

Supplementary Materials

Table S1. Baseline characteristics of the subjects based on BMI and metabolic syndrome

Variables	Underweight			Normal weight		Obesity		
	Total	MetS	P	MetS (MONW)	P	MetS (MOO)	P	P <sup>#</sup>
N (%)	5556	4		968		4584		
Men (N, %)	3813	1		415		3397		
Women (N, %)	1743	3		553		1187		
Age (yrs)	50.6±14.6	64.0±18.8		61.3±14.0	**	54.3±14.2		
BMI (kg/m <sup>2</sup> )	24.5±3.5	17.6±1.0		23.6±1.3	**	28.3±2.4	**	**
Height (cm)	166.8±8.0	159.6±5.4		164.1±9.2	**	168.0±8.4		**
WC (cm)	84.7±10.3	86.0±6.3		87.9±5.4	**	95.6±7.0	**	*
W/H ratio	0.5±0.1	0.5±0.03		0.5±0.03	**	0.6±0.04		**
SBP (mmHg)	122.8±19.0	132.8±18.3		134.0±19.0	**	133.7±17.0	**	**
DBP (mmHg)	77.0±9.0	75.3±13.1	*	78.5±8.8	*	82.1±9.5	**	**
FG (mmol/L)	5.4±1.2	5.4±0.6		6.0±1.7	**	6.1±1.6	**	**
TC (mmol/L)	5.3±1.0	5.7±1.3		5.6±1.1	**	5.5±1.1	**	**
TG (mmol/L)	1.7±1.4	2.6±1.3	**	2.2±1.4	**	2.7±2.1	**	**
HDL-C (mmol/L)	1.4±0.3	1.3±0.3		1.2±0.3	**	1.2±0.2	**	
LDL-C (mmol/L)	2.9±0.7	3.1±0.6		3.1±0.8	*	3.1±0.7	**	*
UAC(umol/l)	307.7±88.1	356.3±133.2	*	312.8±84.2		353.1±85.8	**	
ALT (U/L)	23.9±18.2	18.3±16.6	*	23.4±15.3	**	31.7±21.8	**	**
AST(U/L)	24.2±9.8	23.0±3.4		25.0±8.9	*	27.2±10.5	**	
SUN (mmol/L)	4.9±1.3	4.1±1.2		5.2±1.5	*	5.2±1.3	**	**
CR (umol/L)	72.3±15.2	60.5±9.0		70.0±17.5	*	75.6±16.0		

<sup>0</sup>MetS: metabolic syndrome.

<sup>1</sup>Data are mean± SD or number (percentage, %).

<sup>2</sup>Under weight<18.5 kg/m<sup>2</sup>; Normal weight: 18.5 ≤ BMI < 25 kg/m<sup>2</sup>; Obesity: BMI ≥25 kg/m<sup>2</sup>.

<sup>3</sup>Non-MetS, non-metabolic syndrome; MetS, metabolic syndrome; BMI, body mass index; WC, waist circumference; W/H; weight/ height ratio; SBP, systolic blood pressure; DBP, diastolic blood pressure; FG, fasting glucose; TC, total cholesterol; HDL-C, high-density lipoprotein cholesterol; LDL-C, low-density lipoprotein cholesterol; UAC, uric acid; ALT, Alanine aminotransferase; AST, aspartate aminotransferase; SUN, serum urea nitrogen; CR, creatinine

<sup>4</sup>P: difference of each risk factor between the Non-MetS and MetS subgroups.

<sup>5</sup>P#: difference of each risk factor between the MONW and MHO subgroups.

<sup>6</sup>\*P< 0.05 and \*\*P< 0.01.

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**Table S2. Baseline characteristics of the subjects based on gender, BMI and MetS**

Variables	Under weight (n=731, 3.3%)				Normal Weight (n=11884, 53.1%)								Obesity (n=9761, 43.6%)									
	Non-MetS		MetS		Non-MetS (MHNW)		MetS (MONW)		Non-MetS (MHO)		MetS (MOO)		Non-MetS (MHO)		MetS (MOO)		P <sup>1</sup>	P <sup>2</sup>	P <sup>3</sup>	P <sup>4</sup>		
	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women						
<b>N (%)</b>	184 (99.50%)	543 (99.40%)	1 (0.50%)	3 (0.60%)	5684 (25.4%)	5232 (23.4%)	415 (1.90%)	553 (2.5%)	4066 (18.2%)	1111 (5.0%)	3397 (15.2%)	1187 (5.3%)										
<b>BMI (kg/m<sup>2</sup>)</b>	17.58±0.8	17.50±0.9	17.6±1.0	17.60±1.2	22.72±1.6	21.66±1.7	23.87±1.1	23.33±1.4	** **	** **	** **	** **	26.99±1.9	26.96±1.9	28.41±2.4	27.88±2.4	** **	** **				
<b>Height (cm)</b>	170.71±6.9	162.13±5.8	166.3±2.6	157.37±3.7	170.85±6.1	160.60±5.4	172.01±6.3	158.18±56.0	** **	** **			170.83±6.0	159.13±6.0	171.56±6.0	157.95±5.7						*
<b>WC (cm)</b>	71.86±5.9	66.49±5.2	94±3.8	83.33±4.2	82.58±5.5	74.23±6.0	92.671±2.7	84.31±4.0	** **	** **	** **	** **	91.09±6.1	84.86±6.8	97.57±5.9	89.97±6.6					** **	** **
<b>W/H ratio</b>	0.42±0.03	0.41±0.03	0.57±0.02	0.53±0.02	0.48±0.03	0.46±0.04	0.54±0.02	0.53±0.03	** **	** **	** **	** **	0.54±0.04	0.53±0.1	0.57±0.04	0.57±0.1					** **	** **
<b>SBP (mmHg)</b>	119.05±19.2	108.90±14.8	127±18.6	134.67±22.0	121.79±16.0	113.73±15.0	134.47±19.0	133.60±19.0	** **	** **	** **		123.59±14.6	119.78±36.5	132.99±16.3	135.54±18.6	** *	*	*	**	**	**
<b>DBP (mmHg)</b>	73.68±7.9	69.97±6.8	91±7.5	70.00±9.5	76.28±8.1	72.57±7.7	79.82±9.3	77.50±8.2	**		*	*	78.82±8.1	75.41±7.7	83.05±9.6	79.49±8.8	** *	*			**	**
<b>FG (mmol/L)</b>	5.15±0.7	4.85±0.5	5.6±0.5	5.27±0.7	5.33±1.2	5.02±0.6	6.11±1.6	5.87±1.7	** **	** **	** **		5.30±1.0	5.13±0.5	6.09±1.6	6.04±1.5	** **	** **	**		**	**
<b>TC (mmol/L)</b>	4.96±1.0	4.97±0.9	5.44±1.4	5.80±1.5	5.16±1.0	5.17±1.0	5.40±1.1	5.72±1.1	** **	** **	*		2.97±0.7	2.95±0.7	3.08±0.7	3.15±0.8	** *	*	*	*	*	*
<b>TG (mmol/L)</b>	0.95±0.4	0.87±0.5	2.07±1.4	2.72±1.5	1.48±1.1	1.13±0.6	2.31±1.7	2.14±1.0	** **	** **	** **	** **	5.24±0.9	5.45±1.0	5.45±1.1	5.69±1.1	** **	** **	** **	*	*	*
<b>HDL-C (mmol/L)</b>	1.63±0.3	1.75±0.3	1.4±0.3	1.20±0.4	1.34±0.3	1.58±0.3	1.16±0.3	1.28±0.3	*	**	**		1.72±1.2	1.33±0.6	2.85±2.2	2.22±1.4	** **	** **	** **	**	**	**
<b>LDL-C (mmol/L)</b>	2.43±0.7	2.34±0.6	3.1±0.6	3.06±0.7	2.80±0.7	2.63±0.7	2.98±0.7	3.12±0.8			*		1.25±0.2	1.47±0.3	1.11±0.2	1.28±0.3	*			**	**	**
<b>UAC(umol/l)</b>	296.17±61.9	217.06±51.5	353±96.2	357.33±163.1	329.48±72.1	229.75±56.9	355.36±80.6	280.79±72.0	*	**	**	*	351.12±72.2	258.14±61.7	373.86±79.9	293.52±73.4	** **	** **	** **	** **	** **	** **
<b>ALT (U/L)</b>	16.72±6.4	14.03±8.2	43±12.4	10.00±2.7	22.78±16.3	16.33±11.1	26.63±16.4	20.98±14.0	** **	** **	*		29.36±21.6	19.98±11.6	34.18±22.8	24.79±16.8	** **	** **	** **	** **	** **	** **
<b>AST(U/L)</b>	22.84±5.6	21.09±5.3	24±5.4	22.67±4.1	23.81±12.3	21.60±6.9	25.59±9.4	24.57±8.6	** **	** **			25.29±8.6	23.00±6.4	27.75±10.7	25.80±9.6	** **	** **	** **	*	*	*

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SUN	5.28±1.4	4.16±1.1	5.63±0.4	3.55±0.8	**	5.17±1.3	4.33±1.1	5.46±1.4	4.92±1.5	*	**	**	5.17±1.2	4.62±1.2	5.29±1.3	5.03±1.4	**	**			
(mmol/l)																					
CR (umol/l)	76.35±11.0	58.80±10.3	74±2.2	56.00±1.0	*	79.96±12.0	59.05±8.6	80.56±15.4	62.12±14.6	**	**	**	*	80.47±11.2	59.72±8.8	80.42±14.0	61.86±12.7	**	**	**	*

<sup>0</sup> MetS: metabolic syndrome; Non-MetS, non-metabolic syndrome.

<sup>1</sup> Under weight < 18.5 kg/m<sup>2</sup>; Normal weight: 18.5 ≤ BMI < 25 kg/m<sup>2</sup>; Obesity: BMI ≥ 25 kg/m<sup>2</sup>

<sup>2</sup> BMI, body mass index; WC, waist circumference; W/H, weight/ height ratio; SBP, systolic blood pressure; DBP, diastolic blood pressure; FG, fasting glucose; TC, total cholesterol; HDL-C, high-density lipoprotein cholesterol; LDL-C, low-density lipoprotein cholesterol; UAC, uric acid; ALT, Alanine aminotransferase; AST, aspartate aminotransferase; SUN, serum urea nitrogen; CR, creatinine

<sup>3</sup>  $P^1$  represents the difference of each risk factor for men between Non-MetS and MetS subgroup.

<sup>4</sup>  $P^2$  represents the difference of each risk factor for women between Non-MetS and MetS subgroup.

<sup>5</sup>  $P^3$  represents the difference of each risk factor between men and women in Non-MetS subgroup.

<sup>6</sup>  $P^4$  represents the difference of each risk factor between men and women in MetS subgroup.

<sup>7</sup> \*  $P < 0.05$  and \*\*  $P < 0.01$ .

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**Table S3. Baseline characteristics of the subjects based on gender, BMI among the MetS**

Variables	Underweight				MONW				MOO										
	Men	Women	<i>P</i> <sup>1</sup>	<i>P</i> <sup>2</sup>	<i>P</i> <sup>3</sup>	<i>P</i> <sup>4</sup>	Men	Women	<i>P</i> <sup>1</sup>	<i>P</i> <sup>2</sup>	<i>P</i> <sup>3</sup>	<i>P</i> <sup>4</sup>	Men	Women	<i>P</i> <sup>1</sup>	<i>P</i> <sup>2</sup>	<i>P</i> <sup>3</sup>	<i>P</i> <sup>4</sup>	
N (%)	1 (0.50%)	3 (0.60%)					415 (1.90%)	553 (2.5%)					3397 (15.2%)	1187 (5.3%)					
BMI (kg/m <sup>2</sup> )	17.6±1.0	17.60±1.2					23.87±1.1	23.33±1.4	**	**	**	**	28.41±2.4	27.88±2.4	**	**			
Height (cm)	166.3±2.6	157.37±3.7			*		172.01±6.3	158.18±56.0		**	**		171.56±6.0	157.95±5.7					*
WC (cm)	94±3.8	83.33±4.2					92.671±2.7	84.31±4.0	**	**	**	**	97.57±5.9	89.97±6.6			**	**	
W/H ratio	0.57±0.01	0.53±0.02					0.54±0.02	0.53±0.03	**	**	**	**	0.57±0.04	0.57±0.1			**	**	
SBP (mmHg)	127±18.6	134.67±22.0			*		134.47±19.0	133.60±19.0	**	**	**		132.99±16.3	135.54±18.6	**	*	*	**	
DBP (mmHg)	91±7.5	70.00±9.5					79.82±9.3	77.50±8.2	**		*	*	83.05±9.6	79.49±8.8	**	*		**	
FG (mmol/L)	5.6±0.5	5.27±0.7					6.11±1.6	5.87±1.7	**	**	**		6.09±1.6	6.04±1.5	**	**	**		
TC (mmol/L)	5.44±1.4	5.80±1.5					5.40±1.1	5.72±1.1		**	**	*	3.08±0.7	3.15±0.8	**	*	*	*	
TG (mmol/L)	2.07±1.4	2.72±1.5		**			2.31±1.7	2.14±1.0	**	**	**	**	5.45±1.1	5.69±1.1	**	**	**	*	
HDL-C (mmol/L)	1.4±0.3	1.20±0.4					1.16±0.3	1.28±0.3	*	**	**		2.85±2.2	2.22±1.4	**	**	**	**	
LDL-C (mmol/L)	3.1±0.6	3.06±0.7					2.98±0.7	3.12±0.8		*			1.11±0.2	1.28±0.3	*		**	**	
UAC(umol/l)	353±96.2	357.33±163.1		**	*		355.36±80.6	280.79±72.0	*	**	**	*	373.86±79.9	293.52±73.4	**	**	**	**	
ALT (U/L)	43±12.4	10.00±2.7					26.63±16.4	20.98±14.0		**	**	*	34.18±22.8	24.79±16.8	**	**	**	**	
AST(U/L)	24±5.4	22.67±4.1					25.59±9.4	24.57±8.6		**	**		27.75±10.7	25.80±9.6	**	**	**	*	
SUN (mmol/L)	5.63±0.4	3.55±0.8			**		5.46±1.4	4.92±1.5	*	**	**		5.29±1.3	5.03±1.4	**	**			
CR (umol/L)	74±2.2	56.00±1.0			*		80.56±15.4	62.12±14.6	**	**	**	*	80.42±14.0	61.86±12.7	**	**	**	*	

<sup>0</sup> MetS: metabolic syndrome; Non-MetS, non-metabolic syndrome.

<sup>1</sup> Under weight < 18.5 kg/m<sup>2</sup>; Normal weight: 18.5 ≤ BMI < 25 kg/m<sup>2</sup>; Obesity: BMI ≥ 25 kg/m<sup>2</sup>

<sup>2</sup> BMI, body mass index; WC, waist circumference; W/H; weight/ height ratio; SBP, systolic blood pressure; DBP, diastolic blood pressure; FG, fasting glucose; TC, total cholesterol; HDL-C, high-density lipoprotein cholesterol; LDL-C, low-density lipoprotein cholesterol; UAC, uric acid; ALT, Alanine aminotransferase; AST, aspartate aminotransferase; SUN, serum urea nitrogen; CR, creatinine

<sup>3</sup> *P*<sup>1</sup> represents the difference of each risk factor for men between Non-MetS and MetS subgroup.

<sup>4</sup> *P*<sup>2</sup> represents the difference of each risk factor for women between Non-MetS and MetS subgroup.

<sup>5</sup> *P*<sup>3</sup> represents the difference of each risk factor between men and women in Non-MetS subgroup.

<sup>6</sup> *P*<sup>4</sup> represents the difference of each risk factor between men and women in MetS subgroup.

<sup>7</sup> \**P* < 0.05 and \*\**P* < 0.01.

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**Table S4. Baseline characteristics of the subjects based on gender, age and MetS**

Variables	Non-MetS		MetS						Non-MetS		MetS						Non-MetS		MetS					
	≤39 yr (n=7159, 32.0%)				40-59 yr (n=9698, 43.3%)				≥ 60 yr (n=5519, 34.7%)															
	Men	Women	Men	Women	<i>P</i> <sub>1</sub>	<i>P</i> <sub>2</sub>	<i>P</i> <sub>3</sub>	<i>P</i> <sub>4</sub>	Men	Women	Men	Women	<i>P</i> <sub>1</sub>	<i>P</i> <sub>2</sub>	<i>P</i> <sub>3</sub>	<i>P</i> <sub>4</sub>	Men	Women	Men	Women	<i>P</i> <sub>1</sub>	<i>P</i> <sub>2</sub>	<i>P</i> <sub>3</sub>	<i>P</i> <sub>4</sub>
N (%)	3586 (16%)	2789 (12.5%)	685 (3.1%)	99 (0.4%)					3918 (17.5%)	3091 (13.8%)	1951 (8.7%)	738 (3.3%)					2430 (10.9%)	1006 (4.5%)	1177 (5.0%)	906 (4.0%)				
BMI (kg/m <sup>2</sup> )	24.3±3.0	21.1±2.7	28.7±2.9	26.5±3.0			*		24.9±2.6	22.9±2.8	28.1±2.6	26.6±3.1			*		23.7±2.8	22.9±3.1	27.2±2.5	26.2±3.0	*		*	*
Height (cm)	173.1±5.8	162.1±5.5	174.3±5.7	162.2±5.0			*		171.1±5.4	160.5±5.0	172.6±5.5	160.23±5.4			*		167.1±5.8	156.0±5.7	168.4±5.8	155.8±5.2		*		*
WC (cm)	84.9±7.5	72.4±7.0	96.9±6.2	86.7±6.0	*		*		87.0±6.8	76.8±7.1	97.0±5.8	87.13±6.2	*		*		85.5±7.8	78.7±8.1	97.2±5.91	89.2±6.5	*	*		*
W/H ratio	0.5±0.04	0.5±0.04	0.6±0.04	0.54±0.04	*	*			0.5±0.04	0.5±0.1	0.6±0.1	0.5±0.04	*	*			0.5±0.1	0.5±0.1	0.6±0.04	0.8±0.04	*	*	*	*
SBP (mmHg)	117.4±11.1	108.2±10.4	127.8±12.7	118.9±12.3	*	*	*		120.5±13.6	115.1±12.4	130.6±15.6	129.7±17.3	*	*	*		133.3±18.4	128.9±18.8	140.5±17.9	141.0±18.2				
DBP (mmHg)	76.1±7.3	71.0±6.7	83.4±9.2	78.1±7.0	*	*	*		78.7±8.4	73.9±8.0	84.6±9.3	81.2±9.1	*	*	*		76.8±8.8	74.5±7.8	79.1±9.3	77.0±8.0	*		*	*
FG (mmol/L)	5.0±0.6	4.8±0.4	5.6±1.3	5.5±1.1	*	*	*		5.4±1.1	5.1±0.6	6.2±1.7	5.9±1.7	*	*	*		5.7±1.5	5.3±0.8	6.3±1.6	6.1±1.6	*	*	*	*
TC (mmol/L)	5.0±0.9	4.7±0.8	5.4±1.0	4.8±1.9	*		*		5.3±0.9	5.4±1.0	5.5±1.1	5.7±1.1	*		*		5.3±1.0	5.9±1.0	5.3±1.1	5.8±1.2	*	*		*
TG (mmol/L)	1.5±1.2	0.9±0.4	3.2±2.4	2.1±0.9	*	*	*	*	1.7±1.1	1.2±0.6	3.1±2.4	2.4±1.5	*	*	*	*	1.4±0.7	1.5±0.7	2.0±1.2	2.1±1.2	*	*		*
HDL-C (mmol/L)	1.3±0.3	1.6±0.3	1.1±0.2	1.2±0.2	*	*	*		1.3±0.3	1.6±0.3	1.1±0.2	1.3±0.2	*	*	*		1.4±0.3	1.6±0.3	1.2±0.2	1.3±0.3	*	*	*	*
LDL-C (mmol/L)	2.8±0.7	2.3±0.6	3.2±0.7	2.7±0.7	*	*	*		3.0±0.7	2.8±0.7	3.2±0.7	3.2±0.7	*	*	*		2.8±0.7	3.0±0.7	2.9±0.7	3.2±0.8	*	*	*	*
UAC(umol/l)	338.6±70.2	223.6±51.4	387.2±81.0	273.8±66.3	*	*	*	*	335.4±68.8	232.2±56.1	369.8±76.4	276.4±64.7	*	*	*	*	340.2±82.5	263.8±71.9	366.2±84.6	302.1±78.4			*	*
ALT (U/L)	28.0±21.7	14.7±9.4	45.6±29.0	21.7±17.5	*	*	*	*	26.4±19.0	18.3±12.7	34.3±21.1	26.4±17.7	*	*	*	*	19.86±11.62	17.45±9.34	24.74±15.08	21.45±13.93	*	*	*	*
AST (U/L)	24.4±9.1	20.4±5.4	30.2±12.6	23.3±8.5	*	*	*	*	24.9±13.6	22.5±7.6	27.9±10.6	26.0±9.3	*	*	*	*	23.66±7.69	23.31±6.78	25.33±8.60	25.14±9.34	*	*	*	*
SUN	4.9±1.1	4.0±0.9	4.9±1.1	4.0±0.9	*	*	*		5.1±1.1	4.5±1.1	5.2±1.2	4.6±1.1	*	*	*		5.64±1.43	5.16±1.19	5.70±1.48	5.38±1.58	*	*		*

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Supplementary Data

(mmol/l)						*							*					*	*		
CR	79.31±9.	57.49±7.	78.71±10.	57.21±8.	*	*	*	79.31±10.	59.13±8.	78.88±13.	58.94±9.	*	*	*	82.56±15.	63.75±11.	84.02±16.	64.88±15.	*	*	*
(umol/l)	3	34	10	65		*		28	33	11	82		*		78	45	98	31	*	*	*

<sup>1</sup> Data are mean±SD or number (percentage, %).

<sup>2</sup> Non-MetS, non-metabolic syndrome; MetS, metabolic syndrome; BMI, body mass index; WC, waist circumference; W/H, weight/ height ratio; SBP, systolic blood pressure; DBP, diastolic blood pressure; FG, fasting glucose; TC, total cholesterol; HDL-C, high-density lipoprotein cholesterol; LDL-C, low-density lipoprotein cholesterol; UAC, uric acid; ALT, Alanine aminotransferase; AST, aspartate aminotransferase; SUN, serum urea nitrogen; CR, creatinine.

<sup>3</sup>  $P^1$  represents the difference of each risk factor for men between Non-MetS and MetS subgroups.

<sup>4</sup>  $P^2$  represents the difference of each risk factor for women between Non-MetS and MetS subgroups.

<sup>5</sup>  $P^3$  represents the difference of each risk factor for Men and Women in Non-MetS subgroups.

<sup>6</sup>  $P^4$  represents the difference of each risk factor for Men and Women in MetS subgroups.

<sup>7</sup> \* $P$ < 0.05 and \*\* $P$ < 0.01.

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**Table S5. Baseline characteristics of the subjects based on gender, age and MetS**

Variables	≤39 yrs				40-59 yrs				≥ 60 yrs									
	Men	Women	<i>P</i> <sup>1</sup>	<i>P</i> <sup>2</sup>	<i>P</i> <sup>3</sup>	<i>P</i> <sup>4</sup>	Men	Women	<i>P</i> <sup>1</sup>	<i>P</i> <sup>2</sup>	<i>P</i> <sup>3</sup>	<i>P</i> <sup>4</sup>	Men	Women	<i>P</i> <sup>1</sup>	<i>P</i> <sup>2</sup>	<i>P</i> <sup>3</sup>	<i>P</i> <sup>4</sup>
N (%)	685 (3.1%)	99 (0.4%)					1951 (8.7%)	738 (3.3%)					1177 (5.0%)	906 (4.0%)				
BMI (kg/m <sup>2</sup> )	28.7±2.9	26.5±3.0			**		28.1±2.6	26.6±3.1			**		27.2±2.5	26.2±3.0	*		**	**
Height (cm)	174.3±5.7	162.2±5.05			**		172.6±5.5	160.23±5.4			**		168.4±5.8	155.8±5.2		*		*
WC (cm)	96.9±6.2	86.7±6.0	**		*		97.0±5.8	87.13±6.2	**		*		97.2±5.91	89.2±6.5	**	**		**
W/H ratio	0.6±0.04	0.54±0.04	**	*			0.6±0.1	0.5±0.04	**	*			0.6±0.04	0.8±0.04	**	**	**	**
SBP (mmHg)	127.8±12.7	118.9±12.3	**	*	*		130.6±15.6	129.7±17.3	**	*	*		140.5±17.9	141.0±18.2				
DBP (mmHg)	83.4±9.2	78.1±7.0	**				84.6±9.3	81.2±9.1	**				79.1±9.3	77.0±8.0	*		**	**
FG (mmol/L)	5.6±1.3	5.5±1.1	**	**	**		6.2±1.7	5.9±1.7	**	**	**		6.3±1.6	6.1±1.6	**	**	**	
TC (mmol/L)	5.4±1.0	4.8±1.9	*		**		5.5±1.1	5.7±1.1	*		**		5.3±1.1	5.8±1.2	*	*		*
TG (mmol/L)	3.2±2.4	2.1±0.9	**	**	**	**	3.1±2.4	2.4±1.5	**	**	**	**	2.0±1.2	2.1±1.2	**	**		*
HDL-C (mmol/L)	1.1±0.2	1.2±0.2	**	**	**		1.1±0.2	1.3±0.2	**	**	**		1.2±0.2	1.3±0.3	**	**	**	*
LDL-C (mmol/L)	3.2±0.7	2.7±0.7		*	**		3.2±0.7	3.2±0.7		*	**		2.9±0.7	3.2±0.8	*	*	**	*
UAC (umol/l)	387.2±81.0	273.8±66.3	**	**	**	*	369.8±76.4	276.4±64.7	**	**	**	*	366.2±84.6	302.1±78.4			**	*
ALT (U/L)	45.6±29.0	21.7±17.5	**	**	**	**	34.3±21.1	26.4±17.7	**	**	**	**	24.74±15.08	21.45±13.93	**	**	*	
AST (U/L)	30.2±12.6	23.3±8.5	**	**	**	*	27.9±10.6	26.0±9.3	**	**	**	*	25.33±8.60	25.14±9.34	**	**		
SUN (mmol/L)	4.9±1.1	4.0±0.9			**	*	5.2±1.2	4.6±1.1			**	*	5.70±1.48	5.38±1.58		**	**	
CR (umol/L)	78.71±10.10	57.21±8.65	*	*	**		78.88±13.11	58.94±9.82	*	*	**		84.02±16.98	64.88±15.31		**	**	**

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<sup>2</sup> Non-MetS, non-metabolic syndrome; MetS, metabolic syndrome; BMI, body mass index; WC, waist circumference; W/H; weight/ height ratio; SBP, systolic blood pressure; DBP, diastolic blood pressure; FG, fasting glucose; TC, total cholesterol; HDL-C, high-density lipoprotein cholesterol; LDL-C, low-density lipoprotein cholesterol; UAC, uric acid; ALT, Alanine aminotransferase; AST, aspartate aminotransferase; SUN, serum urea nitrogen; CR, creatinine.

<sup>3</sup> *P*<sup>1</sup> represents the difference of each risk factor for men between Non-MetS and MetS subgroups.

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<sup>5</sup> *P*<sup>3</sup> represents the difference of each risk factor for Men and Women in Non-MetS subgroups.

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