

Supplementary Table 1. Trends in crude, age-standardized ischemic stroke incidence rate per 100,000 person-year by sex, 2010-2019

Sex	Year	Crude Rate per 100,000	Age standardized rate per 100,000 (2005 population of the year of Korea)	Age standardized rate per 100,000 (WHO standard population)
Men	2010	106.7 (105.2, 108.2)	101.0 (99.6,102.4)	106.3 (104.8, 107.8)
	2011	106.7 (105.2, 108.2)	98.4 (97.0,99.7)	103.3 (101.9, 104.8)
	2012	105 (103.5, 106.4)	93.4 (92.1,94.6)	98.2 (96.9, 99.6)
	2013	105.6 (104.1, 107.0)	91.8 (90.5,93.0)	96.6 (95.2, 97.9)
	2014	105.4 (104.0, 106.9)	89.3 (88.0,90.5)	93.8 (92.6, 95.1)
	2015	103.9 (102.5, 105.2)	85.7 (84.6,86.9)	90.1 (88.9, 91.4)
	2016	108.3 (106.9, 109.7)	87.1 (86.0,88.3)	91.5 (90.3, 92.7)
	2017	113.5 (112.1, 115.0)	88.7 (87.6,89.9)	93.3 (92.1, 94.5)
	2018	115.8 (114.4, 117.3)	87.7 (86.6,88.9)	92.4 (91.3, 93.6)
	2019	124.8 (123.3, 126.3)	92.2 (91.1,93.4)	97.1 (95.9, 98.3)
P for trend		0.073	0.040	0.040
Women	2010	90.1 (88.8, 91.5)	67.6 (66.5,68.6)	71.8 (70.8, 72.9)
	2011	90.0 (88.7, 91.3)	65.9 (64.9,66.9)	70.1 (69.0, 71.1)
	2012	86.5 (85.2, 87.8)	61.3 (60.4,62.3)	65.3 (64.3, 66.3)
	2013	84.6 (83.4, 85.9)	58.3 (57.3,59.2)	62.1 (61.2, 63.1)
	2014	85.0 (83.8, 86.3)	56.8 (55.9,57.7)	60.6 (59.6, 61.5)
	2015	83.5 (82.3, 84.7)	54.1 (53.3,55.0)	57.9 (57.1, 58.8)
	2016	83.0 (81.8, 84.3)	52.1 (51.3,53.0)	55.8 (54.9, 56.6)
	2017	85.3 (84.1, 86.6)	52.0 (51.2,52.8)	55.7 (54.8, 56.5)
	2018	85.3 (84.1, 86.5)	50.7 (49.9,51.5)	54.4 (53.5, 55.2)
	2019	93.4 (92.1, 94.7)	55.0 (54.2,55.9)	58.7 (57.8, 59.6)
P for trend		0.431	< 0.001	< 0.001

Supplementary Table 2. Trends in crude ischemic stroke incidence rate per 100,000 person-year of age groups by sex, 2010-2019

	Men						Women							
	20-29	30-39	40-49	50-59	60-69 [†]	70-79	80-	20-29	30-39	40-49	50-59	60-69	70-79	80-
2010	4.2	15.9	55.8	132.9	272.1	478.3	666.1	3.8	10.3	33.8	72.1	170.1	369.9	536.1
2011	4.7	16.7	55.7	128.6	268.7	455.4	624.3	4.3	11.7	32.7	68.8	166.1	353.3	530.2
2012	4.7	16.3	49.8	126.9	250.2	439.7	589.2	4.9	10.9	30.1	68.2	148.9	326.5	492.2
2013	5.2	16.7	49.7	123.5	240.6	435.4	584.1	4.6	10.9	28	63.2	137.2	316.5	486.3
2014	5.8	17.4	49.1	121.6	229.6	418.9	559.4	4.8	11	28.3	59.6	131.2	306.3	488.9
2015	4.6	15.5	48.5	116	221.1	404	547.2	5.9	10.4	24.6	58	122.2	295.9	476.2
2016	3.8	15.8	50.6	124.4	217.3	406.5	551.5	3.2	9.4	25.6	55.9	115.3	287.8	476.4
2017	3.3	16.4	51.4	124.5	226.6	400.8	592.1	3.8	10.3	25.4	54.4	114.8	278.8	492.5
2018	4.6	14.9	49.3	123.6	225.7	395.8	596.6	4.9	11.3	25.1	54	103.7	272.4	484.2
2019	5.3	18.7	50.3	133.9	233.8	411.6	601.1	6.7	11.8	30	60.5	117.2	273.5	502.4
P-for trend	0.788	0.929	0.425	0.531	0.156	0.002	0.531	0.128	0.655	0.025	0.002	< 0.001	< 0.001	0.245

Supplementary Table 3. Trends in age-standardized incidence rate of ischemic stroke per 100,000 person-year according to household income, 2010-2019

	Medical aid beneficiaries	1st	2nd	3rd	4th	5th
2010	126.3 (120.5, 132.0)	89.4 (87.0, 91.8)	91.0 (88.4, 93.6)	86.4 (84.1, 88.6)	86.3 (84.3, 88.2)	84.0 (82.4, 85.5)
2011	121.9 (116.3, 127.5)	87.8 (85.5, 90.1)	88.9 (86.3, 91.4)	88.2 (85.9, 90.5)	82.5 (80.6, 84.4)	80.1 (78.6, 81.6)
2012	118.3 (112.5, 124.2)	84.6 (82.3, 86.8)	84.0 (81.7, 86.4)	82.0 (79.8, 84.1)	79.5 (77.7, 81.4)	74.9 (73.4, 76.3)
2013	118.1 (112.0, 124.2)	80.0 (77.9, 82.0)	82.0 (79.6, 84.3)	80.9 (78.8, 83.0)	78.0 (76.2, 79.8)	71.4 (70.0, 72.7)
2014	114.6 (108.5, 120.7)	77.9 (75.9, 79.9)	80.4 (78.1, 82.6)	78.8 (76.8, 80.8)	74.9 (73.2, 76.6)	70.6 (69.3, 72.0)
2015	109.3 (103.4, 115.1)	74.8 (72.8, 76.7)	76.3 (74.1, 78.5)	75.1 (73.2, 77.1)	71.9 (70.3, 73.5)	68.1 (66.8, 69.5)
2016	105.8 (100.4, 111.1)	76.2 (74.2, 78.1)	77.2 (75.2, 79.3)	75.3 (73.4, 77.3)	70.7 (69.2, 72.3)	66.3 (65.0, 67.6)
2017	119.6 (113.3, 125.9)	75.6 (73.8, 77.5)	76.5 (74.5, 78.6)	76.6 (74.7, 78.4)	71.7 (70.2, 73.3)	67.1 (65.8, 68.4)
2018	119.1 (113.2, 125.1)	75.8 (73.9, 77.6)	76.5 (74.5, 78.6)	73.9 (72.1, 75.7)	69.7 (68.2, 71.2)	65.2 (64.0, 66.5)
2019	128.5 (122.0, 135.0)	82.0 (80.2, 83.8)	78.4 (76.2, 80.5)	77.0 (75.2, 78.9)	76.8 (75.2, 78.4)	68.9 (67.6, 70.2)
P-for trend	0.531	0.025	0.003	0.010	0.003	0.002

Supplementary Table 4. Trends in rate ratio of ischemic stroke incidence rates between medical aid beneficiaries and highest income group

Year	Rate ratio (C.I.)
2010	1.50 (1.43, 1.58)
2011	1.52 (1.45, 1.60)
2012	1.58 (1.50, 1.67)
2013	1.65 (1.57, 1.75)
2014	1.62 (1.53, 1.72)
2015	1.60 (1.52, 1.70)
2016	1.60 (1.51, 1.68)
2017	1.78 (1.68, 1.89)
2018	1.83 (1.73, 1.93)
2019	1.87 (1.77, 1.97)