

Table 1: Global – Incident cases ( $\times 10^2$ ), ASIR (per 100 000), and AAPC of age-standardized death rates from air-pollution-attributable lower respiratory infections, by GBD super-region (1990 vs. 2021).

Geography	Inc 1990 ( $\times 10^2$ ) [95% UI]	ASIR 1990 [95% UI]	Inc 2021 ( $\times 10^2$ ) [95% UI]	ASIR 2021 [95% UI]	AAPC 1990–2021 [95% CI]
Global	61340.32 [11764.50 – 102498.13]	1866.09 [335.32 – 3197.10]	71664.95 [14186.66 – 118121.76]	2240.21 [413.24 – 3823.67]	-4.01 (-4.24 – -3.78)
North Africa and Middle East	2167.45 [355.56 – 3575.31]	85.94 [13.59 – 142.29]	2702.98 [475.16 – 4437.97]	107.97 [18.11 – 178.36]	-4.71 (-4.87 – -4.55)
South Asia	16296.18 [3470.65 – 26925.90]	211.18 [43.94 – 348.43]	19352.90 [4209.33 – 31269.17]	254.57 [53.59 – 411.39]	-4.11 (-4.41 – -3.81)
Southeast Asia	2104.84 [327.19 – 3674.08]	70.54 [10.88 – 123.05]	2418.91 [396.16 – 4229.50]	83.97 [13.57 – 147.50]	-4.90 (-5.00 – -4.79)
East Asia	2471.88 [342.90 – 4234.96]	32.79 [4.63 – 55.94]	2407.77 [344.57 – 4126.16]	33.12 [4.82 – 56.83]	-8.12 (-8.40 – -7.84)
Oceania	100.07 [28.33 – 168.65]	153.42 [38.10 – 260.68]	118.98 [35.78 – 202.16]	187.38 [50.98 – 319.91]	-2.10 (-2.27 – -1.94)
Central Asia	199.10 [41.62 – 347.31]	43.66 [8.93 – 76.22]	262.23 [57.05 – 459.81]	58.36 [12.35 – 102.00]	-4.37 (-4.79 – -3.96)
Central Europe	211.10 [27.23 – 366.19]	28.21 [3.67 – 48.90]	255.76 [32.55 – 450.56]	34.37 [4.42 – 60.58]	-4.83 (-5.31 – -4.35)
Eastern Europe	131.11 [16.23 – 245.99]	10.89 [1.37 – 20.40]	155.41 [19.35 – 294.72]	12.88 [1.64 – 24.41]	-4.00 (-5.12 – -2.87)
High-income Asia Pacific	507.68 [57.36 – 1002.08]	35.00 [3.96 – 68.87]	589.19 [67.25 – 1159.06]	41.13 [4.70 – 80.69]	-3.63 (-4.04 – -3.23)
Western Europe	432.25 [50.54 – 818.08]	13.40 [1.57 – 25.37]	556.51 [65.26 – 1051.98]	17.47 [2.05 – 33.04]	-4.58 (-5.51 – -3.63)
Southern Latin America	191.80 [21.86 – 373.86]	49.59 [5.66 – 96.57]	260.96 [30.59 – 507.91]	69.14 [8.12 – 134.53]	-2.33 (-3.34 – -1.31)
High-income North America	108.31 [11.00 – 231.95]	4.50 [0.46 – 9.64]	131.66 [13.55 – 283.85]	5.57 [0.58 – 12.00]	-5.26 (-5.81 – -4.71)
Australasia	11.92 [1.26 – 23.83]	5.69 [0.61 – 11.36]	15.20 [1.60 – 30.45]	7.63 [0.81 – 15.27]	-2.40 (-3.79 – -1.00)
Caribbean	168.63 [32.85 – 289.34]	70.32 [14.63 – 120.73]	202.08 [39.80 – 340.63]	85.81 [17.72 – 145.14]	-2.44 (-2.71 – -2.17)
Andean Latin America	274.12 [37.70 – 495.32]	89.92 [12.36 – 162.54]	343.84 [51.07 – 618.17]	115.16 [17.08 – 207.11]	-5.77 (-7.01 – -4.52)
Central Latin America	345.18 [49.67 – 620.78]	28.48 [4.15 – 51.20]	430.53 [65.18 – 766.10]	36.38 [5.55 – 64.73]	-4.99 (-5.49 – -4.48)
Tropical Latin America	383.67 [48.31 – 749.83]	32.74 [4.13 – 63.93]	458.65 [58.07 – 876.00]	40.78 [5.18 – 77.80]	-5.51 (-6.00 – -5.03)
Central Sub-Saharan Africa	1013.65 [205.80 – 1756.75]	250.21 [45.00 – 438.81]	1098.67 [223.91 – 1861.87]	273.37 [49.15 – 474.78]	-3.07 (-3.15 – -3.00)
Eastern Sub-Saharan Africa	3009.39 [608.03 – 4767.69]	212.31 [37.93 – 339.69]	3448.97 [719.48 – 5483.88]	245.13 [44.92 – 391.15]	-3.81 (-4.05 – -3.58)
Southern Sub-Saharan Africa	464.06 [70.57 – 788.30]	136.03 [20.39 – 231.08]	560.38 [85.46 – 949.74]	169.16 [25.33 – 287.56]	-2.01 (-2.30 – -1.72)
Western Sub-Saharan Africa	4693.67 [1093.05 – 7971.56]	233.55 [46.36 – 389.24]	5574.86 [1300.44 – 9424.31]	280.14 [56.58 – 467.59]	-3.17 (-3.31 – -3.04)

Table 2: Global – Incident cases ( $\times 10^2$ ), ASIR (per 100000), and EAPC of age-standardized death rates from air-pollution-attributable respiratory infections, stratified by SDI category and GBD super-region (1990 vs. 2021).

Stratum	Inc 1990 ( $\times 10^2$ ) [95% UI]	ASIR 1990 [95% UI]	Inc 2021 ( $\times 10^2$ ) [95% UI]	ASIR 2021 [95% UI]	EAPC 1990–2021 [95% CI]
Overall	61340.32 [11764.50 – 102498.13]	1866.09 [335.32 – 3197.10]	71664.95 [14186.66 – 118121.76]	2240.21 [413.24 – 3823.67]	-2.35 [-2.68 – -2.23]
High SDI	1191.27 [136.38 – 2321.93]	69.48 [7.96 – 135.63]	1447.97 [167.02 – 2820.07]	84.69 [9.78 – 165.41]	0.89 [1.13 – 0.58]
High-middle SDI	31295.58 [5655.95 – 51968.01]	307.93 [49.48 – 532.08]	33505.23 [6359.79 – 54842.20]	275.70 [45.70 – 485.23]	2.21 [2.94 – 1.77]
Middle SDI	3740.51 [566.30 – 6617.64]	428.03 [66.54 – 752.53]	5924.39 [980.46 – 10161.64]	347.89 [53.93 – 610.79]	5.72 [6.64 – 5.59]
Low-middle SDI	16296.18 [3470.65 – 26925.90]	211.18 [43.94 – 348.43]	20545.89 [4399.77 – 33325.63]	545.92 [102.19 – 908.82]	2.92 [2.35 – 2.82]
Low SDI	8816.78 [1935.21 – 14664.65]	849.47 [167.40 – 1428.42]	10241.48 [2279.61 – 16972.22]	986.03 [201.63 – 1653.42]	-4.24 [-4.39 – -4.14]
North Africa and Middle East	2167.45 [355.56 – 3575.31]	85.94 [13.59 – 142.29]	2702.98 [475.16 – 4437.97]	107.97 [18.11 – 178.36]	-2.65 [-3.60 – -2.62]
South Asia	16296.18 [3470.65 – 26925.90]	211.18 [43.94 – 348.43]	19352.90 [4209.33 – 31269.17]	254.57 [53.59 – 411.39]	-2.46 [-2.58 – -2.29]
Southeast Asia	2104.84 [327.19 – 3674.08]	70.54 [10.88 – 123.05]	2418.91 [396.16 – 4229.50]	83.97 [13.57 – 147.50]	-2.61 [-3.44 – -2.24]
East Asia	2471.88 [342.90 – 4234.96]	32.79 [4.63 – 55.94]	2407.77 [344.57 – 4126.16]	33.12 [4.82 – 56.83]	-6.55 [-7.53 – -6.29]
Oceania	100.07 [28.33 – 168.65]	153.42 [38.10 – 260.68]	118.98 [35.78 – 202.16]	187.38 [50.98 – 319.91]	-1.41 [-1.17 – -1.26]
Central Asia	199.10 [41.62 – 347.31]	43.66 [8.93 – 76.22]	262.23 [57.05 – 459.81]	58.36 [12.35 – 102.00]	-3.64 [-4.17 – -3.67]
Central Europe	211.10 [27.23 – 366.19]	28.21 [3.67 – 48.90]	255.76 [32.55 – 450.56]	34.37 [4.42 – 60.58]	-2.93 [-3.47 – -2.92]
Eastern Europe	131.11 [16.23 – 245.99]	10.89 [1.37 – 20.40]	155.41 [19.35 – 294.72]	12.88 [1.64 – 24.41]	-3.12 [-4.07 – -2.94]
High-income Asia Pacific	507.68 [57.36 – 1002.08]	35.00 [3.96 – 68.87]	589.19 [67.25 – 1159.06]	41.13 [4.70 – 80.69]	-2.69 [-2.45 – -3.25]
Western Europe	432.25 [50.54 – 818.08]	13.40 [1.57 – 25.37]	556.51 [65.26 – 1051.98]	17.47 [2.05 – 33.04]	-4.31 [-4.53 – -4.39]
Southern Latin America	191.80 [21.86 – 373.86]	49.59 [5.66 – 96.57]	260.96 [30.59 – 507.91]	69.14 [8.12 – 134.53]	-0.45 [-1.10 – -0.28]
High-income North America	108.31 [11.00 – 231.95]	4.50 [0.46 – 9.64]	131.66 [13.55 – 283.85]	5.57 [0.58 – 12.00]	-5.94 [-5.89 – -5.66]
Australasia	11.92 [1.26 – 23.83]	5.69 [0.61 – 11.36]	15.20 [1.60 – 30.45]	7.63 [0.81 – 15.27]	-1.16 [-2.93 – -2.33]
Caribbean	168.63 [32.85 – 289.34]	70.32 [14.63 – 120.73]	202.08 [39.80 – 340.63]	85.81 [17.72 – 145.14]	-1.47 [-1.41 – -1.44]
Andean Latin America	274.12 [37.70 – 495.32]	89.92 [12.36 – 162.54]	343.84 [51.07 – 618.17]	115.16 [17.08 – 207.11]	-3.81 [-4.29 – -3.52]
Central Latin America	345.18 [49.67 – 620.78]	28.48 [4.15 – 51.20]	430.53 [65.18 – 766.10]	36.38 [5.55 – 64.73]	-3.86 [-4.23 – -3.72]
Tropical Latin America	383.67 [48.31 – 749.83]	32.74 [4.13 – 63.93]	458.65 [58.07 – 876.00]	40.78 [5.18 – 77.80]	-2.62 [-3.09 – -2.61]
Central Sub-Saharan Africa	1013.65 [205.80 – 1756.75]	250.21 [45.00 – 438.81]	1098.67 [223.91 – 1861.87]	273.37 [49.15 – 474.78]	-1.61 [-2.27 – -1.49]
Eastern Sub-Saharan Africa	3009.39 [608.03 – 4767.69]	212.31 [37.93 – 339.69]	3448.97 [719.48 – 5483.88]	245.13 [44.92 – 391.15]	-2.60 [-2.94 – -2.51]
Southern Sub-Saharan Africa	464.06 [70.57 – 788.30]	136.03 [20.39 – 231.08]	560.38 [85.46 – 949.74]	169.16 [25.33 – 287.56]	-0.63 [-1.04 – -0.61]
Western Sub-Saharan Africa	4693.67 [1093.05 – 7971.56]	233.55 [46.36 – 389.24]	5574.86 [1300.44 – 9424.31]	280.14 [56.58 – 467.59]	-1.95 [-2.15 – -1.86]