Suppementary Materials

Table S1. The burden of rheumatoid arthritis in 1990 and 2019 for both sexes and all locations, with EAPC from 1990 and 2019.

	Prevalence			Incidence			DALYs		
Location	**Age-Standardized Estimates (1990; 95%UI)**	**Age-Standardized Estimates (2019; 95%UI)**	**EAPC (95%CI)**	**Age-Standardized Estimates (1990; 95%UI)**	**Age-Standardized Estimates (2019; 95%UI)**	**EAPC (95%CI)**	**Age-Standardized Estimates (1990; 95%UI)**	**Age-Standardized Estimates (2019; 95%UI)**	**EAPC (95%CI)**
Global	207.46 (189.99 to 226.95)	224.25 (204.94 to 245.99)	0.37% (0.32 to 0.42)	12.21 (11.13 to 13.38)	13 (11.83 to 14.27)	0.3% (0.26 to 0.34)	39.12 (30.13 to 48.56)	39.57 (30.51 to 49.53)	0.12% (0.08 to 0.17)
High SDI	264.73 (245.29 to 286.87)	286.7 (265.15 to 311.79)	0.41% (0.35 to 0.47)	15.95 (14.73 to 17.25)	17.13 (15.77 to 18.61)	0.38% (0.32 to 0.45)	47.62 (36.29 to 59.68)	45.02 (33.28 to 57.74)	-0.12% (-0.15 to -0.09)
High-middle SDI	188.01 (171.49 to 206.38)	208.51 (190.26 to 228.62)	0.48% (0.42 to 0.54)	10.17 (9.26 to 11.23)	11.24 (10.24 to 12.38)	0.45% (0.4 to 0.51)	34.02 (25.74 to 42.78)	35.01 (26.33 to 44.52)	0.18% (0.13 to 0.24)
Middle SDI	187.29 (169.79 to 206.45)	205.83 (186.86 to 227.03)	0.41% (0.36 to 0.47)	10.65 (9.63 to 11.76)	11.48 (10.41 to 12.69)	0.31% (0.27 to 0.35)	35.69 (27.56 to 44.59)	37.61 (29.11 to 47.14)	0.31% (0.22 to 0.39)
Low-middle SDI	206.1 (187.42 to 226.87)	236.03 (214.92 to 259.95)	0.51% (0.48 to 0.54)	13.89 (12.63 to 15.29)	15.31 (13.9 to 16.84)	0.36% (0.34 to 0.38)	43.47 (34.07 to 53.54)	48.38 (37.95 to 59.54)	0.41% (0.38 to 0.44)
Low SDI	176.28 (159.36 to 194.73)	197.96 (178.69 to 218.3)	0.48% (0.44 to 0.51)	12.01 (10.85 to 13.21)	13.27 (12.06 to 14.56)	0.41% (0.39 to 0.44)	35.2 (27.49 to 44.42)	38.07 (29.29 to 47.88)	0.29% (0.26 to 0.32)
Andean Latin America	177.78 (155.08 to 204.78)	270.38 (236.5 to 309.49)	1.49% (1.42 to 1.56)	10.01 (8.93 to 11.31)	14.74 (13.16 to 16.62)	1.39% (1.32 to 1.45)	35.29 (27.27 to 44.28)	46.17 (34.27 to 59.1)	0.94% (0.83 to 1.04)
Australasia	299.72 (268.16 to 338.41)	331.81 (294.4 to 374.68)	0.46% (0.36 to 0.56)	19.12 (17.25 to 21.24)	20.89 (18.75 to 23.34)	0.43% (0.32 to 0.55)	56.49 (42.91 to 71.42)	52.75 (38.71 to 68.08)	-0.15% (-0.19 to -0.11)
Caribbean	173.66 (150.61 to 199.98)	216.7 (189.25 to 248.47)	0.81% (0.76 to 0.86)	8.84 (7.78 to 10.03)	10.77 (9.55 to 12.17)	0.72% (0.67 to 0.77)	31.67 (23.54 to 40.11)	36.11 (26.56 to 46.29)	0.5% (0.48 to 0.51)
Central Asia	243.88 (221.58 to 271.56)	318.15 (289.66 to 352.63)	1.07% (0.97 to 1.17)	13.57 (12.47 to 14.89)	17.33 (15.91 to 18.97)	1% (0.9 to 1.09)	41.29 (30.03 to 52.86)	51.16 (37.6 to 65.3)	0.69% (0.61 to 0.77)
Central Europe	198.17 (180.69 to 218.5)	211.46 (190.67 to 234.93)	0.36% (0.3 to 0.42)	10.82 (9.73 to 11.99)	11.44 (10.2 to 12.72)	0.35% (0.26 to 0.44)	36.09 (26.96 to 45.67)	34.08 (25.02 to 44.13)	-0.11% (-0.18 to -0.03)
Central Latin America	346.98 (318.59 to 379.44)	366.08 (335.61 to 399.02)	0.13% (0.1 to 0.16)	20.35 (18.54 to 22.23)	21.12 (19.29 to 23.07)	0.08% (0.05 to 0.11)	72.37 (56.77 to 90.73)	68.69 (52.71 to 86.7)	-0.17% (-0.22 to -0.12)
Central Sub-Saharan Africa	152.48 (134.29 to 171.99)	175.89 (155.72 to 198.71)	0.57% (0.52 to 0.62)	9.18 (8.12 to 10.32)	10.57 (9.39 to 11.92)	0.57% (0.51 to 0.62)	37.13 (27.5 to 47.02)	36.53 (26.88 to 47.19)	-0.11% (-0.17 to -0.06)
East Asia	205.48 (187.04 to 227.01)	215.89 (196.34 to 238.29)	0.34% (0.23 to 0.46)	11.41 (10.31 to 12.65)	11.68 (10.56 to 12.89)	0.21% (0.12 to 0.3)	38.92 (29.85 to 49.62)	39.3 (30.11 to 49.71)	0.31% (0.14 to 0.48)
Eastern Europe	150.7 (136.89 to 165.49)	159.93 (144.81 to 175.61)	0.26% (0.24 to 0.28)	7.19 (6.45 to 8)	7.61 (6.83 to 8.47)	0.24% (0.23 to 0.25)	28.97 (22.03 to 36.32)	29 (22.08 to 36.95)	-0.09% (-0.15 to -0.04)
Eastern Sub-Saharan Africa	228 (205.51 to 253.42)	259.36 (233.8 to 288.04)	0.55% (0.51 to 0.59)	15.05 (13.6 to 16.61)	17.02 (15.4 to 18.77)	0.52% (0.48 to 0.56)	42.38 (31.27 to 56.17)	43.79 (32.22 to 57.93)	0.14% (0.11 to 0.16)
High-income Asia Pacific	234.31 (211.78 to 258.3)	240.81 (218.19 to 267.22)	0.28% (0.19 to 0.36)	14.5 (13.05 to 15.99)	14.19 (12.75 to 15.65)	0.11% (0.02 to 0.2)	46.61 (35.04 to 58.57)	38.31 (28.14 to 49.8)	-0.63% (-0.71 to -0.56)
High-income North America	290.68 (276.67 to 307.14)	343.38 (324.49 to 364.88)	0.73% (0.67 to 0.79)	18.12 (16.98 to 19.4)	21.46 (20.02 to 23.09)	0.72% (0.66 to 0.79)	47.73 (35.95 to 60.34)	53.53 (39.82 to 68.25)	0.47% (0.38 to 0.56)
North Africa and Middle East	94.02 (83.07 to 106.69)	120.59 (107 to 135.7)	0.94% (0.91 to 0.97)	4.68 (4.15 to 5.3)	5.86 (5.18 to 6.63)	0.85% (0.82 to 0.88)	16.05 (11.65 to 20.91)	19.04 (13.91 to 24.87)	0.66% (0.62 to 0.69)
Oceania	76.11 (64.74 to 89.32)	81.17 (69.34 to 95.33)	0.14% (0.11 to 0.18)	3.69 (3.2 to 4.26)	3.92 (3.4 to 4.51)	0.13% (0.1 to 0.17)	12.36 (8.8 to 16.43)	13.77 (9.89 to 18.4)	0.37% (0.34 to 0.39)
South Asia	230.54 (209.14 to 252.67)	258.01 (234.42 to 283.88)	0.4% (0.39 to 0.42)	16.66 (15.08 to 18.36)	18.09 (16.35 to 19.94)	0.29% (0.28 to 0.3)	49.99 (39.16 to 61.89)	53.36 (41.81 to 65.99)	0.18% (0.14 to 0.21)

Southeast Asia	94.03 (83.47 to 106.06)	106.36 (94.45 to 120.02)	0.52% (0.49 to 0.56)	5.05 (4.47 to 5.68)	5.54 (4.92 to 6.24)	0.42% (0.38 to 0.46)	16.17 (11.99 to 20.98)	18.48 (13.76 to 23.64)	0.54% (0.5 to 0.58)
Southern Latin America	195.56 (173.16 to 222.19)	263.56 (238.3 to 295.09)	1.03% (0.95 to 1.11)	10.93 (9.78 to 12.24)	14.51 (13.16 to 16.09)	1.01% (0.92 to 1.1)	37.35 (27.96 to 47.1)	45.77 (34.05 to 58.57)	0.78% (0.73 to 0.84)
Southern Sub-Saharan Africa	327.49 (297.7 to 362.02)	320.35 (291.15 to 354.45)	0.05% (-0.01 to 0.11)	17.51 (15.69 to 19.48)	17.16 (15.35 to 19.11)	0.03% (-0.01 to 0.08)	66.91 (51.84 to 82.86)	56.76 (43.29 to 71.95)	-0.75% (-0.97 to -0.54)
Tropical Latin America	249.2 (224.56 to 274.85)	272.89 (245.92 to 301.45)	0.31% (0.29 to 0.33)	11.25 (10.07 to 12.59)	12 (10.74 to 13.41)	0.23% (0.2 to 0.25)	40.03 (29.04 to 51.63)	42.82 (31.44 to 55.05)	0.28% (0.26 to 0.3)
Western Europe	256.73 (232.01 to 283.45)	269.44 (242.5 to 299.68)	0.24% (0.19 to 0.29)	14.94 (13.64 to 16.35)	15.76 (14.35 to 17.32)	0.28% (0.22 to 0.35)	46.37 (35.1 to 58.69)	42.22 (30.83 to 54.67)	-0.27% (-0.3 to -0.24)
Western Sub-Saharan Africa	57.35 (50.45 to 65.21)	70.3 (61.89 to 79.98)	0.63% (0.58 to 0.69)	3.9 (3.45 to 4.4)	4.63 (4.09 to 5.23)	0.54% (0.49 to 0.59)	10.56 (7.97 to 13.59)	13.29 (9.8 to 17.09)	0.8% (0.77 to 0.83)

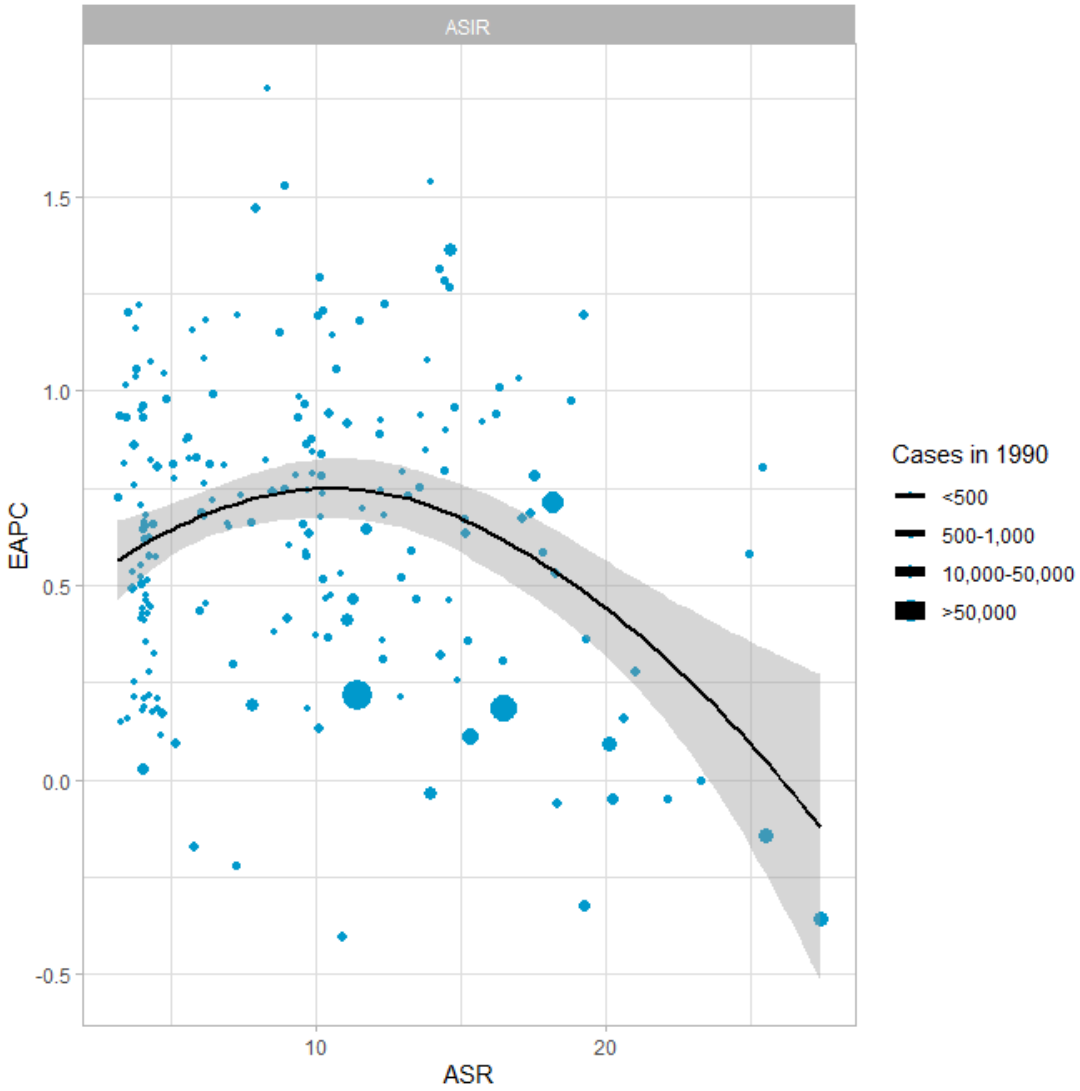


Figure S1. The association between EAPC and ASR analysis results: there was no significant association between EAPC and ASR. EAPC: Estimated Annual Percent Change; ASR: age-standardized incidence rate.