

Table S1. prevalence and AAPC of PCOS in adolescents and young adults aged 10-24 years at global and regional level, 1990-2021

	Cases (n), 1990	prevalence (per 100 000 population), 1990	Cases (n), 2021	prevalence (per 100 000 population), 2021	AAPC(95% CI)	<i>P</i> value
Global	12431336 (8626816,1749854) 4)	1633.33 (1133.46,2299.1)	19709918 (13796725,27652540)	2141.62 (1499.11,3004.64)	0.875(0.823, 0.928)	<0.001
SDI level						
High SDI	3768684 (2675963,5238380))	3951.4 (2805.7,5492.35)	4216132 (3081581,5758595)	4695.75 (3432.14,6413.69)	0.535(0.469, 0.6)	<0.001
High-middle SDI	2349707 (1644747,3312353))	1687.87 (1181.48,2379.37)	2668088 (1867326,3743161)	2483.8 (1738.35,3484.62)	1.251(1.18,1.322)	<0.001
Low SDI	452785 (303241,673024)	585.21 (391.93,869.87)	1600769 (1083526,2349489)	870.36 (589.13,1277.45)	1.304(1.26,1.347)	<0.001
Low-middle SDI	1618051 (1097482,2335540))	906.73 (615.01,1308.8)	4134612 (2821138,5955474)	1523.82 (1039.73,2194.9)	1.699(1.67,1.728)	<0.001
Middle SDI	4233190 (2907310,5954015))	1567.69 (1076.67,2204.96)	7075603 (4939058,9961540)	2648.26 (1848.59,3728.41)	1.711(1.68,1.742)	<0.001
GBD super regions						
Central Europe, Eastern Europe, and Central Asia	128938 (81630,203730)	272.34 (172.42,430.32)	140060 (91746,208148)	393.2 (257.56,584.34)	1.199(1.153, 1.245)	<0.001
High-income	4614298	4632.58 (3278.3,6404.12)	4714395	5076.78	0.266(0.187, 0.345)	<0.001

	(3265361,6378845)		(3413917,6443751)	(3676.33,6939.06)	0.344)	01
	)					
Latin America and Caribbean	1449842	2299.6 (1560.36,3265.15)	2037289	2861.41	0.712(0.593,	<0.0
	(983767,2058595)		(1394722,2860024)	(1958.91,4016.96)	0.832)	01
North Africa and Middle East	1063335	1998.97	2143681	2728.35	1.047(0.957,	<0.0
	(719382,1533498)	(1352.37,2882.84)	(1461268,3046452)	(1859.81,3877.34)	1.137)	01
South Asia	1245289	771.41 (529.1,1111.77)	3665869	1440.81 (981.9,2057.25)	2.079(1.987,	<0.0
	(854124,1794731)		(2498276,5234304)		2.171)	01
Southeast Asia, East Asia, and Oceania	3414319	1330.41 (922.68,1904.28)	5361179	2696.22	2.316(2.273,	<0.0
	(2367918,4887061)		(3690728,7606803)	(1856.12,3825.58)	2.358)	01
	)					
Sub-Saharan Africa	515317	645.37 (427.32,953.53)	1647444	872.57 (584.44,1266.09)	0.996(0.917,	<0.0
	(341203,761375)		(1103435,2390413)		1.076)	01
GBD regions						
Andean Latin America	199055	3216.21 (2203.11,4581.35)	385860	4616.31	1.214(1.136,	<0.0
	(136353,283545)		(262340,557081)	(3138.56,6664.74)	1.292)	01
Australasia	130812	5537.06	175161	6282.07 (4485.5,8656.54)	0.405(0.373,	<0.0
	(94909,176618)	(4017.33,7475.94)	(125068,241368)		0.437)	01
Caribbean	86179	1603.21	113122	2019.41	0.761(0.704,	<0.0
	(57287,122375)	(1065.73,2276.57)	(75570,162485)	(1349.05,2900.62)	0.818)	01
Central Asia	42892	436.36 (278.36,660.63)	66217	616.23 (408.91,895.18)	1.133(1.027,	<0.0
	(27362,64937)		(43939,96192)		1.24)	01
Central Europe	32690	228.74 (137.36,364.83)	26398	300.13 (194.39,442.39)	0.879(0.868,	<0.0
	(19630,52138)		(17098,38911)		0.89)	01
Central Latin America	993587	3618.3 (2474.79,5131.27)	1333355	4127.55	0.429(0.247,	<0.0
	(679580,1409050)		(914019,1852635)	(2829.44,5735.03)	0.613)	01

Central Sub-Saharan Africa	45114 (29642,67823)	523.26 (343.8,786.65)	182638 (120739,270108)	817.12 (540.18,1208.46)	1.47(1.359,1 .58)	<0.0 01
East Asia	1998234 (1365038,2883696)	1101.76 (752.63,1589.97)	2208979 (1521893,3142326)	1947.09 (1341.46,2769.78)	1.841(1.738, 1.943)	<0.0 01
Eastern Europe	53355 (32278,84715)	229.75 (138.99,364.79)	47445 (30107,74884)	295.06 (187.23,465.7)	0.821(0.766, 0.876)	<0.0 01
Eastern Sub-Saharan Africa	191571 (125543,285234)	610.63 (400.17,909.19)	598292 (398753,873224)	820.67 (546.97,1197.79)	0.988(0.933, 1.044)	<0.0 01
High-income Asia Pacific	1188814 (847009,1641401)	5793.95 (4128.09,7999.74)	853375 (608597,1159446)	6725.49 (4796.38,9137.64)	0.473(0.395, 0.551)	<0.0 01
High-income North America	1185291 (831896,1667724)	3964.9 (2782.76,5578.68)	1666580 (1227032,2238899)	4781.08 (3520.1,6422.94)	0.529(0.337, 0.722)	<0.0 01
North Africa and Middle East	1063335 (719382,1533498)	1998.97 (1352.37,2882.84)	2143681 (1461268,3046452)	2728.35 (1859.81,3877.34)	1.047(0.957, 1.137)	<0.0 01
Oceania	16342 (10949,23542)	1619.93 (1085.35,2333.6)	44254 (30217,63414)	2301.46 (1571.44,3297.9)	1.116(1.049, 1.183)	<0.0 01
South Asia	1245289 (854124,1794731)	771.41 (529.1,1111.77)	3665869 (2498276,5234304)	1440.81 (981.9,2057.25)	2.079(1.987, 2.171)	<0.0 01
Southeast Asia	1399742 (972712,1993387)	1884.95 (1309.89,2684.38)	3107946 (2133488,4370294)	3723.54 (2556.07,5235.92)	2.243(2.169, 2.317)	<0.0 01
Southern Latin America	96540 (67078,139270)	1459.41 (1014.03,2105.36)	185139 (129368,264863)	2450.72 (1712.47,3506.03)	1.72(1.666,1 .774)	<0.0 01
Southern Sub-Saharan Africa	94500 (62230,136804)	1080.22 (711.34,1563.79)	147944 (100113,214162)	1364.02 (923.03,1974.55)	0.798(0.653, 0.943)	<0.0 01
Tropical Latin America	171020	711.9 (455.53,1066.44)	204952	821.96 (542.95,1190.19)	0.447(0.341, 	<0.0

	(109433,256190)		(135381,296770)		0.552)	01
Western Europe	2012841	5005.2 (3496.41,6995.51)	1834139	5244.49	0.148(0.133,	<0.0
	(1406079,2813244)		(1291622,2559540)	(3693.23,7318.68)	0.163)	01
	)					
Western Sub-Saharan Africa	184131	591.96 (390.17,888.8)	718570	868.86 (579.62,1270.9)	1.264(1.133,	<0.0
	(121364,276465)		(479364,1051075)		1.394)	01

Table S2. DALYs and AAPC of PCOS in adolescents and young adults aged 10-24 years at global and regional level, 1990-2021

	Cases (n), 1990	DALYs (per 100 000 population), 1990	Cases (n), 2021	DALYs (per 100 000 population), 2021	AAPC(95% CI)	<i>P</i> value
Global	113006 (50849,228343)	14.85 (6.68,30)	178473 (80140,363894)	19.39 (8.71,39.54)	0.862(0.798, 0.926)	<0.001
SDI level						
High SDI	34213 (15575,69512)	35.87 (16.33,72.88)	38279 (17538,77784)	42.63 (19.53,86.63)	0.535(0.454, 0.617)	<0.001
High-middle SDI	21147 (9563,42805)	15.19 (6.87,30.75)	24153 (10872,49162)	22.49 (10.12,45.77)	1.272(1.198, 1.346)	<0.001
Low SDI	4119 (1781,8742)	5.32 (2.3,11.3)	14415 (6260,30615)	7.84 (3.4,16.65)	1.286(1.217, 1.355)	<0.001
Low-middle SDI	15003 (6493,31549)	8.41 (3.64,17.68)	37559 (16526,78679)	13.84 (6.09,29)	1.635(1.6,1.67)	<0.001
Middle SDI	38443 (16965,78288)	14.24 (6.28,28.99)	63933 (28477,131523)	23.93 (10.66,49.23)	1.695(1.663, 1.728)	<0.001
GBD super regions						
Central Europe, Eastern Europe, and Central Asia	1196 (498,2596)	2.53 (1.05,5.48)	1289 (554,2724)	3.62 (1.56,7.65)	1.175(1.12,1.229)	<0.001

High-income	41781 (18868,85870)	41.95 (18.94,86.21)	42850 (19557,87244)	46.14 (21.06,93.95)	0.278(0.185, 0.371)	<0.00 1
Latin America and Caribbean	12987 (5774,26989)	20.6 (9.16,42.81)	18167 (8056,37642)	25.52 (11.31,52.87)	0.697(0.584, 0.81)	<0.00 1
North Africa and Middle East	9914 (4334,20509)	18.64 (8.15,38.55)	19609 (8628,40674)	24.96 (10.98,51.77)	0.978(0.857, 1.098)	<0.00 1
South Asia	11597 (5162,24407)	7.18 (3.2,15.12)	33057 (14338,69201)	12.99 (5.64,27.2)	1.954(1.877, 2.031)	<0.00 1
Southeast Asia, East Asia, and Oceania	30872 (13397,64060)	12.03 (5.22,24.96)	48664 (21867,100370)	24.47 (11,50.48)	2.332(2.282, 2.382)	<0.00 1
Sub-Saharan Africa	4659 (1992,9892)	5.84 (2.5,12.39)	14836 (6428,31177)	7.86 (3.4,16.51)	0.985(0.893, 1.078)	<0.00 1
GBD regions						
Andean Latin America	1749 (762,3769)	28.25 (12.3,60.9)	3399 (1488,7063)	40.66 (17.81,84.5)	1.202(1.134, 1.27)	<0.00 1
Australasia	1166 (523,2374)	49.34 (22.12,100.47)	1561 (707,3180)	55.97 (25.35,114.06)	0.404(0.362, 0.446)	<0.00 1
Caribbean	796 (346,1680)	14.8 (6.43,31.24)	1032 (462,2175)	18.43 (8.25,38.83)	0.724(0.666, 0.782)	<0.00 1
Central Asia	392 (164,836)	3.98 (1.67,8.51)	603 (256,1284)	5.61 (2.38,11.95)	1.123(1.026, 1.221)	<0.00 1
Central Europe	298 (122,632)	2.09 (0.86,4.42)	239 (103,491)	2.72 (1.17,5.58)	0.857(0.824, 0.89)	<0.00 1
Central Latin America	8878 (3945,18541)	32.33 (14.37,67.52)	11861 (5319,24583)	36.72 (16.47,76.1)	0.416(0.248, 0.584)	<0.00 1
Central Sub-Saharan Africa	405 (171,853)	4.7 (1.99,9.9)	1643 (710,3399)	7.35 (3.18,15.21)	1.457(1.31,1	<0.00

					.604)	1
East Asia	17762 (7680,37225)	9.79 (4.23,20.52)	19772 (8861,41053)	17.43 (7.81,36.19)	1.861(1.755, 1.968)	<0.00 1
Eastern Europe	506 (198,1113)	2.18 (0.85,4.79)	448 (182,989)	2.78 (1.13,6.15)	0.81(0.744,0 .876)	<0.00 1
Eastern Sub-Saharan Africa	1726 (727,3661)	5.5 (2.32,11.67)	5354 (2321,11228)	7.34 (3.18,15.4)	0.963(0.903, 1.022)	<0.00 1
High-income Asia Pacific	10629 (4703,21388)	51.8 (22.92,104.24)	7621 (3374,15485)	60.06 (26.59,122.03)	0.47(0.392,0 .547)	<0.00 1
High-income North America	10761 (4814,21584)	36 (16.1,72.2)	15128 (7028,30363)	43.4 (20.16,87.11)	0.55(0.317,0 .783)	<0.00 1
North Africa and Middle East	9914 (4334,20509)	18.64 (8.15,38.55)	19609 (8628,40674)	24.96 (10.98,51.77)	0.978(0.857, 1.098)	<0.00 1
Oceania	146 (65,305)	14.46 (6.46,30.28)	390 (174,830)	20.28 (9.04,43.18)	1.086(1.022, 1.149)	<0.00 1
South Asia	11597 (5162,24407)	7.18 (3.2,15.12)	33057 (14338,69201)	12.99 (5.64,27.2)	1.954(1.877, 2.031)	<0.00 1
Southeast Asia	12964 (5694,26644)	17.46 (7.67,35.88)	28502 (12699,58488)	34.15 (15.21,70.07)	2.197(2.124, 2.271)	<0.00 1
Southern Latin America	887 (397,1814)	13.4 (6,27.43)	1701 (757,3419)	22.51 (10.03,45.25)	1.727(1.665, 1.789)	<0.00 1
Southern Sub-Saharan Africa	863 (372,1876)	9.86 (4.25,21.44)	1340 (582,2800)	12.36 (5.37,25.82)	0.777(0.675, 0.879)	<0.00 1
Tropical Latin America	1565 (664,3275)	6.52 (2.76,13.63)	1874 (814,3841)	7.52 (3.26,15.41)	0.446(0.352, 0.541)	<0.00 1
Western Europe	18339	45.6 (20.34,93.93)	16840	48.15 (21.06,98.18)	0.172(0.13,0	<0.00

	(8179,37773)		(7365,34336)		.214)	1
Western Sub-Saharan Africa	1666 (718,3547)	5.36 (2.31,11.4)	6499	7.86 (3.37,16.57)	1.26(1.133,1	<0.00
			(2791,13706)		.387)	1

Table S3. Age-standardized rate and AAPC of PCOS in adolescents and young adults aged 10-24 years at global and regional level, 1990-2021

	Incidence				Prevalence				DALYs			
	Age-standardized rate (per 100 000 population), 1990	Age-standardized rate (per 100 000 population), 2021	AAPC	P value	Age-standardized rate (per 100 000 population), 1990	Age-standardized rate (per 100 000 population), 2021	AAPC	P value	Age-standardized rate (per 100 000 population), 1990	Age-standardized rate (per 100 000 population), 2021	AAPC	P value
Global	49.45 (35.57,68.45)	63.26 (45.41,87.28)	0.8(0.77,0.831)	<0.001	1372.77 (984.64,1891.6)	1757.83 (1253.36,2421.26)	0.81(0.77,0.849)	<0.001	12.08 (5.38,25.21)	15.4 (6.91,32.13)	0.795(0.754,0.835)	<0.001
SDI level												
High SDI	120.81 (88.32,167.22)	144.89 (107.28,196.81)	0.571(0.497,0.644)	<0.001	3007.94 (2186.43,4172.47)	3554.29 (2624.21,4816.07)	0.53(0.497,0.563)	<0.001	26.66 (12.08,55.34)	31.37 (14.37,64.)	0.513(0.478,0.548)	<0.001
High-middle SDI	49.47 (35.43,68.6)	72.52 (51.14,101.53)	1.251(1.211,1.291)	<0.001	1262.73 (892.37,1745.92)	1817.62 (1277.35,2529.47)	1.186(1.17,1.202)	<0.001	11.05 (4.96,22.99)	15.91 (7.1,33.31)	1.191(1.169,1.212)	<0.001
Low	20.08	27.79	1.078(1.021,	<0.0	500.06	714.31	1.184(1.101,	<0.0	4.35	6.2	1.177(1.084,	<0.0

SDI	(14.45,28.07)	(19.81,38.87)	1.135)	01	(353.56,711.57)	(504.52,1007.4)	1.266)	01	(1.86,9.22)	(2.67,13.05)	1.271)	01
Low-middle SDI	29.32 (21.09,40.77)	45.2 (31.82,62.95)	1.412(1.376, 1.448)	<0.0 01	745.13 (526.92,1040.82)	1188.74 (828.69,1668.94)	1.525(1.498, 1.553)	<0.0 01	6.59 (2.84,13.85)	10.43 (4.56,21.89)	1.499(1.467, 1.531)	<0.0 01
Middle SDI	48.52 (34.54,67.44)	77.38 (54.44,107.63)	1.524(1.489, 1.558)	<0.0 01	1176.94 (825.22,1630.44)	1971.07 (1395.79,2724.23)	1.687(1.646, 1.729)	<0.0 01	10.32 (4.57,21.76)	17.26 (7.68,36.24)	1.679(1.65,1.709)	<0.0 01
GBD super regions												
Central Europe, Eastern Europe, and Central Asia	9.31 (6.58,13.19)	12.77 (9.1,17.89)	1.04(1.017,1.063)	<0.0 01	224.24 (153.91,326.1)	312.73 (216.79,443.56)	1.092(1.063, 1.121)	<0.0 01	1.98 (0.83,4.17)	2.75 (1.17,5.8)	1.08(1.053,1.107)	<0.0 01
High-income	140.65 (102.33,194.32)	157.39 (116.26,212.41)	0.351(0.294, 0.409)	<0.0 01	3487.86 (2537.97,4764.65)	3946.73 (2914.89,5347.81)	0.387(0.353, 0.421)	<0.0 01	30.92 (14.16,64.2)	34.9 (15.94,71.42)	0.376(0.337, 0.416)	<0.0 01
Latin America and Caribbean	69.4 (48.09,98.87)	82.16 (57.63,115.2)	0.548(0.508, 0.588)	<0.0 01	1676.34 (1150.68,2353.79)	1998.61 (1401.44,2781.11)	0.571(0.494, 0.648)	<0.0 01	14.69 (6.46,30.51)	17.37 (7.66,36.07)	0.544(0.463, 0.626)	<0.0 01

North Africa and Middle East	59.01 (41.15,83. 29)	77.15 (54.45,109 .17)	0.897(0.827, 0.968)	<0.0 01	1548.77 (1073.96,22 00.34)	2075.28 (1453.41,29 32.69)	0.971(0.9,1.0 41)	<0.0 01	13.96 (6.1,29.2 9)	18.4 (8.24,39. 14)	0.912(0.828, 0.995)	<0.0 01
South Asia	25.33 (18.35,34. 97)	42.08 (29.94,58. 32)	1.676(1.563, 1.791)	<0.0 01	642.8 (462.57,893. 35)	1135.87 (799.7,1591. 05)	1.868(1.812, 1.923)	<0.0 01	5.68 (2.49,12. 07)	9.94 (4.34,20. 79)	1.836(1.801, 1.872)	<0.0 01
Southe ast Asia, East Asia, and Oceani a	40.39 (28.79,56. 47)	80.13 (56.57,111. 88)	2.254(2.191, 2.318)	<0.0 01	1026.3 (717.66,144 8.48)	2020.68 (1418.6,284 2.16)	2.218(2.139, 2.297)	<0.0 01	8.92 (3.87,18. 46)	17.66 (7.82,36. 61)	2.234(2.136, 2.333)	<0.0 01
Sub- Sahara n Africa GBD regions	21.53 (15.41,30. 11)	27.83 (19.82,39. 2)	0.85(0.752,0. 948)	<0.0 01	545.32 (384.16,780. 33)	727.03 (512.13,102 9.5)	0.957(0.91,1. 005)	<0.0 01	4.71 (2,9.96)	6.28 (2.72,13. 22)	0.958(0.909, 1.006)	<0.0 01
Andean Latin Americ a	100.3 (68.88,142 .65)	134.14 (92.65,190 .7)	0.955(0.914, 0.996)	<0.0 01	2419.72 (1673.59,33 79.44)	3333.66 (2301.61,46 90.91)	1.065(0.981, 1.149)	<0.0 01	20.98 (9.37,45. 26)	28.78 (12.57,60 .15)	1.048(0.984, 1.113)	<0.0 01
Austral	173.96	202.25	0.487(0.447, 	<0.0	4122.5	4786.95	0.478(0.45,0. 	<0.0	35.97	41.77	0.475(0.431, 	<0.0

asia	(127.23,22 9.44)	(145.07,27 8.86)	0.527)	01	(3027.98,54 52.98)	(3430.23,66 07.27)	506)	01	(16.34,74 .76)	(18.75,86 .35)	0.52)	01
Caribbe an	44.33 (30.33,62. 54)	55.61 (37.61,78. 19)	0.74(0.687,0. 792)	<0.0 01	1186.23 (799.13,170 2.73)	1485.97 (1008.31,21 36.92)	0.73(0.667,0. 793)	<0.0 01	10.5 (4.58,21. 73)	13.03 (5.7,27.3 7)	0.705(0.639, 0.771)	<0.0 01
Central Asia	13.68 (9.46,19.6 3)	18.79 (13.06,26. 29)	1.039(0.999, 1.079)	<0.0 01	348.5 (234.84,511. 4)	483.56 (330.71,678. 72)	1.07(1.037,1. 104)	<0.0 01	3.06 (1.28,6.5 2)	4.24 (1.81,9.1)	1.062(1.036, 1.088)	<0.0 01
Central Europe	7.35 (5.01,10.8 1)	8.97 (6.22,12.6 7)	0.647(0.635, 0.659)	<0.0 01	185.82 (122.77,278. 52)	228.93 (157.78,326. 2)	0.676(0.661, 0.691)	<0.0 01	1.63 (0.68,3.3 6)	2 (0.86,4.1 7)	0.666(0.653, 0.68)	<0.0 01
Central Latin Americ a	107.23 (73.94,151 .71)	115.89 (81.09,162 .25)	0.221(0.114, 0.328)	<0.0 01	2695.62 (1856.93,37 36.43)	2967.64 (2076.22,41 24.04)	0.312(0.168, 0.456)	<0.0 01	23.55 (10.46,49 .22)	25.74 (11.36,53 .72)	0.289(0.137, 0.441)	<0.0 01
Central Sub- Sahara n Africa	17.63 (12.55,24. 87)	26.2 (18.46,36. 97)	1.314(1.226, 1.402)	<0.0 01	445.38 (309.5,646.8 3)	673.86 (465.36,968. 69)	1.392(1.266, 1.519)	<0.0 01	3.83 (1.63,8)	5.82 (2.51,12. 02)	1.379(1.273, 1.484)	<0.0 01
East Asia	32.14 (22.85,44. 87)	58.63 (41.2,82.3 2)	1.975(1.899, 2.052)	<0.0 01	845.57 (600.94,118 5.47)	1548.43 (1085.52,21 70.68)	1.992(1.914, 2.071)	<0.0 01	7.25 (3.13,15. 07)	13.38 (5.91,27. 61)	2.018(1.946, 2.091)	<0.0 01
Eastern Europe	8.56 (5.98,12.0 9)	10.86 (7.64,15.3 8)	0.783(0.742, 0.824)	<0.0 01	206.51 (139.23,298. 06)	264.99 (182.67,381. 43)	0.82(0.795,0. 844)	<0.0 01	1.83 (0.76,3.8 9)	2.35 (0.97,4.9 2)	0.814(0.788, 0.839)	<0.0 01
Eastern	20.71	26.26	0.781(0.757,	<0.0	516.67	669.17	0.857(0.813,	<0.0	4.46	5.77	0.856(0.811,	<0.0

Sub-Saharan Africa	(14.82,29.05)	(18.57,36.96)	0.804)	01	(364.08,741.26)	(472.35,949.85)	0.901)	01	(1.88,9.4)	(2.49,12.17)	0.902)	01
High-income Asia Pacific	193.02 (137.42,268.99)	225.11 (160.59,317.34)	0.495(0.462, 0.528)	<0.0 01	4750.21 (3430.32,6586.66)	5237.62 (3779.21,7307.15)	0.32(0.298,0.342)	<0.0 01	41.4 (18.34,83.4)	45.62 (20.81,92.93)	0.316(0.293, 0.338)	<0.0 01
High-income North America	119.24 (83.99,166.82)	149.79 (111.27,197.64)	0.653(0.484, 0.822)	<0.0 01	2975.32 (2098.69,4185.41)	3729.48 (2777.89,4876.97)	0.659(0.415, 0.904)	<0.0 01	26.6 (11.77,54.7)	33.02 (15.2,66.9)	0.646(0.488, 0.804)	<0.0 01
North Africa and Middle East	59.01 (41.15,83.29)	77.15 (54.45,109.17)	0.897(0.827, 0.968)	<0.0 01	1548.77 (1073.96,2200.34)	2075.28 (1453.41,2932.69)	0.971(0.9,1.041)	<0.0 01	13.96 (6.1,29.29)	18.4 (8.24,39.14)	0.912(0.828, 0.995)	<0.0 01
Oceania	49.56 (34.79,69.76)	69.33 (48.42,97.52)	1.062(1.001, 1.123)	<0.0 01	1278.85 (881.22,1798.41)	1772.65 (1232.67,2531.47)	1.022(0.967, 1.077)	<0.0 01	11.14 (5.06,23.3)	15.41 (6.71,32.47)	1.017(0.965, 1.069)	<0.0 01
South Asia	25.33 (18.35,34.97)	42.08 (29.94,58.32)	1.676(1.563, 1.791)	<0.0 01	642.8 (462.57,893.35)	1135.87 (799.7,1591.05)	1.868(1.812, 1.923)	<0.0 01	5.68 (2.49,12.07)	9.94 (4.34,20.79)	1.836(1.801, 1.872)	<0.0 01
Southeast Asia	58.95 (41.5,82.07)	110.11 (77.87,153.89)	2.065(2.009, 2.121)	<0.0 01	1522.31 (1075.34,2154.4)	2842.65 (1993.15,3997.51)	2.065(1.986, 2.144)	<0.0 01	13.5 (5.92,27.49)	25.06 (11.1,51.68)	2.024(1.96,2.088)	<0.0 01

Southern Latin America	46.78 (32.37,66.78)	74.53 (52.77,106.57)	1.526(1.465, 1.587)	<0.001	1185.87 (822.02,1727.03)	1892.5 (1326.86,2707.18)	1.531(1.465, 1.597)	<0.001	10.5 (4.71,21.66)	16.74 (7.33,34.66)	1.538(1.469, 1.607)	<0.001
Southern Sub-Saharan Africa	33.79 (23.76,47.64)	42.33 (29.66,59.97)	0.764(0.69,0.839)	<0.001	870.65 (601.45,1246.58)	1094.76 (749.33,1548.05)	0.776(0.697, 0.855)	<0.001	7.59 (3.27,16.39)	9.47 (4.1,19.92)	0.736(0.659, 0.813)	<0.001
Tropical Latin America	23.31 (15.97,33.28)	24.9 (17.12,35.01)	0.203(0.111, 0.295)	<0.001	558.68 (379.28,801.65)	610 (419.25,869.52)	0.268(0.107, 0.429)	0.001	4.97 (2.11,10.47)	5.38 (2.33,11.29)	0.241(0.152, 0.329)	<0.001
Western Europe	143.35 (100.92,200.55)	154.64 (109.19,215.84)	0.242(0.221, 0.264)	<0.001	3547.26 (2498.52,4925.03)	3942.92 (2761.02,5529.65)	0.337(0.315, 0.36)	<0.001	31.64 (14.36,65.86)	35.16 (15.84,72.77)	0.334(0.308, 0.36)	<0.001
Western Sub-Saharan Africa	20.04 (14.4,27.97)	27.8 (19.81,39.19)	1.074(0.971, 1.177)	<0.001	501.95 (354.54,717.07)	722.68 (508.32,1026.25)	1.195(1.087, 1.303)	<0.001	4.32 (1.85,9.1)	6.24 (2.69,13.23)	1.203(1.099, 1.307)	<0.001

Table S4. Global AAPCs incidence, prevalence and DALYs of PCOS

	Incidence		Prevalence		DALYs	
	AAPC(95% CI)	<i>P</i> value	AAPC(95% CI)	<i>P</i> value	AAPC(95% CI)	<i>P</i> value
1990-2000	1.04(0.971,1.109)	<0.001	0.824(0.705,0.943)	<0.001	0.841(0.7,0.982)	<0.001
2001-2010	0.084(0.008,0.159)	0.03	1.069(0.976,1.163)	<0.001	1.079(0.954,1.203)	<0.001
2011-2021	1.314(1.26,1.369)	<0.001	0.737(0.7,0.774)	<0.001	0.674(0.633,0.715)	<0.001
1990-2021	0.837(0.797,0.877)	<0.001	0.875(0.823,0.928)	<0.001	0.862(0.798,0.926)	<0.001

Table S5. Age-specific prevalence, incidence, and DALYs of PCOS in adolescents and young adults aged 10-24 years at global level, 1990-2021

Age group(years)	Case in 1990 (million)	Age-specific rate in 1990 (per 100 000)	Case in 2021 (million)	Age-specific rate in 2021 (per 100 000)	AAPC(95% CI)	<i>P</i> value
Prevalence (95% UI)						
10-14	1163280 (606486,1939157)	444.97 (231.99,741.75)	1900416 (1006274,3100291)	588.5 (311.61,960.06)	0.904(0.843,0.966)	<0.001
15-19	4919456 (3335366,7017528)	1925.13 (1305.23,2746.17)	7663403 (5183310,10971947)	2523.76 (1707,3613.35)	0.88(0.859,0.901)	<0.001
20-24	6348600 (4514512,8839643)	2600.45 (1849.19,3620.8)	10146099 (7311868,13931506)	3453.97 (2489.13,4742.61)	0.927(0.891,0.963)	<0.001
Incidence (95% UI)						
10-14	688832 (359850,1143474)	263.49 (137.65,437.39)	1125449 (598170,1829495)	348.52 (185.23,566.54)	0.905(0.843,0.967)	<0.001
15-19	699967	273.92 (168.93,435.15)	1056349	347.88 (217.07,540.95)	0.786(0.758,0.814)	<0.001

	(431670,1111990)		(659123,1642603)		.815)	1
20-24	41811 (17488,99990)	17.13 (7.16,40.96)	50237 (20474,124736)	17.1 (6.97,42.46)	-0.01(-0.03,0.01)	0.338
	DALYs (95% UI)					
10-14	10102 (4079,22437)	3.86 (1.56,8.58)	16509 (6691,36570)	5.11 (2.07,11.32)	0.902(0.822,0.981)	<0.001
15-19	44340 (19608,93893)	17.35 (7.67,36.74)	68812 (30360,145847)	22.66 (10,48.03)	0.879(0.857,0.901)	<0.001
20-24	58564 (26050,122606)	23.99 (10.67,50.22)	93151 (41705,193793)	31.71 (14.2,65.97)	0.909(0.871,0.947)	<0.001

Table S6. Prevalence of PCOS in adolescents and young adults aged 10-24 years in 2021 and their AAPCs between 1990-2021 in 204 countries and territories

	Cases (n), 1990	Prevalence (per 100,000 population), 1990	Cases (n), 2021	Prevalence (per 100,000 population), 2021	AAPC (95%CI)	<i>P</i> value
Afghanistan	19768 (13220,29040)	1142.69 (764.17,1678.62)	86989 (58529,124321)	1683.06 (1132.42,2405.35)	1.308(1.105,1.512)	<0.001
Albania	897 (534,1415)	185.48 (110.54,292.66)	664 (416,1019)	265.11 (166.04,406.96)	1.178(1.149,1.206)	<0.001
Algeria	82542 (54914,119769)	1971.87 (1311.85,2861.21)	143884 (96685,207812)	2893.46 (1944.29,4179.02)	1.28(1.151,1.409)	<0.001
American Samoa	199 (135,283)	2716.83 (1835.06,3853.09)	236 (159,345)	3492.77 (2357.89,5115.25)	0.785(0.683,0.886)	<0.001
Andorra	231 (158,326)	3993.74 (2726.92,5643.69)	301 (205,424)	4787.15 (3263.42,6743.34)	0.555(0.426,0.684)	<0.001

					684)	1
Angola	7478 (4871,11175)	469.55 (305.85,701.7)	47292 (30821,70914)	876.88 (571.48,1314.87)	2.063(1.923,2.202)	<0.00 1
Antigua and Barbuda	142 (93,203)	1627.9 (1071.48,2330.34)	218 (146,313)	2251.29 (1507.72,3237.38)	1.07(1.013,1.127)	<0.00 1
Argentina	60965 (42223,88108)	1397.77 (968.06,2020.1)	122721 (84923,176945)	2320.18 (1605.56,3345.36)	1.703(1.655,1.751)	<0.00 1
Armenia	1762 (1138,2700)	411.5 (265.85,630.37)	1576 (1037,2340)	620.6 (408.23,921.29)	1.371(1.239,1.502)	<0.00 1
Australia	99086 (72372,132519)	5086.47 (3715.13,6802.7)	138192 (98455,190207)	6008.06 (4280.41,8269.47)	0.537(0.508,0.566)	<0.00 1
Austria	43313 (30224,60059)	5459.59 (3809.72,7570.44)	37086 (25671,52540)	5470.59 (3786.83,7750.27)	-0.001(-0.047,0.046)	0.98
Azerbaijan	4489 (2877,6989)	429.64 (275.35,668.85)	6929 (4483,10214)	666.2 (431,981.95)	1.432(1.335,1.528)	<0.00 1
Bahamas	846 (556,1243)	2094.44 (1377.37,3078.49)	1232 (810,1809)	2469.74 (1624.17,3625.78)	0.532(0.486,0.578)	<0.00 1
Bahrain	1789 (1190,2561)	2875.78 (1912.34,4115.82)	4806 (3297,6950)	3353.06 (2300.13,4849.12)	0.524(0.27,0.779)	<0.00 1
Bangladesh	77411 (50270,119671)	437.36 (284.01,676.11)	191890 (129240,282839)	813.77 (548.08,1199.47)	2.036(1.877,2.195)	<0.00 1
Barbados	700 (468,1000)	2094.08 (1399.43,2991.71)	698 (465,981)	2487.59 (1657.23,3497.66)	0.558(0.506,0.611)	<0.00 1
Belarus	2673 (1681,4114)	242.95 (152.79,373.95)	2202 (1375,3460)	319.4 (199.33,501.75)	0.941(0.817,1.065)	<0.00 1
Belgium	40715	4134.78 (2814.49,5934.86)	45568	4736.49 (3285.48,6660.6)	0.447(0.397,0.494)	<0.00

	(27714,58440)		(31609,64080)		496)	1
Belize	470 (308,672)	1507.82 (987.65,2155.09)	1554 (1023,2213)	2341.44 (1542.04,3334.78)	1.438(1.354,1.523)	<0.00 1
Benin	4057 (2686,6075)	548.38 (363.06,821.14)	23508 (15414,34245)	1054.69 (691.54,1536.39)	2.136(2.055,2.216)	<0.00 1
Bermuda	162 (107,235)	2631.07 (1731.44,3819.01)	127 (85,186)	2793.3 (1861.54,4078.8)	0.205(0.128,0.281)	<0.00 1
Bhutan	690 (459,1041)	663 (440.66,1000.06)	1299 (865,1880)	1297.28 (864.41,1878.29)	2.185(2.085,2.285)	<0.00 1
Bolivia (Plurinational State of)	29008 (19286,42193)	2879.27 (1914.25,4188.05)	65954 (43861,94410)	4124.74 (2743.06,5904.4)	1.201(1.104,1.298)	<0.00 1
Bosnia and Herzegovina	872 (498,1463)	156.95 (89.59,263.39)	677 (412,1077)	256.49 (156.12,408.26)	1.624(1.539,1.709)	<0.00 1
Botswana	1928 (1269,2787)	821.13 (540.46,1187.3)	4654 (3064,6690)	1431.19 (942.28,2057.37)	1.815(1.654,1.976)	<0.00 1
Brazil	168188 (107719,251956)	718.51 (460.18,1076.37)	197267 (130270,285562)	823.31 (543.69,1191.81)	0.422(0.315,0.529)	<0.00 1
Brunei Darussalam	1084 (750,1514)	2946.15 (2037.76,4116.14)	2396 (1728,3328)	4859.32 (3504.71,6750.76)	1.634(1.603,1.665)	<0.00 1
Bulgaria	1986 (1189,3163)	220.37 (131.96,351.1)	1324 (811,2006)	281.3 (172.43,426.33)	0.778(0.717,0.84)	<0.00 1
Burkina Faso	7454 (4870,11208)	498.3 (325.59,749.28)	32627 (21546,47429)	862.54 (569.59,1253.85)	1.789(1.69,1.889)	<0.00 1
Burundi	4323 (2824,6348)	504.47 (329.59,740.74)	11653 (7624,17252)	526.24 (344.32,779.1)	0.142(0.077,0.207)	<0.00 1
Cabo Verde	346 (227,526)	602.27 (394.78,916.6)	829 (554,1218)	1118.63 (747.21,1643.8)	2.029(1.942,2.111)	<0.00

					116)	1
Cambodia	22581 (15393,32233)	1370 (933.89,1955.61)	57715 (39595,82400)	2549.97 (1749.41,3640.62)	2.04(1.913,2.168)	<0.00 1
Cameroon	14172 (8939,21227)	859.59 (542.2,1287.5)	60871 (39224,90454)	1172.49 (755.52,1742.3)	1.008(0.957,1.06)	<0.00 1
Canada	54039 (36778,78144)	1889.36 (1285.86,2732.13)	74532 (51909,105433)	2379.24 (1657.07,3365.69)	0.739(0.688,0.79)	<0.00 1
Central African Republic	2774 (1835,4256)	652.09 (431.46,1000.56)	6501 (4258,9638)	706.42 (462.68,1047.29)	0.308(0.215,0.402)	<0.00 1
Chad	3620 (2339,5547)	385.53 (249.1,590.79)	18031 (11959,26884)	609.47 (404.22,908.71)	1.497(1.354,1.639)	<0.00 1
Chile	30000 (20755,43451)	1600.97 (1107.64,2318.8)	53207 (36893,75482)	2784.64 (1930.85,3950.44)	1.799(1.742,1.856)	<0.00 1
China	1906381 (1302031,2759785)	1085.55 (741.42,1571.51)	2112556 (1450762,3013952)	1936.41 (1329.8,2762.65)	1.873(1.751,1.995)	<0.00 1
Colombia	116098 (77652,168254)	2232.81 (1493.4,3235.87)	182560 (123190,267008)	3128.35 (2110.99,4575.46)	1.141(1.045,1.237)	<0.00 1
Comoros	609 (398,946)	790.6 (515.79,1227.49)	1099 (727,1596)	1005.42 (665.48,1459.6)	0.795(0.696,0.895)	<0.00 1
Congo	2836 (1839,4261)	688.7 (446.71,1034.68)	8359 (5510,12258)	993.56 (654.97,1457.04)	1.198(1.135,1.262)	<0.00 1
Cook Islands	78 (52,112)	2723.74 (1811.01,3925.21)	89 (60,130)	4229.46 (2856.7,6162.12)	1.418(1.372,1.465)	<0.00 1
Costa Rica	12905 (8721,18780)	2818.43 (1904.68,4101.53)	21292 (14348,30153)	3895.4 (2624.94,5516.49)	1.052(1.013,1.091)	<0.00 1

Coted'Ivoire	10875 (7066,16640)	566.52 (368.1,866.88)	40203 (26274,59715)	965.97 (631.28,1434.8)	1.763(1.66,1.8 65)	<0.00 1
Croatia	1031 (628,1661)	203.75 (124.24,328.41)	914 (565,1393)	283.52 (175.32,432.1)	1.097(1.028,1. 167)	<0.00 1
Cuba	29467 (19449,42274)	1938.33 (1279.39,2780.81)	23127 (15554,33205)	2451.56 (1648.74,3519.82)	0.775(0.633,0. 918)	<0.00 1
Cyprus	2752 (1891,3959)	3011.64 (2068.63,4331.33)	4673 (3204,6799)	4478.12 (3070.85,6515.05)	1.269(1.173,1. 364)	<0.00 1
Czechia	2365 (1374,3729)	203.6 (118.29,321.08)	1982 (1211,3071)	260.46 (159.2,403.6)	0.786(0.633,0. 939)	<0.00 1
Democratic Republic of Korea	People's 35482 (24510,51244)	1194.58 (825.2,1725.28)	35568 (24316,49986)	1332.57 (911.03,1872.77)	0.35(0.312,0.3 89)	<0.00 1
Democratic Republic of the Congo	30402 (19898,45915)	509.46 (333.44,769.43)	113474 (75226,169090)	773.55 (512.81,1152.68)	1.422(1.261,1. 584)	<0.00 1
Denmark	18518 (12556,26356)	3473.21 (2354.94,4943.25)	22592 (15619,31764)	4413.05 (3050.98,6204.74)	0.778(0.738,0. 819)	<0.00 1
Djibouti	441 (292,674)	634.53 (420.1,969.76)	1802 (1180,2673)	1137.14 (744.57,1687.39)	1.868(1.728,2. 009)	<0.00 1
Dominica	174 (115,257)	1582.85 (1044.3,2332.9)	178 (116,253)	2225.41 (1455.38,3171.76)	1.108(1.044,1. 172)	<0.00 1
Dominican Republic	16827 (11058,24462)	1369.72 (900.16,1991.22)	32274 (21293,46710)	2278.29 (1503.12,3297.36)	1.664(1.624,1. 705)	<0.00 1
Ecuador	61925 (42824,87962)	3766.94 (2604.99,5350.8)	122990 (85481,173376)	5127.63 (3563.84,7228.3)	1.008(0.945,1. 071)	<0.00 1
Egypt	198329 (131321,285110)	2391.11 (1583.24,3437.36)	442911 (301272,640188)	3090.88 (2102.45,4467.58)	0.869(0.822,0. 917)	<0.00 1

El Salvador	19987 (13374,29701)	2211.43 (1479.72,3286.16)	29191 (19541,42467)	3351.07 (2243.25,4875.1)	1.368(1.308,1.428)	<0.00 1
Equatorial Guinea	372 (242,578)	553.71 (360.3,860.55)	3243 (2152,4684)	1417.57 (940.83,2047.82)	3.084(2.867,3.302)	<0.00 1
Eritrea	2449 (1588,3762)	446.93 (289.92,686.72)	7249 (4805,10975)	722.16 (478.62,1093.33)	1.621(1.477,1.765)	<0.00 1
Estonia	410 (252,642)	258.8 (158.76,405.45)	361 (226,579)	366.4 (229.13,588.36)	1.123(0.998,1.247)	<0.00 1
Eswatini	1611 (1055,2318)	1120.27 (733.75,1611.97)	2666 (1774,3808)	1472.6 (980.27,2103.49)	0.94(0.806,1.075)	<0.00 1
Ethiopia	33770 (21925,51252)	421.23 (273.49,639.29)	131452 (87591,195673)	708.07 (471.81,1053.99)	1.701(1.676,1.726)	<0.00 1
Fiji	2437 (1642,3541)	2086.14 (1405.55,3031.67)	3781 (2545,5472)	3226.06 (2171.56,4669.36)	1.407(1.341,1.472)	<0.00 1
Finland	16289 (11152,23286)	3419.78 (2341.27,4888.57)	19515 (13221,27797)	4366.26 (2958.15,6219.39)	0.784(0.707,0.862)	<0.00 1
France	215164 (144408,308060)	3469.6 (2328.63,4967.59)	252635 (172469,360452)	4226.15 (2885.11,6029.74)	0.637(0.614,0.66)	<0.00 1
Gabon	1253 (813,1844)	796.17 (516.54,1171.4)	3769 (2425,5707)	1262.54 (812.51,1911.96)	1.501(1.4,1.603)	<0.00 1
Gambia	905 (587,1343)	565.02 (366.47,838.15)	3692 (2454,5578)	889.37 (591.19,1343.58)	1.489(1.364,1.614)	<0.00 1
Georgia	3433 (2160,5137)	541.92 (340.98,810.86)	2791 (1851,3980)	953.68 (632.41,1359.8)	1.885(1.682,2.087)	<0.00 1
Germany	257820 (178005,357957)	3555.74 (2454.96,4936.78)	249134 (173253,353552)	4168.5 (2898.86,5915.61)	0.509(0.459,0.559)	<0.00 1

Ghana	13822 (8977,20772)	585.65 (380.37,880.14)	49285 (32770,72388)	938.69 (624.13,1378.71)	1.535(1.39,1.679)	<0.00 1
Greece	44427 (30600,63830)	3869.44 (2665.15,5559.47)	36259 (24990,51202)	4785.19 (3298.08,6757.38)	0.657(0.609,0.705)	<0.00 1
Greenland	114 (79,163)	1742.35 (1206.61,2477.56)	117 (82,164)	2111.37 (1490.91,2969.39)	0.608(0.522,0.693)	<0.00 1
Grenada	169 (110,246)	1306.52 (848.5,1899.18)	250 (167,353)	2074.51 (1386.86,2928.19)	1.519(1.403,1.636)	<0.00 1
Guam	546 (365,795)	3053.56 (2044.51,4451.04)	727 (493,1036)	4206.11 (2851.82,5995.44)	1.025(0.978,1.072)	<0.00 1
Guatemala	24304 (16252,34951)	1770.93 (1184.23,2546.73)	72106 (47291,104359)	2893.6 (1897.79,4187.91)	1.577(1.467,1.687)	<0.00 1
Guinea	4273 (2788,6430)	498.84 (325.45,750.64)	17648 (11731,25641)	794.69 (528.25,1154.6)	1.531(1.42,1.642)	<0.00 1
Guinea-Bissau	818 (536,1269)	494.58 (323.77,766.81)	2684 (1771,4058)	794.17 (524.2,1200.75)	1.539(1.433,1.644)	<0.00 1
Guyana	1854 (1229,2759)	1410.66 (935.14,2098.68)	2228 (1463,3147)	2150.99 (1413.06,3039.09)	1.434(1.357,1.511)	<0.00 1
Haiti	10048 (6485,14946)	999.83 (645.28,1487.13)	24157 (16143,35033)	1290.2 (862.18,1871.11)	0.856(0.76,0.953)	<0.00 1
Honduras	13575 (9082,19968)	1755.21 (1174.3,2581.78)	46332 (31173,68141)	2902.29 (1952.72,4268.41)	1.636(1.612,1.659)	<0.00 1
Hungary	2464 (1467,3881)	219.16 (130.43,345.14)	2019 (1287,3128)	286.09 (182.39,443.17)	0.86(0.778,0.942)	<0.00 1
Iceland	1237 (859,1741)	3990.22 (2770.24,5614.02)	1639 (1120,2320)	4917.65 (3360.26,6961.94)	0.663(0.55,0.777)	<0.00 1

India	1024739 (699744,1474525)	828.45 (565.71,1192.08)	3100776 (2125454,4440239)	1623.66 (1112.95,2325.04)	2.228(2.143,2. 314)	<0.00 1
Indonesia	559301 (386438,794979)	1873.81 (1294.67,2663.4)	1283532 (886215,1820463)	3826.78 (2642.2,5427.61)	2.344(2.291,2. 397)	<0.00 1
Iran (Islamic Republic of)	190097 (128765,272720)	2096.82 (1420.32,3008.18)	251317 (169159,359006)	2907.36 (1956.91,4153.16)	1.061(0.743,1. 38)	<0.00 1
Iraq	67537 (45650,100284)	2292.56 (1549.6,3404.16)	165287 (109540,241482)	2729.69 (1809.03,3988.04)	0.597(0.469,0. 724)	<0.00 1
Ireland	16802 (11408,24241)	3535.36 (2400.44,5100.6)	21319 (14677,30240)	4420.56 (3043.34,6270.46)	0.729(0.693,0. 765)	<0.00 1
Israel	20355 (13924,29627)	3062.7 (2095.04,4457.8)	44222 (30125,62753)	4018.74 (2737.64,5702.78)	0.872(0.834,0. 91)	<0.00 1
Italy	752018 (530655,1048850)	12258.02 (8649.76,17096.43)	467091 (329117,662055)	11139.35 (7848.9,15788.9)	-0.309(- 0.368,-0.249)	<0.00 1
Jamaica	5945 (3952,8603)	1543.19 (1025.85,2233.35)	7700 (5055,11010)	2208.94 (1450.06,3158.59)	1.178(1.105,1. 25)	<0.00 1
Japan	1015433 (720633,1396740)	7400.81 (5252.21,10179.91)	682730 (488652,925406)	7978.35 (5710.36,10814.25)	0.227(0.131,0. 323)	<0.00 1
Jordan	13869 (9362,20169)	2170.43 (1465.13,3156.35)	50356 (33807,71815)	2799.71 (1879.62,3992.76)	0.856(0.774,0. 938)	<0.00 1
Kazakhstan	9947 (6410,15120)	463.07 (298.41,703.91)	13065 (8460,19066)	647.36 (419.15,944.66)	1.107(1.007,1. 208)	<0.00 1
Kenya	27610 (18399,40777)	685.19 (456.59,1011.94)	78200 (52332,115016)	905.95 (606.26,1332.47)	0.941(0.714,1. 169)	<0.00 1
Kiribati	202 (136,287)	1825.58 (1230.45,2589.21)	461 (312,657)	2608.62 (1764.81,3715.97)	1.143(1.05,1.2	<0.00

					35)	1
Kuwait	6973 (4780,10110)	3092.44 (2119.8,4483.5)	15359 (10487,21973)	3786.58 (2585.39,5417.05)	0.664(0.601,0.727)	<0.00 1
Kyrgyzstan	2692 (1693,4057)	420.14 (264.29,633.28)	4432 (2818,6657)	508.03 (323.06,763.13)	0.616(0.557,0.674)	<0.00 1
Lao People's Democratic Republic	10246 (6987,14459)	1549.02 (1056.38,2186.05)	32955 (23044,47365)	3189.31 (2230.14,4583.87)	2.365(2.328,2.403)	<0.00 1
Latvia	694 (435,1125)	263.5 (165.15,427.11)	440 (284,684)	333.74 (215.45,518.12)	0.733(0.579,0.887)	<0.00 1
Lebanon	10197 (6870,14800)	2402.45 (1618.58,3486.73)	17610 (11994,25638)	3153.63 (2148.04,4591.48)	0.88(0.776,0.984)	<0.00 1
Lesotho	1879 (1239,2780)	741.25 (488.67,1096.94)	3789 (2526,5596)	1239.32 (826.03,1830.18)	1.667(1.555,1.779)	<0.00 1
Liberia	2178 (1415,3339)	587.7 (381.75,901.22)	7964 (5248,11787)	888.41 (585.46,1314.88)	1.381(1.226,1.535)	<0.00 1
Libya	18789 (12532,27422)	2579.37 (1720.39,3764.55)	26689 (18232,38435)	3122.27 (2132.92,4496.39)	0.639(0.538,0.74)	<0.00 1
Lithuania	952 (571,1527)	237.47 (142.24,380.73)	687 (440,1099)	341.86 (218.94,547.09)	1.19(1.086,1.295)	<0.00 1
Luxembourg	1422 (966,2020)	4003.95 (2720.52,5688.23)	2547 (1749,3628)	4929.45 (3385.6,7021.09)	0.679(0.61,0.749)	<0.00 1
Madagascar	11022 (7125,16720)	570.49 (368.8,865.4)	33327 (21787,49532)	683.5 (446.83,1015.84)	0.629(0.563,0.694)	<0.00 1
Malawi	13030 (8437,19750)	809.03 (523.88,1226.31)	32465 (21277,46737)	894.27 (586.09,1287.4)	0.335(0.249,0.421)	<0.00 1
Malaysia	79485	2982.91 (2066.36,4372.29)	219241	5581.66 (3787.99,7878.67)	2.051(1.922,2.174)	<0.00

		(55062,116508)		(148788,309465)	181)	1	
Maldives		620 (424,896)	1731.3 (1183.04,2501.81)	1906 (1278,2789)	4249.36 (2848.67,6218.7)	2.932(2.722,3.142)	<0.00
Mali		5427 (3559,8345)	418.21 (274.3,643.09)	28395	708.21 (461.57,1063.28)	1.728(1.635,1.821)	<0.00
Malta		1341 (913,1899)	3380.65 (2301.97,4789.03)	1507 (1031,2143)	4879.13 (3337.54,6941.76)	1.205(1.151,1.259)	<0.00
Marshall Islands		103 (70,150)	1379.13 (932.91,2003.58)	211 (144,302)	2581.67 (1767.52,3694.75)	2.038(1.99,2.086)	<0.00
Mauritania		2363 (1562,3631)	733.31 (484.87,1126.96)	7750 (5113,11451)	1057.61 (697.74,1562.71)	1.198(1.11,1.286)	<0.00
Mauritius		4724 (3245,6896)	2954.43 (2029.14,4312.86)	6681 (4624,9570)	5217.44 (3611.29,7474.43)	1.867(1.779,1.956)	<0.00
Mexico		705231	4789.1 (3236.66,6799.08)	834432	5056.93 (3506.51,6980.61)	0.149(-	0.052
		(476622,1001215)		(578601,1151855)		0.001,0.3)	
Micronesia (Federated States of)		308 (207,445)	1823.72 (1224.95,2631.22)	439 (294,634)	2883.22 (1935.78,4169.84)	1.445(1.375,1.515)	<0.00
Monaco		96 (65,136)	4524.38 (3067.93,6384.75)	126 (86,179)	4908.37 (3362.06,6968.85)	0.255(0.196,0.313)	<0.00
Mongolia		1394 (862,2076)	396.25 (245.18,590.32)	2140 (1384,3189)	572.48 (370.33,853.24)	1.208(1.122,1.294)	<0.00
Montenegro		167 (103,264)	217.71 (134.66,344.74)	163 (101,249)	289.38 (179.36,442.74)	0.937(0.885,0.99)	<0.00
Morocco		80946	1991.89 (1327,2814.87)	127990	2791.52 (1874.29,4072.68)	1.121(0.978,1.264)	<0.00
		(53926,114390)		(85936,186731)			1
Mozambique		11937	547.57 (359.4,840.41)	48727	884.85 (581.77,1320.44)	1.579(1.504,1.652)	<0.00

	(7835,18320)		(32037,72714)		655)	1
Myanmar	98819	1496.46 (1032.06,2148.29)	248274	3254.11 (2267.67,4643.55)	2.573(2.486,2.	<0.00
	(68152,141863)		(173013,354282)		66)	1
Namibia	1956 (1321,2802)	811.4 (548.01,1162.26)	4271 (2880,6113)	1136 (766.05,1626)	1.109(1.044,1.	<0.00
					175)	1
Nauru	34 (23,48)	2237 (1508.35,3195.7)	55 (38,80)	3318.1 (2272.22,4805.9)	1.254(1.182,1.	<0.00
					325)	1
Nepal	13563	451.15 (300.84,690.04)	43590	907.53 (601.97,1321.59)	2.286(2.162,2.	<0.00
	(9044,20745)		(28914,63478)		411)	1
Netherlands	56735	3540.19 (2389.05,4949.16)	63008	4282.53 (2947.02,6070.54)	0.604(0.573,0.	<0.00
	(38287,79315)		(43359,89315)		635)	1
New Zealand	31726	7654.89 (5292.28,10880.44)	36969	7573.17 (5338.79,10428.16)	-0.043(-	0.082
	(21934,45095)		(26062,50905)		0.091,0.005)	
Nicaragua	13499	2017.83 (1327.11,3007.26)	28307	3072.74 (2048.16,4458.71)	1.362(1.326,1.	<0.00
	(8878,20119)		(18868,41075)		398)	1
Niger	5496 (3552,8194)	431.57 (278.95,643.43)	26158	612.31 (408.77,913.45)	1.142(1.085,1.	<0.00
			(17463,39023)		199)	1
Nigeria	93630	624.57 (411.85,946.39)	352366	862.54 (576.56,1255.69)	1.064(0.942,1.	<0.00
	(61741,141875)		(235537,512975)		185)	1
Niue	7 (5,10)	2378.38 (1568.36,3496.17)	7 (5,10)	3865.73 (2649.36,5568.55)	1.608(1.347,1.	<0.00
					87)	1
North Macedonia	446 (261,733)	178.61 (104.62,293.97)	473 (297,747)	265.68 (166.5,419.42)	1.303(1.27,1.3	<0.00
					36)	1
Northern Mariana Islands	209 (142,299)	3070.5 (2079.9,4391.33)	197 (133,285)	3564.35 (2417.2,5160.56)	0.463(-	0.145
					0.159,1.088)	
Norway	17583	3929.34 (2734.91,5577.44)	20538	4289.23 (2959.08,6143.05)	0.274(0.179,0.	<0.00

	(12238,24958)		(14169,29415)		369)	1
Oman	4214 (2753,6271)	1729.07 (1129.68,2573.06)	13588	3135.21 (2140.83,4494.98)	1.976(1.877,2.075)	<0.00
Pakistan	128885	761.45 (503.11,1132.59)	328315	938.76 (629.77,1365.13)	0.725(0.546,0.905)	<0.00
Palau	(85157,191704)		(220252,477431)			1
	60 (41,87)	2680.07 (1807.55,3858.57)	61 (42,89)	3750.71 (2582.57,5418.21)	1.062(0.993,1.131)	<0.00
Palestine	6582 (4374,9439)	1985.5 (1319.4,2847.45)	20789	2579.52 (1724.93,3727.78)	0.854(0.769,0.939)	<0.00
Panama	7448 (4913,10939)	1991.95 (1313.87,2925.49)	17398	3234.97 (2190.24,4751.65)	1.557(1.5,1.615)	<0.00
Papua New Guinea	8855 (5880,12720)	1407.67 (934.79,2022.09)	30852	2130.51 (1449.91,3063.31)	1.318(1.221,1.415)	<0.00
Paraguay	2832 (1753,4335)	460.42 (284.96,704.89)	7684 (4922,11420)	788.8 (505.2,1172.22)	1.759(1.674,1.844)	<0.00
Peru	108122	3056.25 (2052.19,4379.41)	196916	4515.32 (3042.57,6687.04)	1.299(1.179,1.42)	<0.00
Philippines	(72601,154932)		(132689,291626)			1
	202069	1984.18 (1352.32,2836.74)	569582	3595.53 (2477.94,5150.03)	1.965(1.852,2.077)	<0.00
	(137721,288893)		(392541,815836)			1
Poland	12981	309.56 (186.82,496.06)	10251	361.2 (244.29,511.84)	0.485(0.453,0.516)	<0.00
Portugal	(7834,20802)		(6933,14527)			1
	38651	3144.26 (2160.01,4389.68)	35760	4450.08 (3046.79,6287.43)	1.122(1.066,1.179)	<0.00
	(26552,53961)		(24484,50525)			1
Puerto Rico	11867	2429.82 (1604.61,3499.19)	9874 (6474,14481)	3272.7 (2145.83,4799.92)	0.97(0.931,1.009)	<0.00
	(7837,17090)					1
Qatar	1132 (762,1636)	2876.76 (1935.65,4156.27)	5805 (3871,8465)	3425.05 (2284.15,4994.7)	0.586(0.472,0.701)	<0.00

					7)	1
Republic of Korea	159860 (113037,223780)	2511.22 (1775.68,3515.32)	151862 (108078,209919)	4075.87 (2900.74,5634.1)	1.662(1.496,1.828)	<0.00 1
Republic of Moldova	979 (604,1566)	191.98 (118.31,306.94)	816 (512,1269)	307.65 (192.95,478.18)	1.555(1.441,1.668)	<0.00 1
Romania	5388 (3222,8619)	185.81 (111.11,297.24)	4028 (2504,6302)	267.3 (166.2,418.26)	1.204(1.097,1.311)	<0.00 1
Russian Federation	35913 (21676,57159)	232.64 (140.41,370.26)	34698 (21877,54989)	301.81 (190.29,478.29)	0.871(0.721,1.021)	<0.00 1
Rwanda	7759 (5180,11572)	670.98 (447.94,1000.75)	19969 (13293,29504)	917.13 (610.53,1355.06)	1.002(0.961,1.043)	<0.00 1
Saint Kitts and Nevis	114 (76,167)	1808.13 (1210.75,2638.2)	164 (108,235)	2685.33 (1771.67,3853.85)	1.289(1.241,1.337)	<0.00 1
Saint Lucia	339 (218,487)	1484.2 (954.39,2132.99)	383 (256,550)	2164.55 (1449.14,3113.13)	1.226(1.123,1.329)	<0.00 1
Saint Vincent and the Grenadines	246 (161,359)	1333.15 (871.53,1947.2)	274 (182,387)	2121.66 (1411.94,3000.55)	1.543(1.503,1.584)	<0.00 1
Samoa	613 (401,887)	2256.78 (1478.62,3265.65)	940 (635,1363)	3099.04 (2094.83,4493.2)	1.024(0.946,1.103)	<0.00 1
San Marino	116 (80,162)	4151.97 (2872.45,5830.27)	125 (85,176)	4761.16 (3255.52,6695.39)	0.434(0.391,0.478)	<0.00 1
Sao Tome and Principe	118 (78,176)	588.91 (387.46,877.11)	338 (221,489)	955.15 (625.02,1382.85)	1.57(1.459,1.682)	<0.00 1
Saudi Arabia	55519 (37649,80377)	2388.39 (1619.65,3457.77)	136651 (92574,199008)	3727.18 (2524.96,5427.96)	1.468(1.421,1.514)	<0.00 1
Senegal	8212 (5414,12423)	652.85 (430.43,987.67)	21918	869.26 (577.53,1277.37)	0.938(0.881,0.981)	<0.00

			(14562,32209)		995)	1
Serbia	1968 (1172,3149)	184.01 (109.56,294.37)	2000 (1234,3099)	261.84 (161.52,405.68)	1.147(1.092,1.203)	<0.00
Seychelles	358 (249,523)	3208.24 (2228.44,4693.49)	481 (333,684)	4532.25 (3131.41,6444.18)	1.12(1.032,1.208)	<0.00
Sierra Leone	3241 (2141,4881)	516.2 (340.88,777.25)	13647 (8880,20899)	919.32 (598.22,1407.87)	1.887(1.721,2.053)	<0.00
Singapore	12437 (8916,17377)	3148.63 (2257.11,4399.21)	16388 (11680,22836)	4600.44 (3278.83,6410.75)	1.262(1.155,1.37)	<0.00
Slovakia	1162 (689,1842)	186.07 (110.42,295.11)	1112 (705,1699)	273.11 (173.16,417.32)	1.247(1.178,1.317)	<0.00
Slovenia	442 (269,694)	203.04 (123.38,318.79)	408 (256,620)	284.4 (178.65,432.81)	1.099(1,1.197)	<0.00
Solomon Islands	811 (539,1170)	1440.67 (957.9,2079.7)	2400 (1634,3383)	2356.5 (1603.93,3321.45)	1.569(1.492,1.646)	<0.00
Somalia	6284 (4099,9518)	536.06 (349.63,811.97)	23519 (15550,35827)	675.85 (446.85,1029.54)	0.744(0.673,0.815)	<0.00
South Africa	70183 (46248,102134)	1161.41 (765.32,1690.14)	105661 (70665,153397)	1496.49 (1000.83,2172.57)	0.833(0.691,0.975)	<0.00
South Sudan	6094 (4002,9332)	644.06 (422.9,986.19)	11810 (7819,18082)	710.01 (470.07,1087.11)	0.333(0.248,0.417)	<0.00
Spain	163888 (111443,229641)	3445.56 (2342.96,4827.94)	145699 (98994,208289)	4274.45 (2904.24,6110.68)	0.703(0.671,0.735)	<0.00
Sri Lanka	61994 (43332,89107)	2409.59 (1684.25,3463.44)	106791 (74316,151969)	4092.05 (2847.68,5823.21)	1.735(1.604,1.867)	<0.00
Sudan	41791	1297.75 (851.11,1897.77)	166988	2402.74 (1624.9,3496.78)	2.008(1.95,2.0)	<0.00

	(27408,61113)		(112929,243022)		67)	1
Suriname	945 (631,1359)	1594.57 (1064.8,2293.04)	1510 (1006,2135)	2182.87 (1453.61,3085.36)	1.029(0.998,1.059)	<0.00 1
Sweden	23810	2946.91 (2026.17,4219.09)	28482	3333.4 (2275.53,4801.44)	0.407(0.299,0.515)	<0.00 1
Switzerland	(16371,34089) 25474	3949.38 (2697.87,5609.73)	(19443,41026) 27638	4213.21 (2884.7,5965.69)	0.202(0.161,0.244)	<0.00 1
Syrian Arab Republic	(17402,36184) 40937	1927.05 (1302.38,2763.67)	(18923,39134) 68197	2831.72 (1898.94,4078.28)	1.287(1.15,1.424)	<0.00 1
Taiwan (Province of China)	(27667,58709) 56372	2024.78 (1342.98,2957.5)	(45732,98218) 60856	3612.3 (2500.77,4973.96)	1.896(1.771,2.021)	<0.00 1
Tajikistan	(37390,82340) 2723 (1733,4218)	328.69 (209.18,509.17)	(42130,83795) 5992 (3844,9119)	443.52 (284.53,674.97)	0.978(0.925,1.031)	<0.00 1
Thailand	206046	2334.86 (1630.61,3356.28)	278630	4786.37 (3299.84,6761.42)	2.356(2.239,2.474)	<0.00 1
Timor-Leste	(143898,296185) 1708 (1186,2475)	1567.26 (1087.85,2271.3)	(192095,393604) 6089 (4270,8801)	2623.69 (1839.98,3792.14)	1.692(1.618,1.766)	<0.00 1
Togo	3118 (2021,4760)	518.83 (336.22,791.99)	10647	834.4 (546.64,1237.84)	1.543(1.406,1.681)	<0.00 1
Tokelau	(6975,15796) 4 (3,6)	2043.35 (1388.48,2927.8)	6 (4,8)	3322.95 (2250.82,4825.95)	1.583(1.484,1.683)	<0.00 1
Tonga	416 (282,596)	2580.55 (1747.79,3699.46)	548 (378,777)	3628.79 (2504.04,5142.66)	1.086(1.03,1.142)	<0.00 1
Trinidad and Tobago	2623 (1692,3786)	1544.51 (996.45,2229.28)	3142 (2085,4512)	2333.42 (1548.46,3350.13)	1.37(1.249,1.49)	<0.00 1
Tunisia	25820	1962.69 (1277.6,2875.25)	34577	2827.13 (1900.02,4097.87)	1.234(1.152,1.311)	<0.00

	(16807,37825)		(23238,50119)		317)	1
Turkey	166242	1849.59 (1219.08,2696.67)	255657	2724.96 (1840.76,3867.73)	1.205(0.882,1.	<0.00
	(109571,242378)		(172701,362873)		529)	1
Turkmenistan	2433 (1540,3725)	428.96 (271.48,656.8)	4170 (2724,6227)	654.75 (427.74,977.76)	1.373(1.295,1.	<0.00
					451)	1
Tuvalu	24 (17,35)	1984.49 (1348.28,2839.31)	51 (34,74)	3145.78 (2084.49,4517.19)	1.481(1.445,1.	<0.00
					517)	1
Uganda	19138	659.15 (430.55,990.7)	62908	832.86 (561.18,1209.43)	0.779(0.705,0.	<0.00
	(12501,28764)		(42387,91351)		854)	1
Ukraine	11733	219.23 (134.54,347.61)	8240 (5065,13029)	257.77 (158.46,407.58)	0.564(0.397,0.	<0.00
	(7201,18605)				731)	1
United Arab Emirates	4427 (3008,6463)	2415.7 (1641.33,3526.61)	17464	3245.98 (2215.59,4818.89)	1.002(0.86,1.1	<0.00
			(11920,25926)		43)	1
United Kingdom	252431	4335.66 (3002.45,6213.26)	305061	5126.56 (3546.38,7275.65)	0.542(0.513,0.	<0.00
	(174809,361748)		(211031,432945)		57)	1
United Republic of	34008	769.29 (498,1163.77)	95748	966.95 (627.81,1405.7)	0.749(0.719,0.	<0.00
Tanzania	(22015,51447)		(62166,139192)		779)	1
United States of America	1131110	4185.08 (2934.77,5882.43)	1591906	5018.75 (3707.76,6710.69)	0.508(0.313,0.	<0.00
	(793185,1589855)		(1176071,2128577)		704)	1
			)			
United States Virgin Islands	322 (213,466)	2284.95 (1509.58,3306.98)	205 (134,297)	2959.77 (1939.19,4284.33)	0.831(0.794,0.	<0.00
					869)	1
Uruguay	5571 (3836,8047)	1468.81 (1011.36,2121.59)	9201 (6431,13189)	2598.67 (1816.24,3725.14)	1.87(1.758,1.9	<0.00
					81)	1
Uzbekistan	14019	439.9 (278.35,661.62)	25121	643.07 (421.1,932.47)	1.236(1.171,1.	<0.00
	(8871,21085)		(16450,36426)		3)	1

Vanuatu		394 (264,565)	1692.29 (1136.98,2428.01)	1206 (826,1756)	2625.89 (1798.76,3823.64)	1.424(1.384,1.464)	<0.001
Venezuela (Bolivarian Republic of)		80539 (54715,118070)	2698.83 (1833.48,3956.47)	101738 (67260,149289)	3388.6 (2240.23,4972.41)	0.715(0.618,0.812)	<0.001
Viet Nam		149766 (103399,211885)	1383.17 (954.95,1956.87)	291734 (198432,411036)	2841.12 (1932.47,4002.97)	2.362(2.282,2.441)	<0.001
Yemen		25253 (16737,37236)	1244.75 (824.98,1835.44)	88767 (58319,131508)	1642.32 (1079,2433.09)	0.917(0.836,0.997)	<0.001
Zambia		12961 (8311,19675)	905.87 (580.86,1375.12)	37843 (24419,57134)	1123.77 (725.13,1696.62)	0.695(0.612,0.778)	<0.001
Zimbabwe		16943 (11040,24333)	924.76 (602.57,1328.08)	26902 (18078,38427)	1035.67 (695.96,1479.37)	0.378(0.297,0.459)	<0.001

Figure S7. DALYs of PCOS in adolescents and young adults aged 10-24 years in 2021 and their AAPCs between 1990-2021 in 204 countries and territories

	Cases (n), 1990	DALYs (per 100 000 population), 1990	Cases (n), 2021	DALYs (per 100 000 population), 2021	AAPC (95%CI)	<i>P</i> value
Afghanistan	173 (76,378)	9.98 (4.38,21.87)	778 (336,1666)	15.05 (6.49,32.23)	1.39(1.187,1.593)	<0.001
Albania	8 (3,19)	1.7 (0.68,3.86)	6 (2,14)	2.44 (0.96,5.51)	1.203(1.063,1.343)	<0.001
Algeria	753 (313,1530)	17.98 (7.47,36.55)	1302 (566,2646)	26.18 (11.38,53.2)	1.251(1.095,1.409)	<0.001
American Samoa	2 (1,4)	24.45 (10.67,50.39)	2 (1,4)	31.28 (13.7,65.76)	0.773(0.685,0.861)	<0.001

Andorra	2 (1,4)	37.02 (16.46,76.31)	3 (1,6)	44.04 (19.57,89.57)	0.53(0.396,0.663)	<0.001
Angola	67 (29,140)	4.23 (1.83,8.77)	426 (178,886)	7.9 (3.29,16.43)	2.082(1.886,2.279)	<0.001
Antigua and Barbuda	1 (1,3)	15.06 (6.53,30.55)	2 (1,4)	20.79 (8.88,42.52)	1.06(1,1.12)	<0.001
Argentina	559 (246,1166)	12.82 (5.63,26.73)	1129 (506,2284)	21.35 (9.57,43.18)	1.695(1.61,1.78)	<0.001
Armenia	16 (6,33)	3.7 (1.44,7.68)	14 (6,30)	5.5 (2.34,11.66)	1.319(1.105,1.533)	<0.001
Australia	884 (392,1809)	45.39 (20.11,92.87)	1231 (559,2531)	53.51 (24.3,110.04)	0.53(0.495,0.564)	<0.001
Austria	400 (182,820)	50.46 (22.95,103.39)	342 (149,688)	50.42 (21.94,101.47)	-0.013(-0.071,0.045)	0.66
Azerbaijan	42 (16,92)	3.99 (1.57,8.78)	64 (26,141)	6.15 (2.49,13.58)	1.409(1.259,1.559)	<0.001
Bahamas	8 (3,17)	19.35 (8.25,41.65)	11 (5,25)	22.78 (10.13,49.45)	0.527(0.481,0.572)	<0.001
Bahrain	16 (7,35)	26.25 (11.07,56.51)	44 (19,89)	30.55 (13.57,62.3)	0.508(0.251,0.764)	<0.001
Bangladesh	729 (313,1531)	4.12 (1.77,8.65)	1789 (741,3776)	7.59 (3.14,16.02)	1.993(1.885,2.102)	<0.001
Barbados	6 (3,13)	19.34 (8.45,40.3)	6 (3,14)	22.93 (10.21,49.27)	0.554(0.474,0.634)	<0.001
Belarus	25 (10,53)	2.29 (0.88,4.8)	21 (8,47)	2.99 (1.22,6.76)	0.913(0.76,1.067)	<0.001

Belgium	381 (168,780)	38.7 (17.03,79.26)	423 (190,888)	43.93 (19.72,92.27)	0.42(0.345,0.495)	<0.001
Belize	4 (2,9)	14.1 (6.21,29.43)	14 (6,31)	21.71 (9.54,46.74)	1.414(1.307,1.52)	<0.001
Benin	36 (15,75)	4.87 (2.06,10.2)	211 (90,446)	9.48 (4.05,20)	2.178(2.053,2.303)	<0.001
Bermuda	1 (1,3)	24.3 (10.31,51.58)	1 (1,2)	25.74 (11.26,54.61)	0.199(0.122,0.276)	<0.001
Bhutan	6 (3,13)	6.02 (2.54,12.9)	12 (5,25)	11.77 (5.15,24.5)	2.182(2.065,2.3)	<0.001
Bolivia (Plurinational State of)	256 (108,547)	25.39 (10.68,54.25)	581 (255,1286)	36.31 (15.93,80.4)	1.192(1.053,1.331)	<0.001
Bosnia and Herzegovina	8 (3,18)	1.43 (0.55,3.21)	6 (2,14)	2.32 (0.93,5.3)	1.592(1.46,1.723)	<0.001
Botswana	17 (7,36)	7.23 (3.13,15.26)	41 (18,84)	12.67 (5.62,25.9)	1.812(1.625,1.998)	<0.001
Brazil	1540 (652,3217)	6.58 (2.79,13.74)	1804 (785,3693)	7.53 (3.27,15.41)	0.422(0.326,0.519)	<0.001
Brunei Darussalam	10 (4,20)	26.51 (11.99,54.57)	21 (10,46)	43.53 (19.8,92.77)	1.614(1.578,1.649)	<0.001
Bulgaria	18 (7,43)	2 (0.79,4.82)	12 (5,25)	2.53 (1.02,5.37)	0.778(0.663,0.894)	<0.001
Burkina Faso	70 (29,158)	4.67 (1.94,10.56)	294 (121,635)	7.76 (3.19,16.79)	1.636(1.522,1.75)	<0.001
Burundi	39 (16,84)	4.56 (1.91,9.79)	103 (42,215)	4.67 (1.91,9.69)	0.06(-0.082,0.201)	0.409

Cabo Verde	3 (1,7)	5.42 (2.34,11.46)	7 (3,16)	10.01 (4.25,21.05)	2.004(1.904,2.103)	<0.001
Cambodia	205 (90,417)	12.44 (5.46,25.32)	523 (235,1074)	23.09 (10.38,47.46)	2.016(1.841,2.191)	<0.001
Cameroon	129 (54,273)	7.85 (3.3,16.53)	559 (240,1172)	10.77 (4.61,22.58)	1.038(0.965,1.11)	<0.001
Canada	496 (219,1014)	17.33 (7.67,35.44)	681 (302,1416)	21.74 (9.64,45.21)	0.73(0.664,0.797)	<0.001
Central African Republic	26 (11,56)	6 (2.57,13.23)	60 (25,127)	6.47 (2.74,13.84)	0.265(0.155,0.375)	<0.001
Chad	32 (13,67)	3.4 (1.4,7.15)	160 (67,342)	5.41 (2.25,11.56)	1.518(1.379,1.657)	<0.001
Chile	276 (123,569)	14.73 (6.59,30.38)	487 (213,966)	25.49 (11.17,50.56)	1.788(1.695,1.882)	<0.001
China	16938 (7318,35476)	9.64 (4.17,20.2)	18909 (8479,39246)	17.33 (7.77,35.97)	1.895(1.769,2.02)	<0.001
Colombia	1054 (457,2251)	20.28 (8.79,43.29)	1653 (701,3583)	28.32 (12.01,61.39)	1.13(1.041,1.219)	<0.001
Comoros	6 (2,12)	7.32 (3.09,15.96)	10 (4,21)	9.35 (3.97,18.82)	0.81(0.684,0.936)	<0.001
Congo	25 (10,52)	6.14 (2.5,12.55)	74 (32,153)	8.8 (3.82,18.24)	1.18(1.099,1.261)	<0.001
Cook Islands	1 (0,1)	24.43 (10.66,52.4)	1 (0,2)	37.85 (16.48,81.62)	1.406(1.345,1.467)	<0.001
Costa Rica	116 (51,251)	25.35 (11.18,54.77)	191 (84,411)	35.03 (15.34,75.12)	1.063(1.004,1.121)	<0.001

Coted'Ivoire	98 (40,215)	5.12 (2.11,11.22)	361 (158,764)	8.67 (3.79,18.35)	1.736(1.628,1.844)	<0.001
Croatia	9 (3,20)	1.83 (0.68,3.95)	8 (3,18)	2.57 (1.01,5.53)	1.121(1.039,1.203)	<0.001
Cuba	272 (116,571)	17.92 (7.64,37.57)	213 (92,439)	22.58 (9.78,46.51)	0.75(0.64,0.86)	<0.001
Cyprus	26 (11,53)	28.07 (12.41,57.7)	43 (19,91)	41.51 (17.95,87.39)	1.237(1.131,1.342)	<0.001
Czechia	21 (8,46)	1.83 (0.7,3.98)	18 (7,37)	2.33 (0.93,4.82)	0.817(0.628,1.007)	<0.001
Democratic Republic of Korea	319 (140,685)	10.74 (4.7,23.08)	320 (136,678)	11.98 (5.11,25.4)	0.347(0.265,0.429)	<0.001
Democratic Republic of the Congo	273 (114,594)	4.57 (1.91,9.95)	1020 (442,2142)	6.95 (3.01,14.6)	1.373(1.21,1.537)	<0.001
Denmark	167 (73,348)	31.31 (13.77,65.31)	207 (91,425)	40.37 (17.86,82.97)	0.819(0.768,0.87)	<0.001
Djibouti	4 (2,8)	5.67 (2.4,11.9)	16 (7,34)	10.2 (4.36,21.29)	1.882(1.727,2.038)	<0.001
Dominica	2 (1,3)	14.63 (6.27,30.24)	2 (1,3)	20.58 (9.19,43.57)	1.101(1.029,1.173)	<0.001
Dominican Republic	155 (67,321)	12.62 (5.48,26.16)	295 (127,619)	20.83 (8.96,43.72)	1.632(1.571,1.694)	<0.001
Ecuador	547 (241,1163)	33.3 (14.66,70.72)	1086 (469,2262)	45.27 (19.53,94.31)	1.015(0.951,1.08)	<0.001
Egypt	1888 (820,3887)	22.77 (9.89,46.86)	4087 (1775,8313)	28.52 (12.39,58.01)	0.733(0.671,0.795)	<0.001

El Salvador	179 (78,386)	19.85 (8.64,42.69)	261 (113,561)	29.96 (12.96,64.38)	1.364(1.271,1.458)	<0.001
Equatorial Guinea	3 (1,7)	4.96 (2.05,10.55)	29 (13,61)	12.74 (5.54,26.64)	3.097(2.858,3.337)	<0.001
Eritrea	23 (9,47)	4.13 (1.66,8.61)	66 (27,139)	6.54 (2.71,13.83)	1.567(1.39,1.744)	<0.001
Estonia	4 (2,8)	2.46 (0.95,5.25)	3 (1,7)	3.44 (1.37,7.56)	1.087(0.99,1.184)	<0.001
Eswatini	15 (6,30)	10.21 (4.27,20.6)	24 (10,50)	13.43 (5.61,27.71)	0.908(0.805,1.012)	<0.001
Ethiopia	306 (128,636)	3.81 (1.6,7.94)	1196 (510,2528)	6.44 (2.75,13.62)	1.718(1.638,1.799)	<0.001
Fiji	22 (10,46)	18.96 (8.54,39.75)	34 (15,71)	29.2 (13.17,60.87)	1.4(1.325,1.475)	<0.001
Finland	146 (66,299)	30.73 (13.81,62.73)	180 (79,366)	40.2 (17.69,81.81)	0.867(0.805,0.929)	<0.001
France	2018 (880,4150)	32.54 (14.2,66.93)	2371 (1046,4907)	39.67 (17.5,82.08)	0.632(0.578,0.686)	<0.001
Gabon	11 (5,24)	7.13 (2.96,15.49)	34 (14,72)	11.34 (4.76,24.12)	1.529(1.385,1.673)	<0.001
Gambia	8 (3,18)	5.08 (2.11,11)	33 (14,66)	8.01 (3.35,15.95)	1.495(1.328,1.662)	<0.001
Georgia	31 (13,68)	4.94 (2.01,10.68)	25 (11,54)	8.66 (3.71,18.36)	1.851(1.729,1.973)	<0.001
Germany	2379 (1083,4969)	32.81 (14.93,68.53)	2276 (1001,4507)	38.09 (16.74,75.41)	0.473(0.406,0.541)	<0.001

Ghana	124 (50,268)	5.27 (2.14,11.35)	440 (184,904)	8.38 (3.51,17.21)	1.516(1.299,1.733)	<0.001
Greece	411 (182,844)	35.77 (15.84,73.54)	333 (145,682)	43.93 (19.17,89.97)	0.637(0.564,0.71)	<0.001
Greenland	1 (0,2)	16.04 (7.18,32.84)	1 (0,2)	19.22 (8.45,39.55)	0.577(0.486,0.667)	<0.001
Grenada	2 (1,3)	12.08 (4.97,25.08)	2 (1,5)	19.21 (8.55,41.36)	1.527(1.43,1.624)	<0.001
Guam	5 (2,10)	27.37 (11.89,55.67)	7 (3,14)	37.7 (16.67,78.17)	1.027(0.956,1.098)	<0.001
Guatemala	214 (91,455)	15.6 (6.63,33.16)	634 (273,1336)	25.44 (10.97,53.63)	1.586(1.455,1.717)	<0.001
Guinea	38 (15,82)	4.45 (1.8,9.52)	157 (66,331)	7.07 (2.97,14.91)	1.527(1.413,1.64)	<0.001
Guinea-Bissau	7 (3,16)	4.45 (1.87,9.73)	24 (10,51)	7.13 (2.96,15.07)	1.526(1.388,1.664)	<0.001
Guyana	17 (7,36)	13 (5.45,27.43)	20 (9,43)	19.79 (8.38,41.52)	1.401(1.323,1.479)	<0.001
Haiti	92 (39,201)	9.2 (3.88,20.04)	215 (94,464)	11.49 (5.05,24.81)	0.756(0.648,0.864)	<0.001
Honduras	121 (52,269)	15.61 (6.78,34.81)	409 (179,878)	25.64 (11.22,55)	1.624(1.567,1.681)	<0.001
Hungary	22 (9,53)	1.98 (0.8,4.72)	18 (8,40)	2.58 (1.08,5.69)	0.862(0.749,0.975)	<0.001
Iceland	11 (5,24)	36.85 (16.75,75.92)	15 (7,31)	45.21 (20.19,92.71)	0.645(0.532,0.758)	<0.001

India	9530 (4263,19844)	7.7 (3.45,16.04)	27787 (12105,58016)	14.55 (6.34,30.38)	2.095(2.02,2.17 1)	<0.00 1
Indonesia	5236 (2288,10785)	17.54 (7.66,36.13)	11872 (5365,24583)	35.39 (16,73.29)	2.297(2.253,2.3 41)	<0.00 1
Iran (Islamic Republic of)	1800 (790,3749)	19.85 (8.72,41.35)	2379 (1044,5000)	27.52 (12.08,57.84)	1.058(0.752,1.3 64)	<0.00 1
Iraq	616 (269,1271)	20.91 (9.13,43.15)	1499 (650,3117)	24.76 (10.73,51.47)	0.611(0.463,0.7 59)	<0.00 1
Ireland	155 (67,308)	32.53 (14.12,64.81)	196 (85,395)	40.58 (17.7,81.81)	0.721(0.644,0.7 98)	<0.00 1
Israel	187 (82,387)	28.06 (12.34,58.16)	404 (178,845)	36.7 (16.2,76.8)	0.866(0.824,0.9 07)	<0.00 1
Italy	6669 (2930,14187)	108.71 (47.75,231.26)	4228 (1870,8963)	100.84 (44.61,213.76)	-0.245(-0.326,- 0.165)	<0.00 1
Jamaica	55 (24,115)	14.29 (6.24,29.87)	71 (30,150)	20.43 (8.68,43.12)	1.179(1.082,1.2 75)	<0.00 1
Japan	9067 (3961,18313)	66.09 (28.87,133.47)	6088 (2699,12273)	71.14 (31.55,143.42)	0.223(0.124,0.3 22)	<0.00 1
Jordan	129 (57,268)	20.22 (8.87,41.98)	467 (203,969)	25.95 (11.26,53.88)	0.822(0.699,0.9 44)	<0.00 1
Kazakhstan	91 (38,196)	4.26 (1.76,9.14)	119 (49,256)	5.92 (2.42,12.7)	1.087(0.98,1.19 3)	<0.00 1
Kenya	249 (107,530)	6.18 (2.66,13.14)	699 (303,1487)	8.1 (3.51,17.23)	0.927(0.716,1.1 38)	<0.00 1
Kiribati	2 (1,4)	16.4 (7.33,34.63)	4 (2,9)	23.41 (10.25,48.19)	1.146(1.071,1.2 22)	<0.00 1

Kuwait	64 (28,133)	28.29 (12.28,58.81)	140 (61,299)	34.55 (15.04,73.69)	0.656(0.593,0.718)	<0.001
Kyrgyzstan	24 (10,54)	3.81 (1.55,8.45)	40 (17,86)	4.6 (1.89,9.87)	0.616(0.511,0.722)	<0.001
Lao People's Democratic Republic	95 (42,197)	14.34 (6.28,29.78)	302 (135,607)	29.21 (13.11,58.72)	2.333(2.25,2.415)	<0.001
Latvia	7 (3,15)	2.48 (0.99,5.52)	4 (2,9)	3.11 (1.24,6.74)	0.699(0.565,0.833)	<0.001
Lebanon	92 (40,188)	21.62 (9.45,44.26)	158 (68,328)	28.34 (12.24,58.76)	0.895(0.768,1.021)	<0.001
Lesotho	17 (7,37)	6.76 (2.95,14.54)	34 (15,77)	11.27 (4.86,25.18)	1.714(1.634,1.794)	<0.001
Liberia	20 (8,42)	5.35 (2.28,11.39)	70 (30,150)	7.85 (3.33,16.76)	1.268(1.093,1.443)	<0.001
Libya	171 (74,358)	23.5 (10.2,49.14)	244 (106,514)	28.55 (12.38,60.12)	0.65(0.569,0.73)	<0.001
Lithuania	9 (3,20)	2.24 (0.86,5.11)	6 (2,13)	3.17 (1.2,6.64)	1.101(0.948,1.255)	<0.001
Luxembourg	13 (6,28)	37.3 (16.74,77.57)	23 (10,49)	45.46 (20.31,93.9)	0.65(0.564,0.736)	<0.001
Madagascar	100 (42,216)	5.16 (2.18,11.19)	305 (128,638)	6.26 (2.63,13.07)	0.642(0.549,0.736)	<0.001
Malawi	117 (49,251)	7.26 (3.03,15.59)	287 (127,566)	7.92 (3.51,15.58)	0.285(0.154,0.416)	<0.001
Malaysia	717 (319,1474)	26.9 (11.98,55.32)	1959 (858,3975)	49.88 (21.83,101.19)	2.011(1.87,2.152)	<0.001

Maldives	6 (3,12)	16.25 (7,33.77)	17 (8,38)	38.91 (16.9,84.39)	2.866(2.657,3.075)	<0.001
Mali	50 (20,108)	3.85 (1.57,8.3)	255 (108,522)	6.37 (2.69,13.03)	1.649(1.511,1.786)	<0.001
Malta	12 (5,25)	31.29 (13.79,63.24)	14 (6,28)	45.05 (19.57,92.14)	1.195(1.137,1.253)	<0.001
Marshall Islands	1 (0,2)	12.39 (5.45,27.11)	2 (1,4)	23.16 (10.25,47.92)	2.032(1.97,2.093)	<0.001
Mauritania	22 (9,46)	6.71 (2.88,14.42)	71 (30,145)	9.64 (4.14,19.79)	1.188(1.068,1.308)	<0.001
Mauritius	43 (19,90)	26.99 (11.87,56.6)	61 (27,127)	47.35 (21.02,99.17)	1.84(1.721,1.96)	<0.001
Mexico	6284 (2765,13268)	42.68 (18.78,90.1)	7398 (3261,15338)	44.83 (19.76,92.95)	0.134(-0.027,0.296)	0.103
Micronesia (Federated States of)	3 (1,6)	16.41 (7.2,33.81)	4 (2,8)	25.86 (11.47,52.61)	1.469(1.434,1.504)	<0.001
Monaco	1 (0,2)	42.19 (18.5,87.16)	1 (1,2)	45.14 (19.81,94.56)	0.21(0.16,0.26)	<0.001
Mongolia	13 (5,28)	3.62 (1.47,7.99)	19 (8,44)	5.22 (2.16,11.66)	1.179(1.041,1.318)	<0.001
Montenegro	1 (1,3)	1.96 (0.75,4.25)	1 (1,3)	2.61 (1.01,5.82)	0.941(0.877,1.006)	<0.001
Morocco	761 (330,1581)	18.73 (8.12,38.91)	1178 (514,2431)	25.69 (11.2,53.02)	1.075(0.938,1.212)	<0.001
Mozambique	107 (44,223)	4.9 (2,10.24)	432 (182,938)	7.84 (3.31,17.04)	1.571(1.407,1.734)	<0.001

Myanmar	915 (391,1857)	13.85 (5.92,28.11)	2285 (1023,4713)	29.95 (13.4,61.78)	2.553(2.468,2.638)	<0.001
Namibia	17 (7,38)	7.22 (3.07,15.63)	39 (17,80)	10.26 (4.61,21.22)	1.166(1.021,1.312)	<0.001
Nauru	0 (0,1)	20.03 (8.78,41.2)	0 (0,1)	29.72 (13.23,63.25)	1.255(1.156,1.353)	<0.001
Nepal	123 (50,254)	4.09 (1.67,8.44)	410 (173,862)	8.53 (3.6,17.94)	2.397(2.236,2.558)	<0.001
Netherlands	529 (238,1080)	33.01 (14.83,67.36)	582 (256,1191)	39.56 (17.37,80.94)	0.559(0.508,0.61)	<0.001
New Zealand	282 (124,577)	67.92 (29.98,139.31)	330 (147,686)	67.57 (30.14,140.46)	-0.023(-0.083,0.036)	0.442
Nicaragua	121 (51,258)	18.05 (7.6,38.53)	252 (109,553)	27.41 (11.88,60.06)	1.355(1.29,1.421)	<0.001
Niger	52 (22,108)	4.05 (1.7,8.49)	235 (94,507)	5.5 (2.21,11.86)	1.009(0.925,1.092)	<0.001
Nigeria	843 (362,1785)	5.62 (2.41,11.91)	3201 (1373,6734)	7.84 (3.36,16.48)	1.102(0.974,1.231)	<0.001
Niue	0 (0,0)	21.34 (9.31,44.21)	0 (0,0)	34.65 (15.12,69.86)	1.607(1.372,1.842)	<0.001
North Macedonia	4 (1,9)	1.64 (0.57,3.57)	4 (2,9)	2.41 (0.99,5.16)	1.282(1.162,1.401)	<0.001
Northern Mariana Islands	2 (1,4)	27.62 (12.27,58.45)	2 (1,4)	31.94 (14.03,67.99)	0.405(-0.179,0.993)	0.175
Norway	164 (73,338)	36.73 (16.42,75.44)	191 (84,391)	39.96 (17.52,81.62)	0.268(0.188,0.347)	<0.001

Oman	38 (16,81)	15.64 (6.62,33.34)	123 (54,257)	28.39 (12.41,59.22)	1.961(1.893,2.028)	<0.001
Pakistan	1209 (508,2656)	7.14 (3,15.69)	3059 (1305,6511)	8.75 (3.73,18.62)	0.682(0.551,0.813)	<0.001
Palau	1 (0,1)	24.01 (10.3,50.7)	1 (0,1)	33.56 (14.63,68.68)	1.052(0.969,1.135)	<0.001
Palestine	60 (25,127)	18.08 (7.66,38.24)	189 (83,398)	23.47 (10.34,49.38)	0.857(0.752,0.962)	<0.001
Panama	66 (28,143)	17.65 (7.55,38.27)	154 (67,334)	28.63 (12.45,62.19)	1.57(1.483,1.658)	<0.001
Papua New Guinea	78 (34,165)	12.48 (5.39,26.17)	270 (120,573)	18.63 (8.27,39.56)	1.293(1.187,1.399)	<0.001
Paraguay	26 (11,54)	4.22 (1.72,8.73)	70 (30,145)	7.17 (3.07,14.9)	1.746(1.658,1.835)	<0.001
Peru	945 (403,2119)	26.72 (11.39,59.9)	1732 (756,3717)	39.72 (17.34,85.23)	1.305(1.127,1.484)	<0.001
Philippines	1833 (773,3683)	18 (7.59,36.16)	5184 (2207,10416)	32.73 (13.93,65.75)	1.976(1.889,2.062)	<0.001
Poland	120 (50,248)	2.86 (1.19,5.91)	93 (42,194)	3.29 (1.47,6.82)	0.453(0.4,0.506)	<0.001
Portugal	358 (160,725)	29.09 (13.02,58.97)	329 (149,666)	41 (18.54,82.85)	1.09(1.012,1.168)	<0.001
Puerto Rico	110 (46,242)	22.47 (9.46,49.59)	91 (41,193)	30.1 (13.46,63.9)	0.962(0.908,1.016)	<0.001
Qatar	10 (4,21)	26.15 (11.11,52.7)	53 (23,110)	31.1 (13.77,64.77)	0.58(0.461,0.7)	<0.001

Republic of Korea	1440 (640,2936)	22.62 (10.05,46.12)	1365 (595,2892)	36.63 (15.96,77.63)	1.645(1.462,1.8 27)	<0.00 1
Republic of Moldova	9 (4,19)	1.82 (0.72,3.79)	8 (3,17)	2.9 (1.12,6.27)	1.542(1.401,1.6 83)	<0.00 1
Romania	49 (19,106)	1.69 (0.65,3.64)	36 (15,76)	2.4 (0.99,5.04)	1.164(0.988,1.3 4)	<0.00 1
Russian Federation	339 (134,760)	2.2 (0.87,4.92)	326 (132,719)	2.84 (1.14,6.26)	0.866(0.732,1.0 01)	<0.00 1
Rwanda	71 (30,151)	6.14 (2.61,13.08)	178 (75,384)	8.19 (3.46,17.62)	0.908(0.829,0.9 87)	<0.00 1
Saint Kitts and Nevis	1 (0,2)	16.73 (7.21,35.35)	2 (1,3)	24.8 (10.8,51.14)	1.269(1.21,1.32 8)	<0.00 1
Saint Lucia	3 (1,6)	13.75 (5.9,28.25)	4 (2,8)	20.03 (8.86,42.46)	1.213(1.155,1.2 71)	<0.00 1
Saint Vincent and the Grenadines	2 (1,5)	12.36 (5.17,26.97)	3 (1,5)	19.66 (8.79,41.22)	1.542(1.503,1.5 81)	<0.00 1
Samoa	5 (2,11)	20.23 (8.83,41.71)	8 (4,18)	27.75 (12.19,58.89)	1.02(0.943,1.09 8)	<0.00 1
San Marino	1 (0,2)	38.56 (17.18,80.26)	1 (1,2)	43.8 (19.08,90.94)	0.396(0.356,0.4 36)	<0.00 1
Sao Tome and Principe	1 (0,2)	5.25 (2.2,11.61)	3 (1,6)	8.54 (3.64,17.58)	1.578(1.461,1.6 94)	<0.00 1
Saudi Arabia	504 (218,1026)	21.66 (9.38,44.16)	1241 (554,2649)	33.84 (15.11,72.26)	1.467(1.409,1.5 25)	<0.00 1
Senegal	76 (32,167)	6.01 (2.56,13.31)	200 (89,402)	7.91 (3.52,15.95)	0.895(0.768,1.0 22)	<0.00 1

Serbia	18 (7,39)	1.67 (0.66,3.64)	18 (7,39)	2.37 (0.96,5.07)	1.155(1.067,1.243)	<0.001
Seychelles	3 (1,7)	29.4 (12.97,61.89)	4 (2,9)	41.25 (18.03,85.34)	1.1(1.025,1.176)	<0.001
Sierra Leone	29 (12,60)	4.58 (1.91,9.5)	121 (51,260)	8.15 (3.46,17.49)	1.857(1.668,2.047)	<0.001
Singapore	112 (50,234)	28.39 (12.75,59.26)	146 (66,314)	41.08 (18.64,88.14)	1.23(1.125,1.335)	<0.001
Slovakia	11 (4,25)	1.68 (0.64,3.97)	10 (4,22)	2.47 (0.94,5.41)	1.254(1.111,1.397)	<0.001
Slovenia	4 (1,8)	1.8 (0.68,3.88)	4 (1,7)	2.52 (1.03,5.21)	1.084(1.011,1.156)	<0.001
Solomon Islands	7 (3,15)	12.95 (5.75,27.23)	22 (10,46)	21.14 (9.4,45.11)	1.563(1.475,1.652)	<0.001
Somalia	56 (23,122)	4.8 (1.99,10.39)	211 (87,455)	6.07 (2.49,13.09)	0.769(0.664,0.874)	<0.001
South Africa	644 (276,1386)	10.66 (4.56,22.94)	961 (420,1985)	13.61 (5.95,28.11)	0.83(0.766,0.893)	<0.001
South Sudan	55 (23,121)	5.81 (2.41,12.83)	106 (46,235)	6.39 (2.76,14.15)	0.333(0.161,0.505)	<0.001
Spain	1479 (663,3072)	31.09 (13.93,64.59)	1321 (571,2773)	38.74 (16.74,81.35)	0.715(0.656,0.773)	<0.001
Sri Lanka	578 (260,1181)	22.48 (10.09,45.89)	975 (436,1968)	37.37 (16.71,75.42)	1.66(1.541,1.779)	<0.001
Sudan	383 (167,838)	11.89 (5.2,26.03)	1477 (656,3087)	21.25 (9.43,44.42)	1.899(1.83,1.969)	<0.001

Suriname	9 (4,18)	14.69 (6.08,30.59)	14 (6,31)	20.12 (9,44.51)	1.038(0.962,1.14)	<0.001
Sweden	224 (98,464)	27.71 (12.13,57.42)	265 (117,547)	31 (13.75,64.06)	0.378(0.276,0.48)	<0.001
Switzerland	236 (105,491)	36.61 (16.32,76.12)	255 (112,514)	38.92 (17.03,78.32)	0.186(0.135,0.238)	<0.001
Syrian Arab Republic	374 (166,797)	17.62 (7.8,37.53)	615 (270,1296)	25.53 (11.21,53.82)	1.236(1.089,1.383)	<0.001
Taiwan (Province of China)	505 (222,1051)	18.15 (7.99,37.73)	543 (237,1095)	32.25 (14.04,64.99)	1.885(1.735,2.035)	<0.001
Tajikistan	25 (10,55)	3.02 (1.24,6.61)	55 (22,121)	4.11 (1.62,8.93)	0.979(0.845,1.113)	<0.001
Thailand	1929 (857,3911)	21.86 (9.71,44.32)	2580 (1169,5419)	44.33 (20.08,93.09)	2.344(2.246,2.441)	<0.001
Timor-Leste	16 (7,31)	14.55 (6.38,28.87)	56 (25,117)	24.18 (10.86,50.58)	1.678(1.561,1.794)	<0.001
Togo	28 (12,59)	4.69 (1.93,9.89)	96 (41,206)	7.55 (3.22,16.13)	1.559(1.413,1.705)	<0.001
Tokelau	0 (0,0)	18.37 (8.12,38.88)	0 (0,0)	29.73 (13.33,61.92)	1.573(1.465,1.68)	<0.001
Tonga	4 (2,8)	23.08 (9.95,47.68)	5 (2,10)	32.43 (14.2,66.81)	1.081(1.014,1.149)	<0.001
Trinidad and Tobago	24 (11,52)	14.31 (6.28,30.85)	29 (13,60)	21.58 (9.37,44.86)	1.355(1.239,1.471)	<0.001
Tunisia	241 (104,503)	18.35 (7.9,38.23)	317 (140,668)	25.95 (11.42,54.65)	1.189(1.092,1.286)	<0.001

Turkey	1568 (683,3256)	17.44 (7.6,36.23)	2337 (1034,5019)	24.91 (11.02,53.5)	1.207(1.099,1.3 15)	<0.00 1
Turkmenistan	22 (9,48)	3.93 (1.61,8.39)	38 (15,81)	5.92 (2.42,12.65)	1.361(1.277,1.4 46)	<0.00 1
Tuvalu	0 (0,0)	17.81 (8.08,36.39)	0 (0,1)	28.17 (12.59,59.9)	1.465(1.4,1.53)	<0.00 1
Uganda	172 (71,371)	5.94 (2.46,12.77)	564 (240,1152)	7.46 (3.17,15.25)	0.752(0.676,0.8 28)	<0.00 1
Ukraine	113 (42,242)	2.1 (0.79,4.51)	79 (31,178)	2.47 (0.98,5.58)	0.563(0.389,0.7 36)	<0.00 1
United Arab Emirates	40 (18,83)	21.92 (9.58,45.18)	158 (69,332)	29.45 (12.8,61.73)	1.001(0.851,1.1 51)	<0.00 1
United Kingdom	2354 (1043,4818)	40.43 (17.92,82.76)	2822 (1244,5842)	47.42 (20.91,98.18)	0.515(0.484,0.5 45)	<0.00 1
United Republic of Tanzania	305 (128,628)	6.91 (2.89,14.2)	839 (371,1791)	8.47 (3.74,18.08)	0.669(0.595,0.7 43)	<0.00 1
United States of America	10264 (4578,20587)	37.98 (16.94,76.17)	14446 (6731,28930)	45.54 (21.22,91.21)	0.531(0.294,0.7 68)	<0.00 1
United States Virgin Islands	3 (1,6)	21.1 (9.18,45.36)	2 (1,4)	27.21 (12.02,59.4)	0.825(0.759,0.8 91)	<0.00 1
Uruguay	51 (22,104)	13.48 (5.88,27.49)	84 (38,174)	23.83 (10.79,49.01)	1.887(1.838,1.9 36)	<0.00 1
Uzbekistan	127 (52,281)	3.98 (1.63,8.81)	227 (98,491)	5.82 (2.5,12.56)	1.263(1.11,1.41 6)	<0.00 1
Vanuatu	4 (2,7)	15.21 (6.8,31.7)	11 (5,23)	23.59 (10.27,49.04)	1.415(1.37,1.46)	<0.00 1

Venezuela (Bolivarian Republic of)	722 (309,1504)	24.19 (10.37,50.39)	909 (400,1898)	30.26 (13.33,63.23)	0.706(0.604,0.809)	<0.001
Viet Nam	1369 (596,2842)	12.64 (5.51,26.25)	2644 (1144,5438)	25.75 (11.14,52.96)	2.338(2.214,2.462)	<0.001
Yemen	228 (99,478)	11.23 (4.88,23.56)	805 (349,1721)	14.9 (6.45,31.84)	0.939(0.828,1.049)	<0.001
Zambia	115 (48,253)	8.02 (3.33,17.66)	337 (143,713)	9.99 (4.25,21.16)	0.73(0.621,0.839)	<0.001
Zimbabwe	152 (66,325)	8.31 (3.59,17.75)	240 (103,516)	9.26 (3.98,19.86)	0.364(0.266,0.463)	<0.001

Table S8. Age-standardized rate of PCOS in adolescents and young adults aged 10-24 years in 2021 and their AAPCs between 1990-2021 in 204 countries and territories

	Incidence				Prevalence				DALYs			
	Age-standardized rate (per 100 000 population), 1990	Age-standardized rate (per 100 000 population), 2021	AAPC	P value	Age-standardized rate (per 100 000 population), 1990	Age-standardized rate (per 100 000 population), 2021	AAPC	P value	Age-standardized rate (per 100 000 population), 1990	Age-standardized rate (per 100 000 population), 2021	AAPC	P value
Afghanistan	34.78 (24.32,48.87)	50.11 (34.4,71.4)	1.231(1.085, 1.377)	0	899.66 (622.33,1286.08)	1295.31 (889.64,1847.76)	1.232(1.08,1.384)	<0.001	7.67 (3.36,16.31)	11.11 (4.78,23.89)	1.256(1.09,1.422)	<0.001
Albania	5.8 (3.89,8.74)	7.7 (5.23,11.2)	0.936(0.845, 1.027)	0	145.74 (96.31,222.5)	191.44 (126.23,291.1)	0.912(0.787, 1.037)	<0.001	1.28 (0.52,2.76)	1.69 (0.72,3.69)	0.922(0.79,1.055)	<0.001

		9)			2)	31)		)	)			
Algeria	57.74	84.01	1.249(1.163,	0	1505.48	2205.99	1.259(1.213,	<0.0	13.39	19.42	1.24(1.202,1	<0.0
	(40.27,81.59)	(56.67,120.59)	1.334)		(1043.68,215.072)	(1497.75,317.2.01)	1.306)	01	(5.72,26.79)	(8.47,40.73)	.277)	01
America n Samoa	78.14	108.31	1.049(1.025,	0	2015.89	2789.56	1.044(1.02,1	<0.0	17.71	24.41	1.033(1.011,	<0.0
	(54.84,109.65)	(75.38,157.79)	1.073)		(1400,2848.69)	(1942.9,4075)	.067)	01	(7.67,37.05)	(10.56,51.54)	1.056)	01
Andorra	113.41	140.95	0.707(0.689,	0	2892.36	3580.57	0.694(0.672,	<0.0	25.98	32.02	0.675(0.642,	<0.0
	(77.62,162.49)	(97.02,199.68)	0.724)		(1997.17,411.9.21)	(2469.01,505.5.23)	0.715)	01	(11.68,53.94)	(14.34,67.46)	0.707)	01
Angola	16.18	28.41	1.859(1.764,	0	407.71	734.31	1.943(1.84,2	<0.0	3.51	6.34	1.957(1.85,2	<0.0
	(11.29,22.74)	(19.49,40.98)	1.954)		(281.65,588.77)	(499.67,1062.3)	.047)	01	(1.49,7.15)	(2.72,12.95)	.064)	01
Antigua and Barbuda	45.57	60.64	0.921(0.853,	0	1184.04	1577.69	0.922(0.861,	<0.0	10.48	13.92	0.915(0.858,	<0.0
	(30.83,63.86)	(41.8,86.38)	0.99)		(795.74,1697.4)	(1081.35,224.2.53)	0.984)	01	(4.48,21.66)	(6.13,28.54)	0.972)	01
Argentina	45.96	70.92	1.445(1.402,	0	1164.03	1794.47	1.424(1.354,	<0.0	10.31	15.89	1.422(1.377,	<0.0
	(31.87,65.7)	(50.34,101.64)	1.488)		(804.69,1679.22)	(1259.48,255.2.32)	1.494)	01	(4.61,21.22)	(7.02,32.73)	1.466)	01
Armenia	12.77	19.23	1.344(1.285,	0	321.28	478.73	1.311(1.268,	<0.0	2.79	4.15	1.302(1.251,	<0.0
	(8.85,18.3)	(13.21,27.95)	1.403)		(217.72,473.58)	(323.9,700.39)	1.354)	01	(1.15,6.05)	(1.79,8.78)	1.353)	01
Australia	160.56	195.1	0.615(0.56,0	0	3818.98	4606.14	0.594(0.54,0	<0.0	33.35	40.2	0.602(0.548,	<0.0
	(117.92,208.47)	(138.82,272.46)	.669)		(2800.78,496.1.92)	(3265.61,641.7.26)	.649)	01	(15.01,68.31)	(18.03,83.48)	0.657)	01
Austria	144.37	152.33	0.161(0.116,	0	3733.72	3942.67	0.173(0.096,	<0.0	33.14	34.94	0.154(0.077,	<0.0

	(103.01,19 8.9)	(105.34,21 3.46)	0.205)		(2614.91,515 5.02)	(2723.35,556 9.98)	0.251)	01	(14.93,67. 79)	(15.26,71. 48)	0.23)	01
Azerbaij an	12.95 (9.01,18.4 8)	19.73 (13.21,27. 45)	1.375(1.328, 1.421)	0	327.36 (221.69,486. 18)	505.58 (337.65,727. 07)	1.419(1.377, 1.461)	<0.0 01	2.9 (1.19,6.23)	4.46 (1.81,9.72)	1.404(1.327, 1.481)	<0.0 01
Bahamas	57.85 (38.8,83.7 8)	69.02 (46.9,100. 8)	0.582(0.558, 0.607)	0	1506.12 (1025.77,217 6.77)	1796.01 (1213.4,2608 .97)	0.573(0.559, 0.588)	<0.0 01	13.32 (5.68,28.0 5)	15.86 (7.03,33.9 7)	0.566(0.526, 0.607)	<0.0 01
Bahrain	80.02 (54.78,114 .15)	91.28 (63.71,129 .23)	0.463(0.416, 0.51)	0	2104.49 (1428.61,298 9.85)	2399.15 (1652.22,339 9.21)	0.463(0.416, 0.51)	<0.0 01	18.57 (7.92,38.7 8)	21.12 (9.3,44.61)	0.463(0.415, 0.511)	<0.0 01
Banglade sh	14.95 (10.29,21. 01)	24.43 (17.17,33. 89)	1.608(1.477, 1.74)	0	371.45 (253.24,531. 81)	614.52 (422.62,875. 78)	1.655(1.561, 1.749)	<0.0 01	3.3 (1.41,6.91)	5.43 (2.32,11.5)	1.624(1.487, 1.762)	<0.0 01
Barbados	57.13 (38.35,81. 8)	67.19 (45.35,94. 29)	0.536(0.473, 0.599)	0	1485.65 (1014.05,211 6.97)	1747.68 (1187.58,249 8.66)	0.537(0.473, 0.601)	<0.0 01	13.14 (5.79,27.8 4)	15.41 (6.75,33)	0.523(0.451, 0.596)	<0.0 01
Belarus	8.06 (5.53,11.5 8)	10.64 (7.38,15.3 5)	0.925(0.87,0 .979)	0	199.64 (134.86,295. 4)	265.96 (180.29,396. 6)	0.956(0.926, 0.987)	<0.0 01	1.77 (0.73,3.79)	2.35 (0.98,5.15)	0.94(0.872,1 .008)	<0.0 01
Belgium	116.37 (79.66,167 .29)	137.03 (96.6,192. 74)	0.54(0.5,0.5 8)	0	2993.3 (2057.38,428 0.33)	3545.39 (2465.51,494 7.93)	0.561(0.52,0 .603)	<0.0 01	26.96 (11.92,55. 81)	31.59 (14.47,66. 14)	0.529(0.484, 0.575)	<0.0 01
Belize	45.72 (31.04,64. 98)	65.92 (44.95,94. 84)	1.202(1.13,1 .274)	0	1175.11 (799.55,1652 .17)	1698.95 (1166.35,239 9.27)	1.206(1.135, 1.278)	<0.0 01	10.55 (4.66,22.0 6)	15.12 (6.67,32.2 5)	1.177(1.095, 1.259)	<0.0 01

Benin	18.29 (12.86,25.72)	32.87 (22.4,46.94)	1.911(1.807, 2.016)	0	458.38 (316.55,656.35)	841.31 (570.3,1209.54)	1.981(1.878, 2.085)	<0.0 01	3.91 (1.7,8.3)	7.2 (3.11,15.23)	1.999(1.847, 2.151)	<0.0 01
Bermuda	69.24 (45.53,99.42)	77.01 (52.53,113.93)	0.355(0.293, 0.417)	0	1802.08 (1183.92,2586.26)	2003.91 (1376.5,2920.75)	0.35(0.298,0.402)	<0.0 01	15.96 (6.92,33.23)	17.71 (7.61,36.75)	0.346(0.287, 0.405)	<0.0 01
Bhutan	21.13 (14.8,29.45)	36.96 (25.68,52.75)	1.835(1.791, 1.878)	0	535.23 (369.69,764.72)	951.35 (651.15,1365.52)	1.887(1.841, 1.934)	<0.0 01	4.73 (2.02,9.85)	8.41 (3.68,17.67)	1.897(1.835, 1.959)	<0.0 01
Bolivia (Plurinational State of)	91.21 (61.22,132.39)	120.85 (81.51,169.9)	0.923(0.899, 0.947)	0	2240.54 (1511.12,3238.64)	3013.26 (2024.42,4266.89)	0.986(0.925, 1.048)	<0.0 01	19.44 (8.33,41.19)	26.01 (11.34,55.81)	0.968(0.896, 1.04)	<0.0 01
Bosnia and Herzegovina	4.93 (3.25,7.58)	7.59 (5.07,11.17)	1.429(1.337, 1.521)	0	123.47 (79.04,194.68)	191.47 (125.22,293.78)	1.449(1.257, 1.641)	<0.0 01	1.08 (0.45,2.28)	1.67 (0.7,3.64)	1.433(1.365, 1.502)	<0.0 01
Botswana	27.37 (19.32,39.21)	42.27 (28.68,59.53)	1.423(1.255, 1.591)	0	688.23 (471.44,985.2)	1081.33 (733.16,1530.54)	1.476(1.315, 1.637)	<0.0 01	5.88 (2.51,12.62)	9.23 (4.02,19.29)	1.473(1.305, 1.642)	<0.0 01
Brazil	23.54 (16.12,33.61)	24.97 (17.19,35.09)	0.181(0.086, 0.276)	0	562.85 (382.22,807.58)	610.2 (419.76,868.28)	0.245(0.081, 0.409)	0.00 3	5.01 (2.13,10.55)	5.38 (2.33,11.29)	0.218(0.127, 0.309)	<0.0 01
Brunei Darussalam	101.06 (70.16,145.53)	160.01 (111.25,224.46)	1.498(1.444, 1.551)	0	2426.72 (1692.08,3533.53)	3797.3 (2681.33,5308.98)	1.463(1.424, 1.501)	<0.0 01	21.24 (9.32,43.91)	33.12 (15.02,68)	1.45(1.412,1.487)	<0.0 01

Bulgaria	6.76 (4.49,10.0 1)	8.65 (5.87,12.8)	0.811(0.776, 0.847)	0	171.08 (108.99,259. 83)	218.84 (144.56,326. 54)	0.81(0.77,0. 851)	<0.0 01	1.49 (0.61,3.22)	1.9 (0.77,3.97)	0.811(0.75,0. 872)	<0.0 01
Burkina Faso	17.36 (12.19,24. 59)	27.1 (18.9,37.9 9)	1.456(1.382, 1.53)	0	432.11 (296.79,624. 25)	691.63 (474.65,990. 3)	1.548(1.471, 1.626)	<0.0 01	3.8 (1.59,8.15)	5.98 (2.53,12.6 5)	1.469(1.384, 1.555)	<0.0 01
Burundi	17.44 (12.3,24.4 5)	18.62 (13,25.75)	0.208(0.164, 0.252)	0	435.65 (302.05,617. 45)	460.99 (314.65,664. 66)	0.185(0.138, 0.233)	<0.0 01	3.78 (1.61,8.15)	3.98 (1.68,8.3)	0.16(0.123,0 .196)	<0.0 01
Cabo Verde	19.72 (13.89,27. 83)	32.43 (22.54,45. 9)	1.625(1.514, 1.735)	0	498.89 (347.78,717. 89)	837.21 (575.08,1210 .69)	1.686(1.611, 1.761)	<0.0 01	4.32 (1.86,9.06)	7.22 (3.12,15.1)	1.679(1.597, 1.761)	<0.0 01
Cambodi a	45.59 (31.31,64. 68)	78.36 (54.92,111 .79)	1.797(1.752, 1.842)	0	1159.79 (803.42,1661 .48)	2006.79 (1398.68,288 1.22)	1.807(1.746, 1.868)	<0.0 01	10.04 (4.38,19.8 9)	17.44 (7.75,35.7 1)	1.827(1.768, 1.886)	<0.0 01
Cameroo n	26.78 (18.38,38. 15)	35.51 (23.66,50. 89)	0.916(0.857, 0.976)	0	687.74 (465.13,991. 43)	922.85 (613.78,1361 .89)	0.96(0.896,1 .023)	<0.0 01	5.98 (2.53,12.7 3)	8.08 (3.48,17.0 5)	0.992(0.895, 1.089)	<0.0 01
Canada	57.32 (39.7,82.4 2)	73.82 (51.22,106 .18)	0.815(0.779, 0.851)	0	1436.89 (997.82,2061 .2)	1841.49 (1289.91,266 1.42)	0.784(0.729, 0.838)	<0.0 01	12.89 (5.68,26.4 9)	16.48 (7.06,33.2 4)	0.787(0.761, 0.814)	<0.0 01
Central African Republic	20.77 (14.67,29. 52)	22.41 (15.6,31.4 2)	0.271(0.212, 0.329)	0	531.39 (364.17,777. 43)	575.39 (392.54,824. 48)	0.284(0.217, 0.35)	<0.0 01	4.63 (1.99,9.89)	5.02 (2.15,10.6 7)	0.291(0.218, 0.365)	<0.0 01
Chad	13.77 (9.68,19.5)	20.44 (14.31,28.	1.296(1.179, 1.413)	0	339.92 (233.39,487.	517.4 (356.47,746.	1.372(1.249, 1.494)	<0.0 01	2.89 (1.24,6)	4.41 (1.91,9.39	1.373(1.275, 1.472)	<0.0 01

	8)	68)			64)	8)			)			
Chile	48.73 (34.13,70. 44)	84.21 (59.19,121 .13)	1.781(1.758, 1.805)	0	1233.67 (858.83,1787 .18)	2126.29 (1491.17,308 2.69)	1.77(1.745,1 .795)	<0.0 01	10.92 (4.73,22.4 6)	18.75 (8.02,38.3 2)	1.753(1.717, 1.79)	<0.0 01
China	31.62 (22.52,44. 15)	58.61 (41.19,82. 36)	2.034(1.921, 2.148)	0	832.95 (590.98,1169 .17)	1544.17 (1081.83,216 9.82)	2.034(1.916, 2.153)	<0.0 01	7.13 (3.08,14.8 6)	13.34 (5.88,27.5 5)	2.062(1.947, 2.178)	<0.0 01
Colombi a	66.14 (44.55,96. 83)	86.7 (59.59,127 .64)	0.892(0.853, 0.932)	0	1671.46 (1119.62,240 9.5)	2190.96 (1493.43,318 3.33)	0.89(0.81,0. 969)	<0.0 01	14.9 (6.39,31.3 6)	19.45 (8.41,41.3 9)	0.897(0.845, 0.949)	<0.0 01
Comoros	25.33 (17.66,36. 38)	29.89 (20.52,42. 21)	0.559(0.459, 0.659)	0	649.44 (445.6,947.3 1)	771.62 (529.54,1112 .21)	0.577(0.484, 0.67)	<0.0 01	5.75 (2.38,12.0 6)	6.86 (2.96,14.2)	0.589(0.483, 0.695)	<0.0 01
Congo	22.32 (15.62,31. 72)	30.79 (21.28,43. 98)	1.056(0.991, 1.121)	0	569.57 (392.21,818. 16)	794.25 (548.1,1139. 69)	1.089(1.019, 1.159)	<0.0 01	4.87 (2.04,9.58)	6.79 (2.99,14.2 9)	1.081(1.01,1 .152)	<0.0 01
Cook Islands	80.62 (54.64,116 .39)	120.25 (82.98,174 .65)	1.276(1.206, 1.345)	0	2079.73 (1435.05,301 5.09)	3094.71 (2112.97,450 1.41)	1.266(1.187, 1.345)	<0.0 01	18.23 (8.07,38.5 2)	27.02 (11.92,58. 02)	1.253(1.169, 1.337)	<0.0 01
Costa Rica	80.05 (54.28,118 .8)	106.18 (71.68,151 .78)	0.923(0.891, 0.955)	0	2072.61 (1414.64,300 0.01)	2742.27 (1860.44,396 1.65)	0.916(0.875, 0.957)	<0.0 01	18.09 (8.12,37.6 1)	23.96 (10.36,52. 06)	0.911(0.898, 0.924)	<0.0 01
Coted'Iv oire	18.52 (12.78,26. 58)	29.82 (20.56,43. 32)	1.56(1.504,1 .617)	0	466.87 (319.36,681. 94)	769.68 (528.59,1131 .62)	1.645(1.587, 1.703)	<0.0 01	4 (1.67,8.65)	6.63 (2.89,14.0 1)	1.659(1.6,1. 719)	<0.0 01
Croatia	6.24	8.37	0.974(0.9,1.	0	157.09	211.96	0.99(0.919,1	<0.0	1.37	1.85	1.011(0.919,	<0.0

	(4.15,9.44)	(5.6,12.16)	048)		(101.76,240.28)	(139.84,319.03)	.06)	01	(0.58,2.94)	(0.75,3.94)	1.102)	01
Cuba	49.87 (33.56,70.8)	66.06 (44.66,92.86)	0.915(0.874, 0.956)	0	1294.89 (869.23,1852.94)	1720.78 (1167.5,2445.64)	0.921(0.889, 0.954)	<0.0 01	11.42 (4.92,23.71)	15.18 (6.57,31.88)	0.924(0.874, 0.974)	<0.0 01
Cyprus	89.38 (61.72,125.61)	130.16 (89.94,187.01)	1.18(1.072,1.289)	0	2292.82 (1594.76,3235.1)	3316.4 (2294.61,4779.62)	1.169(1.102, 1.236)	<0.0 01	20.69 (9.21,42.26)	29.81 (13.38,61.05)	1.147(1.05,1.245)	<0.0 01
Czechia	6.4 (4.14,9.49)	8.17 (5.52,12.08)	0.818(0.762, 0.874)	0	162.01 (103.51,240.99)	207.67 (136.98,311.84)	0.814(0.767, 0.86)	<0.0 01	1.41 (0.57,3.01)	1.8 (0.75,3.78)	0.812(0.721, 0.903)	<0.0 01
Democratic People's Republic of Korea	34.19 (24.4,48.54)	38.25 (26.36,53.31)	0.363(0.351, 0.375)	0	874.92 (614.67,1268.56)	980.6 (674.56,1378.28)	0.366(0.346, 0.386)	<0.0 01	7.57 (3.18,15.9)	8.48 (3.64,17.74)	0.364(0.316, 0.412)	<0.0 01
Democratic Republic of the Congo	17.28 (12.13,24.51)	24.89 (17.44,35.27)	1.25(1.123,1.377)	0	435.63 (300.69,634.61)	635.93 (437.9,918.11)	1.285(1.155, 1.415)	<0.0 01	3.74 (1.57,7.77)	5.49 (2.38,11.37)	1.299(1.149, 1.45)	<0.0 01
Denmark	104.99 (71.35,150.67)	132.29 (90.98,188.09)	0.75(0.739,0.761)	0	2544.93 (1771.22,3562.47)	3274.15 (2274.55,4525.94)	0.817(0.8,0.833)	<0.0 01	23.04 (10.56,46.51)	29.59 (13.5,60.47)	0.816(0.795, 0.838)	<0.0 01
Djibouti	20.2 (14.29,28.	33.73 (22.91,49.	1.69(1.619,1.761)	0	513.82 (355.15,762.	875.22 (590.56,1273	1.759(1.678, 1.841)	<0.0 01	4.44 (1.87,9.34	7.58 (3.33,16.2	1.765(1.683, 1.847)	<0.0 01

	93)	09)			5)	.9)		)	2)			
Dominica	45.28 (30.78,66)	62.11 (41.74,88.32)	1.031(0.956, 1.105)	0	1176.15 (793.43,1687.7)	1614.82 (1087.5,2326.9)	1.026(0.954, 1.098)	<0.0 01	10.42 (4.45,21.62)	14.28 (6.26,30)	1.02(0.954,1.087)	<0.0 01
Dominican Republic	40.08 (27.3,57.39)	63.06 (42.23,90)	1.473(1.424, 1.523)	0	1027.9 (701.99,1483.43)	1628.37 (1096.59,2382.98)	1.502(1.446, 1.558)	<0.0 01	9.19 (4.01,18.76)	14.3 (6.06,29.63)	1.428(1.359, 1.496)	<0.0 01
Ecuador	114.4 (79.03,161.06)	151.32 (105.93,208.83)	0.905(0.869, 0.942)	0	2827.8 (1969.41,3967.57)	3731.44 (2625.38,5158.52)	0.908(0.862, 0.954)	<0.0 01	24.55 (11,51.85)	32.36 (14.2,67.2)	0.901(0.863, 0.94)	<0.0 01
Egypt	69 (47.37,98.84)	87.73 (61.35,124.82)	0.804(0.745, 0.862)	0	1820.58 (1239.38,2595.06)	2307.93 (1600.55,3266.64)	0.775(0.717, 0.833)	<0.0 01	16.63 (7.3,35.04)	20.62 (9.17,42.8)	0.712(0.651, 0.774)	<0.0 01
El Salvador	66.04 (44.5,97.91)	94.25 (63.08,136.91)	1.155(1.117, 1.192)	0	1691.6 (1143.78,2473.81)	2401.53 (1646.79,3446.62)	1.141(1.097, 1.185)	<0.0 01	14.88 (6.45,31.36)	20.9 (9.13,43.82)	1.109(1.071, 1.146)	<0.0 01
Equatorial Guinea	18.36 (12.99,26.31)	41.85 (28.77,59.15)	2.703(2.535, 2.871)	0	465.91 (322.91,681.45)	1093.3 (742.52,1576.3)	2.8(2.601,2.999)	<0.0 01	3.99 (1.7,8.52)	9.41 (4.12,19.17)	2.821(2.621, 3.022)	<0.0 01
Eritrea	15.42 (10.84,21.36)	22.62 (15.9,32.39)	1.266(1.148, 1.383)	0	384.65 (262.31,548.86)	577.34 (393.92,836.34)	1.357(1.255, 1.459)	<0.0 01	3.36 (1.45,7.14)	5.04 (2.1,10.68)	1.353(1.221, 1.485)	<0.0 01
Estonia	8.59 (6.01,12.24)	11.98 (8.26,17.46)	1.126(1.077, 1.176)	0	213.33 (143.63,309.74)	301.92 (202.68,453.96)	1.175(1.127, 1.223)	<0.0 01	1.9 (0.76,3.96)	2.68 (1.11,5.9)	1.165(1.101, 1.23)	<0.0 01
Eswatini	35.63	44.09	0.726(0.602, 0.851)	0	905.27	1123.36	0.732(0.6,0.864)	<0.0	7.95	9.78	0.693(0.576, 0.811)	<0.0

	(24.62,50.96)	(30.37,62.02)	0.851)		(619.73,1310.38)	(768,1598.3)	865)	01	(3.36,16.46)	(4.11,19.83)	0.811)	01
Ethiopia	16.08	23.6	1.259(1.216,	0	390.46	595.16	1.385(1.345,	<0.0	3.39	5.18	1.391(1.356,	<0.0
	(11.54,22.37)	(16.74,33.05)	1.302)		(273.42,554.7)	(421.96,860.31)	1.426)	01	(1.44,7.03)	(2.21,11.22)	1.425)	01
Fiji	61.8	94.66	1.37(1.324,1	0	1605.55	2456.86	1.367(1.313,	<0.0	14.17	21.64	1.363(1.301,	<0.0
	(43.03,89.04)	(65.78,135.6)	.416)		(1105,2317.44)	(1705.88,3525.51)	1.421)	01	(6.24,28.85)	(9.6,44.18)	1.424)	01
Finland	105.15	131.64	0.728(0.708,	0	2626.78	3328.88	0.768(0.756,	<0.0	23.6	29.88	0.763(0.738,	<0.0
	(71.1,151.56)	(90.39,188.24)	0.747)		(1815.63,3706.76)	(2300.34,4678.11)	0.78)	01	(10.51,49.06)	(13.55,61.35)	0.788)	01
France	97.69	122.95	0.74(0.723,0	0	2522.94	3174.8	0.741(0.733,	<0.0	23.1	28.86	0.72(0.699,0	<0.0
	(67.45,140.16)	(84.55,174.44)	.758)		(1719.41,3590.99)	(2171.54,4513.88)	0.75)	01	(10.34,48.15)	(13.07,59.63)	.74)	01
Gabon	24.92	37.2	1.32(1.243,1	0	644.26	972.75	1.356(1.268,	<0.0	5.55	8.36	1.346(1.26,1	<0.0
	(17.47,35.43)	(25.29,54.15)	.397)		(444.31,926.07)	(645.02,1427.42)	1.444)	01	(2.37,11.6)	(3.54,17.77)	.432)	01
Gambia	18.62	27.37	1.266(1.135,	0	469.83	702.01	1.322(1.211,	<0.0	4.05	6.05	1.313(1.212,	<0.0
	(13.1,25.81)	(19.17,38.79)	1.396)		(325.81,671.72)	(485.66,1015.59)	1.434)	01	(1.7,8.55)	(2.56,12.22)	1.414)	01
Georgia	16.12	28.18	1.845(1.777,	0	410.16	723.25	1.873(1.807,	<0.0	3.6	6.34	1.869(1.787,	<0.0
	(10.92,23.06)	(19.41,38.83)	1.913)		(271.31,599.43)	(493.76,1013.69)	1.939)	01	(1.44,7.66)	(2.74,13.2)	1.95)	01
Germany	99.39	123.43	0.685(0.613,	0	2467.39	3088.44	0.711(0.667,	<0.0	22.31	27.54	0.677(0.653,	<0.0
	(69.44,138.47)	(85.89,173.38)	0.757)		(1744.88,3387.74)	(2154.31,4291.35)	0.755)	01	(10.32,46.48)	(12.63,55.81)	0.701)	01

Ghana	19.32 (13.57,27.07)	28.4 (20.22,40.84)	1.257(1.184, 1.331)	0	486.05 (337.32,700.95)	728.65 (505.44,1058.76)	1.323(1.201, 1.444)	<0.0 01	4.18 (1.81,8.99)	6.26 (2.7,12.8)	1.313(1.214, 1.413)	<0.0 01
Greece	112.92 (77.51,160.11)	142.85 (96.28,203.73)	0.746(0.705, 0.788)	0	2887.01 (1978.15,411.63)	3616.57 (2488.92,513.9.19)	0.714(0.68,0.747)	<0.0 01	25.89 (11.51,53.11)	32.31 (14.56,68.03)	0.703(0.667, 0.739)	<0.0 01
Greenland	49.05 (34.69,68.9)	65.26 (46.18,93.26)	0.924(0.897, 0.952)	0	1227.79 (853.57,1725.29)	1629.81 (1146.26,231.0.59)	0.91(0.859,0.96)	<0.0 01	10.97 (4.78,22.49)	14.55 (6.51,31.04)	0.906(0.845, 0.968)	<0.0 01
Grenada	39.13 (26.59,55.64)	55.96 (37.72,78.63)	1.18(1.065,1.294)	0	1012.47 (686.36,1452)	1453.75 (974.11,2070.27)	1.189(1.082, 1.297)	<0.0 01	8.96 (3.86,18.58)	12.85 (5.78,27.57)	1.185(1.069, 1.302)	<0.0 01
Guam	86.32 (58.77,124.28)	121.65 (83.72,171.37)	1.102(1.059, 1.144)	0	2229.17 (1532.6,3173.87)	3133.82 (2156.98,447.5.7)	1.095(1.05,1.14)	<0.0 01	19.56 (8.5,40.64)	27.47 (12.13,57.31)	1.089(1.048, 1.131)	<0.0 01
Guatemala	56.21 (37.96,80.7)	80.2 (53.7,116.27)	1.146(1.101, 1.19)	0	1441.02 (977.12,2090.17)	2065.87 (1361.35,300.3.97)	1.146(1.092, 1.2)	<0.0 01	12.4 (5.29,26.42)	17.7 (7.62,36.65)	1.149(1.065, 1.233)	<0.0 01
Guinea	16.92 (11.8,23.47)	25.26 (17.73,35.88)	1.312(1.239, 1.386)	0	424.68 (293.62,604.59)	644.69 (446.28,924.09)	1.361(1.29,1.433)	<0.0 01	3.63 (1.54,7.38)	5.53 (2.38,11.99)	1.389(1.283, 1.495)	<0.0 01
Guinea-Bissau	17 (11.9,24.38)	25.19 (17.47,35.6)	1.289(1.104, 1.475)	0	425.17 (295.81,627.82)	643.63 (442.85,927.29)	1.362(1.195, 1.53)	<0.0 01	3.66 (1.54,7.63)	5.56 (2.39,11.56)	1.358(1.244, 1.474)	<0.0 01
Guyana	40.25 (27.22,58.	58.12 (39.35,81.	1.224(1.174, 1.274)	0	1047.04 (706.71,1541	1517.95 (1022.21,216	1.243(1.19,1.296)	<0.0 01	9.22 (3.95,19.7	13.32 (5.77,28.5	1.229(1.147, 1.311)	<0.0 01

	03)	73)		)	9.77)		8)	)				
Haiti	30.65	38.13	0.746(0.699, 0	788.95	976.99	0.731(0.685, <0.0	6.95	8.42	0.667(0.619, <0.0			
	(20.52,44.73)	(26.31,54.71)	0.794)	(524.28,1148.73)	(669.63,1376.63)	0.777)	01 (3.06,15)	(3.65,17.67)	0.714)	01		
Honduras	53.72	81.11	1.338(1.309, 0	1385.67	2086.66	1.328(1.282, <0.0	12.02	17.99	1.309(1.254, <0.0			
	(36.58,78.36)	(54.85,116.84)	1.367)	(938.08,2027.87)	(1429.96,3031.72)	1.374)	01 (5.19,25.84)	(7.91,38.23)	1.365)	01		
Hungary	6.91	8.5	0.681(0.66,0 0	174.62	215.28	0.686(0.653, <0.0	1.52	1.87	0.692(0.597, <0.0			
	(4.51,9.99)	(5.68,12.68)	.702)	(110.61,261.41)	(141.05,329.6)	0.719)	01 (0.65,3.29)	(0.78,3.93)	0.786)	01		
Iceland	116.71	146.71	0.742(0.708, 0	2981.12	3733.33	0.727(0.695, <0.0	26.78	33.43	0.715(0.676, <0.0			
	(80.64,166.97)	(100.65,205.53)	0.775)	(2066.51,4193.15)	(2607.91,5311.92)	0.76)	01 (12.25,55.56)	(15.1,68.93)	0.754)	01		
India	26.95	46.93	1.85(1.804,1 0	679.25	1269.76	2.082(2.009, <0.0	6	11.07	2.008(1.972, <0.0			
	(19.55,37.06)	(33.28,64.95)	.895)	(489,938.81)	(896.84,1778.02)	2.155)	01 (2.64,12.71)	(4.86,23.2)	2.045)	01		
Indonesia	58.17	111.3	2.131(2.073, 0	1499.36	2876.58	2.138(2.097, <0.0	13.3	25.38	2.119(2.087, <0.0			
	(40.8,80.27)	(78.67,155.47)	2.189)	(1061.71,2116.89)	(2028.48,4056.86)	2.18)	01 (5.84,27.16)	(11.36,52.45)	2.152)	01		
Iran (Islamic Republic of)	63.81	84.97	0.956(0.88,1 0	1670.73	2218.89	0.954(0.876, <0.0	15.33	20.33	0.946(0.789, <0.0			
	(44.36,89.88)	(59.63,120.59)	.032)	(1158.19,2352.29)	(1544.61,3143.54)	1.032)	01 (6.79,32.2)	(9.07,42.81)	1.103)	01		
Iraq	67.32	77.47	0.489(0.412, 0	1766.26	2031.04	0.485(0.402, <0.0	15.58	17.84	0.459(0.408, <0.0			
	(46.8,96.79)	(53.29,110.53)	0.565)	(1226.68,2552.35)	(1375.42,2881.58)	0.568)	01 (6.72,32.44)	(7.89,36.82)	0.51)	01		

Ireland	109.11 (73.79,154 .14)	135.89 (95.25,194 .96)	0.713(0.691, 0.735)	0	2782.52 (1917.65,398 5.77)	3456.86 (2412.02,487 5.75)	0.708(0.687, 0.729)	<0.0 01	24.98 (10.96,51. 69)	30.91 (13.88,63. 01)	0.692(0.664, 0.721)	<0.0 01
Israel	96.25 (66.52,137 .62)	124.98 (85.87,176 .13)	0.843(0.801, 0.884)	0	2434.98 (1697.02,350 0.33)	3154.91 (2193.73,447 0.66)	0.834(0.801, 0.866)	<0.0 01	21.83 (9.77,45.2 4)	28.12 (12.55,58. 11)	0.816(0.782, 0.85)	<0.0 01
Italy	361.55 (250.68,51 4.27)	326.18 (227.34,45 8.58)	-0.341(- 0.409,- 0.274)	0	8559.23 (6129.29,117 90.13)	8113.16 (5757.74,112 65.85)	-0.175(- 0.222,- 0.128)	<0.0 01	74.94 (33.82,15 8.92)	71.69 (32.16,15 2.77)	-0.146(- 0.198,- 0.094)	<0.0 01
Jamaica	43.86 (29.7,61.2 5)	58.91 (39.66,82. 96)	0.966(0.908, 1.023)	0	1142.29 (771.08,1615 .72)	1537.25 (1041.9,2211 .88)	0.972(0.912, 1.032)	<0.0 01	10.12 (4.38,21.2 2)	13.6 (5.83,28.8 8)	0.961(0.87,1 .052)	<0.0 01
Japan	245.52 (175.82,34 2.02)	266.51 (189.72,37 5.55)	0.264(0.196, 0.332)	0	5930.96 (4259.12,825 4.48)	6334.11 (4579.73,879 8.66)	0.203(0.155, 0.252)	<0.0 01	51.73 (22.91,10 4.01)	55.14 (25.1,111. 98)	0.198(0.131, 0.265)	<0.0 01
Jordan	62.94 (43.71,88. 79)	79.57 (54.97,112 .66)	0.816(0.754, 0.878)	0	1640.37 (1137.13,233 6.56)	2079.34 (1454.02,293 8.43)	0.789(0.765, 0.813)	<0.0 01	14.73 (6.37,30.7 2)	18.36 (7.94,38.8 4)	0.71(0.615,0 .805)	<0.0 01
Kazakhst an	14.5 (9.88,21.0 1)	20.32 (13.97,28. 66)	1.09(1.032,1 .147)	0	368.26 (249.86,541. 9)	519.72 (349.98,738. 04)	1.117(1.075, 1.16)	<0.0 01	3.26 (1.39,6.99)	4.56 (1.97,9.67)	1.085(1.027, 1.143)	<0.0 01
Kenya	24.02 (17.28,33. 52)	28.93 (20.71,40. 66)	0.616(0.55,0 .681)	0	600.15 (424.71,856. 92)	745.75 (525.02,1066 .22)	0.73(0.574,0 .887)	<0.0 01	5.2 (2.23,11.0 5)	6.42 (2.75,13.5 8)	0.708(0.571, 0.845)	<0.0 01
Kiribati	53.16 (36.63,73.	78.42 (55.09,110	1.268(1.199, 1.337)	0	1368.14 (925.82,1945	2019.01 (1411.32,283	1.274(1.209, 1.34)	<0.0 01	11.94 (5.26,25.3	17.64 (7.79,36.5	1.276(1.213, 1.34)	<0.0 01

	86)	.62)			.68)	9.09)			5)	4)		
Kuwait	85.47	103.15	0.661(0.609, 0	0	2248.21	2710.67	0.643(0.587, <0.0	19.88	23.93	0.624(0.536, <0.0	01	
	(59.03,122	(71.59,147	0.713)		(1536.04,322	(1867.51,384	0.699)	(8.75,42.0	(10.5,49.3	0.712)	01	
	.9)	.51)			0.09)	4.2)		7)	7)			
Kyrgyzst	13.35	15.96	0.59(0.534,0	0	338.67	406.84	0.605(0.561, <0.0	2.95	3.55	0.603(0.541, <0.0	01	
an	(9.27,18.8	(10.75,22.	.645)		(230.07,489.	(272.05,592.	0.649)	(1.24,6.29	(1.48,7.69	0.665)	01	
	5)	84)			15)	79)		)	)			
Lao	51.33	95.13	2.027(1.965, 0	0	1307.3	2434.47	2.033(1.967, <0.0	11.53	21.43	2.027(1.974, <0.0	01	
People's	(35.64,72.	(67.72,133	2.09)		(916.42,1836	(1718.64,350	2.099)	(5.12,23.5	(9.6,44.1)	2.079)	01	
Democra	65)	.06)			.9)	1.88)		9)				
tic												
Republic												
Latvia	8.54	11.05	0.84(0.819,0	0	211.55	277.56	0.883(0.861, <0.0	1.88	2.44	0.848(0.771, <0.0	01	
	(5.93,12.5	(7.72,15.8)	.861)		(142.74,323.	(189.97,403.	0.904)	(0.78,4.08	(1.02,5.21	0.925)	01	
	3)				62)	99)		)	)			
Lebanon	67.24	88.4	0.896(0.861, 0	0	1772.91	2333.51	0.922(0.879, <0.0	15.49	20.34	0.907(0.876, <0.0	01	
	(46.94,95.	(61.19,125	0.93)		(1219.44,255	(1616.6,3359	0.965)	(6.75,31.5	(8.84,41.9	0.938)	01	
	9)	.89)			7.32)	.94)		4)	2)			
Lesotho	24.55	36.43	1.314(1.233, 0	0	624.98	934.81	1.339(1.247, <0.0	5.46	8.08	1.314(1.212, <0.0	01	
	(17.16,35.	(25.21,52.	1.395)		(433.34,898.	(634.27,1354	1.432)	(2.37,11.5	(3.52,17.7	1.417)	01	
	09)	58)			78)	.64)		3)	9)			
Liberia	19.21	27.66	1.204(1.104, 0	0	486.12	711.82	1.254(1.148, <0.0	4.17	6.03	1.23(1.071,1 <0.0	01	
	(13.55,27.	(19.31,39.	1.304)		(334.17,708.	(489.58,1042	1.359)	(1.77,8.93	(2.6,12.44	.389)	01	
	36)	77)			53)	.57)		)	)			
Libya	76.75	84.61	0.35(0.299,0	0	2004.97	2217.09	0.36(0.306,0 <0.0	17.78	19.61	0.33(0.297,0 <0.0	01	
	(52.63,109	(58,121.75	.402)		(1363.27,287	(1533.97,317	.415)	(7.79,36.3	(8.52,39.9	.364)	01	

	.84)	)			6.03)	7.09)			9)	9)		
Lithuania	7.78 (5.2,11.35)	10.68 (7.48,15.6)	1.032(1.012, 1.052)	0	192.4 (126.52,284. 54)	267.43 (184.63,401. 79)	1.078(1.045, 1.111)	<0.0 01	1.71 (0.69,3.58)	2.34 (0.95,5.02)	1.046(0.977, 1.115)	<0.0 01
Luxembourg	110.81 (74.77,158. .45)	142.81 (98.04,203 .2)	0.829(0.809, 0.848)	0	2824.46 (1930.64,399 9.6)	3617.44 (2530.86,508 6.89)	0.804(0.784, 0.824)	<0.0 01	25.37 (11.33,52. 03)	32.39 (14.42,67. 35)	0.793(0.771, 0.815)	<0.0 01
Madagascar	19.08 (13.5,26.9)	21.82 (15.25,31. 05)	0.469(0.388, 0.55)	0	480.36 (331.6,693.2 2)	555.02 (380.82,810. 24)	0.5(0.424,0. 576)	<0.0 01	4.2 (1.81,9.06)	4.89 (2.09,9.97)	0.513(0.437, 0.589)	<0.0 01
Malawi	25.28 (17.55,36. 25)	28.76 (20.26,41. 04)	0.44(0.339,0 .541)	0	646.77 (441.65,938. 9)	720.04 (497.66,1039 .89)	0.367(0.266, 0.467)	<0.0 01	5.52 (2.33,11.9 5)	6.15 (2.71,12.7 4)	0.379(0.3,0. 458)	<0.0 01
Malaysia	93.46 (65.99,132 .7)	161.5 (112.86,22 6.19)	1.793(1.683, 1.903)	0	2395.22 (1691.73,345 6.2)	4125.99 (2878.52,588 5.36)	1.784(1.693, 1.874)	<0.0 01	20.75 (8.91,41.8 1)	35.66 (15.84,72. 57)	1.762(1.657, 1.868)	<0.0 01
Maldives	54.46 (37.79,75. 72)	128.78 (89.7,183. 56)	2.824(2.689, 2.959)	0	1414.17 (981.78,1979 .59)	3297.11 (2261.38,475 1.03)	2.766(2.636, 2.897)	<0.0 01	12.51 (5.41,25.6 1)	29.2 (12.85,63. 36)	2.763(2.645, 2.881)	<0.0 01
Mali	14.63 (10.39,20. 62)	22.87 (15.87,32. 43)	1.467(1.367, 1.568)	0	362.79 (250.43,519. 38)	579.36 (394.12,836. 53)	1.534(1.454, 1.614)	<0.0 01	3.16 (1.36,6.88)	4.99 (2.18,10.7 9)	1.496(1.392, 1.599)	<0.0 01
Malta	103.7 (72.51,146 .94)	141.4 (95.89,201 .87)	1.008(0.972, 1.045)	0	2654.36 (1833.01,378 4.69)	3600.05 (2508.73,510 2.58)	0.997(0.968, 1.025)	<0.0 01	23.9 (10.65,47. 79)	32.21 (14.45,65. 51)	0.973(0.927, 1.019)	<0.0 01
Marshall	45.42	76.66	1.687(1.606, 0	0	1167.2	1974.44	1.695(1.602, <0.0	<0.0	10.22	17.24	1.686(1.582, <0.0	<0.0

Islands	(31.36,64.73)	(53.65,106.94)	1.767)		(801.76,1680.51)	(1363.98,2758.18)	1.788)	01	(4.53,21.51)	(7.5,36.11)	1.791)	01
Mauritania	23.53 (16.59,34.12)	32.51 (22.66,46.17)	1.068(0.975, 1.161)	0	596.35 (409.12,882.89)	840.8 (576.26,1205.45)	1.131(1.041, 1.221)	<0.0 01	5.21 (2.25,11.3)	7.34 (3.15,14.94)	1.129(1.029, 1.229)	<0.0 01
Mauritius	91.41 (65.12,130.37)	147.1 (103.43,208.27)	1.56(1.468,1.651)	0	2339.78 (1639.26,3402.77)	3769.91 (2642.56,5384.13)	1.566(1.538, 1.594)	<0.0 01	20.49 (9.2,41.69)	32.96 (14.5,69.47)	1.561(1.531, 1.59)	<0.0 01
Mexico	142.27 (97.55,201.58)	141.45 (99.1,197.25)	-0.063(-0.206,0.08)	0.3 88	3593 (2488.62,4991.27)	3622.47 (2553.1,5009.74)	0.008(-0.134,0.15)	0.91 4	31.28 (13.89,65.38)	31.26 (13.85,66.05)	-0.024(-0.225,0.177)	0.81 3
Micronesia (Federated States of)	58.29 (40.79,83.06)	84.43 (59.11,119.36)	1.149(1.074, 1.224)	0	1500.49 (1041.3,2118.6)	2173.82 (1520.35,3095.74)	1.158(1.09,1.226)	<0.0 01	13.16 (5.86,27.34)	19.04 (8.5,39.28)	1.148(1.07,1.226)	<0.0 01
Monaco	121.29 (84.08,171.57)	143.38 (98.27,204.74)	0.534(0.519, 0.55)	0	3091.82 (2103.11,4432.41)	3641.66 (2511.44,5143.38)	0.52(0.495,0.546)	<0.0 01	27.81 (12.28,58.26)	32.58 (14.67,68.3)	0.496(0.467, 0.525)	<0.0 01
Mongolia	12.82 (8.81,18.05)	18.08 (12.37,25.9)	1.143(1.087, 1.199)	0	322.94 (215.88,460.86)	460.34 (310.36,656.75)	1.177(1.113, 1.24)	<0.0 01	2.82 (1.21,5.92)	4.04 (1.69,8.81)	1.184(1.119, 1.248)	<0.0 01
Montenegro	6.69 (4.43,9.94)	8.54 (5.77,12.6)	0.818(0.783, 0.854)	0	168.82 (109.77,256.02)	216.34 (141.41,323.08)	0.827(0.787, 0.866)	<0.0 01	1.47 (0.63,3.12)	1.89 (0.76,4.03)	0.826(0.768, 0.883)	<0.0 01
Morocco	58.93	77.28	0.929(0.895, 0.963)	0	1524.67	2030.18	0.972(0.9,1.044)	<0.0	13.8	18.05	0.894(0.848, 0.94)	<0.0

	(40.56,83.27)	(54.07,111.57)	0.963)		(1037.99,2170.91)	(1397.84,2905.2)	043)	01	(6.1,28.55)	(8.04,37.17)	0.94)	01
Mozambique	18.61 (13.01,26.07)	27.65 (19.07,39.32)	1.293(1.265, 1.32)	0	470.1 (321.11,685.54)	711.86 (483.64,1033.43)	1.354(1.316, 1.393)	<0.0 01	4.03 (1.7,7.97)	6.07 (2.57,12.45)	1.336(1.289, 1.384)	<0.0 01
Myanmar	47.4 (33,67.47)	97.89 (69.86,137.51)	2.403(2.331, 2.476)	0	1205.63 (838.29,1732.92)	2487.69 (1744.39,3493.6)	2.398(2.326, 2.471)	<0.0 01	10.63 (4.68,22.3)	21.97 (9.74,45.39)	2.411(2.331, 2.491)	<0.0 01
Namibia	26.25 (18.52,36.87)	34.88 (24.46,49.9)	0.962(0.896, 1.028)	0	660.12 (456.37,927.9)	885.34 (609.78,1270.79)	0.972(0.935, 1.01)	<0.0 01	5.73 (2.42,12.32)	7.69 (3.41,15.66)	0.965(0.88,1.051)	<0.0 01
Nauru	67.64 (46.69,96.07)	98.26 (68.62,140.24)	1.182(1.104, 1.259)	0	1744.98 (1208.58,2499.65)	2531.5 (1764.66,3680.18)	1.176(1.102, 1.25)	<0.0 01	15.25 (6.79,32.17)	22.1 (9.74,45.92)	1.185(1.108, 1.262)	<0.0 01
Nepal	15.43 (11.02,21.57)	26.39 (18.33,36.92)	1.756(1.7,1.813)	0	384.67 (266.18,550.92)	655.33 (450.84,937.3)	1.744(1.684, 1.803)	<0.0 01	3.39 (1.44,7.33)	5.86 (2.48,12.16)	1.784(1.718, 1.85)	<0.0 01
Netherlands	97.46 (66.35,137.9)	123.5 (85.5,177.57)	0.757(0.744, 0.77)	0	2491.91 (1701.29,3511.06)	3147.42 (2172.38,4452.61)	0.747(0.734, 0.76)	<0.0 01	22.48 (10.04,46.05)	28.23 (12.41,58.9)	0.719(0.686, 0.752)	<0.0 01
New Zealand	236.74 (164.69,338.4)	236.5 (167.69,326.85)	-0.01(-0.038,0.018)	0.4 97	5616.24 (3953.22,7885.09)	5689.13 (4094.5,7762.63)	0.039(0.019, 0.058)	<0.0 01	48.86 (21.76,100.15)	49.57 (22.7,103.17)	0.043(0.027, 0.06)	<0.0 01
Nicaragua	61.65 (41.12,90.54)	87.88 (58.85,127.37)	1.145(1.106, 1.184)	0	1575.26 (1059.42,2304.09)	2246.36 (1501.49,3214.56)	1.145(1.113, 1.177)	<0.0 01	13.74 (5.89,28.78)	19.53 (8.54,42.28)	1.135(1.096, 1.174)	<0.0 01

Niger	15.23 (10.9,21.0 1)	20.38 (14.43,28. 8)	0.954(0.855, 1.054)	0	381.8 (265.36,538. 1)	517.15 (357.86,748. 6)	0.998(0.878, 1.118)	<0.0 01	3.34 (1.43,6.98)	4.47 (1.88,9.34)	0.952(0.808, 1.096)	<0.0 01
Nigeria	21.57 (15.6,29.9)	28.39 (20.27,39. 84)	0.905(0.796, 1.013)	0	540.92 (382.38,778. 28)	739.31 (518.44,1052 .63)	1.028(0.912, 1.144)	<0.0 01	4.64 (2,9.74)	6.39 (2.75,13.6 8)	1.058(0.943, 1.173)	<0.0 01
Niue	73.71 (49.99,104 .45)	112.47 (78.48,161 .45)	1.363(1.329, 1.396)	0	1903.64 (1296.57,271 2.76)	2895.05 (2019.02,415 1.71)	1.356(1.32,1 .392)	<0.0 01	16.69 (7.3,34.62)	25.32 (11.3,52.7 9)	1.348(1.308, 1.388)	<0.0 01
North Macedonia	5.63 (3.8,8.5)	7.77 (5.16,11.5 2)	1.059(1.038, 1.079)	0	141.64 (92.27,219.1 5)	196.09 (127.73,299. 07)	1.071(1.048, 1.095)	<0.0 01	1.24 (0.49,2.75)	1.71 (0.73,3.62)	1.061(0.994, 1.128)	<0.0 01
Northern Mariana Islands	82.43 (56.28,117 .27)	106.78 (74.03,150 .86)	0.836(0.821, 0.852)	0	2127.89 (1465.89,300 8.36)	2752.4 (1891.74,387 4.16)	0.836(0.793, 0.878)	<0.0 01	18.66 (8.28,39.8 5)	24.12 (10.51,51. 12)	0.831(0.781, 0.882)	<0.0 01
Norway	109.14 (76.47,153 .31)	125.2 (88.34,177 .42)	0.452(0.405, 0.499)	0	2807.05 (1957.05,396 0.95)	3217.26 (2259.05,459 1.03)	0.442(0.404, 0.481)	<0.0 01	25.18 (11.32,52. 12)	28.8 (12.89,59. 17)	0.437(0.404, 0.469)	<0.0 01
Oman	55.56 (37.72,79. 05)	91.72 (63.06,129 .69)	1.648(1.622, 1.674)	0	1453.82 (980.78,2101 .72)	2410.09 (1651.57,343 7.57)	1.681(1.622, 1.74)	<0.0 01	12.81 (5.59,26.6 3)	21.2 (9.25,44.0 9)	1.657(1.608, 1.706)	<0.0 01
Pakistan	26.15 (18.92,36. 52)	30.39 (21.44,42. 85)	0.497(0.438, 0.556)	0	656.67 (463.86,945. 5)	765.75 (526.76,1091 .9)	0.553(0.338, 0.768)	<0.0 01	5.84 (2.5,12.49)	6.89 (2.97,14.9 6)	0.581(0.368, 0.796)	<0.0 01
Palau	77.39 (53,111.83)	112.01 (76.55,161)	1.182(1.162, 1.203)	0	1997.33 (1383.37,284)	2887.7 (1990.57,412)	1.178(1.105, 1.252)	<0.0 01	17.48 (7.66,37.1)	25.24 (11.1,51.3)	1.176(1.138, 1.214)	<0.0 01

	)	.1)			9.89)	6.06)			2)	7)		
Palestine	58.43 (40,83,26)	73.97 (50.93,103.68)	0.76(0.684,0.836)	0	1530.73 (1029.05,2236.15)	1942.17 (1327.01,2740.61)	0.77(0.698,0.842)	<0.0 01	13.52 (5.7,28.21)	17.1 (7.73,36.1)	0.767(0.704,0.83)	<0.0 01
Panama	56.21 (37.96,80.7)	90.09 (61.25,131.72)	1.536(1.495,1.577)	0	1455.4 (982.73,2122.06)	2331.37 (1607.36,3400.98)	1.535(1.494,1.575)	<0.0 01	12.59 (5.45,27.39)	20.12 (8.73,43.82)	1.526(1.469,1.584)	<0.0 01
Papua New Guinea	43.75 (30.16,61.26)	64.43 (44.85,90.65)	1.231(1.166,1.295)	0	1109.48 (759.78,1554.15)	1637.42 (1134.3,2363.63)	1.241(1.168,1.314)	<0.0 01	9.6 (4.31,20.19)	14.19 (6.16,29.9)	1.248(1.178,1.318)	<0.0 01
Paraguay	14.97 (10.2,22.09)	23.19 (15.89,33.63)	1.433(1.397,1.47)	0	385.93 (259.62,572.06)	604.4 (409.3,878.16)	1.47(1.431,1.508)	<0.0 01	3.41 (1.41,7.24)	5.3 (2.25,11.07)	1.444(1.4,1.488)	<0.0 01
Peru	96.39 (66.02,137.32)	129.39 (87.3,188)	0.968(0.91,1.026)	0	2280.86 (1525.39,3206.98)	3241.41 (2215.89,4687.01)	1.158(1.005,1.311)	<0.0 01	19.76 (8.67,42.94)	27.92 (12.06,59.4)	1.169(1.052,1.286)	<0.0 01
Philippines	64.13 (45.13,88.91)	108.84 (77.28,151.59)	1.75(1.668,1.832)	0	1644.28 (1149,2331.76)	2801.89 (1957.64,3975.8)	1.766(1.654,1.879)	<0.0 01	14.47 (6.23,29.52)	24.85 (10.81,51.3)	1.791(1.683,1.9)	<0.0 01
Poland	10.17 (6.98,14.9)	10.53 (7.59,14.17)	0.096(0.055,0.137)	0	256.52 (168.78,384.74)	269.48 (190.73,368.48)	0.144(0.109,0.179)	<0.0 01	2.26 (0.94,4.62)	2.36 (1.05,4.77)	0.122(0.094,0.15)	<0.0 01
Portugal	93.62 (64.85,132.19)	128.22 (87.3,180.67)	1.018(0.968,1.069)	0	2401.97 (1664.57,3408.13)	3268.08 (2250.48,4623.77)	0.989(0.945,1.034)	<0.0 01	21.57 (9.61,43.98)	29.25 (13.51,58.84)	0.982(0.942,1.023)	<0.0 01
Puerto	68.39	87.35	0.794(0.772,	0	1778.93	2271.06	0.795(0.774,	<0.0	15.76	20.05	0.79(0.766,0	<0.0

Rico	(46.04,97.24)	(59.06,125.31)	0.816)		(1200.86,255.048)	(1510.57,332.1.18)	0.817)	01	(6.64,33.39)	(8.88,41.54)	.813)	01
Qatar	85.6	101.08	0.561(0.513,	0	2248.66	2660.35	0.575(0.533,	<0.0	19.84	23.43	0.555(0.513,	<0.0
	(59.34,123.4)	(68.65,146.01)	0.608)		(1549.95,326.9.52)	(1810.21,388.5.75)	0.618)	01	(8.63,40.76)	(10.24,48.28)	0.597)	01
Republic of Korea	83.28	130.61	1.486(1.384,	0	2011.11	3117.94	1.459(1.349,	<0.0	17.62	27.23	1.445(1.314,	<0.0
	(58.61,117.62)	(91.77,185.36)	1.587)		(1412.84,288.2.32)	(2187.29,445.3.2)	1.568)	01	(7.83,36.09)	(12.49,55.05)	1.577)	01
Republic of Moldova	6.86	9.9	1.193(1.147,	0	168.37	247.11	1.249(1.203,	<0.0	1.5	2.2	1.242(1.147,	<0.0
	(4.65,10.02)	(6.83,14.06)	1.239)		(111.28,250.76)	(167.49,364.08)	1.294)	01	(0.63,3.2)	(0.91,4.71)	1.337)	01
Romania	5.82	8.21	1.165(1.073,	0	146.28	207.94	1.184(1.103,	<0.0	1.28	1.81	1.19(1.094,1	<0.0
	(3.82,8.66)	(5.55,12.24)	1.258)		(94.26,220.69)	(136.2,318.3)	1.266)	01	(0.51,2.67)	(0.75,3.8)	.286)	01
Russian Federation	8.75	11.18	0.796(0.771,	0	211.11	273.16	0.843(0.818,	<0.0	1.87	2.41	0.836(0.806,	<0.0
	(6.11,12.36)	(7.86,15.88)	0.822)		(142.86,303.3)	(189.03,391.57)	0.868)	01	(0.77,4.05)	(0.99,5.02)	0.866)	01
Rwanda	22.88	28.51	0.746(0.713,	0	568.63	719.98	0.77(0.716,0	<0.0	4.96	6.23	0.742(0.703,	<0.0
	(15.98,32.64)	(19.76,41.16)	0.779)		(392.21,820.52)	(494.75,1039.74)	.825)	01	(2.11,10.48)	(2.68,13.28)	0.782)	01
Saint Kitts and Nevis	51.86	70.38	0.99(0.972,1	0	1347.52	1831.33	1(0.958,1.04	<0.0	11.92	16.17	0.989(0.943,	<0.0
	(35.31,73.46)	(47.73,102.7)	.009)		(919.18,1910.24)	(1243.87,265.5.58)	2)	01	(5.17,24.77)	(7.2,33.53)	1.034)	01
Saint Lucia	43.13	57.81	0.956(0.876,	0	1117.02	1501.8	0.974(0.877,	<0.0	9.88	13.27	0.955(0.89,1	<0.0
	(29.33,61.09)	(39.37,82.03)	1.036)		(755.79,1587.3)	(1022.68,211.0.44)	1.071)	01	(4.29,20.73)	(5.86,27.62)	.021)	01

Saint Vincent and the Grenadines	39.41 (26.42,55.74)	59.34 (39.91,84.1)	1.35(1.278,1.421)	0	1019.92 (684.21,1450.15)	1539.91 (1040.44,2200.11)	1.348(1.316, 1.379)	<0.0 01	9.04 (3.87,19.4)	13.61 (6.01,29.23)	1.355(1.277, 1.434)	<0.0 01
Samoa	69.73 (47.83,101.2)	94.35 (65.04,135.51)	0.976(0.893, 1.06)	0	1799.08 (1223.51,2616.2)	2430.46 (1677.51,3464.56)	0.973(0.903, 1.043)	<0.0 01	15.75 (6.76,32.15)	21.25 (9.51,44.65)	0.969(0.899, 1.04)	<0.0 01
San Marino	115.78 (80.13,164.41)	138.58 (94.84,193.99)	0.568(0.521, 0.614)	0	2956.09 (2056.04,4220.14)	3519.75 (2397.78,4919.3)	0.554(0.523, 0.586)	<0.0 01	26.61 (12.05,55.38)	31.49 (13.97,65.8)	0.536(0.503, 0.569)	<0.0 01
Sao Tome and Principe	20.33 (14.35,28.92)	29.77 (20.97,42.74)	1.24(1.147,1.334)	0	508.44 (352.94,727.79)	756.38 (522.43,1083.55)	1.29(1.201,1.379)	<0.0 01	4.38 (1.88,9.48)	6.53 (2.85,13.49)	1.308(1.204, 1.412)	<0.0 01
Saudi Arabia	70.27 (48.23,99.58)	99.3 (67.62,141.76)	1.175(1.131, 1.22)	0	1845.04 (1267.78,2628.16)	2608.01 (1796.32,3769.73)	1.184(1.136, 1.233)	<0.0 01	16.26 (7.14,33.65)	22.95 (10.33,48.13)	1.135(1.099, 1.172)	<0.0 01
Senegal	21.56 (15.36,31.07)	27.06 (18.73,38.68)	0.745(0.678, 0.811)	0	547.77 (381.45,799.51)	691.99 (476.55,995.18)	0.769(0.692, 0.845)	<0.0 01	4.77 (2.03,10.45)	6.02 (2.62,12.94)	0.77(0.673,0.867)	<0.0 01
Serbia	5.82 (3.82,8.66)	7.84 (5.25,11.29)	0.987(0.958, 1.015)	0	146.42 (94.4,221.26)	198.24 (130.49,289.42)	0.984(0.964, 1.005)	<0.0 01	1.28 (0.52,2.68)	1.73 (0.72,3.68)	0.985(0.895, 1.075)	<0.0 01
Seychelles	97.34 (68.68,138)	137.81 (96.61,193)	1.138(1.072, 1.204)	0	2498.6 (1750.54,357)	3523.9 (2459.9,5007)	1.121(1.052, 1.19)	<0.0 01	21.97 (9.62,45.0)	30.96 (13.71,64.1)	1.113(1.055, 1.171)	<0.0 01

	.13)	.5)			2.46)	.5)			4)	18)		
Sierra Leone	16.72 (11.65,23.11)	27.7 (19.15,40.03)	1.646(1.573, 1.719)	0	419.42 (288.2,599.63)	713.61 (484.16,1047.16)	1.762(1.588, 1.937)	<0.0 01	3.57 (1.57,7.24)	6.08 (2.6,12.95)	1.731(1.555, 1.908)	<0.0 01
Singapore	95.56 (67,136.78)	154.59 (106.48,225.31)	1.559(1.525, 1.593)	0	2295.47 (1619.09,3281.98)	3694.7 (2599.4,5295.41)	1.548(1.522, 1.574)	<0.0 01	20.11 (9.06,40.92)	32.24 (14.9,68.63)	1.535(1.478, 1.591)	<0.0 01
Slovakia	6.01 (4.01,8.92)	8.29 (5.71,12.21)	1.042(0.999, 1.084)	0	150.96 (96.22,227.33)	209.94 (138.84,314.83)	1.064(1.024, 1.104)	<0.0 01	1.31 (0.53,2.9)	1.83 (0.73,4.19)	1.084(1.002, 1.167)	<0.0 01
Slovenia	6.42 (4.34,9.47)	8.89 (5.95,12.98)	1.079(1.008, 1.151)	0	159.85 (104.18,243.3)	223.83 (145.4,331.38)	1.112(1.064, 1.16)	<0.0 01	1.38 (0.57,2.91)	1.92 (0.82,4.06)	1.089(1.014, 1.164)	<0.0 01
Solomon Islands	45.14 (31.32,64.19)	71.08 (48.69,100.38)	1.429(1.366, 1.492)	0	1159.64 (791.36,1675.47)	1827.09 (1265.61,2539.07)	1.437(1.372, 1.502)	<0.0 01	10.16 (4.48,21.21)	15.99 (7.1,34.09)	1.439(1.381, 1.498)	<0.0 01
Somalia	18.94 (13.25,26.64)	21.92 (15.42,31.51)	0.469(0.43,0.509)	0	476.9 (329.34,682.32)	556.85 (381.31,821.91)	0.493(0.453, 0.533)	<0.0 01	4.1 (1.75,8.66)	4.82 (2.02,10.22)	0.517(0.482, 0.552)	<0.0 01
South Africa	35.82 (25.09,50.69)	46.64 (32.6,66.11)	0.882(0.793, 0.971)	0	919.13 (637,1310.8)	1179.02 (803.6,1670.77)	0.843(0.733, 0.952)	<0.0 01	8.04 (3.45,17.35)	10.22 (4.4,21.26)	0.817(0.694, 0.94)	<0.0 01
South Sudan	20.85 (14.65,29.39)	23.01 (16.04,32.97)	0.337(0.283, 0.39)	0	527.51 (363.47,759.55)	586.39 (401.64,846.72)	0.357(0.31,0.404)	<0.0 01	4.57 (1.89,9.95)	5.09 (2.19,10.82)	0.363(0.297, 0.429)	<0.0 01
Spain	105.68	132.93	0.746(0.726, 0.766)	0	2604.85	3307.02	0.781(0.765, 0.797)	<0.0	23.33	29.3	0.746(0.722, 0.769)	<0.0

	(72.61,147.39)	(91.49,189.51)	0.767)		(1798.29,366.4.3)	(2315.93,461.2.92)	0.797)	01	(10.71,49.07)	(13.32,61.49)	0.771)	01
Sri Lanka	73.74 (51.72,104.79)	124.05 (87.31,172.3)	1.731(1.644, 1.818)	0	1894.99 (1335.07,271.7.99)	3164.18 (2231.82,441.8.47)	1.712(1.621, 1.803)	<0.0 01	16.92 (7.53,35.24)	27.8 (12.32,55.29)	1.635(1.497, 1.773)	<0.0 01
Sudan	39.11 (26.86,55.01)	68.77 (47.85,96.5)	1.837(1.783, 1.891)	0	1020.97 (687.98,1446.97)	1817.65 (1262.35,259.4.65)	1.894(1.799, 1.99)	<0.0 01	8.89 (3.92,19.29)	15.67 (7.05,32.71)	1.848(1.778, 1.917)	<0.0 01
Suriname	45.02 (30.63,64.12)	61.38 (41.59,86.89)	1.007(0.956, 1.059)	0	1168.72 (790.65,1650.18)	1595.49 (1084.73,227.9.93)	1.017(0.97,1.064)	<0.0 01	10.32 (4.47,21.66)	14.04 (6.19,30.03)	1.012(0.949, 1.076)	<0.0 01
Sweden	82.87 (58.14,118.45)	101.12 (70.76,143.7)	0.658(0.607, 0.708)	0	2153.21 (1500.37,308.5.94)	2606.76 (1811.07,368.3.24)	0.631(0.583, 0.678)	<0.0 01	19.36 (8.63,40.09)	23.32 (10.52,47.78)	0.611(0.555, 0.668)	<0.0 01
Switzerland	109.15 (74.78,155.16)	122.96 (85.77,176.87)	0.382(0.368, 0.396)	0	2775.55 (1920.43,396.1.33)	3125.63 (2182.43,440.8.64)	0.382(0.373, 0.391)	<0.0 01	24.88 (10.89,50.64)	27.95 (12.46,57.)	0.369(0.347, 0.392)	<0.0 01
Syrian Arab Republic	58.69 (39.67,82.71)	77.22 (53.73,110.46)	0.913(0.876, 0.95)	0	1525.26 (1028.35,216.2.87)	2026.43 (1402.83,287.8.71)	0.947(0.906, 0.989)	<0.0 01	13.38 (5.95,27.83)	17.7 (7.85,36.9)	0.931(0.878, 0.985)	<0.0 01
Taiwan (Province of China)	59.85 (40.47,85.44)	96.73 (69.47,131.02)	1.568(1.531, 1.606)	0	1540.73 (1034.64,223.2.94)	2489.94 (1762.39,340.0.01)	1.563(1.54,1.586)	<0.0 01	13.33 (5.76,28.5)	21.51 (9.46,43.18)	1.564(1.509, 1.62)	<0.0 01
Tajikistan	10.82 (7.52,15.6)	13.91 (9.48,19.9)	0.814(0.775, 0.854)	0	270.08 (184.9,397.0)	348.14 (231.14,507.)	0.825(0.778, 0.872)	<0.0 01	2.38 (0.99,5.32)	3.1 (1.26,6.67)	0.859(0.79,0.928)	<0.0 01

		4)			6)	29)		)	)			
Thailand	69.74	136.04	2.212(2.127,	0	1787.45	3482.2	2.202(2.129,	<0.0	16.23	30.98	2.14(2.044,2	<0.0
	(48.86,98.	(96.2,190.	2.296)		(1248.06,256	(2427.75,495	2.275)	01	(7.13,33.2	(13.79,65.	.236)	01
	38)	05)			0.4)	0.67)			)	46)		
Timor-	48.62	80.27	1.659(1.6,1.	0	1237.8	2052.11	1.668(1.609,	<0.0	10.95	18.19	1.675(1.602,	<0.0
Leste	(33.99,68.	(57.49,116	718)		(863.34,1736	(1441.38,297	1.727)	01	(4.86,22.5	(7.98,36.7	1.747)	01
	41)	.88)			.14)	8.82)			2)	7)		
Togo	17.55	26.21	1.323(1.225,	0	437.35	669.85	1.394(1.276,	<0.0	3.79	5.81	1.391(1.26,1	<0.0
	(12.32,24.	(18.27,37.	1.421)		(300.23,626.	(459.08,982.	1.512)	01	(1.6,8.14)	(2.5,12.39	.522)	01
	85)	77)			48)	57)				)		
Tokelau	61.85	101.55	1.615(1.551,	0	1593.51	2616.3	1.616(1.556,	<0.0	13.96	22.85	1.608(1.545,	<0.0
	(42.9,88.7	(70.21,144	1.679)		(1104.38,228	(1803.44,374	1.677)	01	(6.12,29.2	(10.43,47.	1.672)	01
	7)	.88)			3.83)	3.89)			1)	33)		
Tonga	79.12	108.25	1.005(0.954,	0	2041.69	2790.79	0.986(0.925,	<0.0	17.87	24.38	0.981(0.922,	<0.0
	(54.16,112	(73.8,156.	1.055)		(1398.74,298	(1907.11,397	1.048)	01	(7.82,36.7	(10.65,50.	1.039)	01
	.92)	06)			2.69)	0.77)			7)	19)		
Trinidad	45.46	65.49	1.209(1.116,	0	1176.96	1708.6	1.228(1.127,	<0.0	10.55	15.08	1.19(1.086,1	<0.0
and	(30.5,64.8	(43.65,94.	1.302)		(792.17,1656	(1152.71,245	1.33)	01	(4.57,22.2	(6.58,31.1	.293)	01
Tobago	8)	12)			.46)	8)			)	9)		
Tunisia	56.39	79.26	1.118(1.084,	0	1476.32	2082.09	1.141(1.085,	<0.0	13.43	18.48	1.071(1.032,	<0.0
	(38.56,82.	(54.87,112	1.152)		(994.13,2177	(1439.97,295	1.197)	01	(5.77,28.0	(8.25,38.7	1.111)	01
	4)	.67)			.33)	6.93)			9)	5)		
Turkey	53.53	74.78	1.103(0.96,1	0	1393.28	1954.56	1.077(0.855,	<0.0	12.72	17.25	0.997(0.844,	<0.0
	(37.16,76.	(51.54,106	.247)		(954.5,2010.	(1341.83,279	1.298)	01	(5.69,26.4	(7.69,36.3	1.15)	01
	19)	.27)			92)	5.21)			)	3)		
Turkmen	13.55	19.54	1.208(1.136,	0	342.57	499.41	1.242(1.161,	<0.0	3	4.36	1.232(1.127,	<0.0

istan	(9.31,19.36)	(13.43,28.02)	1.279)		(234.05,499.55)	(335.7,734.32)	1.322)	01	(1.25,6.37)	(1.84,9.24)	1.338)	01
Tuvalu	57.71 (39.75,81.88)	91.62 (63.54,130.16)	1.484(1.453, 0 1.514)	0	1486.83 (1036.95,2108.99)	2359.26 (1626.1,3363.82)	1.468(1.39,1 .547)	<0.0 01	13.01 (5.73,26.78)	20.62 (9.44,43.69)	1.471(1.389, 1.552)	<0.0 01
Uganda	21.34 (14.86,30)	26.55 (18.65,37.74)	0.732(0.664, 0 0.8)	0	540.08 (368.37,774.96)	672.52 (462.55,967.04)	0.733(0.666, 0.799)	<0.0 01	4.68 (1.98,10.12)	5.78 (2.48,11.92)	0.704(0.624, 0.784)	<0.0 01
Ukraine	8.31 (5.84,11.94)	9.84 (6.9,14.14)	0.56(0.521,0 .6)	0	198.28 (133.72,288.75)	237.18 (161.22,349.27)	0.6(0.577,0. 622)	<0.0 01	1.78 (0.74,3.5)	2.13 (0.89,4.54)	0.59(0.522,0 .658)	<0.0 01
United Arab Emirates	70.28 (48.76,100.07)	92.6 (63.36,132.81)	0.909(0.876, 0 0.943)	0	1846.08 (1267.87,2644.64)	2433.55 (1675.23,3522.8)	0.915(0.875, 0.954)	<0.0 01	16.25 (7.2,33.99)	21.37 (9.46,44.43)	0.909(0.867, 0.952)	<0.0 01
United Kingdom	119.73 (84.47,168.47)	150.78 (106.22,211.32)	0.743(0.683, 0 0.802)	0	3066.85 (2131.89,4361.89)	3835.91 (2672.27,5436.12)	0.722(0.67,0 .774)	<0.0 01	27.48 (12.3,56.71)	34.25 (15.52,70.62)	0.709(0.654, 0.765)	<0.0 01
United Republic of Tanzania	24.52 (16.89,35.06)	29.83 (20.77,42.01)	0.647(0.617, 0 0.677)	0	629.06 (426.38,919.78)	766.13 (524.33,1092.09)	0.644(0.627, 0.661)	<0.0 01	5.35 (2.28,10.7)	6.54 (2.92,13.54)	0.651(0.613, 0.689)	<0.0 01
United States of America	125.86 (88.65,176.34)	157.14 (116.75,206.42)	0.615(0.345, 0 0.885)	0	3144.31 (2220.62,4423.21)	3935.93 (2940.53,5138.6)	0.652(0.406, 0.898)	<0.0 01	28.11 (12.42,57.74)	34.83 (16.07,70.21)	0.638(0.477, 0.8)	<0.0 01
United States	66.26 (45.08,96.	83.82 (56.13,120	0.758(0.72,0 .796)	0	1724 (1162.13,253	2177.74 (1449.14,312	0.754(0.717, 0.79)	<0.0 01	15.29 (6.65,32.6	19.22 (8.4,41.13	0.74(0.701,0 .78)	<0.0 01

Virgin Islands	74)	.67)			7.13)	1.48)			9)	)		
Uruguay	47.08 (33.17,66.75)	77.63 (54.72,112.02)	1.632(1.58,1.684)	0	1191.16 (826.85,1708.67)	1968.43 (1386.43,2858.94)	1.651(1.601,1.701)	<0.0 01	10.56 (4.58,21.74)	17.38 (7.59,34.85)	1.63(1.567,1.693)	<0.0 01
Uzbekistan	13.93 (9.53,19.93)	19.28 (13.34,26.71)	1.06(1.005,1.114)	0	351.27 (234.79,514.12)	491.56 (333.67,691.99)	1.093(1.048,1.139)	<0.0 01	3.07 (1.26,6.56)	4.29 (1.84,9.33)	1.091(1.015,1.167)	<0.0 01
Vanuatu	52.13 (36.57,74.17)	77.93 (53.18,112.57)	1.282(1.256,1.309)	0	1341.47 (926.99,1923.6)	2007.65 (1362.31,2935.24)	1.262(1.199,1.326)	<0.0 01	11.75 (5.21,23.98)	17.58 (7.79,37.45)	1.26(1.194,1.326)	<0.0 01
Venezuela (Bolivarian Republic of)	77.95 (52.5,114.59)	98.33 (68.01,141.95)	0.744(0.711,0.776)	0	2011.15 (1356.69,2941.55)	2531.18 (1709.99,3685.17)	0.735(0.702,0.768)	<0.0 01	17.58 (7.64,37.43)	22.06 (9.61,46.27)	0.728(0.691,0.765)	<0.0 01
Viet Nam	45 (31.36,62.39)	90.74 (63.35,127.03)	2.321(2.252,2.39)	0	1133.23 (781.23,1595.74)	2281.42 (1589.77,3247.08)	2.319(2.247,2.392)	<0.0 01	9.95 (4.37,20.61)	20.02 (8.54,41.66)	2.315(2.242,2.388)	<0.0 01
Yemen	40.51 (28.47,58.27)	49.82 (33.8,71.41)	0.689(0.651,0.728)	0	1054.43 (736.22,1554.34)	1304.84 (876.74,1890.88)	0.706(0.678,0.733)	<0.0 01	9.25 (4.11,19.57)	11.45 (4.94,24.53)	0.702(0.644,0.761)	<0.0 01
Zambia	28.23 (19.39,40.23)	34.33 (23.39,48.84)	0.654(0.596,0.712)	0	725.52 (490.1,1053.21)	884.16 (592.83,1290.42)	0.66(0.598,0.723)	<0.0 01	6.19 (2.61,13.45)	7.6 (3.27,15.8)	0.687(0.629,0.744)	<0.0 01

Zimbab	29.99	32.29	0.28(0.159,0	0	762.12	823.01	0.259(0.198,	<0.0	6.57	7.08	0.256(0.172,	<0.0
we	(20.42,42.	(22.62,45.	.402)		(511.8,1096.	(564.1,1177.	0.319)	01	(2.87,13.8	(3.01,15.0	0.34)	01
	9)	66)			6)	99)			5)	3)		

Table S9 The global burden of 10-24 PCOS in GBD regions, between 1990 and 2036.

Year	Rate			Number		
	incidence	prevalence	DALYs	incidence	prevalence	DALYs
1990	187.9652	1633.329057	14.84767	1430611	12431336.22	113006.2177
1991	189.2787	1651.146866	15.01912	1449498	12644498.39	115016.5433
1992	190.809	1666.970151	15.16534	1470281	12844862.92	116856.7297
1993	192.4156	1681.127928	15.29751	1493180	13045851.66	118711.431
1994	194.0541	1692.305077	15.4053	1518207	13239963.92	120525.3509
1995	195.6699	1699.878794	15.47516	1545336	13425076.55	122217.6253
1996	197.7187	1708.117137	15.55251	1577916	13631819.77	124118.5126
1997	200.4519	1721.593185	15.67234	1617265	13889973.15	126445.8726
1998	203.409	1738.352856	15.82161	1659650	14183529.94	129091.2883
1999	206.0591	1756.259497	15.98863	1700802	14496080.38	131969.3694
2000	207.9165	1773.211399	16.14566	1736255	14807617.46	134828.0881
2001	209.3467	1792.226588	16.32587	1767836	15134520.46	137864.369
2002	210.7779	1815.807426	16.54914	1798697	15495402.28	141223.9708
2003	211.9574	1841.184168	16.79531	1826200	15863419.46	144706.3646
2004	212.698	1866.033014	17.02888	1848232	16214830.66	147971.8824
2005	212.8416	1888.073364	17.23454	1863287	16528835.48	150877.0016
2006	212.3758	1906.198375	17.39701	1871956	16801913.55	153343.4585
2007	211.7081	1921.917111	17.54257	1877155	17041081.03	155544.8362
2008	211.1742	1937.37004	17.68516	1880888	17255783.24	157518.3466

2009	211.1349	1954.006365	17.82968	1885865	17453256.38	159255.355
2010	211.8464	1971.517457	17.98354	1893589	17622409.67	160745.873
2011	213.4525	1990.173156	18.14174	1906039	17771393.51	161997.9743
2012	215.6762	2009.536013	18.27887	1922961	17916955.91	162973.7507
2013	218.2526	2027.438825	18.40677	1942932	18048700.37	163861.0457
2014	220.8996	2042.041974	18.50729	1964345	18158812.04	164575.6179
2015	223.3706	2052.191208	18.5828	1986359	18249441.8	165250.527
2016	226.0543	2062.972613	18.6861	2014389	18383326.41	166513.4288
2017	229.3617	2078.198403	18.8338	2052511	18597368.93	168539.8146
2018	232.9046	2094.31907	18.98937	2096609	18853078.06	170942.4986
2019	236.2399	2108.763904	19.12308	2141787	19118375.93	173372.7953
2020	240.4725	2134.783083	19.34193	2196573	19499972.22	176677.0042
2021	242.5261	2141.618666	19.39231	2232036	19709917.6	178472.8417
2022	244.561	2153.066169	19.47991	2267415	19923847.02	180312.8665
2023	245.3764	2166.840921	19.58984	2287925	20140968.41	182189.7063
2024	246.1653	2181.79004	19.71318	2306538	20360647.21	184097.2189
2025	246.5228	2197.331764	19.84456	2316700	20582374.97	186030.2867
2026	247.093	2213.172526	19.98077	2327406	20805744.36	187984.6461
2027	247.7268	2229.164187	20.11987	2336010	21030429.02	189956.7447
2028	248.7122	2245.231995	20.26071	2348209	21256167.45	191943.6229
2029	249.9371	2261.338227	20.4026	2362519	21482750.17	193942.8148
2030	251.4722	2277.463849	20.54511	2381775	21710009.32	195952.2661
2031	253.1973	2293.599255	20.68799	2404392	21937810.43	197970.2649
2032	255.0825	2309.739598	20.8311	2431086	22166045.75	199995.3853
2033	257.023	2325.882433	20.97435	2460028	22394628.96	202026.439
2034	258.9726	2342.026525	21.11768	2490815	22623490.9	204062.4361

2035	260.8677	2358.171252	21.26106	2521786	22852576.15	206102.5519
2036	262.6873	2374.316298	21.40446	2552342	23081840.32	208146.0992

Table S10. Frontier DALYs, and effective difference by country or territory

Location	SDI	ASDR 2021	Frontier DALYs	Effective difference
Afghanistan	0.3372	11.105179	2.937900752	8.167277868
Albania	0.70685	1.6939818	1.087893838	0.606087974
Algeria	0.659501	19.418191	1.095451917	18.32273891
American Samoa	0.723728	24.405623	1.096071436	23.30955113
Andorra	0.869444	32.019246	1.085091806	30.93415392
Angola	0.453722	6.3422252	2.923622115	3.418603052
Antigua and Barbuda	0.749887	13.921026	1.081740621	12.83928539
Argentina	0.723123	15.89321	1.084759972	14.80844975
Armenia	0.701833	4.1486573	1.08939932	3.059257958
Australia	0.844253	40.196639	1.085844006	39.11079495
Austria	0.853837	34.937339	1.099291411	33.83804742
Azerbaijan	0.694851	4.4600245	1.080769287	3.379255249
Bahamas	0.805021	15.860376	1.094083184	14.76629291
Bahrain	0.753043	21.122009	1.084930981	20.03707794
Bangladesh	0.492421	5.4302955	2.3816782	3.048617333
Barbados	0.746749	15.411638	1.080792102	14.3308455
Belarus	0.784485	2.3494954	1.088919902	1.260575481
Belgium	0.853654	31.589488	1.088281533	30.50120664
Belize	0.610229	15.1203	1.095952037	14.02434845
Benin	0.373487	7.1983194	3.00439694	4.193922433
Bermuda	0.821365	17.712817	1.090125032	16.62269147

Bhutan	0.473062	8.4111773	2.402499981	6.008677364
Bolivia (Plurinational State of)	0.599011	26.007534	1.080862296	24.92667208
Bosnia and Herzegovina	0.723078	1.6687469	1.082887445	0.585859479
Botswana	0.642722	9.2256201	1.081892865	8.143727193
Brazil	0.653044	5.3786783	1.081893826	4.29678451
Brunei Darussalam	0.810234	33.119498	1.099631882	32.01986598
Bulgaria	0.768151	1.9002153	1.080377393	0.819837858
Burkina Faso	0.285118	5.976423	2.894923062	3.081499982
Burundi	0.289374	3.9849563	2.890713082	1.094243266
Cabo Verde	0.533535	7.2181381	2.384364577	4.833773544
Cambodia	0.473621	17.437979	2.408212167	15.02976657
Cameroon	0.479691	8.0828835	2.41738838	5.66549509
Canada	0.873171	16.476995	1.088044455	15.38895008
Central African Republic	0.309168	5.0171494	2.955364532	2.061784892
Chad	0.240436	4.4146827	2.895528273	1.519154411
Chile	0.771515	18.752416	1.088225541	17.66419
China	0.72163	13.340675	1.08480729	12.25586723
Colombia	0.655443	19.45477	1.088040777	18.36672901
Comoros	0.475979	6.8582945	2.381720114	4.476574418
Congo	0.583075	6.785749	1.090005733	5.695743316
Cook Islands	0.77911	27.02257	1.091236718	25.93133303
Costa Rica	0.70034	23.957924	1.083635596	22.87428824
Cote d'Ivoire	0.425942	6.6311143	1.085030263	5.546084036
Croatia	0.798341	1.8520826	1.08983662	0.76224599
Cuba	0.66873	15.178489	1.080906846	14.09758176
Cyprus	0.835631	29.8057	1.0942226	28.71147695

Czechia	0.82845	1.8001728	1.089585634	0.710587128
Democratic People's Republic of Korea	0.569855	8.4779867	1.092652634	7.385334052
Democratic Republic of the Congo	0.38318	5.4906431	2.956144434	2.534498677
Denmark	0.896424	29.594995	1.082291905	28.51270326
Djibouti	0.487958	7.5760257	2.395196067	5.180829598
Dominica	0.746967	14.277171	1.089324619	13.18784617
Dominican Republic	0.619388	14.304983	1.089153317	13.21582976
Ecuador	0.661017	32.364798	1.096321116	31.26847651
Egypt	0.606787	20.619348	1.083094396	19.53625382
El Salvador	0.563775	20.895937	1.096156692	19.79978019
Equatorial Guinea	0.657857	9.4061504	1.081194086	8.324956298
Eritrea	0.403864	5.0361552	2.933155399	2.102999795
Estonia	0.844918	2.6808648	1.081067588	1.599797163
Eswatini	0.58546	9.775134	1.084599134	8.69053483
Ethiopia	0.358823	5.1761262	2.899673298	2.276452892
Fiji	0.675052	21.639939	1.087798917	20.5521405
Finland	0.859831	29.883612	1.089668199	28.79394421
France	0.838365	28.863167	1.084389104	27.77877805
Gabon	0.634691	8.3591932	1.086658652	7.272534546
Gambia	0.409714	6.0499702	2.904445092	3.145525088
Georgia	0.846564	6.3371961	1.097389859	5.239806246
Germany	0.902957	27.538715	1.082442975	26.4562723
Ghana	0.56493	6.264797	1.08510025	5.179696794
Greece	0.791854	32.306197	1.097420132	31.20877663
Greenland	0.82621	14.546448	1.099114525	13.44733385
Grenada	0.668993	12.850473	1.089201895	11.7612716

Guam	0.803982	27.468789	1.0946894	26.37409918
Guatemala	0.539972	17.698881	1.094159718	16.60472114
Guinea	0.336401	5.5277245	2.905813256	2.621911211
Guinea-Bissau	0.35311	5.5554814	2.898192795	2.657288591
Guyana	0.650812	13.32021	1.080577951	12.23963209
Haiti	0.448278	8.4174129	2.892273968	5.525138893
Honduras	0.513037	17.991197	2.381641391	15.60955579
Hungary	0.790755	1.8734838	1.087399662	0.786084116
Iceland	0.876362	33.432235	1.083645279	32.34858939
India	0.575402	11.073677	1.094236044	9.979440746
Indonesia	0.656868	25.384717	1.087763653	24.29695354
Iran (Islamic Republic of)	0.697207	20.32784	1.0830247	19.24481502
Iraq	0.662626	17.836685	1.084731354	16.75195377
Ireland	0.873754	30.91296	1.090689506	29.82227027
Israel	0.809012	28.122494	1.088407086	27.03408735
Italy	0.805774	71.693355	1.087065753	70.60628893
Jamaica	0.683263	13.602837	1.084788166	12.51804893
Japan	0.871242	55.143064	1.081438186	54.06162594
Jordan	0.725307	18.357363	1.080796118	17.27656699
Kazakhstan	0.725144	4.560451	1.082454601	3.477996359
Kenya	0.523768	6.4242029	2.384942158	4.039260723
Kiribati	0.527187	17.640321	2.382681998	15.25763871
Kuwait	0.846651	23.927405	1.083107099	22.84429833
Kyrgyzstan	0.603979	3.5530796	1.09533415	2.457745494
Lao People's Democratic Republic	0.489136	21.43408	2.382851863	19.05122836
Latvia	0.830664	2.4401885	1.089081272	1.351107189

Lebanon	0.744746	20.338249	1.085115557	19.25313321
Lesotho	0.510393	8.0808046	2.381737529	5.699067048
Liberia	0.352442	6.0296204	2.932045736	3.097574709
Libya	0.725771	19.605767	1.088524036	18.51724289
Lithuania	0.856484	2.3445656	1.082799893	1.261765686
Luxembourg	0.884429	32.386942	1.081143741	31.30579844
Madagascar	0.400247	4.8889205	2.911830918	1.977089572
Malawi	0.384554	6.1513422	2.899685919	3.251656296
Malaysia	0.742524	35.65852	1.081840188	34.5766801
Maldives	0.650887	29.199855	1.093960638	28.10589398
Mali	0.26858	4.994061	2.911374283	2.082686751
Malta	0.801585	32.209477	1.081140163	31.12833643
Marshall Islands	0.574091	17.237995	1.094800945	16.14319363
Mauritania	0.498945	7.3415449	2.408192826	4.933352066
Mauritius	0.71826	32.959442	1.085200954	31.87424109
Mexico	0.664575	31.263988	1.09094434	30.17304389
Micronesia (Federated States of)	0.587535	19.044726	1.094148354	17.95057774
Monaco	0.908263	32.582724	1.0852713	31.49745317
Mongolia	0.617622	4.0361588	1.084983384	2.951175445
Montenegro	0.795801	1.8875861	1.093196421	0.794389683
Morocco	0.562698	18.047846	1.083760087	16.96408596
Mozambique	0.326463	6.0695242	2.893105093	3.176419108
Myanmar	0.533901	21.968631	2.362164026	19.60646676
Namibia	0.617565	7.6935923	1.08411795	6.609474374
Nauru	0.625178	22.098997	1.081488425	21.01750901
Nepal	0.433175	5.8632197	2.890302944	2.972916764

Netherlands	0.888464	28.233001	1.084859483	27.14814141
New Zealand	0.849442	49.573073	1.097240949	48.47583216
Nicaragua	0.523958	19.534534	2.381665241	17.15286885
Niger	0.168073	4.465182	2.889793068	1.575388935
Nigeria	0.503391	6.3948824	2.381979756	4.012902676
Niue	0.726222	25.320538	1.085128034	24.23540986
North Macedonia	0.75063	1.7064653	1.085769599	0.620695734
Northern Mariana Islands	0.771535	24.115566	1.082291061	23.03327463
Norway	0.916133	28.804937	1.084734614	27.72020231
Oman	0.773392	21.196955	1.094798619	20.10215634
Pakistan	0.504029	6.8907082	2.383313449	4.507394747
Palau	0.754047	25.236549	1.095340832	24.14120864
Palestine	0.631012	17.104273	1.085351622	16.0189217
Panama	0.708865	20.117339	1.09556924	19.02177015
Papua New Guinea	0.417797	14.188292	2.901220083	11.28707207
Paraguay	0.635718	5.3043314	1.08081618	4.223515225
Peru	0.662054	27.921212	1.099200672	26.82201132
Philippines	0.651219	24.854655	1.088738584	23.7659166
Poland	0.812043	2.3627067	1.095219911	1.267486834
Portugal	0.744152	29.25462	1.084512125	28.17010831
Puerto Rico	0.825526	20.050866	1.084448689	18.9664174
Qatar	0.846861	23.426956	1.081305591	22.34565065
Republic of Korea	0.886675	27.227011	1.080809783	26.14620158
Republic of Moldova	0.732215	2.1999807	1.090242321	1.109738377
Romania	0.768454	1.8115696	1.082616267	0.728953329
Russian Federation	0.808536	2.4133327	1.083827137	1.32950557

Rwanda	0.435589	6.2256818	2.99245972	3.233222037
Saint Kitts and Nevis	0.754987	16.16843	1.088898044	15.07953235
Saint Lucia	0.67251	13.265041	1.094638885	12.17040186
Saint Vincent and the Grenadines	0.637196	13.614828	1.091666304	12.52316194
Samoa	0.593393	21.251092	1.096574776	20.15451753
San Marino	0.888005	31.488334	1.082738674	30.40559503
Sao Tome and Principe	0.505414	6.5290334	2.381716035	4.147317383
Saudi Arabia	0.815143	22.947172	1.081681075	21.86549081
Senegal	0.408054	6.0199818	2.987159938	3.032821885
Serbia	0.792416	1.7342838	1.081402163	0.652881685
Seychelles	0.730151	30.963675	1.091266285	29.87240902
Sierra Leone	0.358666	6.0835787	2.943542263	3.140036407
Singapore	0.856098	32.235629	1.08279553	31.15283359
Slovakia	0.810611	1.8323941	1.091296367	0.7410977
Slovenia	0.842431	1.922905	1.082123776	0.840781237
Solomon Islands	0.42936	15.985625	2.942217295	13.04340744
Somalia	0.077688	4.8162008	4.107641455	0.708559367
South Africa	0.679627	10.224953	1.095428175	9.129525135
South Sudan	0.278371	5.0862669	3.039286785	2.046980145
Spain	0.769284	29.302158	1.099470945	28.20268725
Sri Lanka	0.701535	27.800585	1.082915361	26.71767009
Sudan	0.54195	15.666739	1.094445895	14.57229328
Suriname	0.633666	14.041611	1.10443169	12.93717945
Sweden	0.88688	23.315872	1.08796159	22.2279103
Switzerland	0.933059	27.954443	1.096077793	26.85836492
Syrian Arab Republic	0.623004	17.702708	1.091596971	16.61111107

Taiwan (Province of China)	0.874747	21.509569	1.083874251	20.42569503
Tajikistan	0.541511	3.1025734	1.088768817	2.013804595
Thailand	0.682548	30.975014	1.088555402	29.88645814
Timor-Leste	0.444668	18.187912	2.937487898	15.25042393
Togo	0.408534	5.8114367	3.013323971	2.798112705
Tokelau	0.686426	22.85439	1.083622898	21.77076674
Tonga	0.62635	24.378768	1.0874148	23.29135337
Trinidad and Tobago	0.768763	15.07673	1.082577278	13.99415266
Tunisia	0.682432	18.483697	1.094223066	17.38947347
Turkey	0.712693	17.247504	1.0890528	16.15845092
Turkmenistan	0.682161	4.355616	1.08798277	3.267633232
Tuvalu	0.576621	20.621591	1.088374524	19.53321612
Uganda	0.423261	5.7750051	2.89793662	2.87706852
Ukraine	0.760774	2.1270556	1.081191552	1.045864029
United Arab Emirates	0.849318	21.374499	1.085596615	20.28890246
United Kingdom	0.859	34.249192	1.081232087	33.16796031
United Republic of Tanzania	0.446568	6.537738	2.939088981	3.598649051
United States of America	0.862448	34.826624	1.094007229	33.73261691
United States Virgin Islands	0.821831	19.220246	1.096292493	18.12395359
Uruguay	0.719283	17.381056	1.082790788	16.29826548
Uzbekistan	0.662622	4.2905129	1.094475154	3.196037782
Vanuatu	0.473101	17.580738	2.455408852	15.12532891
Venezuela (Bolivarian Republic of)	0.596513	22.058493	1.093040561	20.9654528
Viet Nam	0.627934	20.023908	1.089289691	18.93461843
Yemen	0.450376	11.449259	2.905057173	8.544201657
Zambia	0.505949	7.5953068	2.391366358	5.203940424

Zimbabwe	0.473819	7.0763509	2.396162144	4.680188706
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Table S11. Frontier DALYs and Analysis of Effective Differences in the 15 Lowest-Ranked Countries or Territories Globally

Location	SDI	ASDR 2021	Frontier DALYs	Effective difference
Italy	0.805774	71.69335	1.087066	70.60629
Japan	0.871242	55.14306	1.081438	54.06163
New Zealand	0.849442	49.57307	1.097241	48.47583
Australia	0.844253	40.19664	1.085844	39.11079
Malaysia	0.742524	35.65852	1.08184	34.57668
Austria	0.853837	34.93734	1.099291	33.83805
United States of America	0.862448	34.82662	1.094007	33.73262
United Kingdom	0.859	34.24919	1.081232	33.16796
Iceland	0.876362	33.43223	1.083645	32.34859
Brunei Darussalam	0.810234	33.1195	1.099632	32.01987
Mauritius	0.71826	32.95944	1.085201	31.87424
Monaco	0.908263	32.58272	1.085271	31.49745
Luxembourg	0.884429	32.38694	1.081144	31.3058
Ecuador	0.661017	32.3648	1.096321	31.26848
Greece	0.791854	32.3062	1.09742	31.20878

Table S12. Frontier DALYs and Analysis of Effective Differences in the Top 5 Performing Countries or Territories in Low-SDI Regions

Location	SDI	ASDR 2021	Frontier DALYs	Effective difference
Somalia	0.077688	4.816201	4.107641	0.708559
Burundi	0.289374	3.984956	2.890713	1.094243
Chad	0.240436	4.414683	2.895528	1.519154
Niger	0.168073	4.465182	2.889793	1.575389
Madagascar	0.400247	4.88892	2.911831	1.97709

Table S13. Frontier DALYs and Analysis of Effective Differences in the 5 Lowest-Performing Countries or Territories in High-SDI Regions

Location	SDI	ASDR 2021	Frontier DALYs	Effective difference
Japan	0.871242	55.14306	1.081438	54.06163
Austria	0.853837	34.93734	1.099291	33.83805
United States of America	0.862448	34.82662	1.094007	33.73262
United Kingdom	0.859	34.24919	1.081232	33.16796
Iceland	0.876362	33.43223	1.083645	32.34859

Table S14. Incidence of PCOS in adolescents and young adults aged 10-24 years in 2021 and their AAPCs between 1990-2021 in 204 countries and territories

	Cases (n), 1990	Incidence (per100,000 population), 1990	Cases (n), 2021	Incidence (per100,000 population), 2021	AAPC (95%CI)	<i>P</i> value
Afghanistan	2,450 (1,683-3,481)	141.61	10,325 (7,018-14,910)	199.77	1.102(0.818-	<0.001

		(97.26-201.21)		(135.78-288.48)	1.387)	
Albania	101	20.97	65	25.84	0.697(0.628-	<0.001
	(64-157)	(13.32-32.45)	(42-97)	(16.83-38.89)	0.766)	
Algeria	9,615 (6,573-13,718)	229.7	16,675	(11,097-	335.32	1.255(1.196-
		(157.02-327.71)	24,172)	(223.15-	1.313)	<0.001
				486.09)		
American Samoa	22	294.96	31	460.54	1.44(1.348-	<0.001
	(15-30)	(205.85-415.56)	(21-46)	(316.64-	1.532)	
				676.35)		
Andorra	24	407.25	33	526.27	0.882(0.604-	<0.001
	(16-34)	(277.83-588.3)	(23-47)	(362.04-	1.161)	
				744.68)		
Angola	966	60.64	6,130 (4,074-9,009)	113.65	2.072(1.969-	<0.001
	(650-1,418)	(40.79-89.05)		(75.54-167.05)	2.175)	
Antigua and Barbuda	15	170.01	21	217.92	0.786(0.709-	<0.001
	(10-21)	(113.23-241.15)	(14-30)	(148.29-	0.864)	
				309.53)		
Argentina	7,990 (5,471-11,533)	183.19	14,205 (9,979-20,450)	268.55	1.257(1.223-	<0.001
		(125.44-264.42)		(188.66-	1.291)	
				386.63)		
Armenia	197	46.04	183	72.06	1.463(1.379-	<0.001
	(132-289)	(30.9-67.46)	(121-272)	(47.76-106.89)	1.546)	
Australia	12,069 (8,930-15,625)	619.55	16,983	(12,067-	738.34	0.575
		(458.4-802.07)	23,749)	(524.64-	(0.482-0.667)	<0.001
				1,032.52)		

Austria	3,802 (2,721-5,214)	479.25 (342.92-657.21)	3,718 (2,588-5,196)	548.41 (381.78-766.43)	0.442 (0.284-0.599)	<0.001
Azerbaijan	479 (322-702)	45.84 (30.82-67.21)	755 (499-1,076)	72.57 (47.98-103.48)	1.516 (1.447-1.585)	<0.001
Bahamas	88 (58-128)	216.96 (143.6-316.49)	133 (90-195)	266.83 (179.42-391.01)	0.675 (0.613-0.738)	<0.001
Bahrain	187 (127-268)	301.13 (204.74-430.65)	490 (340-694)	342.1 (237.26-483.86)	0.427 (0.124-0.731)	0.006
Bangladesh	9,745 (6,443-14,182)	55.06 (36.4-80.12)	21,097 (14,596-29,694)	89.47 (61.9-125.93)	1.588 (1.455-1.721)	<0.001
Barbados	70 (47-101)	210.31 (140.85-302.11)	69 (47-98)	245.64 (167.22-348.74)	0.505 (0.383-0.628)	<0.001
Belarus	309 (205-461)	28.09 (18.63-41.91)	264 (174-396)	38.3 (25.27-57.37)	1.035 (0.985-1.085)	<0.001
Belgium	4,117 (2,795-5,885)	418.12 (283.8-597.61)	5,010 (3,518-7,060)	520.73 (365.66-733.83)	0.713 (0.654-0.771)	<0.001
Belize	58 (38-83)	185.48 (122.12-267.56)	166 (114-239)	250.65 (171.43-360.19)	0.992 (0.922-1.062)	<0.001
Benin	503 (343-729)	68.05 (46.42-98.49)	2,872 (1,911-4,179)	128.85 (85.74-187.48)	2.088 (1.98-2.196)	<0.001

Bermuda	15 (10-21)	239.77 (157.77-344.97)	13 (9-20)	290.77 (197.63-430.51)	0.642 (0.552-0.733)	<0.001
Bhutan	84 (57-119)	80.63 (54.44-114.32)	136 (93-197)	136.21 (92.88-197.25)	1.724 (1.616-1.833)	<0.001
Bolivia (Plurinational State of)	3,794 (2,530-5,563)	376.63 (251.11-552.21)	7,400 (4,958-10,444)	462.78 (310.04-653.18)	0.678 (0.635-0.722)	<0.001
Bosnia and Herzegovina	96 (59-154)	17.35 (10.64-27.72)	70 (46-104)	26.4 (17.28-39.61)	1.377 (1.215-1.539)	<0.001
Botswana	253 (172-370)	107.94 (73.08-157.69)	524 (349-746)	161.1 (107.23-229.27)	1.309 (1.099-1.519)	<0.001
Brazil	20,595 (13,684-30,331)	87.98 (58.46-129.58)	20,903 (14,226-29,639)	87.24 (59.37-123.7)	-0.01 (-0.182-0.162)	0.911
Brunei Darussalam	142 (98-206)	386.85 (266.94-560.18)	296 (202-419)	599.65 (410.62-849.86)	1.429 (1.357-1.502)	<0.001
Bulgaria	224 (142-341)	24.85 (15.79-37.85)	152 (99-228)	32.27 (21-48.37)	0.859 (0.696-1.021)	<0.001
Burkina Faso	992 (672-1,461)	66.32 (44.91-97.67)	4,004 (2691-5682)	105.85 (71.14-150.2)	1.538 (1.452-1.624)	<0.001
Burundi	559 (376-817)	65.24 (43.84-95.33)	1,579 (1,063-2,281)	71.32 (48.03-103.03)	0.323 (0.187-0.459)	<0.001
Cabo Verde	43 (29-62)	74.26 (50.01-107.78)	89 (61-129)	120.75 (82.91-173.86)	1.584 (1.456-1.713)	<0.001

Cambodia	2,963 (2,009-4,252)	179.74 (121.92-257.94)	6,868 (4,793-9,853)	303.45 (211.77-435.32)	1.735 (1.692-1.778)	<0.001
Cameroon	1,706 (1,124-2,468)	103.46 (68.2-149.7)	7,305 (4,777-10,652)	140.71 (92.01-205.17)	1.007 (0.919-1.094)	<0.001
Canada	6,142 (4,249-8,922)	214.75 (148.56-311.95)	8,717 (6,043-12,596)	278.27 (192.92-402.08)	0.834 (0.8-0.867)	<0.001
Central African Republic	331 (227-489)	77.79 (53.47-114.9)	787 (531-1,128)	85.51 (57.66-122.6)	0.328 (0.281-0.376)	<0.001
Chad	479 (314-697)	50.98 (33.43-74.19)	2,365 (1,599-3,424)	79.95 (54.04-115.74)	1.477 (1.336-1.618)	<0.001
Chile	3,485 (2,426-5,031)	185.98 (129.46-268.47)	5,950 (4169-8614)	311.41 (218.17-450.81)	1.63 (1.476-1.783)	<0.001
China	194,627 (133,727-274,770)	110.83 (76.15-156.46)	244,889 (169,307-349,547)	224.47 (155.19-320.4)	2.364 (2.186-2.542)	<0.001
Colombia	13,197 (8,847-19,442)	253.81 (170.15-373.92)	18,030 (12,351-26,512)	308.96 (211.65-454.31)	0.637 (0.592-0.681)	<0.001
Comoros	77 (52-113)	99.49 (67.18-146.71)	124 (83-177)	113.28 (76.29-162.02)	0.444 (0.331-0.557)	<0.001
Congo	355 (238-515)	86.18 (57.8-125.03)	1,015 (689-1,470)	120.68 (81.95-174.75)	1.107 (1.03-1.183)	<0.001
Cook Islands	9 (6-13)	320.56 (215.42-467.04)	10 (7-14)	458.75 (316.79-667.27)	1.165 (1.017-1.314)	<0.001
Costa Rica	1,436 (964-2,138)	313.57	2,124	388.51	0.694	<0.001

		(210.5-466.87)	(1,430-3,050)	(261.7-558)	(0.659-0.729)	
Coted'Ivoire	1,319 (880-1,949)	68.73	4,835 (3,224-7,194)	29.37	1.715	<0.001
		(45.84-101.56)		(19.02-43.5)	(1.628-1.802)	
Croatia	112	22.23	95	237.28	0.898	<0.001
	(73-174)	(14.49-34.36)	(61-140)	(159.12-334.07)	(0.81-0.985)	
Cuba	2,611 (1,756-3,704)	171.73	2,238	472.12	1.045	<0.001
		(115.49-243.63)	(1,501-3,152)	(324.17-678.57)	(0.927-1.162)	
Cyprus	311	340.48	493	31.02	1.041	<0.001
	(214-438)	(234.65-479.05)	(338-708)	(19.9-47.05)	(0.902-1.18)	
Czechia	283	24.33	236	116.17	0.763	<0.001
	(176-429)	(15.15-36.92)	(151-358)	(77.46-172.85)	(0.625-0.901)	
Democratic People's Republic of Korea	3,662 (2,567-5,277)	123.28	3,715 (2,532-5,251)	139.18	0.397	<0.001
		(86.42-177.65)		(94.87-196.72)	(0.369-0.426)	
Democratic Republic of the Congo	3,879 (2,616-5,707)	65	14,254 (9,713-20,691)	97.17	1.372	<0.001
		(43.83-95.64)		(66.21-141.05)	(1.229-1.516)	
Denmark	2,008 (1,382-2,869)	376.64	2,491 (1,719-3,565)	486.67	0.827	<0.001
		(259.25-538.02)		(335.71-696.39)	(0.753-0.901)	
Djibouti	53 (36-78)	76	203 (135-299)	127.94 (85.31-188.74)	1.723(1.598-1.849)	<0.001
Dominica	19 (13-29)	176.87	19 (13-27)	239.07 (158.75-339.58)	0.986(0.91-1.062)	<0.001
		(118.63-259.8)				

Dominican Republic	1,881 (1,274-2,718)	153.11 (103.69-221.27)	3,301 (2,193-4,702)	233.03 (154.79-331.94)	1.374(1.315-1.434)	<0.001
Ecuador	7,594 (5,227-10,738)	461.95 (317.97-653.18)	13,887 (9,683-19,218)	578.95 (403.72-801.24)	0.716(0.633-0.8)	<0.001
Egypt	23,053 (15,601-33,313)	277.93 (188.09-401.63)	49,864 (34,360-71,102)	347.98 (239.78-496.19)	0.718(0.613-0.823)	<0.001
El Salvador	2,418 (1,611-3,609)	267.52 (178.27-399.35)	3020 (2,014-4,401)	346.64 (231.18-505.22)	0.83(0.748-0.913)	<0.001
Equatorial Guinea	46 (31-69)	69.19 (46.61-102.15)	375 (251-537)	163.78 (109.92-234.64)	2.835(2.651-3.019)	<0.001
Eritrea	315 (211-452)	57.43 (38.44-82.57)	856 (581-1250)	85.27 (57.92-124.48)	1.32(1.216-1.424)	<0.001
Estonia	48 (32-71)	30.29 (20.23-44.97)	43 (29-66)	44.09 (29.01-67.02)	1.249(1.192-1.305)	<0.001
Eswatini	205 (139-296)	142.34 (96.31-205.77)	306 (209-436)	169.15 (115.48-240.91)	0.589(0.469-0.71)	<0.001
Ethiopia	4,505 (2,980-6,607)	56.2 (37.17-82.41)	16,137 (11,066-23,324)	86.92 (59.6-125.64)	1.428(1.397-1.459)	<0.001
Fiji	285 (194-412)	244.02 (166.27-352.53)	441 (305-638)	376.24 (260.06-544.26)	1.403(1.345-1.46)	<0.001
Finland	1,856 (1,251-2,683)	389.58 (262.63-563.33)	2,262 (1,548-3,236)	506.13 (346.38-724)	0.851(0.754-0.949)	<0.001
France	22,333 (15,412-31,833)	360.14 (248.53-513.32)	28,471 (19,558-40,536)	476.27 (327.18-678.09)	0.885(0.811-0.959)	<0.001
Gabon	151 (102-219)	95.77 (64.72-139.15)	429 (285-632)	143.82 (95.62-211.87)	1.308(1.221-1.395)	<0.001

Gambia	112 (75-160)	69.67 (46.78-100.05)	439 (301-637)	105.72 (72.51-153.39)	1.371(1.249-1.494)	<0.001
Georgia	373 (243-543)	58.84 (38.37-85.75)	316 (214-444)	107.89 (72.96-151.73)	2.026(1.889-2.163)	<0.001
Germany	23,614 (16,461-32,932)	325.67 (227.03-454.19)	26,655 (18,585-37,589)	445.99 (310.96-628.94)	0.997(0.84-1.154)	<0.001
Ghana	1,712 (1,160-2,467)	72.54 (49.14-104.52)	5,636 (3,909-8,224)	107.34 (74.46-156.64)	1.268(1.212-1.325)	<0.001
Greece	4,869 (3,308-6,903)	424.07 (288.15-601.26)	4,140 (2,785-5,925)	546.43 (367.53-781.99)	0.816(0.765-0.866)	<0.001
Greenland	10 (7-14)	156.6 (110.1-220.13)	14 (10-20)	248.27 (175.27-356.95)	1.501(1.289-1.714)	<0.001
Grenada	20 (14-29)	156.9 (105.09-226.57)	24 (16-34)	200.05 (134.32-282.51)	0.8(0.689-0.91)	<0.001
Guam	57 (39-83)	321.51 (218.47-462.53)	81 (56-115)	470.9 (324.08-665.95)	1.233(1.173-1.293)	<0.001
Guatemala	3,325 (2,203-4,842)	242.3 (160.56-352.82)	7,481 (5,004-10,918)	300.23 (200.83-438.13)	0.68(0.624-0.737)	<0.001
Guinea	541 (358-778)	63.13 (41.81-90.88)	2,183 (1,492-3,183)	98.3 (67.17-143.32)	1.441(1.333-1.55)	<0.001
Guinea-Bissau	107 (72-159)	64.43 (43.29-96.21)	330 (225-480)	97.59 (66.65-142.1)	1.356(1.245-1.467)	<0.001
Guyana	204 (136-298)	155.13 (103.5-226.86)	219 (146-310)	211.14 (141.27-299.6)	1.006(0.888-1.124)	<0.001
Haiti	1,220 (796-1,802)	121.35 (79.23-179.31)	2,752 (1,858-3,988)	146.99 (99.23-213.01)	0.639(0.525-0.753)	<0.001

Honduras	1,755 (1,166-2,586)	226.89 (150.79-334.42)	4,899 (3,319-7,056)	306.85 (207.89- 442.02)	0.975(0.943- 1.007)	<0.001
Hungary	295 (186-443)	26.19 (16.56-39.44)	216 (142-330)	30.61 (20.13- 46.71)	0.483(0.282- 0.684)	<0.001
Iceland	136 (95-194)	439.58 (306.31-626.16)	186 (127-261)	558.23 (381.89- 783.31)	0.764(0.657- 0.871)	<0.001
India	123,779 (86,749-176,204)	100.07 (70.13-142.45)	329,841 (230,378- 462,508)	172.71 (120.63- 242.18)	1.806(1.72- 1.892)	<0.001
Indonesia	66,946 (46,858-94,063)	224.29 (156.99-315.14)	140,300 (98,986- 197,447)	418.3 (295.12- 588.68)	2.046(1.999- 2.093)	<0.001
Iran (Islamic Republic of)	23,321 (15,995-33,373)	257.24 (176.43-368.11)	28,786 (19,863- 41,239)	333.01 (229.78- 477.07)	0.888(0.73- 1.047)	<0.001
Iraq	8,117 (5,522-11,812)	275.52 (187.44-400.96)	18,546 (12,614- 26,545)	306.29 (208.32- 438.39)	0.368(0.257- 0.479)	<0.001
Ireland	2,126 (1,425-3,016)	447.26 (299.93-634.67)	2,613 (1,828-3,764)	541.88 (378.97- 780.39)	0.617(0.536- 0.698)	<0.001
Israel	2,600 (1,792-3,746)	391.24 (269.69-563.57)	5,468 (3,755-7,725)	496.95 (341.28- 702.04)	0.769(0.751- 0.788)	<0.001
Italy	76,492 (54,195-107,226)	1246.82 (883.38-1747.8)	51,372 (35,957- 72,126)	1225.13 (857.51- 1720.08)	-0.049(-0.143- 0.044)	0.301
Jamaica	652 (437-917)	169.3 (113.35-238.01)	733 (490-1,042)	210.14 (140.58- 298.91)	0.703(0.64- 0.765)	<0.001
Japan	135,250 (94,903-192,844)	985.75 (691.69-1405.51)	86,680 (61,099- 122,862)	1012.94 (714- 1435.76)	0.111(0.038- 0.184)	0.003
Jordan	1,618 (1,113-2,305)	253.18	5,672 (3,898-8,086)	315.34 (216.71- 413.97)	0.754(0.618- 0.890)	<0.001

		(174.24-360.75)		449.54	0.89)	
Kazakhstan	1,175 (779-1,741)	54.7 (36.26-81.05)	1,611 (1,062-2,336)	79.83 (52.64-115.75)	1.231(1.149-1.313)	<0.001
Kenya	3,623 (2,467-5,295)	89.92 (61.22-131.39)	9,372 (6,437-13,510)	108.57 (74.58-156.51)	0.639(0.561-0.717)	<0.001
Kiribati	22 (15-31)	198.67 (135.18-279.51)	55 (38-78)	311.76 (215.84-442.79)	1.46(1.33-1.591)	<0.001
Kuwait	721 (496-1,038)	319.96 (219.75-460.51)	1545 (1,068-2,229)	380.99 (263.31-549.4)	0.584(0.34-0.828)	<0.001
Kyrgyzstan	323 (213-472)	50.46 (33.29-73.61)	523 (340-770)	60.01 (39-88.31)	0.581(0.496-0.666)	<0.001
Lao People's Democratic Republic	1,366 (947-1,945)	206.5 (143.17-294.03)	3,765 (2,640-5,324)	364.35 (255.51-515.23)	1.874(1.815-1.933)	<0.001
Latvia	78 (51-119)	29.54 (19.5-45.24)	54 (36-80)	40.68 (27.12-60.45)	1.05(0.995-1.105)	<0.001
Lebanon	1,110 (765-1,592)	261.49 (180.27-375.08)	1949 (1341-2792)	349.09 (240.16-500.04)	0.996(0.805-1.188)	<0.001
Lesotho	247 (170-362)	97.4 (66.9-143)	424 (286-616)	138.69 (93.7-201.36)	1.176(1.104-1.248)	<0.001
Liberia	269 (181-398)	72.48 (48.86-107.38)	970 (661-1,415)	108.18 (73.77-157.83)	1.283(1.017-1.55)	<0.001
Libya	2,341 (1,583-3,369)	321.36 (217.29-462.56)	2,723 (1,864-3,901)	318.52 (218.06-456.37)	-0.006(-0.049-0.036)	0.767
Lithuania	107 (70-161)	26.77 (17.47-40.05)	73 (49-109)	36.4 (24.4-54.44)	1.03(0.906-1.154)	<0.001

Luxembourg	133 (90-191)	375.3 (254.25-537.51)	267 (184-380)	517.6 (355.55- 736.29)	1.051(0.97- 1.132)	<0.001
Madagascar	1,404 (953-2,077)	72.69 (49.34-107.52)	4,074 (2,726-5,897)	83.55 (55.9- 120.94)	0.491(0.402- 0.581)	<0.001
Malawi	1,549 (1,042-2,268)	96.18 (64.72-140.81)	4,120 (2,812-5,958)	113.48 (77.46- 164.13)	0.55(0.496- 0.605)	<0.001
Malaysia	9,841 (6,872-14,039)	369.32 (257.9-526.85)	23,577 (16,458- 32,960)	600.24 (419.02- 839.13)	1.593(1.48- 1.706)	<0.001
Maldives	77 (53-109)	215.82 (148.62-304.31)	223 (155-320)	498.19 (344.99- 713.13)	2.768(2.685- 2.851)	<0.001
Mali	699 (468-1,030)	53.86 (36.04-79.36)	3,568 (2,374-5,140)	88.99 (59.22- 128.21)	1.648(1.526- 1.77)	<0.001
Malta	166 (116-236)	417.6 (291.43-594.34)	159 (108-226)	513.96 (348.83- 733.49)	0.648(0.55- 0.746)	<0.001
Marshall Islands	14 (9-21)	188.78 (125.86-276.05)	25 (17-35)	303.47 (209.33- 424.98)	1.526(1.484- 1.567)	<0.001
Mauritania	292 (200-435)	90.71 (62.13-135)	945 (641-1,369)	129.02 (87.45- 186.85)	1.159(1.06- 1.258)	<0.001
Mauritius	560 (394-797)	349.95 (246.15-498.65)	691 (486-969)	539.3 (379.86- 757.05)	1.396(1.247- 1.546)	<0.001
Mexico	83,994 (57,279-119,124)	570.39 (388.97-808.95)	88,467 (61,806- 123,445)	536.14 (374.57- 748.12)	-0.2(-0.397-- 0.003)	0.047
Micronesia (Federated States of)	42 (29-60)	245.93 (168.94-352.21)	51 (35-71)	332.16 (231.28- 469.94)	0.913(0.838- 0.988)	<0.001
Monaco	8 (6-12)	387.24	14 (9-20)	535.58 (364.66-	1.052(0.902-	<0.001

		(267.95-554.4)		762.95)	1.201)	
Mongolia	170	48.2	258 (171-376)	69.05 (45.73-	1.172(1.135-	<0.001
	(110-245)	(31.23-69.77)		100.55)	1.208)	
Montenegro	19 (12-29)	24.43	17 (11-26)	30.5 (19.93-	0.751(0.694-	<0.001
		(15.74-37.41)		45.73)	0.809)	
Morocco	9,458 (6,358-13,455)	232.75	13,648 (9,454-19,763)	297.66 (206.2-	0.828(0.787-	<0.001
		(156.46-331.1)		431.04)	0.87)	
Mozambique	1,566 (1,042-2,294)	71.82	5,936 (3,966-8,607)	107.8 (72.02-	1.312(1.224-	<0.001
		(47.8-105.25)		156.29)	1.399)	
Myanmar	12,132 (8,427-17,421)	183.72	28,792 (20,372-	377.38 (267.02-	2.383(2.274-	<0.001
		(127.62-263.82)	40,779)	534.49)	2.491)	
Namibia	245	101.72	503 (345-727)	133.7 (91.7-	0.927(0.852-	<0.001
	(169-350)	(70.17-145.11)		193.33)	1.002)	
Nauru	4 (3-6)	270.51	6 (5-9)	390.96 (271.16-	1.163(1.085-	<0.001
		(184.92-387.66)		561.65)	1.241)	
Nepal	1,709 (1,164-2,472)	56.86	4,594 (3,127-6,501)	95.64 (65.1-	1.702(1.618-	<0.001
		(38.73-82.23)		135.34)	1.785)	
Netherlands	5,411 (3,715-7,698)	337.67	6,673 (4,631-9,601)	453.55 (314.76-	0.952(0.921-	<0.001
		(231.84-480.33)		652.55)	0.984)	
New Zealand	3,758 (2,633-5,303)	906.8	4,342 (3,073-6,010)	889.53 (629.43-	-0.053(-0.185-	0.437
		(635.39-1279.53)		1231.24)	0.08)	
Nicaragua	1,716 (1,137-2,545)	256.57	3,098 (2,059-4,507)	336.29 (223.51-	0.876(0.802-	<0.001
		(169.92-380.39)		489.26)	0.95)	
Niger	730	57.3	3,420 (2,354-4,978)	80.05 (55.09-	1.09(0.979-	<0.001
	(487-1,042)	(38.27-81.8)		116.54)	1.201)	
Nigeria	11,917 (8,102-17,313)	79.49	44,352 (30,194-	108.57 (73.91-	1.026(0.904-	<0.001

		(54.05-115.49)	64,127)	156.97)	1.148)	
Niue	1 (1-1)	303.9 (200.29-437.38)	1 (1-1)	442.25 (307.59- 636.54)	1.193(1.051- 1.335)	<0.001
North Macedonia	51 (32-80)	20.29 (13.01-32.05)	48 (31-72)	26.72 (17.38- 40.39)	0.907(0.846- 0.968)	<0.001
Northern Mariana Islands	19 (13-27)	283.66 (192.05-400.48)	24 (16-34)	429.45 (295- 610.54)	1.497(0.744- 2.256)	<0.001
Norway	1,741 (1,221-2,454)	389.02 (272.95-548.45)	2,247 (1,582-3,194)	469.34 (330.3- 667.12)	0.649(0.484- 0.815)	<0.001
Oman	579 (378-844)	237.42 (155.01-346.26)	1,611 (1,091-2,323)	371.68 (251.62- 535.89)	1.473(1.396- 1.55)	<0.001
Pakistan	16,824 (11,643-24,311)	99.4 (68.79-143.63)	39,368 (26,913- 57,047)	112.57 (76.95- 163.12)	0.408(0.345- 0.471)	<0.001
Palau	7 (5-10)	299.65 (204.48-433.78)	7 (5-11)	454.42 (308.89- 655.92)	1.311(1.164- 1.458)	<0.001
Palestine	783 (528-1,133)	236.35 (159.18-341.84)	2,365 (1,611-3,333)	293.5 (199.92- 413.56)	0.698(0.643- 0.754)	<0.001
Panama	814 (549-1,177)	217.72 (146.74-314.83)	1,842 (1,248-2,704)	342.56 (232.01- 502.87)	1.467(1.42- 1.515)	<0.001
Papua Guinea	New 1,076 (731-1,524)	171.1 (116.14-242.22)	3,620 (2,485-5,098)	249.99 (171.59- 352.01)	1.213(1.155- 1.27)	<0.001
Paraguay	350 (226-534)	56.98 (36.71-86.75)	838 (558-1,234)	86.02 (57.25- 126.64)	1.343(1.307- 1.378)	<0.001
Peru	13,636 (9,320-19,558)	385.43 (263.43-552.83)	20,883 (14,048- 30,317)	478.85 (322.12- 695.18)	0.721(0.656- 0.786)	<0.001
Philippines	25,601 (17,797-36,125)	251.38	66,527 (46,839- 112,217)	419.96 (295.67- 544.25)	1.69(1.594- 1.985)	<0.001

		(174.75-354.73)	93,074)	587.53)	1.786)	
Poland	1,591 (1,023-2,419)	37.95 (24.39-57.69)	1,095 (770-1,494)	38.58 (27.13-52.64)	0.01(-0.083-0.103)	0.833
Portugal	4,470 (3,098-6,390)	363.65 (252.05-519.8)	3,773 (2,567-5,353)	469.5 (319.43-666.09)	0.838(0.76-0.916)	<0.001
Puerto Rico	1,305 (867-1,865)	267.2 (177.59-381.91)	954 (641-1381)	316.06 (212.33-457.75)	0.53(0.452-0.609)	<0.001
Qatar	140 (95-202)	356.68 (242.34-514)	702 (469-1,031)	414.07 (276.93-608.23)	0.469(0.314-0.624)	<0.001
Republic of Korea	20,969 (14,361-29,575)	329.4 (225.6-464.59)	17,134 (11,909-24,519)	459.87 (319.62-658.08)	1.121(0.867-1.376)	<0.001
Republic of Moldova	123 (78-190)	24.12 (15.22-37.16)	92 (61-135)	34.53 (23.02-51.04)	1.167(1.111-1.222)	<0.001
Romania	606 (384-932)	20.91 (13.25-32.15)	457 (298-700)	30.3 (19.8-46.44)	1.253(1.066-1.441)	<0.001
Russian Federation	4,491 (2,932-6,696)	29.09 (18.99-43.37)	4,455 (2,970-6,614)	38.75 (25.84-57.53)	0.932(0.876-0.987)	<0.001
Rwanda	1,029 (700-1,524)	88.98 (60.56-131.79)	2,386 (1,616-3,532)	109.59 (74.2-162.2)	0.694(0.63-0.757)	<0.001
Saint Kitts and Nevis	13 (9-18)	203.95 (137.6-291.4)	15 (10-22)	247.58 (169.68-360.8)	0.626(0.601-0.652)	<0.001
Saint Lucia	39 (26-55)	168.85 (112.22-241.95)	36 (25-52)	206.08 (139.93-294.53)	0.649(0.572-0.726)	<0.001
Saint Vincent and the Grenadines	29 (19-42)	156.98 (103.33-225.69)	29 (19-41)	225.02 (150.13-320.11)	1.183(1.108-1.258)	<0.001
Samoa	79 (54-116)	289.7	117 (80-170)	387.23 (265.05-	0.944(0.865-	<0.001

		(197.09-425.75)		561.25)	1.023)	
San Marino	11 (8-16)	407.66 (280.39-580.72)	14 (9-19)	515.51 (353.78-719.6)	0.753(0.712-0.793)	<0.001
Sao Tome and Principe	16 (11-24)	79.64 (53.22-117.62)	41 (28-60)	116.98 (80.05-169.79)	1.255(1.171-1.34)	<0.001
Saudi Arabia	6,703 (4,525-9,629)	288.35 (194.66-414.22)	13,110 (8,947-18,716)	357.57 (244.02-510.48)	0.716(0.644-0.788)	<0.001
Senegal	1,051 (717-1,552)	83.54 (57.03-123.4)	2,639 (1,780-3,828)	104.68 (70.6-151.82)	0.74(0.66-0.82)	<0.001
Serbia	227 (144-350)	21.24 (13.47-32.71)	215 (142-313)	28.18 (18.54-41.01)	0.922(0.809-1.034)	<0.001
Seychelles	42 (30-60)	379.06 (265.91-541.5)	58 (40-81)	542.47 (378.22-763.51)	1.178(1.097-1.26)	<0.001
Sierra Leone	378 (252-532)	60.21 (40.09-84.66)	1563 (1,057-2,279)	105.27 (71.23-153.52)	1.836(1.772-1.901)	<0.001
Singapore	1,337 (912-1,911)	338.46 (230.76-483.92)	2,000 (1,378-2,920)	561.31 (386.87-819.66)	1.633(1.406-1.861)	<0.001
Slovakia	141 (90-216)	22.56 (14.36-34.53)	122 (80-183)	29.95 (19.75-45.02)	0.921(0.839-1.003)	<0.001
Slovenia	50 (32-76)	22.77 (14.65-34.88)	47 (30-71)	32.92 (21.18-49.35)	1.19(1.071-1.31)	<0.001
Solomon Islands	103 (70-148)	182.73 (124.55-263.94)	289 (197-410)	283.77 (193.21-402.1)	1.4(1.346-1.455)	<0.001
Somalia	875 (583-1,297)	74.62 (49.7-110.64)	2,954 (2,004-4,338)	84.88 (57.59-124.64)	0.408(0.365-0.451)	<0.001
South Africa	8,140 (5,606-11,732)	134.7	12,432 (8,534-17,861)	176.07 (120.86-	0.901(0.819-	<0.001

		(92.77-194.14)		252.96)	0.983)	
South Sudan	751 (509-1,092)	79.41 (53.77-115.45)	1,509 (1,012-2,220)	90.71 (60.84-133.48)	0.459(0.347-0.572)	<0.001
Spain	19,092 (13,142-26,830)	401.38 (276.3-564.08)	17,716 (12,173-25,334)	519.73 (357.14-743.23)	0.866(0.806-0.926)	<0.001
Sri Lanka	7,394 (5,158-10,552)	287.39 (200.47-410.14)	12,760 (8,958-17,768)	488.96 (343.25-680.86)	1.774(1.635-1.914)	<0.001
Sudan	4,977 (3,355-7,123)	154.56 (104.19-221.2)	19,096 (13,107-27,030)	274.77 (188.59-388.93)	1.885(1.789-1.982)	<0.001
Suriname	101 (68-145)	170.81 (115.26-244.92)	162 (109-231)	234.14 (157.67-333.26)	1.036(0.979-1.093)	<0.001
Sweden	2,417 (1,696-3,434)	299.18 (209.87-425.04)	3,389 (2,357-4,829)	396.68 (275.9-565.13)	0.907(0.788-1.027)	<0.001
Switzerland	2,396 (1,652-3,398)	371.39 (256.1-526.74)	2,967 (2,068-4,259)	452.3 (315.19-649.23)	0.642(0.578-0.706)	<0.001
Syrian Arab Republic	5,151 (3,437-7,354)	242.47 (161.81-346.19)	7,230 (5,021-10,435)	300.21 (208.47-433.28)	0.738(0.519-0.959)	<0.001
Taiwan (Province of China)	6,296 (4,192-9,037)	226.13 (150.55-324.61)	5,476 (3,911-7,419)	325.06 (232.15-440.41)	1.162(1.068-1.255)	<0.001
Tajikistan	332 (222-493)	40.02 (26.8-59.47)	692 (455-1,029)	51.22 (33.71-76.14)	0.807(0.717-0.896)	<0.001
Thailand	23,491 (16,327-33,332)	266.2 (185.02-377.71)	28,987 (20,460-40,777)	497.95 (351.47-700.48)	2.044(1.929-2.158)	<0.001
Timor-Leste	199 (137-283)	182.23 (125.7-259.62)	735 (520-1,064)	316.88 (224.08-458.4)	1.829(1.738-1.92)	<0.001
Togo	398 (266-583)	66.18	1,293 (879-1,908)	101.31 (68.89-	1.424(1.301-	<0.001

			(44.2-97.04)		149.53)	1.546)	
Tokelau	1 (0-1)		248.94	1 (1-1)	415.53 (285.28-	1.664(1.154-	<0.001
			(169.58-359.67)		598.01)	2.175)	
Tonga	53 (36-76)		328.49	66 (45-96)	437.29 (296.25-	0.917(0.887-	<0.001
			(221.84-471.29)		634.53)	0.947)	
Trinidad and Tobago	302 (199-437)		177.99	343	254.69 (168.84-	1.175(1.077-	<0.001
			(117.03-257.55)	(227-495)	367.84)	1.273)	
Tunisia	2,905 (1,960-4,311)		220.83	3,754 (2,581-5,373)	306.94 (211.01-	1.108(1.04-	<0.001
			(148.99-327.67)		439.35)	1.177)	
Turkey	19,083 (13,066-27,369)		212.32	26,153 (17,929-	278.75 (191.1-	0.883(0.709-	<0.001
			(145.37-304.51)	37,195)	396.45)	1.059)	
Turkmenistan	289 (190-426)		51.03	468	73.42 (49.88-	1.197(1.146-	<0.001
			(33.56-75.12)	(318-682)	107.03)	1.248)	
Tuvalu	3 (2-4)		218.17	6 (4-8)	356.65 (246.11-	1.582(1.532-	<0.001
			(149.35-312.4)		507.76)	1.633)	
Uganda	2,366 (1,592-3,406)		81.49	7,828 (5,390-11,344)	103.64 (71.36-	0.805(0.735-	<0.001
			(54.82-117.33)		150.19)	0.876)	
Ukraine	1,460 (955-2,229)		27.28	1,056	33.04 (21.22-	0.675(0.626-	<0.001
			(17.84-41.64)	(678-1,592)	49.81)	0.725)	
United Arab Emirates	504		274.82	1,988 (1,344-2,876)	369.56 (249.83-	0.931(0.7-	<0.001
	(343-729)		(187.3-397.51)		534.54)	1.163)	
United Kingdom	24,318 (17,020-34,003)		417.68	33,698 (23,658-	566.29 (397.57-	0.996(0.947-	<0.001
			(292.32-584.02)	47,283)	794.6)	1.046)	
United Republic of Tanzania	4,207 (2,793-6,154)		95.17	11,474 (7,737-16,453)	115.88 (78.14-	0.645(0.605-	<0.001
			(63.18-139.22)		166.16)	0.686)	
United States of	126,225 (88,392-176,969)		467.03	192,835 (141,430-	607.94 (445.88-	0.805(0.608-	<0.001

America			(327.05-654.78)	256,567)	808.87)	1.002)	
United States	38 (25-56)		269.62	23 (15-33)	332.31 (221.86-	0.685(0.634-	<0.001
Virgin Islands			(180.74-396.27)		481.62)	0.735)	
Uruguay	701 (487-1,004)		184.74	1,034	291.9 (203.51-	1.502(1.437-	<0.001
			(128.3-264.7)	(721-1,496)	422.66)	1.566)	
Uzbekistan	1,674 (1,113-2,458)		52.53	2,785 (1,865-3,937)	71.28 (47.73-	1.005(0.947-	<0.001
			(34.93-77.13)		100.79)	1.063)	
Vanuatu	48 (33-70)		208.27	140	305.36 (207.44-	1.208(1.163-	<0.001
			(143.27-301.31)	(95-204)	444.64)	1.253)	
Venezuela	9,283 (6,207-13,742)		311.06	12,062 (8,271-17,473)	401.76 (275.47-	0.836(0.682-	<0.001
(Bolivarian Republic of)			(207.98-460.47)		581.98)	0.99)	
Viet Nam	18,904 (12,987-26,610)		174.58	36,698 (25,380-	357.39 (247.17-	2.367(2.288-	<0.001
			(119.95-245.76)	51,715)	503.64)	2.446)	
Yemen	3,433 (2,334-5,025)		169.23	11,058 (7,404-16,094)	204.58 (136.98-	0.627(0.586-	<0.001
			(115.02-247.71)		297.77)	0.669)	
Zambia	1,587 (1,078-2,313)		110.93	4,532 (3,017-6,520)	134.57 (89.59-	0.642(0.561-	<0.001
			(75.33-161.63)		193.62)	0.724)	
Zimbabwe	2,191 (1,453-3,185)		119.6	3,277 (2,244-4704)	126.14 (86.38-	0.212(0.091-	0.001
			(79.31-173.85)		181.09)	0.333)	

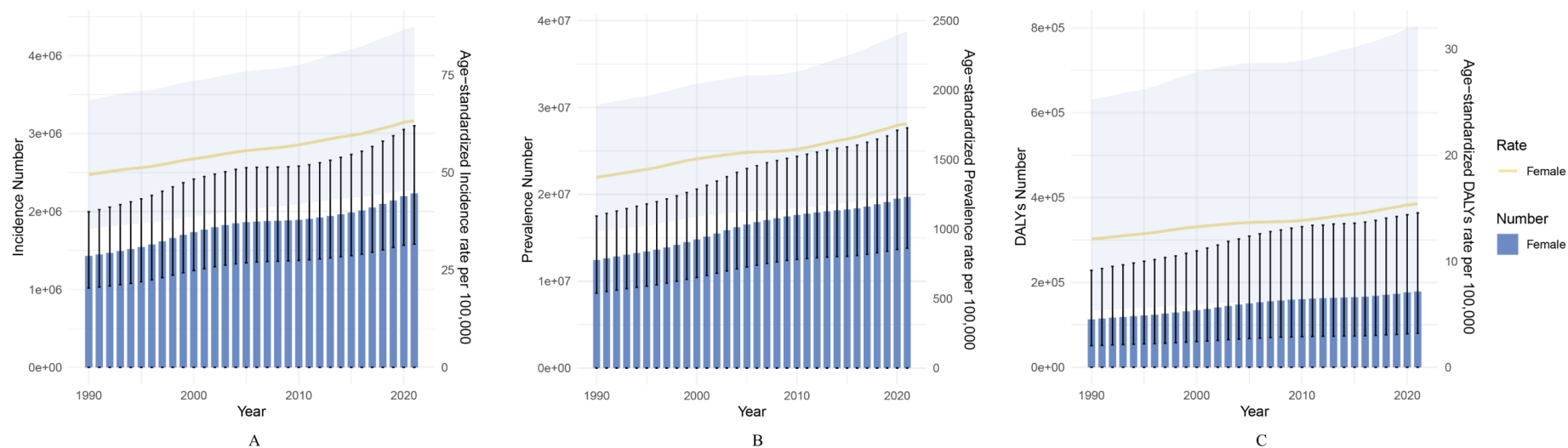


Figure S1. Global trends in the burden of PCOS among females aged 10–24 from 1990 to 2021 (with ten-year intervals).A. Changes in the number of PCOS cases and the age-standardized incidence rate.B. Changes in the number of prevalent PCOS cases and the age-standardized prevalence rate.C. Changes in the number of DALYs caused by PCOS and the age-standardized DALYs rate.The shaded areas represent the 95% confidence intervals.

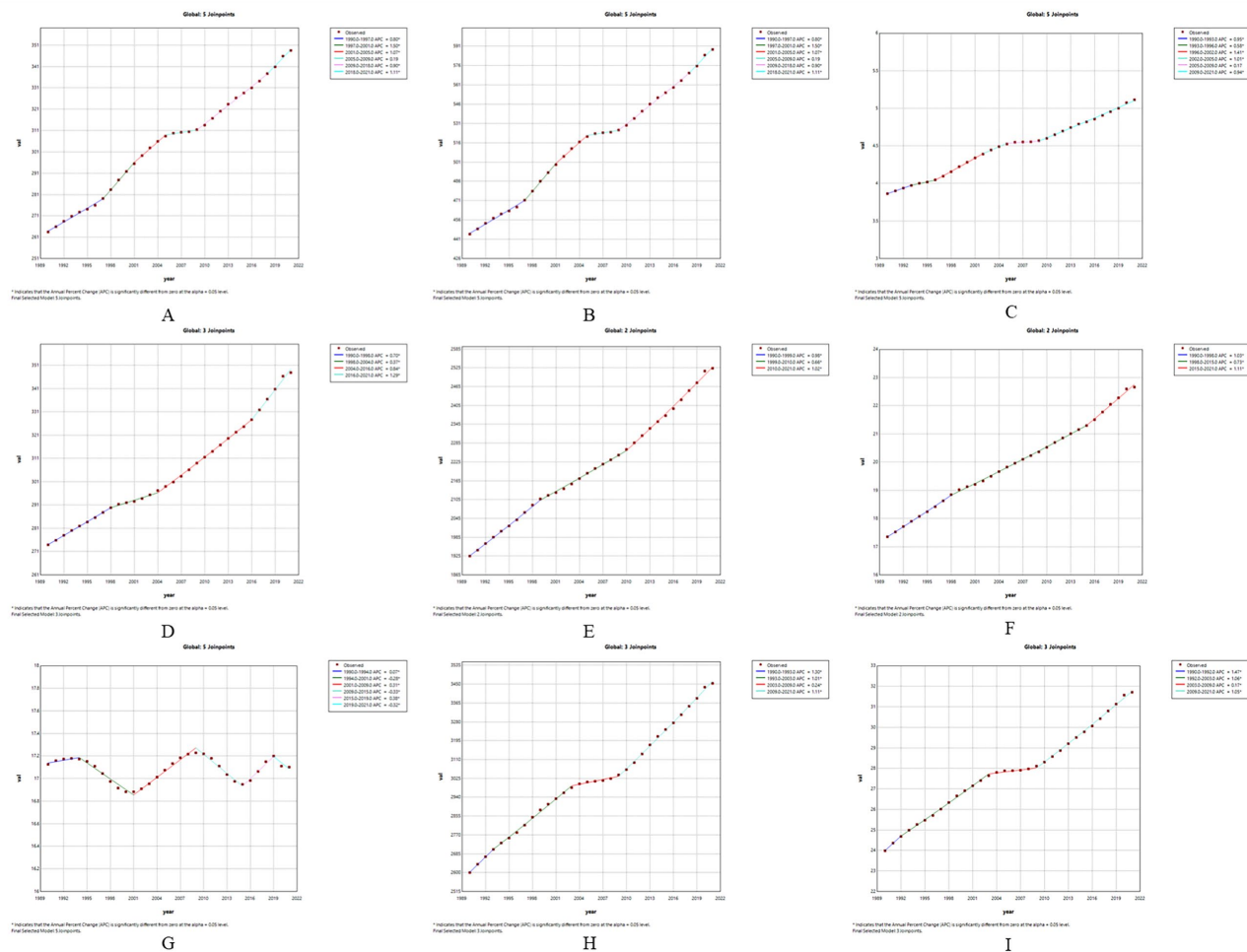


Figure S2. Joinspace regression analysis of PCOS among females aged 10-24 worldwide from 1990 to 2021. A. Trends in the incidence rate of PCOS among females aged 10-14; B. Trends in the prevalence rate of PCOS among females aged 10-14; C. Trends in the DALYs rate of PCOS among

females aged 10-14; D. Trends in the incidence rate of PCOS among females aged 15-19; E. Trends in the prevalence rate of PCOS among females aged 15-19; F. Trends in the DALYs rate of PCOS among females aged 15-19; G. Trends in the incidence rate of PCOS among females aged 20-24; H. Trends in the prevalence rate of PCOS among females aged 20-24; I. Trends in the DALYs rate of PCOS among females aged 20-24.

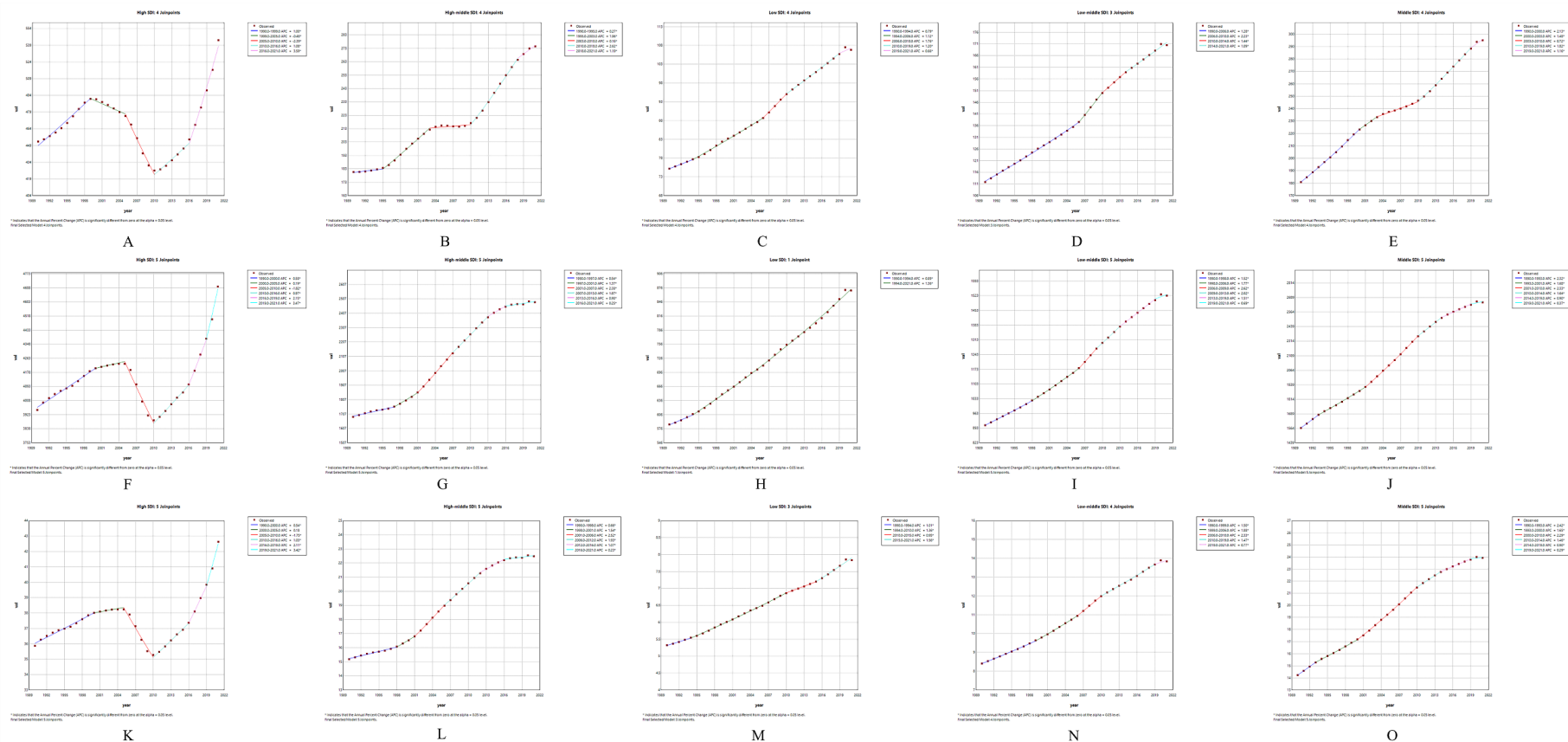


Figure S3. Joinpoint regression analysis of PCOS among females aged 10–24 globally from 1990 to 2021, stratified by Socio-demographic Index (SDI) quintiles. A. Trends in PCOS incidence rates for females aged 10–24 in high SDI regions; B. Trends in PCOS incidence rates for females aged 10–24 in high-middle SDI regions; C. Trends in PCOS incidence rates for females aged 10–24 in middle SDI regions; D. Trends in PCOS incidence rates for females aged 10–24 in low-middle SDI regions; E. Trends in PCOS incidence rates for females aged 10–24 in low SDI regions; F. Trends in

PCOS prevalence rates for females aged 10–24 in high SDI regions; G. Trends in PCOS prevalence rates for females aged 10–24 in high-middle SDI regions; H. Trends in PCOS prevalence rates for females aged 10–24 in middle SDI regions; I. Trends in PCOS prevalence rates for females aged 10–24 in low-middle SDI regions; J. Trends in PCOS prevalence rates for females aged 10–24 in low SDI regions; K. Trends in PCOS DALYs for females aged 10–24 in high SDI regions; L. Trends in PCOS DALYs for females aged 10–24 in high-middle SDI regions; M. Trends in PCOS DALYs for females aged 10–24 in middle SDI regions; N. Trends in PCOS DALYs for females aged 10–24 in low-middle SDI regions; O. Trends in PCOS DALYs for females aged 10–24 in low SDI regions.

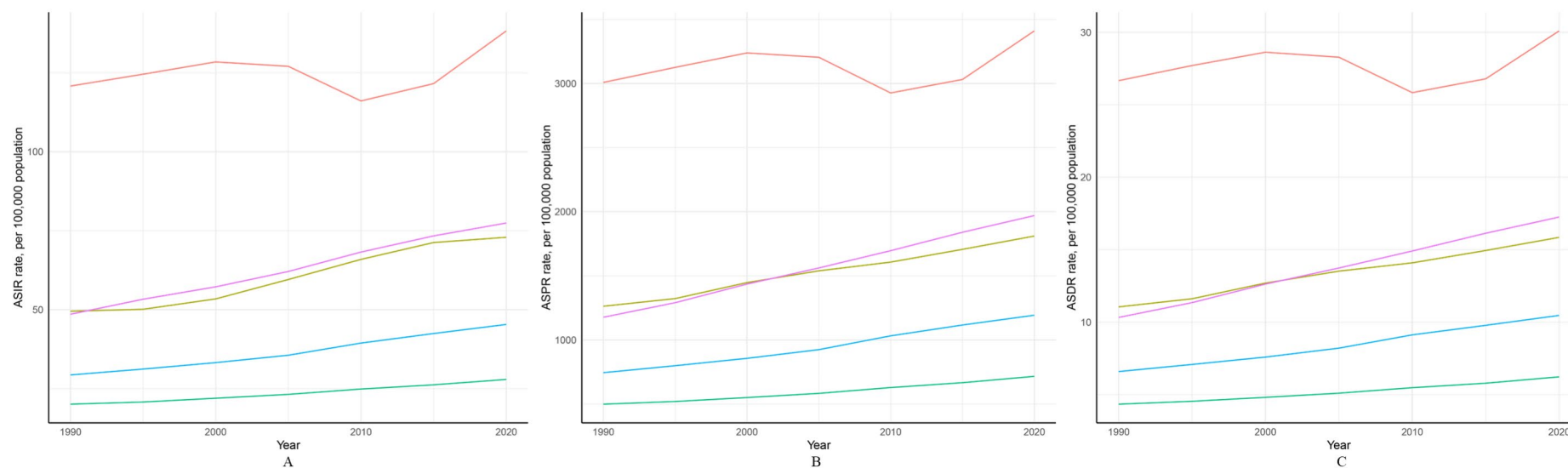


Figure S4. Global trends of PCOS among females aged 10–24 from 1990 to 2021, analyzed by SDI quintiles. A. Age-standardized incidence rates stratified by SDI quintiles; B. Age-standardized prevalence rates stratified by SDI quintiles; C. Age-standardized DALY rates stratified by SDI quintiles.

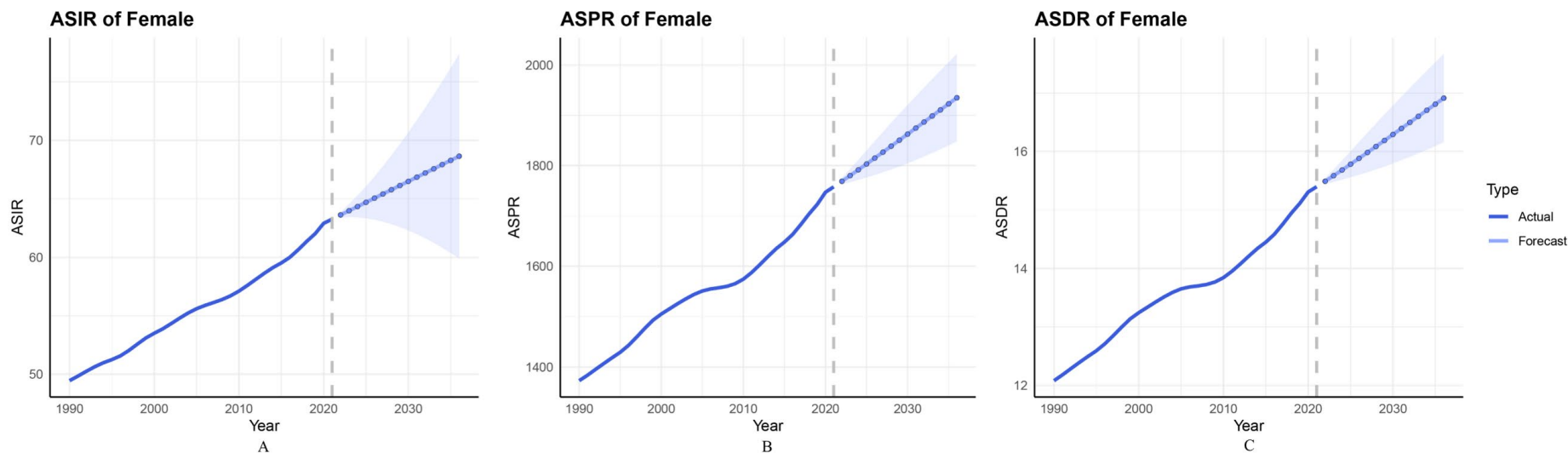


Figure S5. Trends and projections of age-standardized incidence rate, prevalence rate, and DALY rate of PCOS among females aged 10-24 from 1990 to 2036. A. Actual and projected age-standardized incidence rate of PCOS; B. Actual and projected age-standardized prevalence rate of PCOS; C. Actual and projected age-standardized DALY rate of PCOS. Solid lines represent actual data from 1990 to 2021, while dashed lines and markers represent projections for 2022 to 2036; error bars indicate the uncertainty range of the projections.

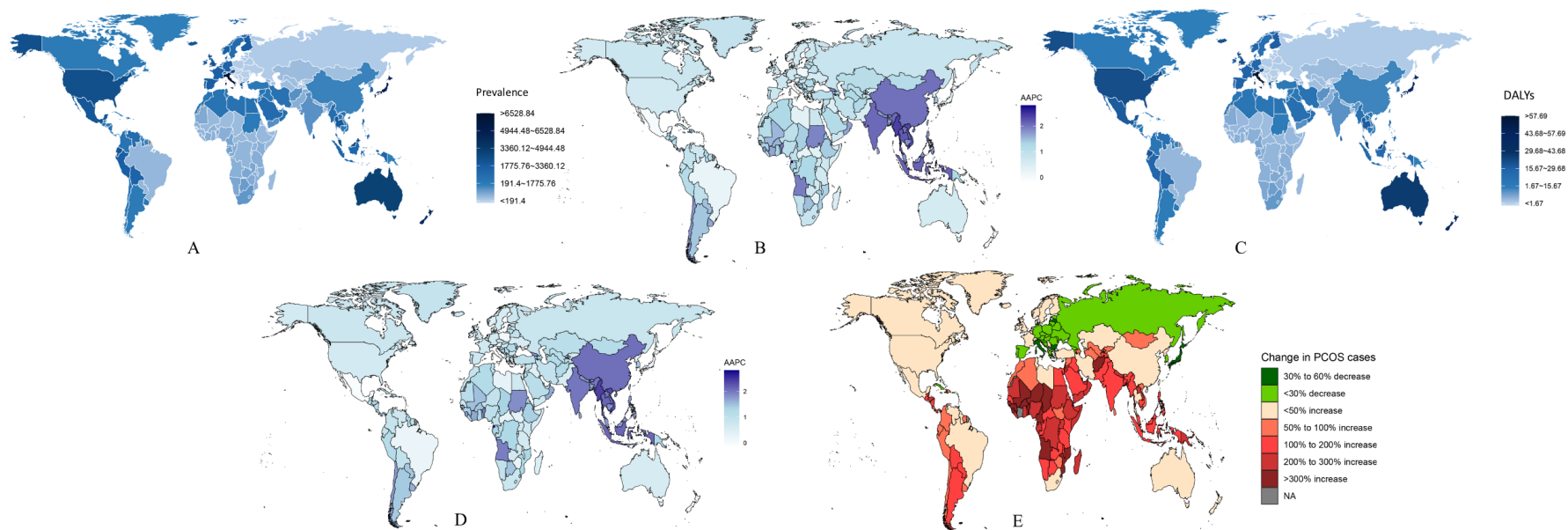


Figure S6. National burden of PCOS. A. Estimated prevalence rates in 2021. B. AAPC in prevalence rates by country. C. Estimated DALYs rates in 2021. D. AAPC in DALYs rates by country. E. Trends in DALYs rates from 1990 to 2019.