

SUPPLEMENTAL MATERIAL

Table S1. South Korea's 2018 National Health Insurance Statistics for household insurance premiums by the National Health Insurance Service.

Premium quintile	Number of Households	Average premium: won(dollar)/months	Number of population
Sum	24,748,873	101,606 (93.05)	49,562,166
1st	1,237,443	16,557 (15.16)	1,814,442
2nd	1,237,443	27,037 (24.76)	1,955,041
3rd	1,237,444	33,176 (30.38)	1,976,086
4th	1,237,444	37,291 (34.15)	1,924,347
5th	1,237,444	38,964 (35.68)	1,935,777
6th	1,237,443	41,565 (38.06)	1,928,656
7th	1,237,444	45,693 (41.84)	1,978,637
8th	1,237,444	50,459 (46.21)	2,032,583
9th	1,237,443	56,771 (51.99)	2,100,568
10th	1,237,445	64,946 (59.47)	2,200,270
11th	1,237,443	73,407 (67.22)	2,260,176
12th	1,237,443	83,481 (76.45)	2,388,702
13th	1,237,444	94,238 (86.30)	2,532,407
14th	1,237,444	106,477 (97.51)	2,651,569
15th	1,237,444	121,119 (110.91)	2,834,906
16th	1,237,443	138,802 (127.11)	3,018,399
17th	1,237,444	161,051 (147.48)	3,202,745
18th	1,237,444	190,327 (174.29)	3,480,502

19th	1,237,443	232,961 (213.33)	3,641,281
20th	1,237,444	417,793 (382.59)	3,705,072

Table S2. Baseline characteristics of the study population according to income level, stratified by sex.

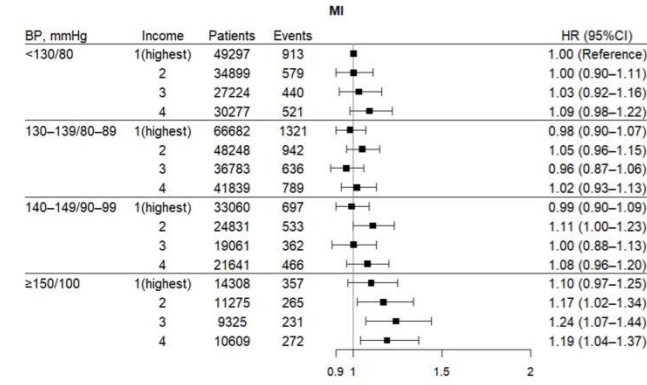
Income	Men				P value	Women				P value
	Q1, highest	Q2	Q3	Q4		Q1, highest	Q2	Q3	Q4	
Number of patients (%)	71570 (34.3)	54005 (25.9)	41624 (20.0)	41176 (21.8)	<0.0001	91777 (44.0)	65248 (31.3)	50769 (24.4)	63190 (30.3)	<0.0001
Age (years)	58 (50-68)	56 (46-66)	56 (46-64)	59 (52-66)	<0.0001	64 (55-70)	60 (54-68)	58 (52-66)	58 (50-66)	<0.0001
Blood pressure (mmHg)					<0.0001					<0.0001
Systolic blood pressure	133.1 ± 12.0	133.8 ± 12.3	134.1 ± 12.6	135.0 ± 12.7		131.9 ± 85.0	131.9 ± 13.2	131.7 ± 13.5	131.8 ± 13.2	
Diastolic blood pressure	82.3 ± 7.8	82.9 ± 8.0	83.1 ± 8.2	83.1 ± 8.1		80.0 ± 7.9	80.5 ± 8.0	80.7 ± 8.1	80.8 ± 8.0	
Smoking (%)					<0.0001					<0.0001
Never	28693 (40.1)	20034 (37.1)	14448 (34.7)	15259 (37.1)		89585 (97.6)	62964 (96.5)	48292 (95.1)	60344 (95.5)	
Past	25418 (35.5)	16927 (31.3)	12336 (29.6)	12056 (29.3)		775 (0.8)	729 (1.1)	741 (1.5)	753 (1.2)	
Current	17459 (24.4)	17044 (31.6)	14840 (35.7)	13861 (33.7)		1417 (1.5)	1555 (2.4)	1736 (3.4)	2093 (3.3)	
Physical activity, times/week (%)					<0.0001					<0.0001
0	29915 (41.8)	24810 (45.9)	19765 (47.5)	20027 (48.6)		54304 (59.2)	40066 (61.4)	31691 (62.4)	39072 (61.8)	
1-2	12637 (17.7)	9725 (18.0)	7471 (17.9)	6599 (16.0)		11256 (12.3)	7823 (12.0)	6411 (12.6)	8070 (12.8)	
3-4	10496 (14.7)	7395 (13.7)	5372 (12.9)	5212 (12.7)		10014 (10.9)	6572 (10.1)	4852 (9.6)	6123 (9.7)	
5-6	7669 (10.7)	5013 (9.3)	3772 (9.1)	3771 (9.2)		7029 (7.7)	4682 (7.2)	3340 (6.6)	4337 (6.9)	
7	10853 (15.2)	7062 (13.1)	5244 (12.6)	5567 (13.5)		9174 (10.0)	6105 (9.4)	4475 (8.8)	5588 (8.8)	
Alcohol consumption, times/week (%)					0.128					<0.0001
0	28836 (40.3)	20942 (38.8)	16099 (38.7)	17103 (41.5)		82425 (89.8)	56870 (87.2)	42655 (84.0)	52806 (83.6)	
<1	13172 (18.4)	9870 (18.3)	7494 (18.0)	6842 (16.6)		5642 (6.1)	4811 (7.4)	4538 (8.9)	6082 (9.6)	
1-2	18969 (26.5)	14679 (27.2)	11601 (27.9)	10934 (26.6)		2721 (3.0)	2672 (4.1)	2679 (5.3)	3348 (5.3)	
3-4	5824 (8.1)	4602 (8.5)	3477 (8.4)	3379 (8.2)		450 (0.5)	428 (0.7)	449 (0.9)	476 (0.8)	
≥5	4769 (6.7)	3912 (7.2)	2953 (7.1)	2918 (7.1)		539 (0.6)	467 (0.7)	448 (0.9)	478 (0.8)	
Body mass index (kg/m ²)	24.9 ± 3.0	25.0 ± 3.2	25.0 ± 3.3	24.8 ± 3.2	<0.0001	24.8 ± 3.3	25.0 ± 3.4	25.0 ± 3.5	24.9 ± 3.5	0.001
<18.5	1010 (1.4)	833 (1.5)	674 (1.6)	746 (1.8)		1626 (1.8)	1171 (1.8)	1012 (2.0)	1227 (1.9)	
18.5–22.9	16584 (23.2)	12832 (23.8)	10558 (25.4)	10851 (26.4)		25728 (28.0)	17389 (26.7)	13750 (27.1)	17403 (27.5)	
23.0–24.9	19703 (27.5)	14246 (26.4)	10728 (25.8)	10792 (26.2)		23171 (25.2)	15786 (24.2)	11970 (23.6)	15376 (24.3)	
≥25.0	34273 (47.9)	26094 (48.3)	19664 (47.2)	18787 (45.6)		41252 (44.9)	30902 (47.4)	24037 (47.3)	29184 (46.2)	
Fasting serum glucose (mg/dL)	107.6 ± 30.0	108.0 ± 33.2	108.4 ± 34.6	110.1 ± 36.5	<0.0001	102.9 ± 26.9	103.5 ± 27.9	103.3 ± 28.0	103.1 ± 28.9	0.228

<100.0	34458 (48.1)	26644 (49.3)	20477 (49.2)	19592 (47.6)		53396 (58.2)	37540 (57.5)	29507 (58.1)	37067 (58.7)	
100.0–125.9	26044 (36.4)	19004 (35.2)	14531 (34.9)	14420 (35.0)		28336 (30.9)	20162 (30.9)	15490 (30.5)	19148 (30.3)	
≥126.0	11068 (15.5)	8357 (15.5)	6616 (15.9)	7164 (17.4)		10045 (10.9)	7546 (11.6)	5772 (11.4)	6975 (11.0)	
Total cholesterol (mg/dL)	189.8 ± 39.0	191.7 ± 42.1	191.2 ± 38.3	190.6 ± 39.9	0.001	201.3 ± 42.0	202.3 ± 43.1	202.2 ± 41.2	202.3 ± 41.1	<0.0001
<200.0	44924 (62.8)	33015 (61.1)	25616 (61.5)	25652 (62.3)		46796 (51.0)	32830 (50.3)	25702 (50.6)	31757 (50.3)	
200.0–239.9	20239 (28.3)	15594 (28.9)	11747 (28.2)	11538 (28.0)		30930 (33.7)	21864 (33.5)	16761 (33.0)	21255 (33.6)	
≥240.0	6407 (9.0)	5396 (10.0)	4261 (10.2)	3986 (9.7)		14051 (15.3)	10554 (16.2)	8306 (16.4)	10178 (16.1)	
Diabetes mellitus (%)	8404 (11.7)	5992 (11.1)	4599 (11.0)	5127 (12.5)	0.020	10445 (11.4)	7405 (11.3)	5408 (10.7)	6038 (9.6)	<0.0001
Aspirin (%)	20624 (28.8)	13804 (25.6)	9931 (23.9)	11029 (26.8)	<0.0001	23359 (25.5)	15753 (24.1)	11643 (22.9)	14300 (22.6)	<0.0001
Statin (%)	9205 (12.9)	6302 (11.7)	4446 (10.7)	4774 (11.6)	<0.0001	14088 (15.4)	9355 (14.3)	6729 (13.3)	8260 (13.1)	<0.0001
Antihypertensive medication (%)	35143 (49.1)	25543 (47.3)	19792 (47.5)	21253 (51.6)	<0.0001	47178 (51.4)	32632	24743 (48.7)	31308 (49.5)	<0.0001

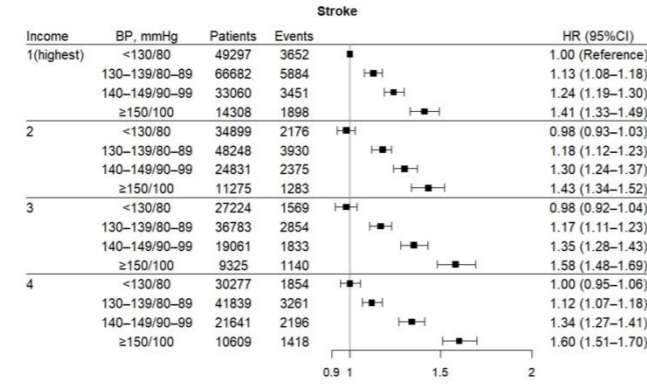
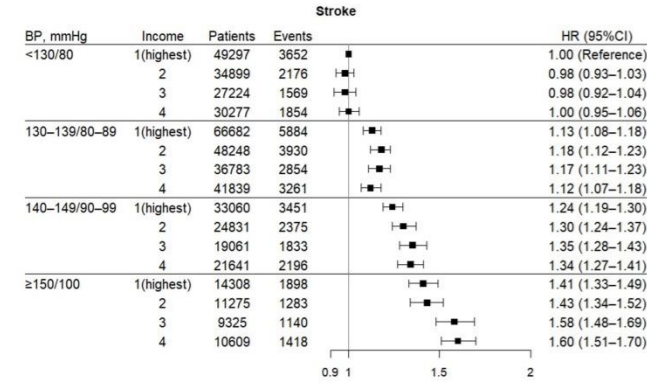
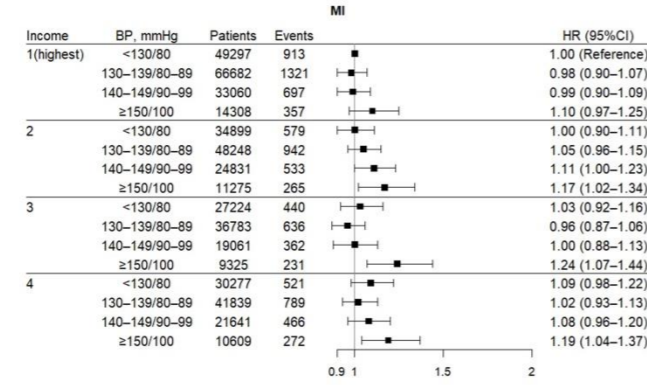
Data are expressed as mean ± standard deviation, median (interquartile range), or number (percentage).

Figure S1. Risk of myocardial infarction and stroke for 16 groups, classified according to income and blood pressure levels.

A



B



A Cox proportional hazard regression model adjusted for age, sex, BP, body mass index (BMI), smoking status, alcohol consumption, physical activity, fasting glucose, total cholesterol, and aspirin or statin use. The X-axis refers to HR (95% CI) and HR itself (not log[HR]) was plotted. HR indicates hazard ratio.