

eTable 12. Prevalence of spinal cord injury in 1990 and 2019, and percentage changes of age-standardized estimates by location, 1990–2019

Location	Prevalence				
	Numbers (95% UI)		Age-standardized estimates per 100,000 (95% UI)		Percentage change of age-standardized estimates (95% UI)
	(Year 1990)	(Year 2019)	(Year 1990)	(Year 2019)	(Year 1990–Year 2019)
Global	11366799 (10375237 to 13112529)	20635037 (18925876 to 23611174)	239 (220 to 272)	253 (231 to 290)	5.8% (2.7% to 9.6%)
High-income	3309339 (3097968 to 3559963)	4658703 (4322688 to 5025979)	319 (298 to 343)	314 (293 to 339)	-1.6% (-3.2% to -0.1%)
High-income North America	1470807 (1362896 to 1596414)	2142480 (1965695 to 2332658)	468 (434 to 510)	438 (404 to 474)	-6.5% (-9.1% to -3.8%)
Canada	61362 (57616 to 66045)	104864 (98334 to 112454)	200 (188 to 215)	203 (191 to 218)	1.5% (-1.3% to 4.2%)
Greenland	279 (257 to 306)	313 (288 to 341)	536 (495 to 584)	477 (437 to 518)	-11.1% (-13.9% to -8.8%)
United States of America	1409133 (1303741 to 1532097)	2037268 (1865361 to 2222271)	497 (460 to 542)	465 (428 to 505)	-6.5% (-9.2% to -3.7%)
Australasia	73943 (68140 to 82386)	128689 (118942 to 142726)	339 (312 to 378)	362 (331 to 405)	6.8% (4.0% to 9.8%)
Australia	60172 (55261 to 67234)	106452 (98260 to 118061)	331 (304 to 370)	354 (323 to 397)	7.0% (3.9% to 10.5%)
New Zealand	13771 (12703 to 15056)	22238 (20608 to 24554)	380 (350 to 416)	407 (374 to 452)	7.0% (3.2% to 11.4%)
High-income Asia Pacific	623896 (583531 to 673069)	859398 (798884 to 927726)	317 (297 to 342)	305 (283 to 328)	-3.9% (-5.7% to -1.8%)
Brunei Darussalam	396 (371 to 425)	809 (759 to 862)	184 (173 to 196)	177 (167 to 188)	-4.0% (-7.1% to -0.9%)
Japan	526634 (490533 to 569215)	675897 (622213 to 733296)	347 (324 to 375)	342 (316 to 371)	-1.4% (-3.5% to 0.9%)

Location	Prevalence				
	Numbers (95% UI)		Age-standardized estimates per 100,000 (95% UI)		Percentage change of age-standardized estimates (95% UI)
	(Year 1990)	(Year 2019)	(Year 1990)	(Year 2019)	(Year 1990–Year 2019)
Republic of Korea	90930 (85259 to 96631)	168438 (158707 to 180809)	213 (200 to 225)	229 (216 to 247)	7.9% (4.3% to 11.9%)
Singapore	5936 (5540 to 6352)	14255 (13304 to 15272)	188 (176 to 201)	195 (182 to 209)	3.6% (0.7% to 6.5%)
Western Europe	1047289 (982594 to 1125303)	1374656 (1272365 to 1486731)	229 (215 to 246)	233 (216 to 253)	1.4% (-1.4% to 4.3%)
Andorra	138 (129 to 149)	284 (265 to 307)	231 (216 to 249)	247 (230 to 268)	6.9% (3.1% to 11.5%)
Austria	22253 (20832 to 23942)	28169 (26147 to 30656)	240 (224 to 258)	232 (215 to 255)	-3.0% (-7.6% to 1.1%)
Belgium	28809 (26945 to 31200)	41680 (38494 to 45149)	241 (225 to 263)	269 (248 to 294)	11.5% (6.8% to 16.8%)
Cyprus	1599 (1492 to 1730)	3506 (3240 to 3836)	196 (183 to 212)	217 (200 to 239)	10.5% (5.0% to 16.9%)
Denmark	13546 (12628 to 14620)	15769 (14579 to 17119)	214 (199 to 232)	213 (194 to 234)	-0.7% (-5.4% to 4.5%)
Finland	18048 (16781 to 19591)	23401 (21471 to 25629)	305 (283 to 333)	313 (285 to 349)	2.6% (-1.3% to 8.2%)
France	164549 (154347 to 175895)	222331 (205901 to 240071)	244 (229 to 262)	248 (229 to 268)	1.4% (-2.5% to 5.3%)
Germany	200326 (187433 to 215127)	252232 (231248 to 274013)	205 (191 to 220)	214 (196 to 234)	4.4% (-0.2% to 9.4%)
Greece	26017 (24358 to 28055)	27838 (25879 to 30192)	214 (200 to 232)	203 (188 to 222)	-5% (-9.2% to -1.5%)
Iceland	563 (527 to 606)	924 (853 to 1003)	213 (199 to 229)	221 (203 to 242)	3.9% (-0.3% to 8.4%)

Location	Prevalence				
	Numbers (95% UI)		Age-standardized estimates per 100,000 (95% UI)		Percentage change of age-standardized estimates (95% UI)
	(Year 1990)	(Year 2019)	(Year 1990)	(Year 2019)	(Year 1990–Year 2019)
Ireland	7297 (6822 to 7883)	12722 (11716 to 13820)	199 (186 to 216)	218 (200 to 239)	9.5% (5.1% to 13.8%)
Israel	9064 (8381 to 9847)	23677 (19717 to 31856)	191 (176 to 207)	247 (204 to 337)	29.8% (11.9% to 69.2%)
Italy	152759 (143157 to 165237)	167203 (155913 to 180891)	218 (204 to 235)	193 (179 to 208)	-11.8% (-14.3% to -8.9%)
Luxembourg	1098 (1035 to 1181)	1867 (1742 to 2028)	240 (226 to 259)	236 (219 to 256)	-1.9% (-6.2% to 2.3%)
Malta	839 (776 to 919)	1394 (1284 to 1511)	208 (192 to 228)	240 (218 to 263)	15.3% (10.9% to 20.5%)
Monaco	180 (164 to 197)	257 (234 to 283)	428 (390 to 477)	488 (440 to 553)	14.0% (9.9% to 19.1%)
Netherlands	30052 (28101 to 32175)	45505 (42399 to 48825)	175 (163 to 188)	193 (180 to 208)	10.5% (6.1% to 14.5%)
Norway	25378 (23017 to 27724)	36099 (32427 to 39596)	486 (444 to 531)	503 (454 to 557)	3.5% (0.5% to 7.0%)
Portugal	23506 (21407 to 27259)	23534 (21821 to 26017)	207 (188 to 245)	156 (144 to 172)	-24.8% (-30.4% to -20.7%)
San Marino	123 (113 to 135)	218 (198 to 241)	454 (416 to 501)	505 (457 to 568)	11.3% (7.1% to 15.8%)
Spain	86830 (81809 to 92631)	129596 (120047 to 140357)	197 (185 to 210)	208 (192 to 228)	5.7% (-0.3% to 11.6%)
Sweden	53249 (48329 to 58425)	72301 (65044 to 79382)	489 (447 to 539)	515 (464 to 573)	5.3% (2.1% to 8.9%)
Switzerland	25301 (23630 to 27371)	32541 (29900 to 35495)	300 (280 to 323)	272 (248 to 300)	-9.3% (-13.3% to -4.0%)
United Kingdom	154893 (144548 to 166794)	210409 (194954 to 228369)	231 (216 to 250)	243 (225 to 265)	5.1% (2.2% to 8.0%)

Location	Prevalence				
	Numbers (95% UI)		Age-standardized estimates per 100,000 (95% UI)		Percentage change of age-standardized estimates (95% UI)
	(Year 1990)	(Year 2019)	(Year 1990)	(Year 2019)	(Year 1990–Year 2019)
Southern Latin America	93403 (86234 to 104555)	153480 (143685 to 165038)	194 (179 to 216)	209 (195 to 225)	7.7% (0.5% to 12.3%)
Argentina	63830 (57864 to 74714)	99369 (92357 to 107852)	197 (179 to 230)	205 (190 to 223)	3.8% (-5.3% to 9.4%)
Chile	22612 (21262 to 24053)	45271 (42649 to 48478)	182 (172 to 193)	215 (202 to 231)	18.2% (14.5% to 22.3%)
Uruguay	6957 (6534 to 7440)	8832 (8331 to 9435)	212 (198 to 227)	223 (210 to 239)	5.5% (1.9% to 9.1%)
Central Europe, Eastern Europe, and Central Asia	1454386 (1361320 to 1563953)	1470355 (1367128 to 1601720)	325 (304 to 349)	291 (270 to 317)	-10.5% (-13.3% to -5.1%)
Eastern Europe	899009 (838179 to 972430)	805575 (746346 to 876551)	354 (330 to 382)	305 (282 to 333)	-13.9% (-16.5% to -9.0%)
Belarus	35844 (33576 to 38509)	35199 (33016 to 38065)	309 (289 to 332)	290 (272 to 313)	-6.1% (-8.7% to -3.2%)
Estonia	6363 (5922 to 6860)	4627 (4341 to 4987)	358 (333 to 385)	273 (255 to 293)	-23.9% (-27.0% to -20.9%)
Latvia	11684 (10953 to 12620)	6847 (6438 to 7434)	382 (358 to 412)	273 (256 to 295)	-28.6% (-31.3% to -25.9%)
Lithuania	14772 (13822 to 15932)	11184 (10535 to 12051)	362 (338 to 390)	297 (279 to 321)	-17.8% (-20.3% to -14.8%)
Republic of Moldova	12807 (12015 to 13711)	11018 (10315 to 11881)	279 (262 to 299)	239 (223 to 257)	-14.5% (-17.6% to -11.2%)
Russian Federation	608061 (566008 to 658182)	575291 (532592 to 628058)	361 (336 to 390)	313 (289 to 343)	-13.4% (-16.5% to -8.1%)
Ukraine	209478 (194928 to 226542)	161409 (149366 to 177092)	346 (322 to 374)	292 (269 to 321)	-15.6% (-18.7% to -10.7%)

Location	Prevalence				
	Numbers (95% UI)		Age-standardized estimates per 100,000 (95% UI)		Percentage change of age-standardized estimates (95% UI)
	(Year 1990)	(Year 2019)	(Year 1990)	(Year 2019)	(Year 1990–Year 2019)
Central Europe	439972 (412747 to 471841)	489513 (456513 to 533815)	326 (306 to 350)	332 (308 to 363)	1.8% (-1.4% to 6.8%)
Albania	8866 (8151 to 9594)	10877 (9969 to 12120)	306 (282 to 330)	332 (303 to 375)	8.7% (2.5% to 20.1%)
Bosnia and Herzegovina	14423 (12916 to 17202)	20410 (14633 to 35167)	302 (271 to 363)	491 (349 to 860)	62.4% (25.7% to 136.1%)
Bulgaria	32719 (30682 to 35010)	26946 (25037 to 29240)	325 (304 to 348)	308 (284 to 334)	-5.3% (-8.7% to -2.7%)
Croatia	19846 (18467 to 21281)	21217 (19643 to 23395)	350 (325 to 375)	369 (339 to 408)	5.6% (0.1% to 14.4%)
Czechia	42455 (39887 to 45742)	51155 (47808 to 55398)	362 (340 to 390)	366 (340 to 397)	1.0% (-2.5% to 5.0%)
Hungary	40571 (38006 to 43552)	40177 (37422 to 43691)	332 (310 to 357)	316 (293 to 343)	-5.0% (-8.6% to -0.2%)
Montenegro	2028 (1896 to 2178)	2449 (2288 to 2656)	313 (292 to 336)	324 (302 to 352)	3.5% (0.4% to 6.9%)
North Macedonia	5347 (4945 to 5725)	7655 (7103 to 8316)	257 (238 to 275)	289 (267 to 314)	12.2% (8.3% to 16.7%)
Poland	132249 (123697 to 142241)	163770 (153262 to 177622)	322 (301 to 346)	327 (305 to 354)	1.5% (-1.1% to 4.0%)
Romania	83378 (78152 to 89666)	72662 (67894 to 78563)	327 (306 to 352)	297 (276 to 323)	-9.3% (-12.4% to -6.2%)
Serbia	30163 (28050 to 32472)	36205 (31742 to 45108)	287 (265 to 308)	341 (296 to 435)	19.0% (5.7% to 49.8%)
Slovakia	18681 (17476 to 20094)	24557 (22989 to 26578)	333 (311 to 359)	349 (326 to 379)	4.9% (1.9% to 8.4%)

Location	Prevalence				
	Numbers (95% UI)		Age-standardized estimates per 100,000 (95% UI)		Percentage change of age-standardized estimates (95% UI)
	(Year 1990)	(Year 2019)	(Year 1990)	(Year 2019)	(Year 1990–Year 2019)
Slovenia	9245 (8607 to 9977)	11433 (10655 to 12393)	413 (384 to 445)	401 (373 to 435)	-2.9% (-6.6% to 0.8%)
Central Asia	115405 (107057 to 125666)	175268 (159927 to 201702)	191 (178 to 208)	186 (170 to 212)	-2.7% (-9.8% to 10.6%)
Armenia	15954 (10905 to 25069)	9408 (7488 to 12854)	483 (332 to 766)	264 (212 to 358)	-45.3% (-53.4% to -34.9%)
Azerbaijan	10359 (9704 to 11027)	19475 (17317 to 23953)	156 (147 to 166)	169 (151 to 205)	8.1% (-1.5% to 30.6%)
Georgia	11614 (10921 to 12425)	10030 (9083 to 11840)	199 (187 to 212)	236 (211 to 282)	18.5% (8.9% to 40.7%)
Kazakhstan	31263 (29228 to 33341)	39097 (36469 to 42064)	201 (188 to 215)	203 (190 to 218)	1.0% (-1.4% to 3.2%)
Kyrgyzstan	6759 (6335 to 7180)	10187 (9455 to 11006)	179 (168 to 190)	165 (154 to 178)	-7.7% (-11% to -2.5%)
Mongolia	2544 (2390 to 2715)	6391 (5970 to 6861)	151 (142 to 161)	184 (172 to 198)	22.3% (18.4% to 26.1%)
Tajikistan	6617 (6202 to 7080)	20651 (13792 to 38620)	165 (155 to 176)	237 (160 to 436)	43.8% (-1.4% to 165.1%)
Turkmenistan	4278 (4001 to 4543)	7701 (7145 to 8470)	144 (135 to 153)	152 (141 to 167)	5.7% (0.9% to 13.5%)
Uzbekistan	26017 (24383 to 27765)	52328 (48703 to 55999)	157 (148 to 167)	158 (147 to 168)	0.5% (-2.7% to 3.7%)
Latin America and Caribbean	945885 (843370 to 1108550)	1654334 (1525342 to 1823896)	288 (260 to 329)	271 (250 to 299)	-5.8% (-11.6% to -1.4%)
Central Latin America	422080 (355172 to 564287)	656424 (594640 to 761640)	311 (271 to 394)	259 (235 to 300)	-16.8% (-24.4% to -12%)

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	(Year 1990)	(Year 2019)	(Year 1990)	(Year 2019)	(Year 1990–Year 2019)
Colombia	62172 (54456 to 74082)	100259 (86297 to 132383)	220 (196 to 254)	196 (169 to 259)	-10.5% (-18.7% to 3.4%)
Costa Rica	3776 (3499 to 4080)	8130 (7657 to 8739)	149 (139 to 160)	160 (151 to 172)	7.5% (4.5% to 10.5%)
El Salvador	34391 (12461 to 90889)	20241 (11797 to 42493)	671 (263 to 1743)	337 (193 to 718)	-49.8% (-59.1% to -26%)
Guatemala	21796 (10355 to 49254)	29872 (22956 to 46810)	308 (158 to 673)	198 (149 to 318)	-35.6% (-53.6% to -4.6%)
Honduras	4381 (4085 to 4715)	14252 (12544 to 16931)	125 (118 to 133)	165 (146 to 198)	32.3% (18.9% to 56.1%)
Mexico	241316 (222816 to 264653)	404685 (374488 to 442322)	365 (338 to 399)	319 (295 to 348)	-12.7% (-14.5% to -11.1%)
Nicaragua	25022 (7657 to 67214)	19884 (9920 to 43869)	667 (232 to 1742)	342 (167 to 760)	-48.7% (-56.3% to -26.6%)
Panama	3415 (2840 to 5443)	6453 (5833 to 7965)	161 (137 to 240)	154 (139 to 190)	-4.3% (-21.7% to 4.6%)
Venezuela (Bolivarian Republic of)	25812 (23940 to 27785)	52649 (47953 to 58203)	163 (152 to 174)	177 (161 to 196)	9.1% (2.4% to 19.3%)
Andean Latin America	45203 (35649 to 68463)	84038 (74358 to 105119)	137 (113 to 195)	136 (120 to 169)	-1.2% (-13.2% to 7.9%)
Bolivia (Plurinational State of)	4761 (4505 to 5045)	11226 (10592 to 11990)	93 (89 to 98)	103 (97 to 109)	10.4% (6.8% to 14.2%)
Ecuador	10497 (9440 to 12158)	23004 (21613 to 24784)	129 (117 to 147)	136 (127 to 146)	5.4% (-1.9% to 11.3%)
Peru	29944 (20967 to 51939)	49807 (41420 to 70628)	154 (114 to 249)	146 (121 to 205)	-5.4% (-19.7% to 7.5%)

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	(Year 1990)	(Year 2019)	(Year 1990)	(Year 2019)	(Year 1990–Year 2019)
Caribbean	45566 (43184 to 48167)	118136 (93316 to 165454)	145 (138 to 153)	239 (188 to 336)	64.8% (29.1% to 131.2%)
Antigua and Barbuda	64 (60 to 68)	133 (124 to 142)	113 (106 to 120)	131 (123 to 140)	16.2% (13.2% to 19.6%)
Bahamas	251 (236 to 266)	513 (487 to 543)	107 (102 to 113)	123 (117 to 130)	14.8% (10.7% to 18.7%)
Barbados	272 (255 to 289)	426 (403 to 451)	105 (98 to 111)	117 (111 to 124)	12.0% (8.4% to 15.3%)
Belize	166 (153 to 184)	525 (488 to 578)	118 (110 to 129)	138 (128 to 152)	16.5% (12.4% to 21.5%)
Bermuda	165 (154 to 177)	259 (242 to 278)	248 (232 to 266)	297 (277 to 319)	19.7% (15.2% to 24.9%)
Cuba	16409 (15431 to 17403)	23861 (22638 to 25300)	150 (141 to 158)	162 (153 to 171)	8.3% (3.6% to 12.4%)
Dominica	71 (65 to 82)	101 (91 to 117)	107 (98 to 122)	131 (119 to 150)	22.5% (9.8% to 39.5%)
Dominican Republic	6180 (5782 to 6599)	14734 (13824 to 15659)	107 (101 to 114)	138 (130 to 146)	28.4% (24.5% to 32.9%)
Grenada	102 (77 to 169)	149 (137 to 171)	136 (104 to 218)	133 (122 to 153)	-2.1% (-29.9% to 20.1%)
Guyana	710 (663 to 781)	973 (916 to 1048)	107 (101 to 117)	127 (120 to 137)	18.5% (14.7% to 21.7%)
Haiti	4542 (4299 to 4839)	49888 (26327 to 93675)	88 (83 to 93)	431 (230 to 813)	391% (164.9% to 805.4%)
Jamaica	2379 (2231 to 2558)	3502 (3305 to 3721)	116 (109 to 124)	117 (111 to 125)	1.1% (-1.7% to 3.9%)
Puerto Rico	10610 (9955 to 11350)	15476 (14251 to 17427)	293 (275 to 313)	330 (303 to 374)	12.6% (5.7% to 25.2%)
Saint Kitts and Nevis	77 (72 to 82)	174 (163 to 186)	213 (200 to 226)	257 (241 to 276)	21.1% (17.0% to 25.0%)
Saint Lucia	121 (113 to 131)	255 (240 to 270)	107 (100 to 115)	126 (119 to 134)	17.7% (13.2% to 21.8%)
Saint Vincent and the Grenadines	93 (87 to 99)	147 (139 to 156)	102 (96 to 109)	117 (111 to 125)	14.9% (10.4% to 19.9%)
Suriname	445 (366 to 702)	759 (696 to 904)	126 (106 to 190)	125 (115 to 147)	-1.0% (-23.1% to 10.7%)
Trinidad and Tobago	1133 (1056 to 1227)	1950 (1844 to 2084)	103 (96 to 111)	121 (114 to 129)	17.3% (13.6% to 20.4%)

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	(Year 1990)	(Year 2019)	(Year 1990)	(Year 2019)	(Year 1990–Year 2019)
United States Virgin Islands	260 (244 to 276)	310 (294 to 330)	250 (235 to 266)	241 (229 to 256)	-3.4% (-6.9% to 0.2%)
Tropical Latin America	433036 (398417 to 474467)	795736 (733802 to 868808)	333 (308 to 363)	325 (299 to 355)	-2.5% (-5.4% to 0.3%)
Brazil	428811 (394414 to 470171)	786832 (725507 to 859364)	338 (312 to 369)	330 (304 to 360)	-2.4% (-5.3% to 0.5%)
Paraguay	4224 (3901 to 4636)	8904 (8300 to 9587)	133 (124 to 144)	133 (125 to 143)	0.2% (-3.4% to 3.3%)
Southeast Asia, East Asia, and Oceania	2869879 (2659889 to 3149019)	6408788 (5994232 to 6934620)	189 (176 to 207)	245 (229 to 265)	29.5% (24.5% to 33.7%)
East Asia	2174815 (2017401 to 2348060)	5147994 (4799710 to 5551476)	193 (180 to 208)	266 (249 to 287)	38.0% (34.1% to 42.4%)
China	2139839 (1983005 to 2312296)	5096258 (4750056 to 5499035)	197 (183 to 213)	273 (255 to 294)	38.7% (34.7% to 43.2%)
Democratic People's Republic of Korea	14339 (13493 to 15314)	21809 (20610 to 23210)	72 (68 to 77)	70 (66 to 74)	-3.5% (-7.1% to 0.8%)
Taiwan (Province of China)	20637 (19362 to 21924)	29927 (28119 to 32019)	106 (100 to 113)	91 (86 to 97)	-14.3% (-18.4% to -10.0%)
Southeast Asia	690953 (602962 to 898824)	1249313 (1128418 to 1450442)	176 (158 to 220)	179 (162 to 206)	1.3% (-10.7% to 9.4%)
Cambodia	29805 (8827 to 99033)	27229 (17353 to 57818)	311 (107 to 991)	179 (114 to 386)	-42.4% (-62.6% to 8.8%)
Indonesia	371199 (342075 to 415584)	624426 (577523 to 681498)	244 (226 to 269)	236 (218 to 257)	-3.4% (-9.0% to 1.7%)
Lao People's Democratic Republic	2735 (2537 to 2982)	6076 (5689 to 6527)	85 (79 to 91)	95 (89 to 101)	11.3% (8.3% to 14.3%)

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	(Year 1990)	(Year 2019)	(Year 1990)	(Year 2019)	(Year 1990–Year 2019)
Malaysia	15417 (14482 to 16507)	38532 (36236 to 41114)	107 (101 to 114)	122 (114 to 130)	13.1% (10.3% to 15.8%)
Maldives	124 (117 to 131)	566 (518 to 639)	81 (77 to 86)	113 (104 to 126)	39.2% (30.0% to 55.1%)
Mauritius	1930 (1813 to 2073)	3734 (3493 to 4032)	188 (177 to 201)	240 (224 to 258)	27.7% (22.6% to 33.7%)
Myanmar	45843 (31351 to 98916)	95561 (72067 to 134781)	124 (90 to 251)	174 (132 to 244)	40.0% (-11.8% to 104.1%)
Philippines	70220 (53653 to 111258)	127472 (109169 to 165496)	137 (110 to 204)	125 (107 to 162)	-8.8% (-24% to 1.4%)
Seychelles	126 (118 to 135)	267 (250 to 287)	197 (184 to 210)	230 (215 to 246)	16.5% (12.4% to 20.4%)
Sri Lanka	28614 (20202 to 48485)	72326 (44291 to 142831)	176 (130 to 285)	304 (184 to 605)	72.2% (36.7% to 119%)
Thailand	67897 (63611 to 72766)	112221 (105208 to 121967)	131 (123 to 140)	125 (117 to 137)	-4.6% (-8.2% to 0.0%)
Timor-Leste	2771 (998 to 7454)	3636 (1543 to 9215)	372 (146 to 974)	355 (150 to 902)	-4.7% (-10.6% to 3.9%)
Viet Nam	53354 (50294 to 56627)	135628 (127816 to 144368)	100 (95 to 106)	129 (122 to 138)	29.0% (25.6% to 32.8%)
Oceania	4111 (3871 to 4403)	11481 (10493 to 12939)	82 (78 to 88)	104 (95 to 117)	26.0% (19.6% to 36.0%)
American Samoa	72 (67 to 77)	119 (108 to 134)	193 (181 to 207)	224 (204 to 252)	16.1% (8.1% to 29.6%)
Cook Islands	37 (34 to 40)	52 (48 to 57)	227 (210 to 246)	252 (232 to 276)	11.4% (6.8% to 16.4%)
Fiji	484 (448 to 524)	773 (714 to 844)	75 (70 to 80)	85 (78 to 93)	13.4% (9.8% to 17.5%)
Guam	256 (238 to 277)	403 (375 to 441)	214 (200 to 231)	224 (209 to 245)	4.9% (0.6% to 9.1%)
Kiribati	32 (30 to 35)	65 (59 to 72)	52 (48 to 56)	60 (56 to 66)	16.4% (10.6% to 25.9%)
Marshall Islands	24 (22 to 25)	43 (40 to 46)	76 (72 to 82)	82 (76 to 88)	7.1% (4.6% to 9.6%)

Location	Prevalence				
	Numbers (95% UI)		Age-standardized estimates per 100,000 (95% UI)		Percentage change of age-standardized estimates (95% UI)
	(Year 1990)	(Year 2019)	(Year 1990)	(Year 2019)	(Year 1990–Year 2019)
Micronesia (Federated States of)	57 (53 to 62)	86 (78 to 95)	75 (70 to 81)	90 (82 to 99)	19.5% (14.1% to 28.3%)
Nauru	13 (12 to 14)	16 (15 to 18)	162 (152 to 173)	185 (172 to 201)	14.8% (10.7% to 19.3%)
Niue	4 (3 to 4)	4 (4 to 4)	173 (161 to 185)	216 (200 to 237)	24.8% (19.3% to 32.7%)
Northern Mariana Islands	95 (88 to 104)	128 (119 to 140)	239 (223 to 258)	251 (232 to 273)	5.1% (0.7% to 9.5%)
Palau	32 (30 to 34)	60 (55 to 65)	233 (217 to 252)	272 (252 to 298)	17.1% (13.5% to 20.7%)
Papua New Guinea	2311 (2175 to 2472)	8120 (7373 to 9247)	74 (70 to 79)	101 (92 to 114)	35.9% (27.3% to 49.4%)
Samoa	104 (97 to 112)	239 (201 to 303)	84 (79 to 90)	128 (109 to 162)	52.3% (31.5% to 89.9%)
Solomon Islands	202 (181 to 234)	501 (460 to 558)	83 (75 to 94)	95 (87 to 105)	14.4% (8.0% to 19.4%)
Tokelau	2 (2 to 2)	2 (2 to 3)	150 (140 to 160)	187 (174 to 202)	24.7% (20.5% to 29.7%)
Tonga	58 (54 to 62)	75 (70 to 81)	78 (73 to 84)	83 (78 to 90)	6.6% (2.3% to 11.6%)
Tuvalu	12 (11 to 12)	20 (18 to 21)	140 (132 to 149)	173 (161 to 187)	23.8% (19.7% to 29.0%)
Vanuatu	91 (80 to 110)	232 (201 to 282)	78 (69 to 93)	94 (81 to 113)	19.5% (12.7% to 28.5%)
North Africa and Middle East	761978 (412124 to 1681726)	1597740 (989333 to 3176105)	252 (145 to 518)	264 (166 to 520)	5.0% (-19.4% to 21.4%)
North Africa and Middle East	761978 (412124 to 1681726)	1597740 (989333 to 3176105)	252 (145 to 518)	264 (166 to 520)	5.0% (-19.4% to 21.4%)
Afghanistan	170410 (21376 to 675039)	229275 (64978 to 655574)	1558 (216 to 6103)	810 (225 to 2351)	-48.0% (-65.9% to 41.6%)
Algeria	25519 (23487 to 27768)	67773 (56104 to 95193)	133 (124 to 145)	160 (134 to 221)	20.1% (2.5% to 61.7%)
Bahrain	549 (503 to 619)	2464 (2288 to 2677)	118 (109 to 133)	137 (128 to 149)	16.2% (8.9% to 22.2%)
Egypt	40374 (38033 to 43009)	91724 (85282 to 100309)	88 (83 to 93)	100 (93 to 108)	13.8% (8.4% to 21.8%)

Location	Prevalence				
	Numbers (95% UI)		Age-standardized estimates per 100,000 (95% UI)		Percentage change of age-standardized estimates (95% UI)
	(Year 1990)	(Year 2019)	(Year 1990)	(Year 2019)	(Year 1990–Year 2019)
Iran (Islamic Republic of)	153375 (88594 to 316280)	192392 (147592 to 289632)	333 (200 to 673)	209 (163 to 308)	-37.1% (-55.4% to -15%)
Iraq	141309 (44811 to 400279)	275649 (100535 to 735044)	905 (308 to 2513)	694 (261 to 1839)	-23.3% (-32.7% to -11.6%)
Jordan	2840 (2672 to 3012)	12356 (11428 to 13714)	106 (100 to 112)	118 (110 to 129)	10.9% (5.8% to 19.5%)
Kuwait	2499 (2200 to 3098)	8925 (7309 to 12662)	159 (143 to 190)	179 (150 to 246)	12.6% (3.7% to 28.4%)
Lebanon	24895 (6752 to 81123)	21407 (8783 to 61368)	804 (228 to 2582)	400 (164 to 1148)	-50.2% (-57.6% to -27.9%)
Libya	5625 (4142 to 9380)	20977 (12852 to 41589)	168 (134 to 249)	287 (177 to 573)	71.0% (31.2% to 126.2%)
Morocco	27077 (24049 to 33304)	49136 (45658 to 53596)	128 (116 to 152)	133 (124 to 145)	4.1% (-6.6% to 10.5%)
Oman	2197 (2040 to 2360)	7431 (6863 to 8020)	147 (137 to 157)	160 (150 to 171)	9.3% (5.5% to 13.7%)
Palestine	13014 (4565 to 34264)	34617 (12023 to 92970)	701 (271 to 1799)	814 (289 to 2164)	16.1% (1.3% to 24.0%)
Qatar	757 (704 to 818)	5438 (5015 to 5874)	172 (162 to 185)	172 (160 to 184)	-0.5% (-4.4% to 3.4%)
Saudi Arabia	23679 (22193 to 25441)	99232 (90735 to 108803)	202 (189 to 216)	256 (237 to 279)	27.2% (21.8% to 32.6%)
Sudan	32065 (26718 to 44313)	88763 (69261 to 135844)	208 (179 to 272)	274 (218 to 405)	31.5% (19.6% to 50.5%)
Syrian Arab Republic	16275 (9261 to 39605)	146780 (46392 to 407902)	157 (99 to 352)	1049 (333 to 2942)	567.8% (215.4% to 1184.7%)

Location	Prevalence				
	Numbers (95% UI)		Age-standardized estimates per 100,000 (95% UI)		Percentage change of age-standardized estimates (95% UI)
	(Year 1990)	(Year 2019)	(Year 1990)	(Year 2019)	(Year 1990–Year 2019)
Tunisia	8279 (7740 to 9006)	16698 (15691 to 17935)	120 (112 to 130)	130 (122 to 140)	8.6% (3.7% to 13.4%)
Turkey	52416 (49089 to 56145)	139191 (121472 to 172113)	102 (96 to 109)	151 (132 to 188)	47.9% (32.9% to 75.7%)
United Arab Emirates	2490 (2314 to 2700)	17277 (16071 to 18581)	140 (132 to 151)	139 (131 to 148)	-1.2% (-5.1% to 1.8%)
Yemen	15821 (10321 to 29852)	68611 (34516 to 160572)	149 (108 to 252)	260 (137 to 595)	74.1% (25.0% to 134.1%)
South Asia	1313358 (1235439 to 1395741)	3161582 (2952968 to 3412943)	153 (145 to 162)	188 (176 to 202)	22.9% (19.5% to 27.1%)
South Asia	1313358 (1235439 to 1395741)	3161582 (2952968 to 3412943)	153 (145 to 162)	188 (176 to 202)	22.9% (19.5% to 27.1%)
Bangladesh	84744 (77080 to 94106)	229245 (204809 to 265803)	105 (97 to 115)	148 (132 to 171)	41.0% (33.7% to 50.7%)
Bhutan	509 (475 to 545)	1192 (1113 to 1276)	115 (108 to 123)	166 (156 to 177)	43.6% (37.9% to 50.9%)
India	1134037 (1065345 to 1209041)	2620689 (2458704 to 2800787)	166 (157 to 177)	197 (185 to 211)	18.6% (15.6% to 21.5%)
Nepal	17788 (16718 to 19069)	50961 (44198 to 63223)	121 (115 to 129)	183 (160 to 222)	50.6% (35.5% to 80.4%)
Pakistan	76281 (71641 to 80906)	259494 (229416 to 318122)	95 (89 to 101)	144 (129 to 172)	51.5% (37.9% to 77.7%)
Sub-Saharan Africa	711974 (573802 to 1072304)	1683535 (1394868 to 2363973)	193 (164 to 265)	211 (177 to 288)	9.1% (4.8% to 13.0%)

Location	Prevalence				
	Numbers (95% UI)		Age-standardized estimates per 100,000 (95% UI)		Percentage change of age-standardized estimates (95% UI)
	(Year 1990)	(Year 2019)	(Year 1990)	(Year 2019)	(Year 1990–Year 2019)
Southern Sub-Saharan Africa	88483 (81203 to 100702)	125520 (117191 to 135338)	214 (198 to 239)	171 (160 to 184)	-20.3% (-25.3% to -17.5%)
Botswana	1540 (1432 to 1663)	3919 (3628 to 4221)	157 (147 to 169)	178 (166 to 191)	13.3% (10.5% to 16.5%)
Eswatini	853 (795 to 913)	1458 (1350 to 1563)	154 (145 to 165)	150 (140 to 160)	-3.1% (-5.3% to -0.7%)
Lesotho	2067 (1925 to 2219)	2692 (2508 to 2885)	146 (136 to 156)	139 (130 to 149)	-4.7% (-7.5% to -1.2%)
Namibia	3028 (2000 to 5729)	4126 (3720 to 4849)	260 (184 to 449)	201 (182 to 237)	-22.6% (-48.4% to 1.6%)
South Africa	70255 (64677 to 80330)	96685 (90104 to 104482)	232 (214 to 261)	176 (165 to 190)	-24.1% (-29.5% to -21.1%)
Zimbabwe	10739 (9999 to 11655)	16640 (15505 to 17907)	151 (142 to 163)	140 (132 to 151)	-7.3% (-9.5% to -5.0%)
Western Sub-Saharan Africa	246022 (228652 to 265737)	686804 (626081 to 784464)	183 (171 to 197)	215 (198 to 241)	17.7% (14.0% to 26.0%)
Benin	5790 (5410 to 6173)	17311 (16106 to 18602)	187 (175 to 199)	207 (193 to 222)	11.1% (8.9% to 13.4%)
Burkina Faso	10229 (9563 to 10973)	32023 (29801 to 34408)	161 (151 to 173)	212 (198 to 228)	32.0% (29.5% to 34.7%)
Cabo Verde	482 (452 to 515)	1197 (1120 to 1284)	187 (176 to 200)	229 (215 to 245)	22.3% (19.4% to 25.5%)
Cameroon	15328 (14138 to 16623)	48942 (44632 to 54262)	219 (202 to 236)	234 (214 to 256)	6.8% (2.4% to 12.4%)
Chad	10278 (7050 to 18421)	22401 (19089 to 30056)	231 (170 to 381)	225 (193 to 296)	-2.6% (-23.6% to 14.9%)
Côte d'Ivoire	14611 (13535 to 15712)	39548 (36200 to 43009)	183 (171 to 196)	206 (191 to 222)	12.7% (9.8% to 17.8%)
Gambia	1241 (1073 to 1596)	3008 (2775 to 3265)	187 (166 to 230)	189 (175 to 206)	1.4% (-12.1% to 8.9%)

Location	Prevalence				
	Numbers (95% UI)		Age-standardized estimates per 100,000 (95% UI)		Percentage change of age-standardized estimates (95% UI)
	(Year 1990)	(Year 2019)	(Year 1990)	(Year 2019)	(Year 1990–Year 2019)
Ghana	21026 (19340 to 22809)	62838 (57513 to 68360)	201 (186 to 217)	248 (228 to 270)	23.3% (20.7% to 25.8%)
Guinea	7872 (7352 to 8437)	17737 (16424 to 19192)	177 (166 to 190)	205 (190 to 221)	15.8% (12.5% to 20.8%)
Guinea-Bissau	1353 (1241 to 1470)	3078 (2793 to 3426)	194 (178 to 210)	222 (202 to 246)	14.5% (9.4% to 24.1%)
Liberia	2948 (2450 to 4176)	10240 (6993 to 18359)	195 (167 to 258)	276 (195 to 483)	41.5% (14.8% to 87.6%)
Mali	10345 (9609 to 11118)	33763 (27877 to 47737)	172 (161 to 185)	235 (198 to 321)	36.6% (18.2% to 81.7%)
Mauritania	3502 (3209 to 3805)	7623 (7004 to 8283)	241 (221 to 262)	257 (236 to 279)	6.5% (4.7% to 8.1%)
Niger	8807 (8185 to 9456)	26780 (24637 to 29399)	174 (163 to 186)	196 (182 to 212)	12.7% (9.9% to 16.3%)
Nigeria	113598 (105957 to 122265)	307508 (280722 to 351514)	175 (165 to 189)	205 (189 to 228)	16.8% (12% to 27.8%)
Sao Tome and Principe	178 (165 to 192)	415 (386 to 446)	209 (196 to 224)	257 (241 to 276)	22.9% (19.3% to 26.1%)
Senegal	8905 (8247 to 9569)	22726 (20984 to 24629)	177 (164 to 190)	205 (190 to 223)	16.3% (13.4% to 20.4%)
Sierra Leone	4598 (4290 to 4915)	16180 (12691 to 24462)	171 (160 to 183)	265 (211 to 392)	54.6% (24.7% to 126.6%)
Togo	4922 (4539 to 5336)	13475 (12407 to 14597)	208 (193 to 224)	220 (204 to 238)	6.1% (3.8% to 8.9%)
Eastern Sub-Saharan Africa	322647 (219213 to 603862)	712913 (537596 to 1156257)	216 (159 to 366)	234 (179 to 377)	8.3% (-3.2% to 15.3%)
Burundi	3190 (2954 to 3414)	67502 (22199 to 188953)	78 (73 to 83)	703 (242 to 1936)	799.8% (206.9% to 2316.4%)

Location	Prevalence				
	Numbers (95% UI)		Age-standardized estimates per 100,000 (95% UI)		Percentage change of age-standardized estimates (95% UI)
	(Year 1990)	(Year 2019)	(Year 1990)	(Year 2019)	(Year 1990–Year 2019)
Comoros	838 (775 to 905)	1849 (1703 to 2001)	252 (234 to 271)	291 (269 to 315)	15.7% (12.9% to 18.5%)
Djibouti	754 (692 to 822)	2603 (2361 to 2969)	230 (214 to 249)	254 (233 to 287)	10.3% (5.6% to 20%)
Eritrea	27056 (7937 to 76851)	23173 (13141 to 51188)	967 (318 to 2678)	449 (255 to 978)	-53.5% (-64.8% to -19.5%)
Ethiopia	75914 (41139 to 165521)	140703 (87440 to 285059)	171 (105 to 344)	182 (114 to 366)	6.0% (-7.0% to 29.3%)
Kenya	13839 (12959 to 14779)	40838 (36708 to 49228)	89 (84 to 94)	100 (92 to 116)	13.0% (5.7% to 30.0%)
Madagascar	18232 (16806 to 19829)	44949 (41190 to 49020)	214 (198 to 232)	221 (204 to 240)	3.3% (0.4% to 6.1%)
Malawi	11285 (10462 to 12176)	25880 (23743 to 28080)	164 (154 to 177)	193 (179 to 208)	17.1% (13.5% to 20.6%)
Mozambique	49506 (25560 to 115606)	54653 (47593 to 69114)	456 (259 to 995)	275 (237 to 357)	-39.7% (-64.2% to -6.4%)
Rwanda	12008 (10930 to 13304)	62514 (31791 to 142164)	235 (215 to 256)	605 (316 to 1347)	157.9% (37.2% to 467.9%)
Somalia	11992 (8174 to 33180)	38706 (28493 to 65501)	218 (161 to 518)	259 (199 to 421)	19.0% (-34.3% to 71.2%)
South Sudan	12203 (9589 to 18634)	23709 (16946 to 41158)	279 (231 to 394)	344 (255 to 567)	23.3% (8.9% to 45.7%)
Uganda	42654 (22535 to 100043)	69689 (60102 to 90469)	305 (177 to 675)	254 (219 to 333)	-16.5% (-49.7% to 25.6%)
United Republic of Tanzania	34334 (31696 to 36935)	90556 (83657 to 98054)	189 (176 to 203)	220 (206 to 237)	16.7% (14.1% to 19.2%)

Location	Prevalence				
	Numbers (95% UI)		Age-standardized estimates per 100,000 (95% UI)		Percentage change of age-standardized estimates (95% UI)
	(Year 1990)	(Year 2019)	(Year 1990)	(Year 2019)	(Year 1990–Year 2019)
Zambia	8607 (7922 to 9298)	25020 (22961 to 27064)	158 (148 to 170)	188 (175 to 203)	18.7% (14.9% to 22.6%)
Central Sub-Saharan Africa	54823 (33715 to 110269)	158299 (92933 to 330433)	118 (79 to 217)	154 (93 to 313)	30.4% (16.9% to 44.5%)
Angola	32214 (11520 to 87247)	45818 (23083 to 106888)	330 (131 to 869)	217 (109 to 508)	-34.2% (-42.1% to -15.1%)
Central African Republic	1161 (1082 to 1243)	9062 (4135 to 21755)	55 (52 to 58)	178 (89 to 409)	224.5% (63.6% to 624%)
Congo	1171 (1094 to 1254)	8752 (4373 to 19792)	63 (60 to 68)	184 (96 to 407)	191.1% (55.0% to 531%)
Democratic Republic of the Congo	19452 (18069 to 20914)	92511 (58980 to 179752)	69 (65 to 74)	132 (88 to 245)	90.4% (29.4% to 249.7%)
Equatorial Guinea	195 (182 to 209)	830 (772 to 898)	61 (58 to 65)	77 (73 to 82)	26.2% (22.1% to 30.4%)
Gabon	631 (593 to 673)	1326 (1248 to 1413)	81 (77 to 86)	86 (82 to 92)	6.5% (4.2% to 8.9%)

Abbreviations: UI, uncertainty interval