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Figure 1 Study flowchart

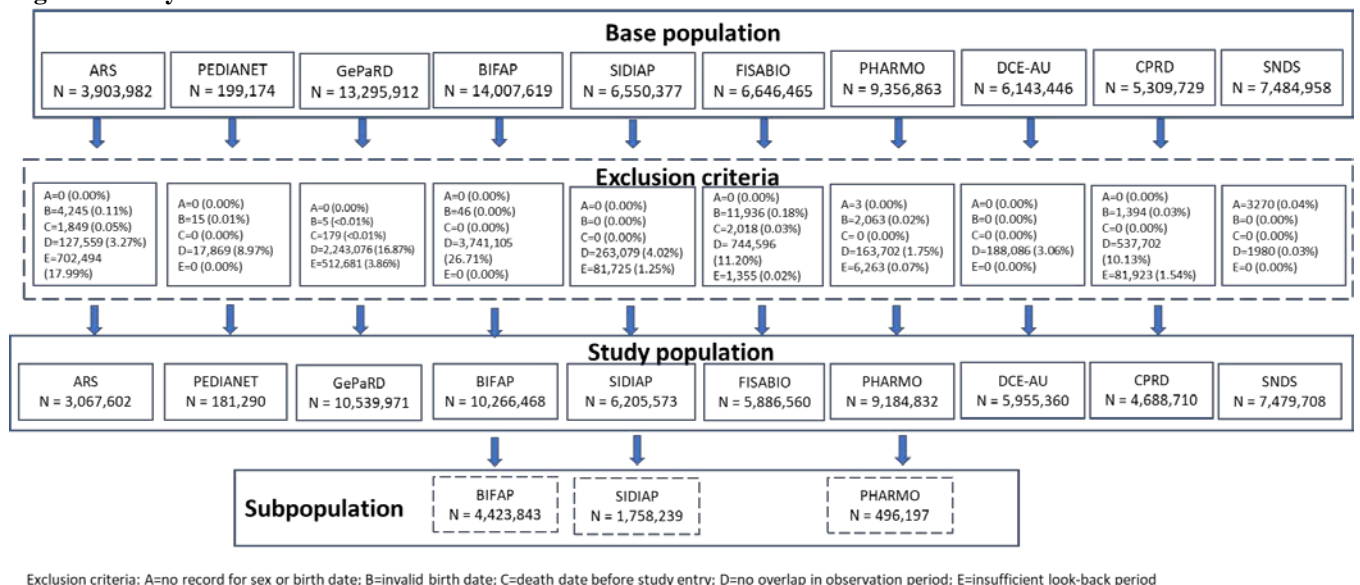


Table 1 Pooled sex-and-age stratified incidence rates according to the provenance of the events

Incidence rates for all AESIs, except anosmia-ageusia should rely on hospital databanks (GP and IN-OUTPATIENT databases). Incidence rates for anosmia-ageusia should rely on data generated using GPs databanks (GP only databases). Note: rates for acute aseptic arthritis were not available because no narrow clinical definition could be developed.

1. Autoimmune diseases

AESIs	Age group	Female	Male
Guillain Barre Syndrome	0-19	1.20 (0.74-1.65)	1.54 (1.05-2.03)
	20-29	0.92 (0.34-1.50)	1.63 (0.90-2.37)
	30-39	1.51 (0.65-2.37)	2.11 (1.21-3.01)
	40-49	1.95 (1.28-2.62)	2.23 (1.30-3.16)
	50-59	2.60 (1.87-3.34)	4.85 (3.87-5.84)
	60-69	4.78 (2.18-7.38)	6.13 (3.50-8.66)
	70-79	6.12 (4.18-8.06)	11.07 (4.52-17.63)
	80+	3.64 (0.07-7.21)	8.29 (1.70-14.88)
	Overall	2.46 (1.871-3.041)	3.77 (2.94 (4.60)
ADEM	0-19	0.71 (0.22-1.19)	0.80 (0.00-1.83)
	20-29	0.35 (0.00-0.76)	0.13 (0.00-0.43)
	30-39	0.23 (0.00-0.52)	0.11 (0.00-0.34)
	40-49	0.16 (0.00-0.39)	0.13 (0.00-0.42)
	50-59	0.11 (0.00-0.32)	0.23 (0.00-0.51)
	60-69	0.22 (0.00-0.53)	0.20 (0.00-0.50)
	70-79	0.28 (0.00-0.65)	0.19 (0.00-0.59)
	80+	0.06 (0.00-0.33)	0.08 (0.00-0.51)
	Overall	0.21 (0.11-0.31)	0.21 (0.08-0.34)
Narcolepsy	0-19	0.88 (0.22-1.49)	0.89 (0.39-1.38)
	20-29	1.99 (1.00-2.99)	1.80 (0.21-3.38)
	30-39	1.73 (1.09-2.37)	2.23 (1.51-2.94)
	40-49	2.07 (0.74-3.40)	2.66 (1.77-3.56)
	50-59	1.63 (0.29-2.98)	1.61 (0.76-2.46)
	60-69	1.52 (0.88-2.17)	1.38 (0.74-2.02)
	70-79	1.23 (0.56-1.89)	1.11 (0.00-2.42)
	80+	1.26 (0.56-1.96)	1.28 (0.35-2.21)
	Overall	1.50 (1.18-1.82)	1.54 (1.18-1.90)
Type 1 Diabetes Mellitus	0-19	25.53 (22.46-28.60)	29.14 (26.26-32.01)
	20-29	25.18 (18.11-32.25)	30.82 (20.34-41.31)
	30-39	26.83 (14.57-39.08)	35.90 (19.99-51.82)
	Overall	25.50 (21.20-29.80)	31.76 (26.54-36.97)
Thrombocytopenia	0-19	23.93 (10.86-36.40)	26.85 (11.59-42.11)
	20-29	48.98 (19.39-78.58)	34.43 (13.21-55.64)
	30-39	70.61 (32.36-108.86)	41.16 (23.25-59.08)
	40-49	50.28 (21.19-79.37)	52.98 (25.72-80.24)
	50-59	68.78 (36.02-101.54)	103.57 (47.33-159.82)
	60-69	108.04 (60.26-155.83)	192.73 (90.04-295.42)
	70-79	160.84 (81.57-240.10)	312.17 (139.05-485.29)

	80+	315.15 (68.80-361.50)	447.69 (167.23-728.14)
	Overall	92.40 (74.79-110.00)	147.17 (123.45-170.89)

ADEM: Acute Disseminated Encephalomyelitis

2. Circulatory system

AESIs	Age group	Female	Male
Disseminated Intravascular Coagulation	0-19	0.59 (0.00-1.25)	1.00 (0.00-2.28)
	20-29	0.17 (0.00-0.51)	0.81 (0.09-1.54)
	30-39	1.00 (0.50-1.51)	0.78 (0.00-1.82)
	40-49	1.50 (0.08-2.92)	1.49 (0.00-3.50)
	50-59	1.50 (0.00-3.82)	3.52 (0.00-7.77)
	60-69	2.89 (0.00-6.39)	5.12 (0.00-12.05)
	70-79	6.62 (0.00-13.61)	10.25 (0.00-22.99)
	80+	7.98 (0.00-16.77)	11.93 (0.00-27.60)
	Overall	1.99 (1.39-2.60)	2.98 (2.23-3.73)
Arterial without TP	0-19	7.08 (2.36-11.80)	6.83 (1.86-11.80)
	20-29	8.29 (6.73-9.85)	9.72 (6.72-12.71)
	30-39	23.27 (18.09-28.46)	40.06 (33.77-46.35)
	40-49	71.50 (52.55-90.45)	177.89 (140.22-215.57)
	50-59	182.01 (133.17-230.84)	525.51 (418.99-632.02)
	60-69	384.45 (276.80-492.11)	940.52 (669.50-1211.54)
	70-79	847.71 (603.91-1091.53)	1570.60 (1109.83-2031.37)
	80+	1919.06 (1289.11-2549.01)	2540.80 (1657.11-3424.50)
	Overall	377.21 (347.95-406.48)	634.06 (597.68-670.44)
Arterial with TP	0-19	0.07 (0.00-0.23)	0.04 (0.00-0.17)
	20-29	0.07 (0.00-0.34)	0.11 (0.00-0.41)
	30-39	0.08 (0.00-0.30)	0.00 (0.00-0.15)
	40-49	0.19 (0.00-0.43)	0.40 (0.00-0.94)
	50-59	0.85 (0.00-1.82)	2.86 (0.00-6.13)
	60-69	1.69 (0.00-4.13)	6.84 (0.00-15.82)
	70-79	6.21 (0.00-13.33)	13.78 (0.00-32.57)
	80+	9.11 (0.00-21.69)	32.22 (0.00-66.73)
	Overall	0.78 (0.42-1.14)	1.73 (1.20-2.25)
VTE	0-19	8.42 (6.56-10.28)	9.26 (7.33-11.18)
	20-29	52.71 (41.33-64.08)	31.58 (25.62-37.55)
	30-39	114.50 (88.34-140.66)	67.67 (60.35-74.78)
	40-49	163.18 (124.85-201.52)	138.64 (119.97-157.31)
	50-59	218.50 (167.47-269.53)	256.36 (233.86-278.86)
	60-69	375.08 (299.99-450.16)	417.74 (383.29-452.19)
	70-79	691.70 (583.62-799.78)	600.21 (543.64-656.77)
	80+	930.17 (821.18-1039.15)	785.79 (629.18-942.39)
	Overall	313.88 (277.73-350.04)	281.22 (249.93-312.52)

VTE without TP	0-19	8.39 (6.49-10.29)	9.00 (7.26-10.74)
	20-29	52.51 (40.95-64.08)	31.42 (25.48-37.35)
	30-39	114.12 (87.85-140.40)	67.37 (60.04-74.71)
	40-49	163.05 (124.04-202.07)	138.01 (119.25-156.77)
	50-59	217.25 (165.98-268.53)	254.61 (232.21-277.00)
	60-69	373.78 (298.60-448.95)	413.65 (380.99-446.30)
	70-79	690.07 (580.87-799.27)	595.15 (541.37-648.93)
	80+	926.42 (819.98-1032.87)	780.74 (627.85-933.63)
	Overall	312.73 (276.74-348.72)	279.11 (248.14-310.08)
VTE with TP	0-19	0.09 (0.00-0.27)	0.37 (0.00-0.87)
	20-29	0.24 (0.00-0.61)	0.22 (0.00-0.57)
	30-39	0.72 (0.00-1.71)	0.56 (0.00-1.30)
	40-49	0.39 (0.00-1.07)	1.01 (0.00-2.33)
	50-59	1.71 (0.29-3.65)	2.94 (0.00-6.85)
	60-69	2.20 (0.29-4.12)	6.67 (0.00-13.41)
	70-79	2.85 (0.00-7.00)	7.96 (0.00-17.70)
	80+	5.50 (0.00-11.50)	7.83 (0.00-17.39)
	Overall	1.03 (0.67-1.39)	1.89 (1.35-2.42)
Mixed arterial/venous thrombosis without TP	0-19	16.97 (10.71-23.22)	9.00 (7.26-10.74)
	20-29	61.54 (48.14-74.93)	31.42 (25.48-37.35)
	30-39	141.45 (112.33-170.56)	67.37 (60.04-74.71)
	40-49	229.28 (193.63-264.94)	138.01 (119.25-156.77)
	50-59	385.20 (342.67-427.73)	254.61 (232.21-277.00)
	60-69	733.62 (665.56-801.68)	413.65 (380.99-446.30)
	70-79	1512.92 (1336.20-1689.65)	595.15 (541.37-648.93)
	80+	2798.34 (2133.64-3463.03)	780.74 (627.85-933.63)
	Overall	716.89 (647.92-785.86)	279.11 (248.14-310.08)
Mixed arterial/venous thrombosis with TP	0-19	0.19 (0.00-0.41)	0.37 (0.00-0.87)
	20-29	0.29 (0.00-0.72)	0.22 (0.00-0.57)
	30-39	0.79 (0.00-1.88)	0.56 (0.00-1.30)
	40-49	0.54 (0.00-1.34)	1.01 (0.00-2.33)
	50-59	2.49 (0.00-5.25)	2.94 (0.00-6.85)
	60-69	3.53 (0.00-7.43)	6.67 (0.00-13.41)
	70-79	9.07 (0.00-19.98)	7.96 (0.00-17.70)
	80+	13.77 (0.00-31.22)	7.83 (0.00-17.39)
	Overall	2.10 (1.49-2.71)	1.89 (1.35-2.42)
CVST	0-19	0.56 (0.03-1.09)	0.60 (0.13-1.08)
	20-29	0.61 (0.00-1.25)	0.46 (0.02-0.90)
	30-39	0.41 (0.00-0.85)	0.51 (0.13-0.89)
	40-49	0.97 (0.52-1.41)	0.55 (0.21-0.89)

	50-59	0.82 (0.39-1.25)	1.27 (0.74-1.79)
	60-69	0.97 (0.03-1.91)	1.15 (0.56-1.75)
	70-79	0.49 (0.04-0.94)	1.11 (0.00-2.38)
	80+	1.08 (0.07-2.10)	1.28 (0.35-2.21)
	Overall	0.67 (0.49-0.85)	0.68 (0.53-0.84)
CVST without TP	0-19	0.56 (0.03-1.09)	0.52 (0.21-0.82)
	20-29	0.61 (0.00-1.25)	0.46 (0.02-0.90)
	30-39	0.41 (0.00-0.85)	0.51 (0.13-0.89)
	40-49	0.97 (0.52-1.41)	0.55 (0.21-0.89)
	50-59	0.82 (0.39-1.25)	1.23 (0.71-1.75)
	60-69	0.83 (0.00-1.70)	1.15 (0.56-1.75)
	70-79	0.38 (0.00-0.80)	1.07 (0.00-2.24)
	80+	0.99 (0.10-1.89)	1.19 (0.29-2.10)
	Overall	0.64 (0.46-0.81)	0.66 (0.51-0.82)
CVST with TP	0-19	0.00 (0.00-0.12)	0.17 (0.00-0.41)
	20-29	0.00 (0.00-0.23)	0.00 (0.00-0.23)
	30-39	0.00 (0.00-0.17)	0.00 (0.00-0.17)
	40-49	0.00 (0.00-0.14)	0.00 (0.00-0.13)
	50-59	0.00 (0.00-0.16)	0.08 (0.00-0.30)
	60-69	0.13 (0.00-0.41)	0.00 (0.00-0.21)
	70-79	0.02 (0.00-0.25)	0.13 (0.00-0.53)
	80+	0.14 (0.00-0.58)	0.23 (0.00-0.94)
	Overall	0.01 (0.00-0.07)	0.03 (0.00-0.11)
Thrombotic microangiopathy	0-19	0.32 (0.00-0.66)	1.14 (0.00-2.32)
	20-29	0.99 (0.39-1.60)	1.04 (0.00-2.40)
	30-39	1.21 (0.66-1.76)	1.44 (0.00-3.03)
	40-49	1.50 (0.86-2.14)	1.99 (0.00-4.31)
	50-59	1.07 (0.21-1.93)	4.24 (0.00-9.21)
	60-69	1.57 (0.92-2.22)	6.03 (0.00-13.83)
	70-79	1.88 (1.09-2.66)	12.20 (0.00-26.76)
	80+	2.13 (0.81-3.45)	12.43 (0.00-30.26)
	Overall	1.18 (0.87-1.50)	3.80 (2.85-4.76)
Hemorrhagic stroke	0-19	2.58 (0.48-4.69)	4.01 (0.73-7.29)
	20-29	2.37 (0.75-3.99)	3.97 (1.21-6.73)
	30-39	5.28 (3.31-7.24)	7.02 (3.27-10.78)
	40-49	11.17 (7.23-15.11)	17.39 (10.20-24.58)
	50-59	21.69 (12.03-33.35)	38.67 (23.15-54.19)
	60-69	39.15 (23.46-54.84)	74.20 (42.44-105.95)
	70-79	100.22 (66.08-134.36)	180.45 (118.98-523.36)
	80+	239.51 (138.29-340.74)	361.26 (199.56-523.36)

	Overall	43.65 (37.43-49.87)	69.60 (61.06-78.13)
Ischemic stroke	0-19	4.83 (2.46-7.19)	4.39 (1.71-7.07)
	20-29	6.48 (5.09-7.87)	4.61 (2.26-6.87)
	30-39	15.75 (10.97-20.53)	16.73 (13.27-20.19)
	40-49	45.28 (31.00-59.55)	64.12 (47.13-81.11)
	50-59	109.96 (71.64-148.27)	207.99 (148.35-267.62)
	60-69	238.87 (165.25-312.50)	441.75 (294.49-589.00)
	70-79	580.62 (408.91-752.32)	893.76 (622.30-1165.22)
	80+	1445.03 (963.33-1926.73)	1663.21 (1087.73-2238.47)
	Overall	266.03 (244.12-287.94)	342.28 (1087.73-2238.69)
SOCV	0-19	22.87 (9.38-36.36)	19.90 (8.07-31.73)
	20-29	8.00 (0.74-15.26)	3.93 (0.00-8.70)
	30-39	8.30 (0.19-16.40)	4.58 (0.00-9.76)
	40-49	9.28 (0.70-17.86)	7.25 (1.38-13.12)
	50-59	15.24 (1.25-29.24)	11.51 (1.15-21.88)
	60-69	19.51 (1.57-37.44)	13.77 (0.00-27.76)
	70-79	24.97 (1.51-48.43)	21.93 (2.05-41.81)
	80+	25.57 (0.00-52.76)	26.26 (0.00-53.94)
	Overall	16.47 (12.16-20.77)	13.26 (10.01-16.51)

CVST: Cerebral Venous Sinus Thrombosis; TP: Thrombocytopenia; VTE: Venous Thromboembolism

3. Cardiovascular system

AESIs	Age group	Female	Male
Microangiopathy	0-19	0.52 (0.00-1.19)	1.14 (0.00-2.32)
	20-29	0.84 (0.00-1.87)	1.04 (0.00-2.40)
	30-39	1.70 (0.14-3.26)	1.44 (0.00-3.03)
	40-49	2.94 (0.49-5.39)	1.99 (0.00-4.31)
	50-59	2.49 (0.00-5.37)	4.24 (0.00-9.21)
	60-69	3.85 (0.00-8.03)	6.03 (0.00-13.83)
	70-79	8.18 (0.04-16.31)	12.20 (0.00-26.76)
	80+	9.64 (0.00-21.37)	12.43 (0.00-30.26)
	Overall	2.94 (2.13-3.76)	3.80 (2.85-4.76)
Heart Failure	0-19	2.93 (0.85-5.01)	2.96 (0.74-5.18)
	20-29	3.16 (0.05-6.27)	4.93 (3.31-6.54)
	30-39	10.14 (4.79-15.48)	15.60 (7.252-23.94)
	40-49	26.97 (14.48-39.49)	57.00 (32.63-81.34)
	50-59	94.96 (57.04-132.87)	195.14 (108.03-282.26)
	60-69	318.22 (204.15-432.28)	544.72 (334.13-755.31)
	70-79	1003.47 (667.84-1339.10)	1436.01 (963.51-1908.52)
	80+	3725.21 (2347.51-5102.91)	4191.25 (2845.65-5536.85)
	Overall	494.23 (471.12-517.33)	579.16 (553.14-605.19)
Stress Cardiomyopathy	0-19	0.04 (0.00-0.18)	0.04 (0.00-0.17)
	20-29	0.00 (0.00-0.21)	0.00 (0.00-0.20)
	30-39	0.16 (0.00-0.42)	0.09 (0.00-0.31)
	40-49	1.53 (0.76-2.29)	0.15 (0.00-0.48)
	50-59	4.51 (2.03-6.99)	1.32 (0.21-2.25)
	60-69	8.62 (4.85-12.38)	1.95 (0.00-4.16)
	70-79	15.18 (6.80-23.56)	4.80 (0.33-9.27)
	80+	16.62 (3.29-29.94)	6.69 (0.91-12.48)
	Overall	3.29 (2.62-3.96)	0.56 (0.29-0.82)

Coronary Artery Disease	0-19	2.02 (0.00-4.05)	2.12 (0.25-3.98)
	20-29	1.61 (0.72-2.50)	4.49 (2.00-6.99)
	30-39	7.56 (5.13-9.99)	23.12 (20.24-26.00)
	40-49	23.50 (18.08-28.92)	112.72 (89.80-135.65)
	50-59	70.52 (55.64-85.40)	322.24 (265.10-379.38)
	60-69	149.66 (108.94-190.39)	517.54 (370.30-664.79)
	70-79	280.98 (192.72-369.24)	709.67 (480.70-938.63)
	80+	511.29 (326.26-696.31)	938.67 (572.51-1304.82)
	Overall	94.78 (86.70-102.86)	256.24 (209.26-269.08)
Myocarditis	0-19	0.54 (0.00-1.11)	2.24 (1.10-3.39)
	20-29	1.16 (0.53-1.79)	9.48 (6.05-12.91)
	30-39	1.46 (0.59-2.34)	6.04 (3.32-8.76)
	40-49	1.16 (0.37-1.94)	4.16 (2.03-6.29)
	50-59	1.98 (0.69-3.26)	3.23 (0.90-5.56)
	60-69	2.59 (1.07-4.11)	5.26 (1.71-8.81)
	70-79	2.95 (1.35-4.55)	5.06 (1.14-8.97)
	80+	1.99 (0.00-4.38)	2.80 (0.00-5.93)
	Overall	1.59 (1.18-2.01)	4.49 (3.56-5.43)
Myocarditis or Pericarditis	0-19	1.88 (1.16-2.61)	11.20 (4.78-17.63)
	20-29	5.60 (4.30-6.90)	39.05 (18.21-59.90)
	30-39	9.15 (3.27-15.03)	33.54 (15.58-51.50)
	40-49	10.07 (4.94-15.20)	28.72 (15.31-42.14)
	50-59	14.39 (8.23-20.54)	29.13 (18.93-39.33)
	60-69	17.16 (10.92-23.40)	36.87 (24.96-48.78)
	70-79	22.50 (13.26-31.75)	40.17 (24.82-55.53)
	80+	22.80 (11.55-34.05)	4.34 (22.19-60.48)
	Overall	11.87 (9.84-13.91)	31.44 (26.98-35.89)
Arrhythmia	0-19	183.82 (145.87-221.76)	178.01 (146.12-209.90)
	20-29	451.35 (338.88-563.83)	342.74 (285.77-399.72)
	30-39	466.71 (371.31-562.12)	356.05 (305.15-406.95)
	40-49	556.99 (451.07-662.90)	504.62 (426.96-582.28)
	50-59	814.11 (645.05-983.17)	931.89 (756.70-1107.09)
	60-69	1413.36 (1118.46-3426.96)	2052.72 (1553.12-2552.33)
	70-79	2777.08 (2127.20-3426.96)	4144.27 (3044.16-5244.38)
	80+	5346.36 (3324.70-7368.01)	7349.09 (1744.53-2131.65)
	Overall	1490.59 (1308.53-1672.65)	1938.09 (1744.53-2131.65)

4. Respiratory system

AESIs	Age group	Female	Male
Acute Respiratory Distress Syndrome	0-19	17.10 (5.85-28.35)	18.67 (8.44-28.90)
	20-29	4.67 (2.21-7.14)	7.68 (5.93-9.43)
	30-39	7.12 (1.64-12.59)	10.33 (6.91-13.75)
	40-49	12.26 (4.41-20.10)	18.32 (7.60-29.05)
	50-59	32.69 (10.09-55.30)	45.83 (14.62-77.04)
	60-69	70.69 (25.83-115.54)	106.44 (30.87-182.01)
	70-79	127.54 (32.63-222.44)	227.31 (54.23-400.40)
	80+	467.15 (82.40-851.90)	555.06 (110.65-999.47)
	Overall	87.88 (73.77-101.99)	114.67 (98.83-130.51)

5. Nerves and central nervous system

AESIs	Age group	Female	Male
Generalized Convulsion	0-19	209.71 (127.03-292.40)	239.80 (142.18-337.43)
	20-29	85.05 (35.60-134.51)	90.08 (43.14-137.01)
	30-39	77.72 (34.73-120.71)	85.76 (40.83-130.69)
	40-49	80.00 (36.32-123.68)	98.20 (49.56-146.68)
	50-59	99.94 (49.19-150.69)	136.42 (69.41-203.43)
	60-69	116.31 (52.68-179.93)	166.43 (73.89-258.97)
	70-79	182.96 (89.66-276.26)	245.41 (109.51-381.31)
	80+	324.55 (126.69-522.42)	367.48 (114.66-620.29)
	Overall	146.27 (119.18-173.36)	177.72 (146.67-208.77)
Meningoencephalitis	0-19	3.33 (1.57-5.09)	4.13 (1.48-6.77)
	20-29	4.83 (3.62-6.04)	3.30 (2.29-4.31)
	30-39	4.31 (0.86-7.76)	4.62 (2.12-7.13)
	40-49	4.90 (1.25-8.55)	4.70 (2.54-6.86)
	50-59	7.17 (4.98-9.36)	8.24 (4.77-11.70)
	60-69	9.19 (2.83-15.56)	13.63 (9.64-17.61)
	70-79	16.72 (7.49-25.95)	16.09 (8.73-23.45)
	80+	17.32 (4.54-30.11)	16.06 (8.04-24.09)
	Overall	7.98 (6.16-9.80)	8.12 (6.45-9.79)
Transverse Myelitis	0-19	0.19 (0.00-0.41)	0.08 (0.00-0.24)
	20-29	0.50 (0.05-0.96)	0.21 (0.00-0.54)
	30-39	0.76 (0.22-1.29)	0.45 (0.09-0.82)
	40-49	0.92 (0.25-1.60)	0.39 (0.09-0.68)
	50-59	0.49 (0.01-0.96)	0.32 (0.00-0.81)
	60-69	0.64 (0.20-1.08)	0.67 (0.00-1.40)
	70-79	0.35 (0.00-0.87)	0.18 (0.00-0.55)
	80+	0.34 (0.00-0.75)	0.37 (0.00-1.22)
	Overall	0.42 (0.29-0.55)	0.22 (0.11-0.33)

6. Skin and mucous membrane system

AESIs	Age group	Female	Male
Chilblain like lesions	0-19	23.09 (4.29-41.88)	12.39 (0.86-23.92)
	20-29	43.46 (2.84-84.09)	15.81 (3.20-28.42)
	30-39	31.74 (1.78-61.69)	10.54 (1.46-19.63)
	40-49	31.20 (0.92-61.47)	11.07 (1.65-20.49)
	50-59	20.59 (1.51-39.67)	14.64 (2.39-26.88)
	60-69	21.30 (2.26-40.35)	14.60 (2.69-26.52)
	70-79	35.90 (3.86-67.94)	22.99 (5.37-40.61)
	80+	42.08 (3.62-80.54)	34.03 (6.65-61.41)
	Overall	31.12 (22.59-39.64)	16.76 (12.68-20.85)
Erythema multiforme	0-19	16.72 (4.50-28.95)	20.04 (9.89-30.20)
	20-29	6.53 (3.27-9.80)	5.48 (2.72-8.17)
	30-39	7.01 (3.07-10.96)	4.45 (1.57-7.33)
	40-49	6.61 (3.23-9.99)	3.93 (1.40-6.46)
	50-59	6.10 (2.18-10.12)	5.55 (1.67-9.42)
	60-69	6.63 (1.06-12.21)	4.95 (0.99-8.91)
	70-79	7.69 (2.32-13.06)	7.58 (3.56-11.60)
	80+	6.96 (0.00-14.48)	11.97 (4.95-18.98)
	Overall	7.89 (5.92-9.86)	7.68 (5.65-9.72)

7. Hepato-gastrointestinal and renal system

AESIs	Age group	Female	Male
Acute Liver Injury	0-19	7.80 (4.99-10.61)	5.26 (2.48-8.04)
	20-29	11.97 (8.30-15.63)	16.48 (11.72-21.23)
	30-39	14.49 (11.32-17.67)	19.80 (17.77-21.82)
	40-49	21.85 (15.31-28.40)	32.34 (23.37-41.32)
	50-59	37.94 (26.74-49.15)	60.84 (30.70-90.98)
	60-69	43.89 (27.36-60.42)	86.00 (41.10-130.89)
	70-79	58.82 (30.40-87.23)	101.29 (40.27-162.30)
	80+	56.74 (11.02-102.27)	88.68 (18.45-158.90)
	Overall	31.58 (26.04-37.12)	50.21 (41.29-59.13)

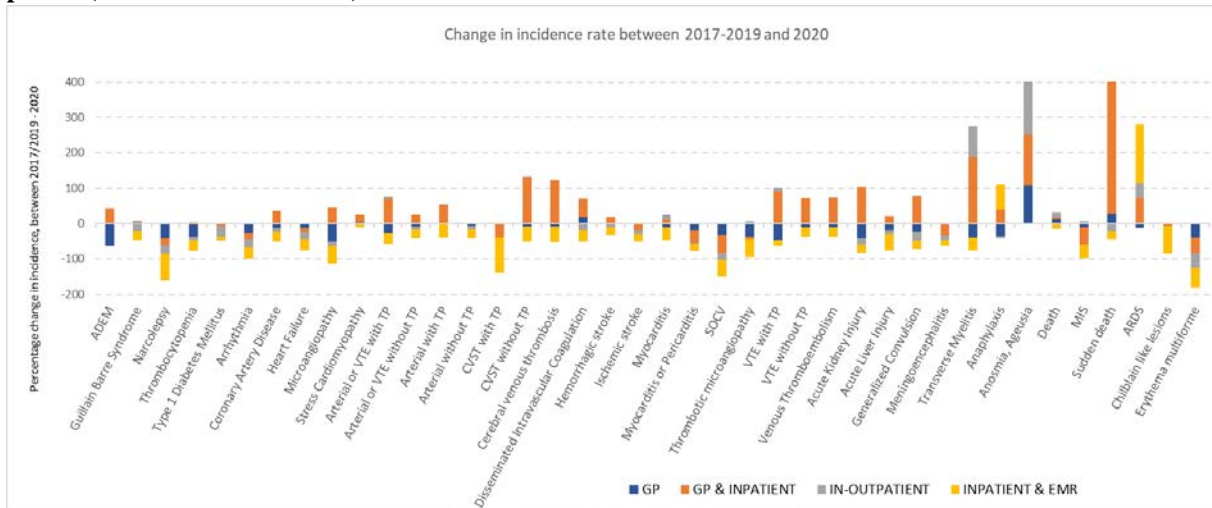
Acute Kidney Injury	0-19	37.12 (18.81-55.43)	23.76 (11.13-36.38)
	20-29	67.92 (25.96-109.88)	33.93 (15.30-52.56)
	30-39	67.07 (27.03-107.11)	53.97 (21.03-86.92)
	40-49	92.45 (33.81-151.09)	105.08 (36.50-173.66)
	50-59	187.61 (73.95-301.27)	306.43 (101.47-511.40)
	60-69	487.78 (183.23-792.33)	871.63 (291.63-1451.63)
	70-79	1354.54 (490.20-2218.88)	2162.32 (686.31-3638.32)
	80+	3733.87 (744.63-6723.11)	4860.15 (1001.93-8718.36)
	Overall	699.55 (643.13-755.98)	926.44 (866.29-986.58)

8. Other system

AESIs	Age group	Female	Male
Anosmia, Ageusia	0-19	2.35 (1.00-3.70)	1.79 (0.74-2.85)
	20-29	9.02 (4.73-13.32)	6.30 (3.42-9.19)
	30-39	15.02 (8.34-21.71)	10.92 (5.36-16.47)
	40-49	22.12 (12.71-31.54)	16.68 (9.62-23.73)
	50-59	37.41 (23.59-51.23)	22.62 (11.63-33.62)
	60-69	40.34 (25.20-55.49)	27.66 (12.66-42.66)
	70-79	39.15 (19.56-58.75)	22.46 (12.50-32.43)
	80+	18.60 (8.72-28.49)	15.60 (8.08-23.12)
	Overall	21.96 (17.82-26.11)	14.72 (11.95-17.50)
Anaphylaxis	0-19	17.26 (10.05-24.48)	25.16 (13.11-37.21)
	20-29	13.26 (2.65-23.80)	11.16 (4.49-17.83)
	30-39	11.99 (2.88-21.10)	7.93 (2.37-13.49)
	40-49	13.56 (4.99-22.14)	12.61 (7.14-18.09)
	50-59	13.92 (6.48-21.37)	12.64 (8.58-16.71)
	60-69	13.47 (6.74-20.20)	15.57 (13.03-18.12)
	70-79	11.21 (4.91-17.33)	12.90 (8.71-17.10)
	80+	7.84 (3.27-12.42)	8.80 (5.26-12.35)
	Overall	12.96 (10.43-15.50)	13.31 (10.73-15.89)
Multisystem Inflammatory Syndrome	0-19	3.08 (0.69-5.46)	5.23 (2.69-7.76)
	20-29	0.51 (0.04-0.98)	0.39 (0.00-1.12)
	30-39	0.34 (0.00-0.97)	0.31 (0.00-0.90)
	40-49	0.28 (0.00-0.80)	0.27 (0.00-0.77)
	50-59	0.30 (0.00-0.68)	0.36 (0.00-1.02)
	60-69	0.21 (0.00-0.61)	0.26 (0.00-0.77)
	70-79	0.21 (0.00-0.62)	0.60 (0.00-1.72)
	80+	0.78 (0.00-2.11)	1.43 (0.00-3.81)
	Overall	0.56 (0.29-84)	0.83 (0.46-1.19)
Death (any causes)	0-19	10.24 (6.77-13.71)	15.19 (9.98-20.40)
	20-29	14.49 (10.30-18.67)	31.33 (27.46-35.20)
	30-39	31.02 (27.00-35.05)	52.61 (43.53-61.69)
	40-49	81.08 (73.26-88.90)	139.37 (120.22-158.52)
	50-59	219.76 (196.62-242.90)	453.43 (391.82-515.05)
	60-69	453.84 (417.02-490.66)	1088.14 (970.08-1206.21)
	70-79	1167.28 (1081.25-1253.31)	2481.12 (2250.09-2712.16)
	80+	7664.66 (6629.84-8699.49)	9398.47 (1526.20-10000.00)
	Overall	1147.16 (1074.96-1219.35)	1619.47 (1526.20-1712.74)
Sudden death	0-19	2.38 (0.08-4.68)	1.69 (0.00-3.56)
	20-29	2.22 (0.00-4.90)	1.40 (0.00-3.13)
	30-39	2.34 (0.11-4.57)	3.32 (0.08-6.56)

	40-49	5.23 (0.94-9.52)	7.17 (1.21-13.22)
	50-59	14.78 (4.28-25.28)	30.07 (11.96-48.19)
	60-69	31.09 (10.38-51.80)	83.98 (37.66-130.30)
	70-79	94.12 (38.98-149.26)	193.75 (86.57-300.93)
	80+	936.56 (443.10-1430.02)	1004.02 (477.93-1530.11)
	Overall	27.43 (23.97-30.88)	30.29 (26.84-33.75)

Figure 3 Percentage change in health care utilization in the pre- versus during the COVID-19 pandemic period (2017-2019 versus 2020)



Only databases with data in 2020 were included. ADEM: Acute Disseminated Encephalomyelitis, ARDS: Acute Respiratory Distress Syndrome, CVST: Cerebral Venous Sinus Thrombosis, DIC: Disseminated Intravascular Coagulation, MIS: Multisystem Inflammatory Syndrome, SOCV: Single Organ Cutaneous Vasculitis, TP: Thrombocytopenia, VTE: Venous Thromboembolism. No data for acute aseptic arthritis because no narrow clinical definition could be developed.