to 586.904)	1.368 (1.147 to 1.583)	-5.65 (-5.93 to -5.36)
Armenia	40.344 (34.738 to 49.191)	1.124 (0.968 to 1.37)	3.209 (2.823 to 3.624)	0.155 (0.137 to 0.176)	-6.54 (-7.57 to -5.5)
Australia	353.786 (275.512 to 446.044)	2.53 (1.97 to 3.189)	121.983 (101.793 to 147.263)	0.723 (0.603 to 0.873)	-3.71 (-4.27 to -3.14)
Austria	63.591 (56.401 to 71.892)	1.255 (1.114 to 1.419)	25.082 (22.164 to 28.357)	0.529 (0.467 to 0.598)	-2.34 (-3 to -1.69)
Azerbaijan	336.217 (180.77 to 514.837)	3.972 (2.136 to 6.083)	158.157 (116.356 to 217.147)	1.92 (1.412 to 2.636)	-2.29 (-2.59 to -1.99)
Bahamas	37.94 (31.85 to 45.493)	13.033 (10.941 to 15.627)	7.689 (5.993 to 9.815)	2.467 (1.923 to 3.149)	-6.26 (-6.82 to -5.69)

Bahrain	19.484 (13.143 to 34.838)	3.601 (2.429 to 6.439)	14.167 (6.94 to 22.708)	1.298 (0.636 to 2.081)	-1.7 (-2.75 to -0.63)
Bangladesh	8136.825 (2927.02 to 14363.09)	4.986 (1.793 to 8.8)	3200.439 (1858.077 to 4657.686)	1.941 (1.127 to 2.824)	-2.62 (-2.78 to -2.47)
Barbados	24.171 (20.437 to 28.366)	10.528 (8.902 to 12.356)	4.421 (3.258 to 5.757)	2.463 (1.815 to 3.208)	-5.46 (-6 to -4.93)
Belarus	85.607 (56.198 to 130.689)	1.009 (0.662 to 1.54)	19.722 (15.777 to 24.189)	0.36 (0.288 to 0.442)	-2.63 (-2.91 to -2.35)
Belgium	165.775 (122.972 to 223.476)	2.48 (1.84 to 3.344)	63.741 (54.55 to 73.342)	0.927 (0.793 to 1.066)	-3.06 (-3.38 to -2.74)
Belize	38.189 (31.404 to 45.378)	13.769 (11.323 to 16.361)	6.334 (5.214 to 7.574)	1.386 (1.141 to 1.657)	-7.95 (-8.43 to -7.47)
Benin	327.076 (140.638 to 732.836)	4.215 (1.812 to 9.444)	528.454 (333.607 to 818.226)	2.6 (1.641 to 4.026)	-1.08 (-1.27 to -0.89)
Bermuda	5.335 (4.445 to 6.42)	12.408 (10.339 to 14.932)	0.637 (0.47 to 0.829)	2.048 (1.511 to 2.665)	-6.38 (-6.71 to -6.06)
Bhutan	69.55 (26.239 to 107.174)	7.551 (2.849 to 11.637)	18.787 (11.683 to 29.624)	2.725 (1.695 to 4.297)	-3.47 (-3.7 to -3.24)
Bolivia (Plurinational State of)	1328.816 (536.511 to 2330.529)	14.675 (5.925 to 25.737)	550.719 (359.724 to 804.108)	4.479 (2.926 to 6.54)	-3.65 (-3.7 to -3.59)
Bosnia and Herzegovina	31.077 (18.527 to 59.75)	0.776 (0.462 to 1.491)	8.685 (5.676 to 15.459)	0.483 (0.316 to 0.86)	-1.39 (-1.63 to -1.14)
Botswana	28.307 (19.408 to 41.924)	1.414 (0.969 to 2.094)	30.971 (21.086 to 45.638)	1.249 (0.85 to 1.841)	0.23 (-0.09 to 0.54)
Brazil	8939.048 (7863.901 to 10165.968)	4.92 (4.328 to 5.595)	4065.713 (3388.801 to 4801.893)	2.352 (1.961 to 2.778)	-1.86 (-2.54 to -1.18)
Brunei Darussalam	31.35 (16.326 to 42.581)	10.079 (5.249 to 13.691)	15.729 (9.311 to 22.185)	4.504 (2.666 to 6.353)	-2.53 (-2.67 to -2.38)
Bulgaria	51.516 (43.879 to 60.182)	0.806 (0.687 to 0.942)	10.848 (8.671 to 13.961)	0.31 (0.248 to 0.399)	-2.13 (-2.65 to -1.62)
Burkina Faso	800.825 (331.519 to 1632.188)	5.235 (2.167 to 10.67)	1331.152 (757.588 to 2122.111)	3.844 (2.188 to 6.129)	-0.58 (-0.76 to -0.41)
Burundi	688.494 (334.532 to 1570.22)	8.07 (3.921 to 18.405)	514.392 (262.691 to 934.042)	2.615 (1.335 to 4.749)	-3.05 (-3.4 to -2.7)
Cabo Verde	21.145 (10.582 to 38.743)	4.021 (2.012 to 7.368)	5.908 (2.299 to 12.21)	1.134 (0.441 to 2.343)	-4.3 (-4.49 to -4.12)
Cambodia	461.053 (188.833 to 1251.366)	2.995 (1.227 to 8.129)	271.684 (161.317 to 491.71)	1.515 (0.9 to 2.742)	-2.19 (-2.28 to -2.11)
Cameroon	522.8 (258.812 to 1145.064)	3.257 (1.612 to 7.133)	1052.962 (707.047 to 1692.274)	2.304 (1.547 to 3.703)	-0.37 (-0.83 to 0.09)
Canada	896.485 (813.234 to 974.46)	4.326 (3.924 to 4.702)	250.539 (213.852 to 295.411)	1.126 (0.961 to 1.328)	-4.98 (-5.5 to -4.46)
Central African Republic	220.659 (92.416 to 540.292)	5.451 (2.283 to 13.346)	240.133 (136.786 to 451.715)	3.069 (1.748 to 5.773)	-1.65 (-1.76 to -1.54)

Chad	478.636 (152.091 to 1087.719)	5.021 (1.596 to 11.411)	1320.507 (597.911 to 2551.195)	4.46 (2.019 to 8.617)	-0.17 (-0.33 to 0)
Chile	511.172 (456.479 to 567.693)	3.584 (3.201 to 3.98)	146.394 (124.815 to 168.268)	1.106 (0.943 to 1.272)	-3.46 (-3.79 to -3.13)
China	61218.17 (41707.516 to 89044.491)	5.087 (3.466 to 7.4)	10136.339 (6275.575 to 15348.995)	1.121 (0.694 to 1.698)	-3.45 (-4.04 to -2.86)
Colombia	1003.092 (814.377 to 1300.253)	2.464 (2.001 to 3.195)	319.998 (243.322 to 421.558)	0.813 (0.618 to 1.071)	-3.2 (-3.63 to -2.76)
Comoros	44.684 (21.053 to 85.31)	6.252 (2.946 to 11.936)	18.389 (10.448 to 37.233)	2.166 (1.231 to 4.386)	-3.64 (-3.88 to -3.4)
Congo	101.903 (51.19 to 246.663)	2.841 (1.427 to 6.876)	70.396 (47.563 to 132.039)	1.047 (0.707 to 1.964)	-3.24 (-3.63 to -2.84)
Cook Islands	0.831 (0.533 to 1.47)	3.568 (2.291 to 6.312)	0.257 (0.084 to 0.594)	1.835 (0.597 to 4.238)	-3.96 (-4.53 to -3.37)
Costa Rica	124.764 (112.786 to 137.436)	3.254 (2.941 to 3.584)	21.287 (17.731 to 25.346)	0.575 (0.479 to 0.685)	-4.87 (-5.5 to -4.23)
Côte d'Ivoire	780.2 (390.698 to 1667.364)	4.171 (2.088 to 8.913)	1124.533 (734.747 to 1810.057)	2.891 (1.889 to 4.654)	-0.58 (-0.81 to -0.35)
Croatia	14.034 (12.621 to 15.537)	0.391 (0.352 to 0.433)	2.459 (2.044 to 2.939)	0.113 (0.094 to 0.135)	-3.21 (-3.9 to -2.5)
Cuba	180.272 (150.676 to 206.898)	1.826 (1.526 to 2.095)	24.977 (21.235 to 29.261)	0.385 (0.327 to 0.451)	-5.59 (-6.12 to -5.06)
Cyprus	97 (60.251 to 138.175)	13.847 (8.601 to 19.725)	15.466 (10.583 to 21.676)	2.006 (1.373 to 2.812)	-5.52 (-5.84 to -5.19)
Czechia	126.575 (100.293 to 162.186)	1.538 (1.219 to 1.971)	44.13 (35.505 to 53.956)	0.735 (0.591 to 0.899)	-2.43 (-2.66 to -2.21)
Democratic People's Republic of Korea	502.146 (318.556 to 955.745)	2.384 (1.512 to 4.538)	194.523 (100.802 to 348.536)	1.09 (0.565 to 1.952)	-2.35 (-2.58 to -2.13)
Democratic Republic of the Congo	2636.305 (1204.379 to 5385.972)	4.503 (2.057 to 9.2)	1849.236 (1053.975 to 3109.716)	1.428 (0.814 to 2.401)	-3.24 (-3.55 to -2.94)
Denmark	113.798 (97.658 to 128.582)	3.366 (2.889 to 3.803)	35.935 (30.827 to 41.719)	1.027 (0.881 to 1.192)	-3.9 (-4.33 to -3.46)
Djibouti	27.021 (11.432 to 63.779)	4.456 (1.885 to 10.517)	27.542 (14.136 to 56.409)	1.928 (0.989 to 3.948)	-2.69 (-3.02 to -2.35)
Dominica	1.562 (0.916 to 2.178)	1.762 (1.033 to 2.458)	0.457 (0.289 to 0.654)	0.87 (0.55 to 1.245)	-2.92 (-3.3 to -2.54)
Dominican Republic	668.157 (307.161 to 981.327)	7.056 (3.244 to 10.363)	223.117 (142.204 to 352.018)	2.121 (1.352 to 3.346)	-4.43 (-4.72 to -4.14)
Ecuador	622.163 (494.058 to 828.612)	4.641 (3.686 to 6.181)	381.67 (296.762 to 488.077)	2.133 (1.659 to 2.728)	-1.96 (-2.58 to -1.33)
Egypt	54038.314 (18822.628 to 81805.402)	71.572 (24.93 to 108.349)	12438.25 (9193.437 to 16840.475)	9.882 (7.304 to 13.379)	-5.46 (-5.83 to -5.09)
El Salvador	460.586 (253.255 to 664.761)	6.182 (3.399 to 8.922)	70.085 (44.872 to 128.673)	1.088 (0.697 to 1.998)	-6.03 (-6.33 to -5.72)

Equatorial Guinea	26.947 (10.842 to 60.773)	4.153 (1.671 to 9.366)	20.46 (11.913 to 35.566)	0.983 (0.572 to 1.708)	-5.2 (-5.46 to -4.93)
Eritrea	301.669 (135.12 to 738.598)	5.672 (2.541 to 13.888)	224.844 (122.19 to 467.648)	2.585 (1.405 to 5.377)	-2.47 (-2.61 to -2.33)
Estonia	4.863 (4.326 to 5.493)	0.392 (0.348 to 0.442)	0.997 (0.838 to 1.175)	0.132 (0.111 to 0.155)	-2.24 (-3.84 to -0.62)
Eswatini	23.09 (14.544 to 33.486)	1.79 (1.127 to 2.596)	19.774 (13.162 to 27.597)	1.367 (0.91 to 1.908)	-0.35 (-0.54 to -0.16)
Ethiopia	3736.928 (1674.261 to 8886.677)	4.69 (2.101 to 11.153)	2793.426 (1511.498 to 6069.869)	1.806 (0.977 to 3.925)	-3.38 (-3.55 to -3.22)
Fiji	17.111 (10.759 to 32.681)	1.764 (1.109 to 3.369)	14.507 (7.918 to 29.567)	1.53 (0.835 to 3.119)	-0.35 (-0.51 to -0.19)
Finland	31.664 (27.465 to 37.403)	0.923 (0.801 to 1.09)	14.117 (12.303 to 16.058)	0.455 (0.396 to 0.517)	-2.07 (-2.78 to -1.34)
France	939.385 (746.661 to 1256.639)	2.152 (1.711 to 2.879)	504.892 (442.097 to 573.154)	1.185 (1.038 to 1.346)	-1.97 (-2.33 to -1.61)
Gabon	28.025 (15.629 to 58.041)	2.04 (1.137 to 4.224)	18.674 (11.815 to 30.557)	0.835 (0.528 to 1.366)	-2.32 (-2.63 to -2)
Gambia	51.534 (26.268 to 114.966)	3.393 (1.729 to 7.568)	67.885 (41.798 to 124.194)	1.982 (1.22 to 3.626)	-1.75 (-2.06 to -1.43)
Georgia	87.755 (73.416 to 107.068)	1.806 (1.511 to 2.204)	43.98 (35.083 to 53.405)	1.75 (1.396 to 2.125)	0.63 (-1.18 to 2.47)
Germany	1486.522 (1258.952 to 1725.913)	3.172 (2.687 to 3.683)	546.243 (473.677 to 610.984)	1.267 (1.099 to 1.417)	-2.36 (-2.98 to -1.73)
Ghana	556.686 (290.845 to 1334.71)	2.493 (1.302 to 5.976)	442.249 (268.188 to 818.726)	1.003 (0.608 to 1.856)	-2.63 (-2.78 to -2.48)
Greece	163.932 (148.319 to 178.599)	2.157 (1.952 to 2.35)	78.716 (66.898 to 90.714)	1.528 (1.299 to 1.761)	-1.04 (-1.57 to -0.5)
Greenland	10.405 (2.725 to 16.646)	21.508 (5.632 to 34.407)	1.248 (0.688 to 1.804)	3.002 (1.656 to 4.34)	-6.63 (-7.11 to -6.15)
Grenada	12.814 (10.304 to 15.538)	11.241 (9.039 to 13.631)	1.521 (1.268 to 1.802)	1.868 (1.558 to 2.214)	-6.11 (-6.58 to -5.64)
Guam	1.885 (1.293 to 3.705)	1.288 (0.883 to 2.531)	1.166 (0.618 to 2.647)	0.89 (0.472 to 2.019)	-0.08 (-0.51 to 0.35)
Guatemala	634.061 (534.089 to 799.549)	4.775 (4.022 to 6.021)	142.829 (114.348 to 178.817)	0.799 (0.639 to 1)	-6.44 (-6.89 to -5.98)
Guinea	572.219 (199.709 to 1360.351)	6.438 (2.247 to 15.305)	727.29 (436.994 to 1173.44)	3.603 (2.165 to 5.814)	-1.25 (-1.48 to -1.01)
Guinea-Bissau	85.22 (31.445 to 198.56)	5.359 (1.977 to 12.487)	80.79 (47.644 to 135.967)	2.671 (1.575 to 4.496)	-1.78 (-2.16 to -1.39)
Guyana	57.872 (48.17 to 69.713)	5.609 (4.669 to 6.756)	34 (25.867 to 44.525)	4.479 (3.408 to 5.866)	-2.62 (-3.98 to -1.23)
Haiti	3242.02 (870.605 to 6346.119)	35.829 (9.621 to 70.134)	2484.928 (810.21 to 4683.588)	16.388 (5.343 to 30.888)	-2.21 (-2.42 to -2)

Honduras	199.353 (115.275 to 288.637)	2.717 (1.571 to 3.934)	104.436 (58.022 to 190.627)	0.888 (0.493 to 1.62)	-3.61 (-3.72 to -3.5)
Hungary	76.866 (66.716 to 87.205)	0.98 (0.85 to 1.111)	13.436 (10.891 to 16.274)	0.265 (0.215 to 0.321)	-2.94 (-3.73 to -2.14)
Iceland	5.052 (4.451 to 5.659)	2.211 (1.948 to 2.476)	2.166 (1.801 to 2.591)	0.899 (0.748 to 1.076)	-3.3 (-4.02 to -2.59)
India	64412.656 (26378.844 to 93676.352)	5.804 (2.377 to 8.441)	28833.747 (18119.037 to 44387.062)	2.13 (1.339 to 3.279)	-2.97 (-3.14 to -2.79)
Indonesia	5340.252 (2304.001 to 15845.801)	2.258 (0.974 to 6.7)	3494.123 (2056.293 to 7285.182)	1.432 (0.843 to 2.986)	-1.48 (-1.63 to -1.34)
Iran (Islamic Republic of)	20106.914 (11610.886 to 33187.682)	23.599 (13.628 to 38.952)	2164.151 (1668.784 to 3235.668)	3.096 (2.387 to 4.628)	-4.62 (-5.26 to -3.97)
Iraq	1899.859 (820.441 to 2834.284)	6.823 (2.946 to 10.178)	855.104 (446.681 to 1293.086)	1.793 (0.937 to 2.711)	-4 (-4.23 to -3.78)
Ireland	41.657 (37.804 to 45.595)	1.159 (1.052 to 1.269)	19.841 (16.859 to 22.972)	0.555 (0.472 to 0.643)	-2.33 (-3.31 to -1.34)
Israel	338.657 (272.7 to 445.384)	6.243 (5.027 to 8.21)	137.171 (118.444 to 157.434)	1.504 (1.298 to 1.726)	-3.73 (-4.23 to -3.22)
Italy	645.686 (610.377 to 684.74)	1.753 (1.657 to 1.859)	146.369 (131.288 to 160.263)	0.517 (0.463 to 0.566)	-4.66 (-5.19 to -4.12)
Jamaica	139.161 (115.212 to 166.87)	4.711 (3.9 to 5.649)	13.696 (10.363 to 18.108)	0.621 (0.47 to 0.821)	-7.27 (-7.66 to -6.87)
Japan	5188.859 (5009.872 to 5363.076)	5.752 (5.553 to 5.945)	2122.335 (1938.167 to 2302.801)	3.697 (3.376 to 4.011)	-2.16 (-2.69 to -1.62)
Jordan	98.38 (52.489 to 353.308)	1.735 (0.926 to 6.232)	147.669 (66.204 to 370.999)	1.109 (0.497 to 2.786)	-0.18 (-0.77 to 0.43)
Kazakhstan	38.157 (29.336 to 49.348)	0.212 (0.163 to 0.275)	18.951 (15.046 to 23.094)	0.104 (0.083 to 0.127)	-2.95 (-3.36 to -2.54)
Kenya	737.512 (433.951 to 1579.683)	1.978 (1.164 to 4.236)	655.415 (358.019 to 1254.29)	0.985 (0.538 to 1.886)	-1.69 (-1.91 to -1.48)
Kiribati	3.226 (1.539 to 7.261)	3.255 (1.553 to 7.327)	2.872 (1.492 to 5.769)	1.987 (1.033 to 3.992)	-1.44 (-1.53 to -1.35)
Kuwait	52.84 (45.481 to 61.379)	2.849 (2.452 to 3.309)	108.8 (86.981 to 134.43)	3.673 (2.936 to 4.538)	2.9 (1.15 to 4.69)
Kyrgyzstan	29.805 (24.149 to 35.818)	0.522 (0.423 to 0.627)	10.121 (8.363 to 12.261)	0.133 (0.11 to 0.161)	-4.65 (-5.09 to -4.21)
Lao People's Democratic Republic	332.494 (97.255 to 1035.071)	5.421 (1.586 to 16.875)	228.276 (121.006 to 482.772)	2.822 (1.496 to 5.968)	-2.25 (-2.35 to -2.14)
Latvia	7.519 (6.624 to 8.482)	0.37 (0.326 to 0.417)	2.993 (2.593 to 3.455)	0.286 (0.248 to 0.33)	0 (-1.84 to 1.88)
Lebanon	476.409 (219.169 to 826.761)	13.157 (6.053 to 22.833)	166.321 (115.744 to 232.268)	3.692 (2.569 to 5.155)	-3.82 (-4.08 to -3.57)
Lesotho	25.375 (16.006 to 42.412)	1.121 (0.707 to 1.873)	29.327 (19.342 to 41.066)	1.293 (0.853 to 1.811)	1.25 (0.93 to 1.57)

Liberia	270.768 (110.245 to 658.601)	7.33 (2.984 to 17.829)	193.426 (109.051 to 322.761)	2.564 (1.446 to 4.278)	-2.81 (-3.09 to -2.52)
Libya	1047.056 (571.637 to 1963.721)	16.776 (9.159 to 31.462)	629.76 (258.641 to 1120.696)	11.157 (4.582 to 19.854)	0.04 (-0.38 to 0.47)
Lithuania	19.45 (17.39 to 21.687)	0.649 (0.581 to 0.724)	4.394 (3.845 to 4.992)	0.303 (0.265 to 0.345)	-1.08 (-2.67 to 0.53)
Luxembourg	5.91 (5.277 to 6.552)	2.477 (2.212 to 2.746)	2.978 (2.418 to 3.556)	0.816 (0.663 to 0.975)	-4.15 (-4.53 to -3.77)
Madagascar	1610.076 (720.53 to 4098.839)	8.853 (3.962 to 22.537)	1765.458 (984.345 to 3424.661)	4.369 (2.436 to 8.475)	-1.98 (-2.15 to -1.8)
Malawi	894.509 (381.648 to 2012.697)	5.936 (2.533 to 13.356)	524.856 (295.99 to 886.85)	1.833 (1.034 to 3.097)	-3.68 (-3.89 to -3.47)
Malaysia	213.04 (140.44 to 482.643)	0.944 (0.623 to 2.139)	135.016 (89.648 to 349.179)	0.487 (0.323 to 1.259)	-1.45 (-2.1 to -0.79)
Maldives	39.841 (17.999 to 59.014)	11.48 (5.187 to 17.005)	8.875 (6.682 to 11.782)	2.519 (1.896 to 3.344)	-4.09 (-4.47 to -3.72)
Mali	599.073 (210.749 to 1382.904)	4.48 (1.576 to 10.341)	1054.833 (576.618 to 1849.158)	2.741 (1.498 to 4.805)	-1.3 (-1.48 to -1.12)
Malta	3.082 (2.693 to 3.54)	0.989 (0.864 to 1.136)	1.917 (1.526 to 2.325)	0.844 (0.672 to 1.024)	-0.51 (-0.9 to -0.12)
Marshall Islands	1.408 (0.874 to 2.43)	1.944 (1.207 to 3.355)	1.077 (0.624 to 2.146)	1.726 (1 to 3.44)	-0.4 (-0.78 to -0.02)
Mauritania	79.177 (33.503 to 187.405)	2.582 (1.093 to 6.112)	86.38 (54.118 to 143.651)	1.37 (0.858 to 2.278)	-1.89 (-2.29 to -1.49)
Mauritius	37.296 (33.306 to 41.6)	3.202 (2.859 to 3.571)	51.495 (43.226 to 58.932)	6.414 (5.384 to 7.341)	8.34 (6.06 to 10.66)
Mexico	3400.862 (2628.507 to 4279.526)	2.9 (2.242 to 3.65)	990.716 (802.302 to 1215.591)	0.849 (0.688 to 1.042)	-3.96 (-4.61 to -3.31)
Micronesia (Federated States of)	3.688 (2.223 to 6.73)	2.372 (1.43 to 4.329)	1.493 (0.957 to 2.868)	1.332 (0.854 to 2.56)	-1.79 (-1.85 to -1.73)
Monaco	0.166 (0.098 to 0.29)	1.269 (0.745 to 2.212)	0.16 (0.098 to 0.234)	0.874 (0.536 to 1.276)	-2.28 (-2.66 to -1.89)
Mongolia	179.69 (92.126 to 294.039)	5.854 (3.001 to 9.58)	96.022 (61.298 to 134.167)	2.705 (1.727 to 3.78)	-1.39 (-1.92 to -0.86)
Montenegro	1.527 (0.681 to 9.77)	0.263 (0.117 to 1.684)	0.474 (0.214 to 2.748)	0.117 (0.053 to 0.676)	-2.92 (-3.3 to -2.53)
Morocco	3721.745 (1951.457 to 6782.192)	11.029 (5.783 to 20.098)	1560.164 (914.599 to 2474.104)	4.467 (2.619 to 7.084)	-2 (-2.55 to -1.44)
Mozambique	1088.872 (451.095 to 2204.867)	5.319 (2.204 to 10.771)	996.151 (567.417 to 1618.296)	2.075 (1.182 to 3.371)	-2.77 (-2.97 to -2.57)
Myanmar	2427.914 (826.39 to 7084.316)	4.698 (1.599 to 13.709)	1543.186 (895.314 to 3118.591)	2.748 (1.594 to 5.553)	-1.82 (-2.01 to -1.63)
Namibia	27.074 (18.299 to 39.188)	1.315 (0.888 to 1.903)	30.942 (20.478 to 46.421)	1.068 (0.707 to 1.602)	-0.12 (-0.4 to 0.17)

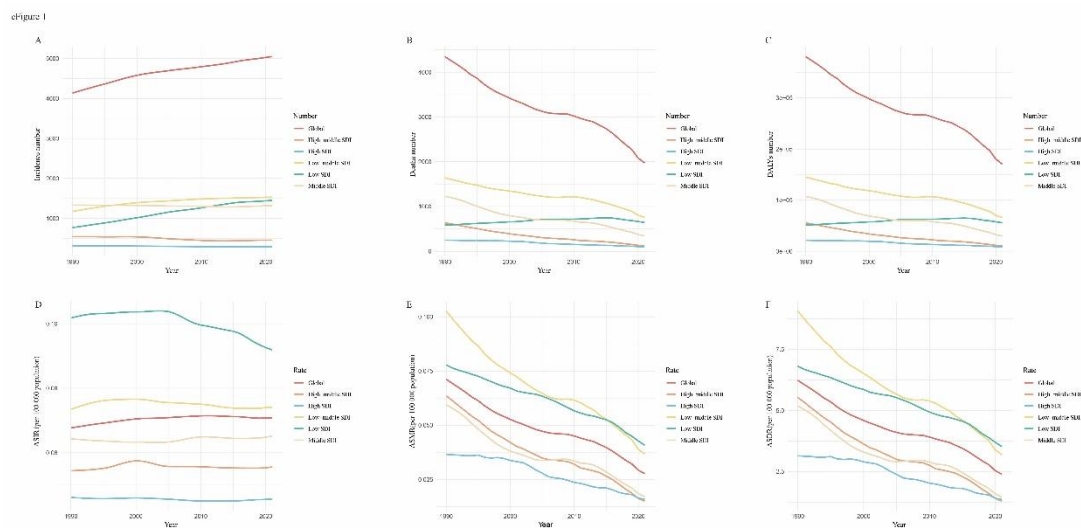
Nauru	0.436 (0.265 to 0.842)	3.093 (1.882 to 5.974)	0.38 (0.219 to 0.789)	2.742 (1.58 to 5.686)	-0.4 (-0.92 to 0.13)
Nepal	2618.434 (1026.864 to 4091.737)	9.357 (3.67 to 14.622)	890.567 (511.496 to 1473.208)	2.644 (1.519 to 4.375)	-4.08 (-4.22 to -3.94)
Netherlands	159.46 (148.565 to 172.869)	1.539 (1.433 to 1.668)	74.893 (66.545 to 84.07)	0.75 (0.667 to 0.842)	-2.66 (-3.37 to -1.95)
New Zealand	32.302 (28.429 to 36.955)	1.085 (0.955 to 1.241)	17.297 (15.145 to 19.757)	0.491 (0.43 to 0.561)	-2.93 (-3.97 to -1.88)
Nicaragua	221.648 (96.431 to 321.252)	3.643 (1.585 to 5.28)	33.597 (19.227 to 100.346)	0.478 (0.274 to 1.428)	-6.66 (-6.82 to -6.49)
Niger	730.829 (272.318 to 1597.409)	5.571 (2.076 to 12.177)	1265.246 (599.04 to 2329.605)	3.002 (1.421 to 5.527)	-2.08 (-2.31 to -1.86)
Nigeria	6632.307 (2634.757 to 16906.024)	5.055 (2.008 to 12.886)	11232.357 (6956.662 to 18736.727)	3.251 (2.014 to 5.423)	-1.08 (-1.4 to -0.76)
Niue	0.057 (0.037 to 0.11)	2.051 (1.338 to 3.989)	0.081 (0.05 to 0.17)	5.699 (3.514 to 11.873)	0.8 (-0.07 to 1.67)
North Macedonia	17.213 (10.591 to 33.316)	0.913 (0.562 to 1.768)	3.372 (1.737 to 10.03)	0.279 (0.144 to 0.831)	-3.13 (-3.56 to -2.7)
Northern Mariana Islands	0.302 (0.177 to 0.656)	0.689 (0.404 to 1.495)	0.168 (0.106 to 0.349)	0.414 (0.262 to 0.86)	-1.69 (-2.14 to -1.23)
Norway	123.948 (116.662 to 131.82)	4.12 (3.878 to 4.382)	16.211 (14.61 to 17.796)	0.483 (0.435 to 0.53)	-7.84 (-8.78 to -6.9)
Oman	62.732 (31.579 to 168.494)	2.315 (1.165 to 6.217)	55.293 (17.7 to 92.057)	1.371 (0.439 to 2.282)	0.87 (-0.91 to 2.69)
Pakistan	15570.504 (6300.378 to 23769.953)	9.446 (3.822 to 14.42)	16411.647 (8252.674 to 25887.549)	5.557 (2.794 to 8.765)	-0.77 (-1.19 to -0.34)
Palau	0.292 (0.155 to 0.564)	1.75 (0.927 to 3.382)	0.132 (0.067 to 0.286)	1.105 (0.557 to 2.386)	-1.36 (-1.52 to -1.2)
Palestine	252.811 (103.776 to 419.08)	7.833 (3.215 to 12.985)	137.183 (54.593 to 289.674)	2.107 (0.839 to 4.449)	-3.44 (-3.76 to -3.13)
Panama	58.741 (48.402 to 70.031)	1.998 (1.647 to 2.383)	18.466 (14.834 to 22.631)	0.453 (0.364 to 0.555)	-5.55 (-6.21 to -4.88)
Papua New Guinea	349.696 (187.347 to 602.424)	6.076 (3.255 to 10.466)	757.432 (438.309 to 1307.051)	5.718 (3.309 to 9.867)	-0.08 (-0.21 to 0.05)
Paraguay	67.243 (45.685 to 129.98)	1.202 (0.817 to 2.323)	42.589 (24.412 to 109.517)	0.59 (0.338 to 1.517)	-2.13 (-2.37 to -1.9)
Peru	1856.13 (904.698 to 3032.265)	6.446 (3.142 to 10.53)	663.053 (436.613 to 944.966)	1.96 (1.291 to 2.793)	-3.2 (-3.38 to -3.02)
Philippines	1957.983 (1212.272 to 3485.529)	2.259 (1.399 to 4.022)	1135.711 (826.417 to 2668.307)	0.938 (0.683 to 2.204)	-2.47 (-2.67 to -2.27)
Poland	305.505 (269.055 to 357.517)	0.908 (0.799 to 1.062)	79.443 (71.327 to 87.204)	0.382 (0.343 to 0.419)	-2.79 (-2.99 to -2.58)
Portugal	244.413 (222.156 to 269.942)	3.032 (2.756 to 3.349)	52.509 (44.864 to 60.105)	1.013 (0.866 to 1.16)	-4.06 (-4.64 to -3.46)

Puerto Rico	290.203 (264.038 to 318.77)	8.057 (7.331 to 8.85)	12.789 (10.592 to 15.576)	0.724 (0.599 to 0.882)	-8.77 (-9.32 to -8.21)
Qatar	11.981 (7.45 to 23.646)	2.894 (1.8 to 5.713)	20.066 (9.984 to 31.08)	1.243 (0.618 to 1.925)	-1.03 (-1.9 to -0.16)
Republic of Korea	1368.057 (881.533 to 2036.192)	3.177 (2.047 to 4.728)	167.216 (112.521 to 260.424)	0.738 (0.496 to 1.149)	-4.5 (-4.67 to -4.32)
Republic of Moldova	4.111 (3.388 to 4.932)	0.096 (0.079 to 0.115)	2.686 (2.171 to 3.33)	0.143 (0.115 to 0.177)	2.42 (0.86 to 4.01)
Romania	412.668 (351.469 to 489.965)	2.034 (1.732 to 2.415)	139.796 (121.824 to 159.278)	1.279 (1.115 to 1.458)	-1.12 (-1.4 to -0.85)
Russian Federation	5276.948 (5017.681 to 5555.039)	4.319 (4.107 to 4.547)	605.907 (554.46 to 652.02)	0.663 (0.607 to 0.714)	-5.77 (-6.38 to -5.16)
Rwanda	768.775 (380.768 to 1902.016)	6.87 (3.403 to 16.996)	326.203 (180.863 to 648.167)	1.874 (1.039 to 3.723)	-4.75 (-5.04 to -4.46)
Saint Kitts and Nevis	1.11 (0.859 to 1.41)	2.235 (1.73 to 2.837)	0.199 (0.157 to 0.254)	0.523 (0.412 to 0.668)	-5.71 (-6.38 to -5.04)
Saint Lucia	15.117 (12.178 to 18.172)	8.372 (6.744 to 10.064)	2.104 (1.575 to 2.772)	1.855 (1.388 to 2.444)	-5.74 (-6.2 to -5.28)
Saint Vincent and the Grenadines	2.929 (2.391 to 3.637)	2.015 (1.645 to 2.502)	0.605 (0.463 to 0.776)	0.664 (0.508 to 0.851)	-5.24 (-6.22 to -4.24)
Samoa	5.422 (3.421 to 9.898)	2.189 (1.381 to 3.997)	4.082 (2.397 to 8.078)	1.496 (0.878 to 2.959)	-1.1 (-1.22 to -0.98)
San Marino	0.122 (0.082 to 0.197)	0.754 (0.505 to 1.218)	0.039 (0.025 to 0.07)	0.232 (0.146 to 0.415)	-3.42 (-3.53 to -3.3)
Sao Tome and Principe	6.172 (2.766 to 15.642)	3.266 (1.464 to 8.278)	2.666 (1.244 to 6.167)	0.968 (0.452 to 2.24)	-3.53 (-3.91 to -3.15)
Saudi Arabia	707.553 (397.913 to 1246.227)	3.187 (1.792 to 5.613)	128.259 (53.958 to 325.373)	0.468 (0.197 to 1.187)	-5.59 (-6.14 to -5.03)
Senegal	582.815 (270.166 to 1291.195)	4.847 (2.247 to 10.738)	464.233 (263.913 to 794.197)	2.116 (1.203 to 3.619)	-2.24 (-2.67 to -1.79)
Serbia	40.083 (23.741 to 110.009)	0.511 (0.303 to 1.402)	7.697 (4.226 to 29.192)	0.152 (0.083 to 0.576)	-3.95 (-4.27 to -3.62)
Seychelles	0.656 (0.401 to 1.467)	0.776 (0.474 to 1.736)	0.364 (0.199 to 0.814)	0.441 (0.241 to 0.986)	-0.07 (-0.48 to 0.35)
Sierra Leone	512.298 (193.995 to 1240.015)	8.59 (3.253 to 20.791)	541.992 (314.693 to 981.751)	4.405 (2.557 to 7.979)	-2.06 (-2.26 to -1.87)
Singapore	162.279 (145.487 to 180.27)	6.517 (5.842 to 7.239)	47.921 (39.689 to 56.157)	1.699 (1.407 to 1.99)	-3.89 (-4.25 to -3.54)
Slovakia	23.094 (14.281 to 67.169)	0.487 (0.301 to 1.415)	6.617 (3.909 to 20.559)	0.218 (0.129 to 0.678)	-1.98 (-2.2 to -1.76)
Slovenia	1.57 (1.274 to 1.919)	0.104 (0.085 to 0.127)	0.731 (0.56 to 0.917)	0.067 (0.051 to 0.084)	-1.91 (-2.15 to -1.68)
Solomon Islands	11.734 (6.211 to 19.89)	2.23 (1.18 to 3.78)	12.2 (7.055 to 23.074)	1.364 (0.789 to 2.58)	-1.58 (-1.74 to -1.42)

Somalia	951.93 (359.05 to 1893.871)	7.439 (2.806 to 14.8)	1340.004 (475.903 to 2810.43)	3.876 (1.377 to 8.13)	-1.79 (-2.02 to -1.55)
South Africa	639.766 (464.88 to 891.611)	1.343 (0.976 to 1.871)	383.759 (301.738 to 490.819)	0.713 (0.56 to 0.911)	-1.37 (-1.64 to -1.09)
South Sudan	742.775 (262.235 to 1761.958)	8.359 (2.951 to 19.83)	796.608 (422.396 to 1555.594)	5.369 (2.847 to 10.484)	-1.31 (-1.69 to -0.92)
Spain	726.732 (661.429 to 797.353)	2.411 (2.194 to 2.645)	276.739 (237.46 to 308.276)	1.162 (0.997 to 1.294)	-2.33 (-2.98 to -1.67)
Sri Lanka	1017.896 (695.261 to 1639.22)	5.199 (3.551 to 8.373)	552.225 (366.022 to 756.934)	2.96 (1.962 to 4.057)	-1.04 (-1.58 to -0.49)
Sudan	4467.791 (1870.466 to 9583.818)	14.958 (6.262 to 32.087)	5187.446 (2546.995 to 7719.626)	8.975 (4.407 to 13.356)	-0.69 (-1.27 to -0.1)
Suriname	90.79 (40.564 to 122.78)	19.637 (8.773 to 26.555)	27.281 (17.745 to 40.451)	5.314 (3.457 to 7.88)	-4.74 (-5.01 to -4.47)
Sweden	137.43 (125.945 to 150.329)	2.412 (2.211 to 2.639)	55.017 (48.465 to 62.682)	0.842 (0.742 to 0.96)	-2.99 (-3.41 to -2.56)
Switzerland	178.352 (135.505 to 227.813)	4.182 (3.177 to 5.342)	53.094 (45.937 to 60.858)	1.114 (0.964 to 1.277)	-4.42 (-4.65 to -4.18)
Syrian Arab Republic	611.005 (286.202 to 1891.453)	3.074 (1.44 to 9.515)	103.299 (45.907 to 426.928)	0.702 (0.312 to 2.902)	-4.65 (-5.18 to -4.11)
Taiwan (Province of China)	46.016 (41.449 to 51.148)	0.233 (0.21 to 0.259)	38.438 (33.741 to 43.628)	0.351 (0.308 to 0.399)	4.25 (3.04 to 5.47)
Tajikistan	808.558 (437.685 to 1261.37)	10.403 (5.631 to 16.229)	704.845 (459.141 to 962.224)	5.851 (3.811 to 7.988)	-1.82 (-2.06 to -1.59)
Thailand	921.32 (531.784 to 1847.696)	1.498 (0.865 to 3.004)	292.93 (195.439 to 562.332)	0.794 (0.53 to 1.524)	-2.22 (-2.53 to -1.91)
Timor-Leste	56.107 (20.574 to 159.356)	5.102 (1.871 to 14.492)	47.868 (27.841 to 93.658)	2.583 (1.502 to 5.053)	-2.41 (-2.66 to -2.16)
Togo	209.068 (96.406 to 465.472)	3.592 (1.656 to 7.997)	222.313 (136.31 to 353.786)	1.969 (1.207 to 3.134)	-1.63 (-1.91 to -1.34)
Tokelau	0.037 (0.023 to 0.069)	1.784 (1.106 to 3.343)	0.084 (0.043 to 0.206)	6.054 (3.141 to 14.907)	-0.1 (-1.61 to 1.44)
Tonga	2.36 (1.608 to 4.093)	1.635 (1.115 to 2.836)	1.525 (0.92 to 3.205)	1.138 (0.686 to 2.39)	-1.06 (-1.26 to -0.86)
Trinidad and Tobago	122.347 (103.866 to 142.659)	8.71 (7.394 to 10.156)	19.411 (14.592 to 24.926)	1.972 (1.483 to 2.533)	-5.15 (-5.65 to -4.64)
Tunisia	645.131 (380.974 to 1114.935)	5.98 (3.531 to 10.334)	202.748 (121.397 to 311.36)	2.091 (1.252 to 3.211)	-2.19 (-2.64 to -1.73)
Turkey	23949.833 (9450.346 to 42354.887)	33.196 (13.099 to 58.707)	3757.993 (2723.799 to 4934.076)	5.624 (4.076 to 7.384)	-5.05 (-5.27 to -4.83)
Turkmenistan	57.976 (37.792 to 81.221)	1.137 (0.741 to 1.593)	47.14 (36.959 to 60.17)	0.889 (0.697 to 1.135)	-1.25 (-1.65 to -0.86)
Tuvalu	0.555 (0.3 to 1.042)	4.807 (2.597 to 9.021)	0.225 (0.144 to 0.432)	1.69 (1.085 to 3.25)	-3.17 (-3.35 to -2.99)

Uganda	1951.911 (817.973 to 3942.365)	7.01 (2.938 to 14.158)	1617.35 (983.473 to 3029.49)	2.398 (1.458 to 4.492)	-3.55 (-3.74 to -3.35)
Ukraine	302.046 (230.147 to 398.933)	0.742 (0.565 to 0.98)	134.822 (112.929 to 161.4)	0.59 (0.495 to 0.707)	-0.35 (-0.67 to -0.03)
United Arab Emirates	268.056 (161.467 to 417.458)	14.022 (8.446 to 21.836)	94.193 (62.428 to 156.591)	2.055 (1.362 to 3.416)	-4.23 (-4.82 to -3.63)
United Kingdom	1321.69 (1034.521 to 1663.345)	3.295 (2.579 to 4.147)	423.211 (371.341 to 469.733)	1 (0.877 to 1.11)	-3.18 (-3.46 to -2.9)
United Republic of Tanzania	2019.811 (1069.758 to 4684.21)	5.006 (2.651 to 11.608)	2089.341 (1249.229 to 3979.792)	2.504 (1.497 to 4.77)	-1.89 (-2.06 to -1.71)
United States of America	6416.551 (5770.471 to 7285.977)	3.205 (2.882 to 3.639)	3306.417 (3005.588 to 3638.664)	1.504 (1.367 to 1.655)	-2.5 (-2.69 to -2.32)
United States Virgin Islands	7.253 (4.262 to 9.738)	6.43 (3.779 to 8.633)	0.558 (0.347 to 0.837)	1.132 (0.703 to 1.699)	-5.43 (-5.78 to -5.08)
Uruguay	112.079 (97.681 to 127.975)	3.849 (3.354 to 4.394)	22.529 (18.882 to 26.606)	0.922 (0.773 to 1.089)	-4.8 (-5 to -4.61)
Uzbekistan	967.171 (805.193 to 1158.534)	3.35 (2.789 to 4.013)	566.892 (471.781 to 668.58)	1.663 (1.384 to 1.961)	-1.21 (-1.81 to -0.62)
Vanuatu	6.787 (3.857 to 12.313)	3.008 (1.709 to 5.457)	8.215 (4.9 to 16.732)	2.061 (1.229 to 4.197)	-1.2 (-1.52 to -0.88)
Venezuela (Bolivarian Republic of)	452.244 (384.33 to 530.595)	1.843 (1.566 to 2.162)	136.633 (98.228 to 185.618)	0.577 (0.415 to 0.784)	-4.16 (-4.76 to -3.56)
Viet Nam	1390.183 (861.385 to 2512.261)	1.527 (0.946 to 2.76)	653.071 (371.403 to 1250.879)	0.764 (0.434 to 1.463)	-1.49 (-1.8 to -1.18)
Yemen	2731.191 (1300.553 to 4954.671)	12.013 (5.72 to 21.793)	3861.283 (2111.31 to 5713.841)	8.173 (4.469 to 12.094)	-0.35 (-0.88 to 0.18)
Zambia	523.481 (244.927 to 1356.699)	4.119 (1.927 to 10.674)	506.757 (307.668 to 907.93)	1.793 (1.088 to 3.212)	-2.45 (-2.67 to -2.23)
Zimbabwe	167.441 (95.803 to 264.073)	1.028 (0.588 to 1.622)	371.554 (235.557 to 576.446)	1.721 (1.091 to 2.67)	2.75 (2.27 to 3.22)

Abbreviations: PAH, pulmonary arterial hypertension; ASDR, age-standardized DALYs rate; EAPC, estimated annual percentage change; UIs, uncertainty intervals; CI, confidence interval.



eFigure 1

(A) The trend in the number of PAH incidence among children and adolescents globally and across different SDI regions

(B) The trend in the number of PAH death among children and adolescents globally and across different SDI regions

(C) The trend in the number of PAH DALYs among children and adolescents globally and across different SDI regions

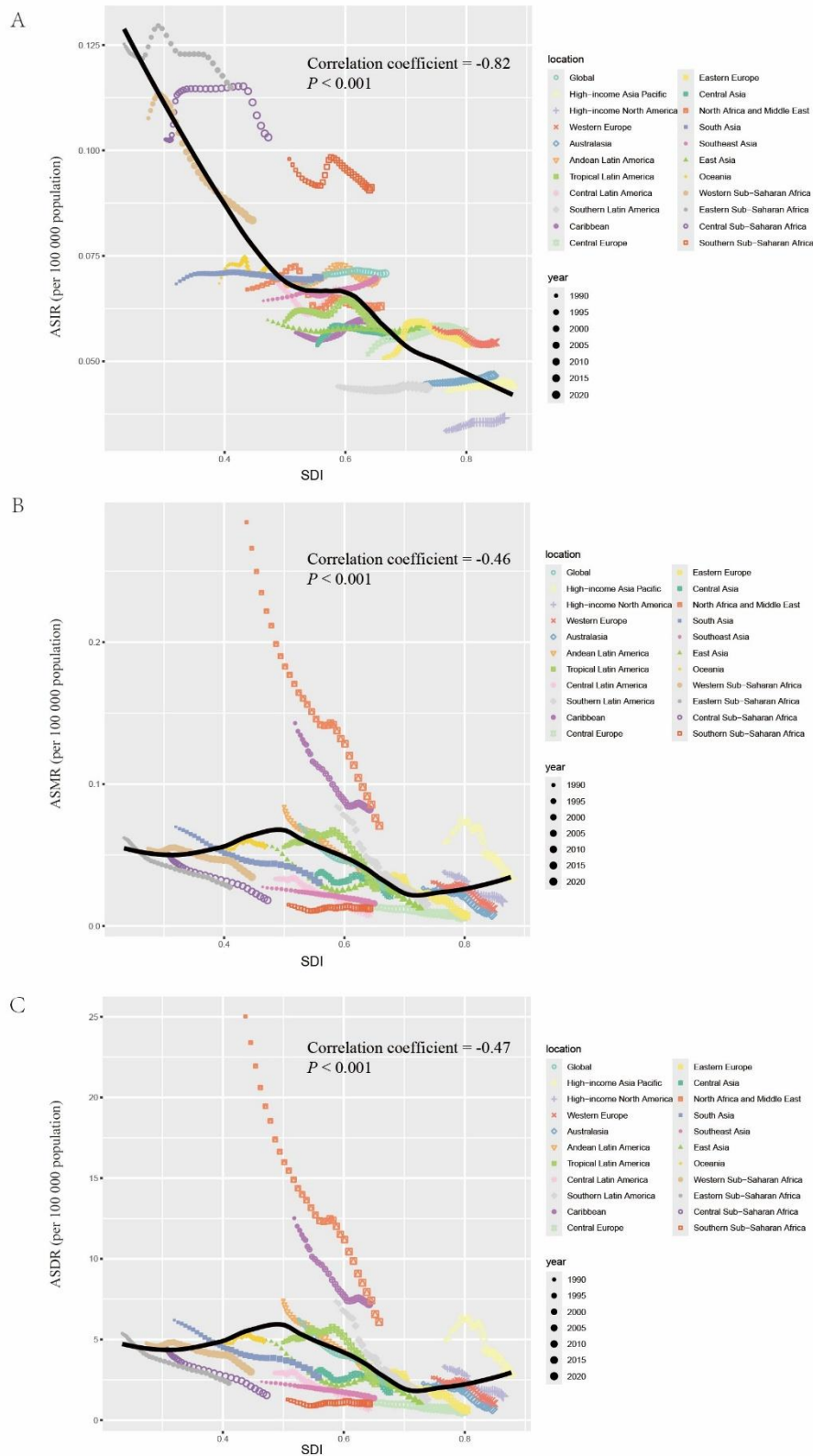
(D) The trend in the ASIR of PAH among children and adolescents globally and across different SDI regions

(E) The trend in the ASMR of PAH among children and adolescents globally and across different SDI regions

(F) The trend in the ASDR of PAH among children and adolescents globally and across different SDI regions

Abbreviations: ASIR, age-standardized incidence rate; ASMR, age-standardized mortality rate; ASDR, age-standardized DALYs rate; DALYs, disability-adjusted life-years; PAH, pulmonary arterial hypertension.

eFigure 2



eFigure 2 Trends of PAH ASRs among children and adolescents across 21 regions by SDI from 1990 to 2021. (A) ASIR. (B) ASMR. (C) ASDR.

Abbreviations: ASIR, age-standardized incidence rate; ASMR, age-standardized mortality rate; ASDR, age-standardized DALYs rate; DALYs, disability-adjusted life years; PAH, pulmonary arterial hypertension; SDI, sociodemographic index.

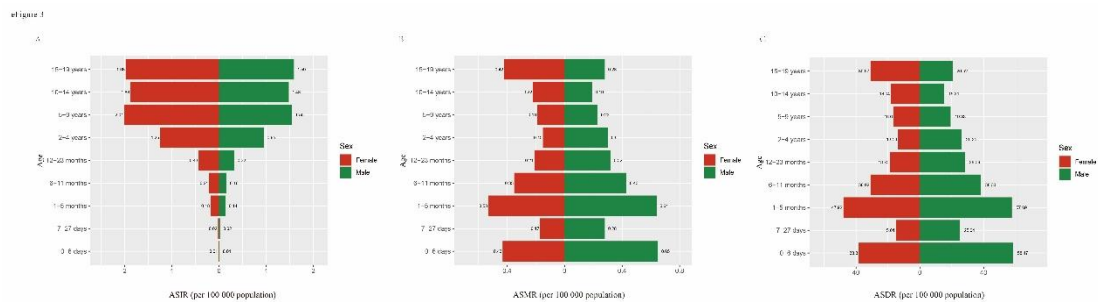


Figure 3 Age and sex distribution of global burden of PAH among children and adolescents in 2021. (A) ASIR. (B) ASMR. (C) ASDR.

Abbreviations: ASIR, age-standardized incidence rate; ASMR, age-standardized mortality rate; ASDR, age-standardized DALYs rate; DALYs, disability-adjusted life years; PAH, pulmonary arterial hypertension.