

Supplementary Table 1. Clinical characteristics compared by gender of the study population according to the STOP-BANG score

Characteristic	STOP-BANG score								
	Male				Female				
	0–2	3–4	5–8	<i>p</i> value	0–2	3–4	5–8	<i>p</i> value	
Number	516	1,969	836		3,347	899	83		
Age groups, yr								< 0.001	< 0.001
40–49	66.5 (2.4)	26.8 (1.4)	18.0 (1.6)		35.1 (1.2)	8.5 (1.2)	2.1 (1.5)		
50–59	12.7 (1.6)	33.9 (1.4)	43.1 (2.1)		30.6 (0.9)	29.7 (2.1)	43.6 (6.9)		
60–69	12.2 (1.6)	23.3 (1.1)	25.7 (1.8)		19.9 (0.8)	32.0 (1.8)	34.7 (6.6)		
70–79	6.0 (1.0)	12.3 (0.8)	10.7 (1.0)		10.8 (0.6)	22.8 (1.7)	14.1 (4.0)		
≥ 80	2.6 (0.7)	3.6 (0.4)	2.5 (0.5)		3.7 (0.4)	7.1 (1.0)	5.5 (2.8)		
Educational level								< 0.001	< 0.001
Elementary school or lower	7.4 (1.2)	12.7 (1.0)	9.8 (1.0)		18.8 (0.9)	39.7 (2.0)	33.8 (5.9)		
Middle school	6.8 (1.1)	11.9 (0.9)	12.2 (1.4)		10.6 (0.6)	14.9 (1.4)	14.6 (4.9)		
High school	30.9 (2.4)	35.6 (1.4)	36.5 (2.0)		37.3 (1.1)	30.5 (2.1)	30.3 (5.9)		
College or higher	54.8 (2.6)	39.8 (1.7)	41.5 (2.1)		33.4 (1.3)	14.9 (1.5)	21.3 (5.9)		
Household income								0.016	< 0.001
Quintile 1 (lowest)	8.8 (1.5)	11.1 (0.9)	11.3 (1.2)		12.4 (0.8)	23.3 (1.8)	27.2 (5.5)		
Quintile 2	13.5 (1.7)	16.6 (1.0)	17.2 (1.5)		17.0 (0.8)	24.2 (1.8)	25.6 (6.0)		
Quintile 3	19.4 (2.1)	20.6 (1.1)	20.3 (1.7)		20.6 (0.9)	19.2 (1.6)	14.2 (3.6)		
Quintile 4	31.8 (2.6)	25.3 (1.2)	20.8 (1.6)		24.6 (0.9)	20.8 (1.6)	20.1 (5.8)		
Quintile 5 (highest)	26.6 (2.6)	26.4 (1.5)	30.4 (2.0)		25.4 (1.2)	12.4 (1.3)	12.9 (4.1)		
Region, urban	70.1 (2.9)	70.0 (2.0)	67.1 (2.5)	0.456	72.0 (1.7)	63.4 (2.6)	73.5 (5.9)	< 0.001	
Occupation, yes	85.9 (1.7)	75.8 (1.1)	77.3 (1.7)	< 0.001	53.6 (1.2)	45.4 (2.2)	37.9 (6.4)	< 0.001	
Smoking								< 0.001	0.244
Non	26.7 (2.3)	20.3 (1.0)	18.1 (1.5)		92.4 (0.5)	90.5 (1.2)	90.9 (4.3)		
Former	36.3 (2.4)	48.5 (1.3)	51.3 (2.0)		4.1 (0.4)	4.4 (0.8)	7.4 (4.1)		
Current	37.0 (2.7)	31.2 (1.3)	30.7 (1.8)		3.5 (0.4)	5.1 (0.9)	1.7 (1.7)		
Drinking								0.002	0.046
Non	16.7 (1.8)	20.5 (1.1)	18.9 (1.6)		39.4 (1.0)	46.0 (2.0)	42.3 (6.6)		
Mild to moderate	70.7 (2.2)	63.9 (1.4)	60.5 (2.0)		59.2 (1.0)	52.6 (2.0)	55.9 (6.7)		
Heavy	12.7 (1.7)	15.6 (1.0)	20.6 (1.6)		1.4 (0.2)	1.4 (0.5)	1.8 (1.3)		
Physical activity	39.9 (2.4)	43.9 (1.3)	42.0 (2.0)	0.301	39.4 (1.0)	32.6 (2.0)	24.0 (5.2)	< 0.001	
BMI groups, kg/m ²								< 0.001	< 0.001
< 18.5	6.1 (1.2)	1.6 (0.3)	0.2 (0.1)		3.6 (0.4)	0.2 (0.1)	0.0 (0.0)		
≥ 18.5–< 23	50.5 (2.4)	24.8 (1.2)	10.6 (1.2)		47.3 (1.1)	23.6 (1.7)	8.0 (3.2)		
≥ 23–< 25	22.8 (2.1)	31.4 (1.3)	25.3 (1.7)		23.7 (0.8)	21.6 (1.7)	1.3 (0.8)		
≥ 25–< 30	20.6 (2.0)	39.9 (1.3)	48.2 (2.0)		24.1 (0.9)	38.3 (1.8)	30.2 (6.1)		
≥ 30	0.0 (0.0)	2.3 (0.4)	15.8 (1.5)		1.3 (0.2)	16.4 (1.4)	60.5 (6.5)		
Abdominal obesity	17.8 (1.9)	44.3 (1.2)	65.2 (1.9)	< 0.001	29.3 (1.0)	61.5 (1.9)	89.7 (3.6)	< 0.001	
Diabetes mellitus	7.2 (1.3)	20.4 (1.1)	32.0 (2.2)	< 0.001	11.5 (0.7)	27.9 (1.7)	40.7 (6.1)	< 0.001	
Hypertension	2.5 (0.8)	40.0 (1.3)	72.0 (1.9)	< 0.001	23.2 (0.9)	78.3 (1.7)	88.8 (4.4)	< 0.001	
Hypercholesterolemia	15.8 (1.9)	26.8 (1.2)	37.9 (1.8)	< 0.001	29.7 (1.0)	49.5 (2.0)	49.5 (6.5)	< 0.001	
CKD	0.5 (0.2)	3.9 (0.5)	4.1 (0.8)	< 0.001	1.9 (0.3)	5.3 (0.9)	9.7 (3.8)	< 0.001	

Supplementary Table 1. Continued

Characteristic	STOP-BANG score							
	Male				Female			
	0-2	3-4	5-8	<i>p</i> value	0-2	3-4	5-8	<i>p</i> value
Age, yr	50.9 ± 0.5	57.4 ± 0.3	57.8 ± 0.4	< 0.001	56.0 ± 0.3	63.2 ± 0.5	61.5 ± 1.2	< 0.001
Height, cm	170.8 ± 0.3	170.0 ± 0.2	170.0 ± 0.2	0.065	157.4 ± 0.1	155.2 ± 0.2	157.4 ± 0.7	< 0.001
Weight, kg	82.6 ± 0.4	89.0 ± 0.2	94.0 ± 0.4	< 0.001	80.4 ± 0.2	88.3 ± 0.4	97.9 ± 1.3	< 0.001
BMI, kg/m ²	22.7 ± 0.1	24.6 ± 0.1	26.6 ± 0.1	< 0.001	23.2 ± 0.1	26.0 ± 0.2	30.1 ± 0.5	< 0.001
Waist circumference, cm	82.6 ± 0.4	89.0 ± 0.2	94.0 ± 0.4	< 0.001	80.4 ± 0.2	88.3 ± 0.4	97.9 ± 1.3	< 0.001
Fasting glucose, mg/dL	100.1 ± 0.9	107.5 ± 0.7	112.2 ± 1.3	< 0.001	99.1 ± 0.4	106.0 ± 0.8	111.0 ± 3.6	< 0.001
Systolic BP, mmHg	115.1 ± 0.6	122.4 ± 0.4	127.3 ± 0.6	< 0.001	117.6 ± 0.4	131.3 ± 0.8	130.6 ± 1.8	< 0.001
Diastolic BP, mmHg	75.8 ± 0.4	78.8 ± 0.3	81.9 ± 0.5	< 0.001	74.5 ± 0.2	77.6 ± 0.4	81.0 ± 1.2	< 0.001
Total cholesterol, mg/dL	195.1 ± 1.8	191.1 ± 1.0	189.4 ± 1.8	0.065	199.6 ± 0.9	189.4 ± 1.5	190.8 ± 5.3	< 0.001
LDL-C, mg/dL	117.7 ± 1.7	113.6 ± 0.9	111.2 ± 1.6	0.016	121.2 ± 0.8	112.4 ± 1.3	111.9 ± 4.9	< 0.001
HDL-C, mg/dL	49.7 ± 0.6	46.9 ± 0.3	46.4 ± 0.4	< 0.001	56.0 ± 0.3	52.0 ± 0.5	48.3 ± 1.2	< 0.001
eGFR, mL/min/1.73 m ²	96.2 ± 0.8	90.4 ± 0.5	90.0 ± 0.8	< 0.001	97.2 ± 0.5	91.9 ± 0.9	92.7 ± 2.9	< 0.001

Values are presented as percentage (standard error) or mean ± standard error.

BMI, body mass index; CKD, chronic kidney disease; BP, blood pressure; LDL-C, low-density lipoprotein cholesterol; HDL-C, high-density lipoprotein cholesterol; eGFR, estimated glomerular filtration rate.