

Supplementary Table 1: Partial correlation coefficients among anthropometric indicators and biochemical indicators (adjusted for age and sex).

Variables	BMI-WHO	WHtR	BMI	TMI
WHtR	0.853 [*]			
BMI	0.953 [*]	0.883 [*]		
TMI	0.936 [*]	0.882 [*]	0.961 [*]	
SBP	0.334 [*]	0.273 [*]	0.330 [*]	0.275 [*]
DBP	0.157 [*]	0.136 [*]	0.140 [*]	0.136 [*]
TC	0.053	0.089 [†]	0.066 [‡]	0.068 [‡]
TG	0.272 [*]	0.325 [*]	0.283 [*]	0.261 [*]
HDL-C	-0.302 [*]	-0.322 [*]	-0.313 [*]	-0.288 [*]
LDL-C	0.213 [*]	0.259 [*]	0.228 [*]	0.230 [*]
FPG	0.064 [‡]	0.086 [†]	0.054 [‡]	0.042

BMI:Body mass index;DBP: Diastolic blood pressure;FPG:Fasting plasma glucose;HDL-C:High-densitylipoprotein cholesterol;LDL-C:Low-densitylipoprotein cholesterol;SBP:Systolic blood pressure; TC:Totalcholesterol;TG:Triglyceride;TMI:Tri-ponderal mass index; WHtR:Waist-to-height ratio.

^{*} $P < 0.001$; [†] $P < 0.01$; [‡] $P < 0.05$.

Supplementary Table 2: Association between BMI, TMI and each CMRF in each age group.

CMRFs	BMI			TMI		
	Model 1	Model 2	Model 3	Model 1	Model 2	Model 3
Hypertension						
3-6-year-old	1.31 (1.18, 1.45) *	1.28 (1.15, 1.42) *	1.17 (1.03, 1.33) ‡	1.21 (1.08, 1.35) †	1.33 (1.17, 1.51) *	1.21 (1.04, 1.41) ‡
7-12-year-old	1.08 (1.04, 1.13) *	1.14 (1.09, 1.19) *	1.13 (1.06, 1.19) *	1.20 (1.12, 1.29) *	1.21 (1.13, 1.30) *	1.17 (1.08, 1.28) *
13-17-year-old	1.21 (1.15, 1.27) *	1.21 (1.14, 1.27) *	1.15 (1.07, 1.24) *	1.33 (1.22, 1.44) *	1.35 (1.24, 1.47) *	1.26 (1.11, 1.42) *
Dyslipidemia						
3-6-year-old	1.08 (0.96, 1.21)	1.05 (0.94, 1.18)	1.08 (0.92, 1.26)	1.06 (0.92, 1.23)	1.09 (0.95, 1.26)	1.14 (0.94, 1.37)
7-12-year-old	1.04 (1.00, 1.09)	1.05 (1.00, 1.10)	1.04 (0.98, 1.10)	1.06 (0.99, 1.14)	1.07 (1.00, 1.15)	1.07 (0.98, 1.17)
13-17-year-old	1.11 (1.06, 1.16) *	1.12 (1.06, 1.17) *	1.15 (1.07, 1.23) *	1.20 (1.11, 1.30) *	1.20 (1.10, 1.29) *	1.25 (1.11, 1.41) *
IFG						
3-6-year-old	1.14 (0.67, 1.94)	1.32 (0.38, 4.66)	-	1.62 (0.90, 2.92)	2.83 (0.24, 34.04)	-
7-12-year-old	1.08 (0.99, 1.18)	1.01 (0.92, 1.11)	0.97 (0.85, 1.09)	0.97 (0.83, 1.14)	0.98 (0.84, 1.15)	0.93 (0.77, 1.13)
13-17-year-old	0.99 (0.93, 1.05)	0.99 (0.94, 1.05)	0.98 (0.90, 1.07)	0.98 (0.89, 1.07)	0.98 (0.89, 1.08)	0.95 (0.81, 1.10)
Abdominal Obesity						

3-6-year-old	3.10 (2.47, 3.89) *	3.69 (2.83, 4.80) *	3.89 (2.87, 5.27) *	2.64 (2.17, 3.22) *	2.85 (2.29, 3.54) *	3.14 (2.41, 4.08) *
7-12-year-old	2.29 (2.00, 2.63) *	3.05 (2.51, 3.71) *	3.62 (2.68, 4.90) *	3.05 (2.56, 3.64) *	3.11 (2.59, 3.72) *	3.45 (2.68, 4.43) *
13-17-year-old	2.37 (2.00, 2.80) *	2.49 (2.08, 2.97) *	2.84 (2.12, 3.81) *	3.39 (2.70, 4.25) *	3.53 (2.79, 4.47) *	4.20 (2.87, 6.13) *
Clustered CMRFs						
3-6-year-old	1.60 (1.26, 2.03) *	1.65 (1.25, 2.16) *	-	1.76 (1.30, 2.38) *	1.77 (1.29, 2.42) *	-
7-12-year-old	1.31 (1.18, 1.45) *	1.39 (1.23, 1.56) *	1.53 (1.27, 1.84) *	1.56 (1.32, 1.85) *	1.57 (1.32, 1.87) *	1.76 (1.37, 2.26) *
13-17-year-old	1.23 (1.15, 1.32) *	1.24 (1.16, 1.33) *	1.25 (1.11, 1.41) *	1.37 (1.22, 1.54) *	1.40 (1.24, 1.57) *	1.42 (1.16, 1.73) †

Model1:crude model;Model2:adjusted for age and sex; Model3:adjusted for age,sex,ethnic groups,socialeconomic status,passive smoking and family history of hypertension.CMRFs: Cardio-metabolic risk factors; IFG:Impaired fasting glucose;Clustered CMRFs:Satisfy three or more of the four items of hypertension,dyslipidemia,impaired fasting glucose,and abdominal obesity.* $P < 0.001$;† $P < 0.01$;‡ $P < 0.05$.

Supplementary Table 3: The FPRs, FNRs and TRs of identifying CMRFs by four indicators in different age groups when setting overweight or obesity as thresholds.

(1) Setting overweight as thresholds

Variables	3-6-year-old				7-12-year-old				13-17-year-old				3-17-year-old		
	FPR	FNR	TR	P-value	FPR	FNR	TR (95% CI)	P-value	FPR	FNR	TR	P-value	FPR	FNR	TR
	(95%	(95%	(95%		(95%	(95%			(95%	(95%	(95%		(95%	(95%	
	CI)	CI)	CI)		CI)	CI)			CI)	CI)	CI)		CI)	CI)	
Hypertension															
BMI-WHO	11.8 (8.6, 15.6)	78.2	26.4	Ref	13.6	73.9	32.9 (29.2, 36.7)	Ref	10.0	55.9	19.5	Ref			
		(68.9,	(22.5,		(10.5,	(67.3,			(7.2,	(45.7	(16.2				
		85.8)	30.8)		17.2)	79.8)			13.4)	, ,					
BMI-Chin a	17.9	62.4	27.7	0.71	35.8	43.3	38.2 (34.4, 42.1)	0.053	28.1	33.3	29.2	<0.001*			
	(14.1,	(52.2,	(23.7,		(31.3,	(36.4,			(23.7	(24.3	(25.2				
	22.3)	71.8)	32.1)		40.5)	50.5)			, , ,						
									32.9)	42.4)	33.5)				

										63.4	19.8	
	12.0	78.2	26.6		11.8	79.8			8.5	(53.2	(16.4	
BMI	(8.86,	(68.9,	(22.7,	< 0.001	(8.9,	(73.6,	33.5 (29.9,	0.858	(5.9,	, ,	, ,	0.975
	15.9)	85.8)	31.0)	*	15.2)	85.1)	37.3)		11.7)	72.7)	23.7)	
										60.8	21.3	
	9.0 (6.2,	78.2	24.2		12.0	75.9	32.4 (28.8,		11.0	(50.6	(17.8	
TMI	12.4)	(68.9,	(20.4,	0.494	(9.1,	(69.4,	36.2)	0.905	(8.1,	, ,	, ,	0.538
		85.8)	28.5)		15.4)	81.6)			14.5)	70.3)	25.2)	
Dyslipidemia												
	16.9	80.0	29.1		16.8	80.3			13.5	67.7	24.2	
BMI-WHO	(11.9,	(65.4,	(23.4,	Ref	(13.5,	(73.0,	32.1 (28.5,	Ref	(10.3	(57.4	(20.5	Ref
	23.1)	90.4)	35.4)		20.4)	86.3)	35.9)		, ,	, ,	, ,	
									17.3)	76.9)	28.3)	
	24.4	66.7	32.5		39.2	48.7			32.4	48.5	35.6	
BMI-Chin	(18.4,	(51.0,	(26.6,	0.483	(34.8,	(40.5,	41.5 (37.6,	<0.001*	(27.8	(38.2	(31.4	<0.001*
a	31.1)	80.0)	38.9)		43.7)	56.9)	45.5)		, ,	, ,	, ,	
									37.3)	58.8)	40.0)	

										75.0	24.3	
	15.9	77.8	27.8		13.6	82.9			11.8			
BMI	(11.0,	(62.9,	(4.4,	0.838	(10.7,	(76.0,	30.4 (26.8,	0.543	(8.8,	(65.1	(20.6	1
	21.9)	88.8)	11.6)		17.0)	88.5)	34.2)		15.4)	,	,	
										83.3)	28.4)	
	15.3	77.8	27.4		15.3	82.9			13.5	70.1	24.7	
TMI	(10.5,	(62.9,	(21.8,	0.758	(12.2,	(76.0,	31.6 (28.0,	0.903	(10.3	(60.0	(21.0	0.896
	21.3)	88.8)	33.6)		18.9)	88.5)	35.5)		,	,	,	
									17.3)	79.0)	28.9)	
IFG												
	17.2	0	(0,		17.4	80.8			17.3	83.1	26.8	
BMI-WHO	(12.6,	97.5)	(12.6,	Ref	(14.5,	(60.6,	20.0 (17.0,	Ref	(13.8	(72.3	(23.0	Ref
	22.6)		22.7)		20.7)	93.4)	23.4)		,	,	,	
									21.2)	91.0)	31.1)	
	25.8	0	(0,		42.1	57.7			36.1	63.4	40.1	
BMI-Chin	(20.3,	97.5)	(11.5,	0.032	(38.1,	(36.9,	42.8 (38.9,	<0.001*	(31.5	(51.1	(35.7	<0.001*
a	31.9)		21.3)		46.2)	76.6)	46.7)		,	,	,	
									40.9)	74.5)	44.6)	

										15.2	90.1	26.1	
	17.2	100	17.5		14.6	88.5				(11.9	(80.7	(22.3	
BMI	(12.6,	(2.5,	(13.0,	1	(11.9,	(69.8,	17.6 (14.8,	0.313		,	,	,	0.858
	22.6)	100)	23.1)		17.7)	97.6)	20.9)			19.0)	95.9)	30.3)	
										17.2	85.9	27.2	
	16.3	0 (0,	16.2		15.6	80.8	18.3 (15.4,			(13.7	(75.6	(23.3	
TMI	(11.8,	97.5)	(11.9,	0.901	(12.8,	(60.6,	21.6)	0.474		,	,	,	0.958
	21.7)		21.7)		18.7)	93.4)				21.2)	93.0)	31.4)	
Abdominal obesity													
											41.0		
	3.3 (1.7,	56.9	17.8		0.7 (0.1,	44.1	14.0 (11.4,			0.6	(32.7	12.0	
BMI-WHO	5.9)	(47.7,	(14.5,	Ref	2.0)	(37.0,	17.0)	Ref		(0.07	,	(9.3,	Ref
		65.8)	21.7)			51.4)				, 2.0)	49.7)	15.3)	
	7.3 (4.7,	36.6	15.2		18.1					13.0	5.0	10.8	
BMI-Chin	10.6)	(28.1,	(12.1,	0.326	(14.7,	2.6 (0.8,	13.4 (10.9,	0.807		(9.7,	(2.0,	(8.2,	0.608
a		45.7)	18.9)		22.1)	5.9)	16.3)			16.9)	10.1)	13.9)	
BMI	2.4 (1.0,	53.7	16.3	0.597	0.2 (0,	53.3	16.5 (13.8,	0.242		0.6	51.1	14.9	0.215

	4.7)	(44.4,	(13.1,		1.3)	(46.1,	19.7)			(0,	(42.5	(11.9				
		62.7)	20.1)			60.5)				2.0)	,	,				
											59.6)	18.4)				
											51.1	14.9				
TMI	2.4	(1.0,	53.7	16.3	0.597	0.2	(0,	53.3	16.5	(13.8,	0.242	0.6	(42.5	(11.9	0.215	
	4.7)		(44.4,	(13.1,		1.3)		(46.1,	19.7)			(0,	,	,		
			62.7)	20.1)				60.5)				2.0)	,	,		
													59.6)	18.4)		
Clustered CMRFs																
	16.1	16.7	16.1		15.9	35.0						13.4	32.4	14.8		
BMI-WHO	(11.5,	(0.4,	(11.7,	Ref	(13.1,	(15.4,	16.5	(13.8,	Ref	(10.4	(17.4	(11.8	Ref	15.1	31.7	15.8
	21.5)	64.1)	21.6)		19.1)	59.2)	19.7)			,	,	,		(13.2,	(20.3,	(13.9,
														17.1)	45.0)	17.9)
										16.9)	50.5)	18.3)				
	25.0	16.7	24.8		40.2					32.1		30.5				
BMI-Chin	(19.5,	(0.4,	(19.4,	0.028 [‡]	(36.3,	0	(0,	39.0	(35.1,	(27.8	8.8	(26.5		34.7	6.7	33.5
a	31.2)	64.1)	31.0)		44.2)	16.8)	42.9)		<0.001*	,	(1.9,		<0.001*	(32.1,	(1.8,	(31.0,
										36.6)	23.7)	34.8)		37.4)	16.2)	36.1)
BMI	15.6	16.7	15.7	1	13.3	50.0	14.5	(11.9,	0.35	11.9	52.9	14.8	1	13.2	48.3	14.8

	(11.3, 21.1)	(0.4, 64.1)	(11.3, 21.1)		(10.7, 16.3)	(27.2, 72.8)	17.5)		(9.1, 15.3)	(35.1, 70.2)	(11.8, 18.4)		(11.4, 15.2)	(35.2, 61.6)	(13.0, 16.8)
	15.6	33.3	16.1		14.1	35.0			14.1	47.1	16.4		14.4	41.7	15.6
TMI	(11.1, 21.1)	(4.3, 77.7)	(11.7, 21.6)	1	(11.5, 17.1)	(15.4, 59.2)	14.8 (12.2, 17.9)	0.438	(11.0, 17.6)	(29.8, 64.9)	(13.2, 20.0)	0.546	(12.5, 16.4)	(29.1, 55.1)	(13.7, 17.7)

(2) Setting obesity as thresholds

Variables	3-6-year-old				7-12-year-old				13-17-year-old				3-17-year-old		
	FPR	FNR	TR	P-value	FPR	FNR	TR	P-value	FPR	FNR	TR	P-value	FPR	FNR	TR
	(95% CI)	(95% CI)	(95% CI)		(95% CI)	(95% CI)	(95% CI)		(95% CI)	(95% CI)	(95% CI)		(95% CI)	(95% CI)	
Hypertension															
BMI-WHO	3.4	89.1	22.3	Ref	2.1	92.6	31.0	Ref	2.3	87.3	19.9	Ref			
	(1.7,	(81.2,	(18.6,		(1.0,	(88.1,	(27.4,		(1.1,	(79.2,	(16.5,				

	5.8)	94.4)	26.4)		3.9)	95.8)	34.8)		4.3)	93.0)	23.7)	
	6.4	78.2	22.3		18.7	63.1	32.9		9.7	53.9	18.9	
BMI-China	(4.1,	(68.9,	(18.6,	1	(15.1,	(56.0,	(29.2,	0.508	(7.0,	(43.8,	(15.6,	0.747
	9.5)	85.8)	26.4)		22.7)	69.7)	36.7)		13.1)	63.8)	22.7)	
	2.2	89.1	21.4		1.8	91.6	30.5		2.3	86.3	19.7	
BMI	(1.0,	(81.3,	(17.8,	0.81	(0.8,	(86.9,	(27.0,	0.903	(1.1,	(78.0,	(16.3,	1
	4.4)	94.4)	25.5)		3.6)	95.0)	34.3)		4.3)	92.3)	23.5)	
	1.4	91.1	21.2		4.6	93.1	32.9		4.6	87.3	21.7	
TMI	(0.5,	(83.8,	(17.6,	0.789	(2.8,	(88.7,	(29.2,	0.508	(2.8,	(79.2,	(18.2,	0.53
	3.2)	95.8)	25.3)		7.0)	96.2)	36.7)		7.2)	93.0)	25.7)	
Dyslipidemia												
	7.4	88.9	23.1		3.6	95.4	25.8		3.3	90.7	20.7	
BMI-WHO	(4.1,	(75.9,	(17.9,	Ref	(2.1,	(90.7,	(22.4,	Ref	(1.8,	(83.1,	(17.2,	Ref
	12.1)	96.3)	29.1)		5.6)	98.1)	29.4)		5.6)	95.7)	24.6)	
	14.3	80.0	26.9		24.3	75.7	36.7		13.8	68.0	28.6	
BMI-China	(9.6,	(65.4,	(21.5,	0.393	(20.5,	(68.0,	(33.0,	<0.001*	(10.5,	(57.8,	(24.7,	0.169
	20.1)	90.4)	33.2)		28.4)	82.2)	40.6)		17.6)	77.1)	32.9)	

	6.3	91.1	22.6		3.8	95.4	25.9		3.1	88.7	20.0	
BMI	(3.3,	(78.8,	(17.6,	1	(2.3,	(90.7,	(22.6,	1	(1.6,	(80.6,	(16.6,	0.834
	10.8)	97.5)	28.7)		5.9)	98.1)	29.6)		5.3)	94.2)	23.9)	
	4.8	91.1	21.4		4.8	92.8	26.1		5.1	88.7	21.7	
TMI	(2.2,	(78.8,	(16.4,	0.739	(3.1,	(87.4,	(22.7,	0.949	(3.1,	(80.6,	(18.2,	0.754
	8.8)	97.5)	27.3)		7.1)	96.3)	29.7)		7.8)	94.2)	25.6)	
IFG												
	8.2	100	8.5		4.0	100	7.9		4.8	97.2	18.2	
BMI-WHO	(5.0,	(2.5,	(5.4,	Ref	(2.6,	(86.8,	(6.0,	Ref	(2.9,	(90.2,	(14.9,	Ref
	12.4)	100)	13.1)		5.9)	100)	10.4)		7.3)	99.7)	22.0)	
	15.5	100	15.8		24.2	73.1	26.2		17.7	84.5	27.4	
BMI-China	(11.1,	(2.5,	(11.5,	0.024 [‡]	(20.8,	(52.2,	(22.9,	<0.001 [*]	(14.2,	(74.0,	(23.5,	<0.001 [*]
	20.7)	100)	21.3)		27.8)	88.4)	29.9)		21.7)	92.0)	31.6)	
	6.9	100	7.3		4.1	100	8.1		5.3	98.6	18.8	
BMI	(4.0,	(2.5,	(4.4,	0.732	(2.7,	(86.8,	(6.2,	1	(3.3,	(92.4,	(15.5,	0.869
	10.9)	100)	11.6)		6.1)	100)	10.6)		7.9)	100)	22.6)	
TMI	5.6	100	6.0	0.373	5.6	100	9.5	0.369	7.2	98.6	20.4	0.418

	(3.0, 9.4)	(2.5, 100)	(3.4, 10.0)		(3.9, 7.8)	(86.8, 100)	(7.4, 12.2)		(4.9, 10.1)	(92.4, 100)	(17.0, 24.4)				
Abdominal obesity															
	1.5	85.4	24.2			87.7	26.9			84.9	24.1				
BMI-WHO	(0.5, 3.5)	(77.9, 91.1)	(20.4, 28.5)	Ref	0 (0, 0.8)	(82.2, 92.0)	(23.5, 30.5)	Ref	0.3 (0, 1.6)	(77.8, 90.4)	(20.5, 28.2)	Ref			
	1.5	67.5	19.4		2.9	26.7	10.2			40.3	11.8				
BMI-China	(0.5, 3.5)	(58.4, 75.6)	(15.9, 23.4)	0.091	(1.6, 5.0)	(20.6, 33.5)	(8.0, 12.9)	<0.001*	0.6 (0, 2.0)	(32.1, 48.9)	(9.1, 15.0)	<0.001*			
	0.9	87.0	24.2		0 (0, 0.8)	87.2	26.7			84.2	23.9				
BMI	(0.2, 2.6)	(79.7, 92.4)	(18.6, 26.4)	1		(81.7, 91.5)	(23.4, 30.4)	1	0.3 (0, 1.6)	(77.0, 89.8)	(20.3, 28.0)	1			
	0.6	90.2	24.9		0 (0, 0.8)	82.6	25.3		0.6	79.1	22.7				
TMI	(0.1, 2.2)	(83.6, 94.9)	(21.0, 29.2)	0.878		(76.5, 87.6)	(22.0, 28.9)	0.566	(0.07, 2.0)	(71.4, 85.6)	(19.1, 26.7)	0.652			
Clustered CMRFs															
BMI-WHO	7.6	66.7	9.1	Ref	3.1	75.0	5.4	Ref	3.5	82.4	9.0	Ref	4.0	78.3	7.3

	(4.5, 11.9)	(22.3, 95.7)	(5.9, 13.8)		(1.9, 4.8)	(50.9, 91.3)	(3.8, 7.5)		(2.0, 5.6)	(65.5, 93.2)	(6.7, 12.0)		(3.0, 5.3)	(65.8, 87.9)	(6.0, 8.9)
	13.8	16.7	13.9		22.7	25.0	22.7		13.8	35.3	15.3		18.0	30.0	18.5
BMI-China	(9.6, 19.1)	(0.4, 64.1)	(9.8, 19.2)	0.144	(19.4, 26.2)	(8.9, 49.1)	(19.6, 26.3)	<0.001*	(10.8, 17.4)	(19.7, 53.5)	(12.3, 18.9)	0.003	(15.9, 20.2)	(18.8, 43.2)	(16.5, 20.7)
	6.3	66.7	7.8		3.3	75.0	5.6		3.5	79.4	8.8		3.9	76.7	7.1
BMI	(3.5, 10.3)	(22.3, 95.7)	(4.8, 12.3)	0.738	(2.0, 5.0)	(50.9, 91.3)	(4.0, 7.7)	1	(2.0, 5.6)	(62.1, 91.3)	(6.5, 11.7)	1	(2.9, 5.1)	(64.0, 86.7)	(5.8, 8.7)
	4.9	66.7	6.5		4.9	80.0	7.3		5.7	85.3	11.2		5.2	81.7	8.6
TMI	(2.5, 8.6)	(22.3, 95.7)	(3.8, 10.7)	0.385	(3.3, 7.0)	(56.3, 94.3)	(5.5, 9.7)	0.204	(3.8, 8.3)	(68.9, 95.0)	(8.7, 14.5)	0.289	(4.1, 6.6)	(70.0, 90.5)	(7.2, 10.3)

Clustered CMRFs: Satisfy three or more of the four items of hypertension, dyslipidemia, impaired fasting glucose, and abdominal obesity; CMRFs:

Cardiometabolic risk factors; FNR: False negative rate; FPR: False positive rate; IFG: Impaired fasting glucose; *P*-value:

compare the TRs among indicators, BMI z score was set as reference; TR: Total misclassification rate; Ref: reference. When overweight is used as the diagnose threshold, division criteria of each anthropometric indicators are as follows: $1 \leq \text{BMI-WHO} < 2$, according to WHO 2007 growth standard; BMI-China: according to age- and sex-specific thresholds of overweight based on 2009 BMI curves for Chinese pediatric population; BMI: 85th age- and gender-specific BMI percentiles $\leq \text{BMI} < 95\text{th}$ age- and gender-specific BMI percentiles; TMI: 85th gender-specific TMI percentiles $\leq$

TMI < 95th gender-specific TMI percentiles. When obesity is used as the diagnose threshold, division criteria of each anthropometric indicators are as follows: BMI-WHO ≥ 2 , according to WHO 2007 growth standard; BMI-China: according to the age- and sex-specific thresholds of obesity based on 2009 BMI curves for Chinese pediatric population; BMI: BMI $\geq$ 95th age- and gender-specific BMI percentiles; TMI: TMI $\geq$ 95th gender-specific TMI percentiles. * $P < 0.001$.

Supplementary Table 4: The ORs and TRs of combined use of TMI and WHtR in identify CMRFs.

Combination of TMI and WHtR	3–6 years			7–12 years			13–17 years			3–17 years		
	OR (95% CI)		TR (95% CI)	OR (95% CI)		TR (95% CI)	OR (95% CI)		TR (95% CI)	OR (95% CI)		TR (95% CI)
Hypertension												
$P_{85} + \text{WHtR}$	2.48	(1.22, 5.06) [‡]	24.5 (20.6, 28.7)	2.42	(1.52, 3.84) [*]	32.2 (28.6, 36.0)	6.60	(3.74, 11.63) [*]	19.5 (16.1, 23.3)	3.25	(2.39, 4.43) [*]	26.0 (23.9, 28.3)
$P_{95} + \text{WHtR}$	9.61	(2.70, 34.13) [*]	21.0 (17.4, 25.0)	1.76	(0.84, 3.67)	32.7 (29.1, 26.5)	4.42	(1.96, 9.96) [*]	20.9 (17.4, 24.8)	3.08	(1.92, 4.96) [*]	25.6 (23.5, 27.9)

Dyslipidemia

$P_{85} + \text{WHtR}$	1.54 3.96)	(0.60, 19.5, 30.9)	24.8 1.30 2.16)	(0.78, 27.0, 34.3)	30.5 2.97 5.25)*	(1.68, 19.5, 27.2)	23.1 1.80 2.54) [†]	(1.27, 24.5, 29.3)	26.8
$P_{95} + \text{WHtR}$	2.40 8.66)	(0.67, 16.0, 26.8)	20.9 1.68 3.59)	(0.79, 22.6, 30.0)	25.9 2.91 6.52) [†]	(1.30, 17.4, 24.8)	20.9 2.16 3.56) [†]	(1.31, 21.0, 25.6)	23.2

IFG

$P_{85} + \text{WHtR}$	-	12.0 (8.2, 17.0)	1.15 3.57)	(0.37, 14.4, 20.4)	17.2 0.57 1.37)	(0.24, 21.4, 29.3)	25.2 0.70 1.40)	(0.35, 17.1, 21.4)	19.2
$P_{95} + \text{WHtR}$	-	5.6 (3.1, 9.5)	-	9.4 (7.3, 12.0)	0.22 1.66)	(0.03, 16.3, 23.5)	19.6 0.15 1.11)	(0.02, 10.7, 14.3)	12.4

Abdominal Obesity

$P_{85} + \text{WHtR}$	76.22	(17.99, 322.99)*	18.9	(15.5, 22.9)	88.83	(31.85, 247.77)*	17.4	(14.6, 20.7)	-	15.2	(12.2, 18.8)	134.12	(58.84, 305.75)*	17.2	(15.4, 19.2)
$P_{95} + \text{WHtR}$	17.34	(3.74, 80.48)*	25.1	(21.2, 29.4)	-		25.5	(22.2, 29.1)	-	22.7	(19.1, 26.7)	104.05	(25.38, 426.49)*	24.5	(22.4, 26.7)

Clustered CMRFs

$P_{85} + \text{WHtR}$	17.39	(2.98, 101.58) [†]	10.9	(7.3, 15.8)	7.97	(3.17, 20.08)*	14.0	(11.4, 17.0)	7.36	(3.51, 15.44)*	13.5	(10.7, 16.9)	8.06	(4.69, 13.85)*	13.3	(11.5, 15.2)
$P_{95} + \text{WHtR}$	11.79	(1.84, 75.67) [†]	6.1	(3.5, 10.2)	4.78	(1.47, 15.56) [†]	7.2	(5.3, 9.5)	3.85	(1.33, 11.15) [‡]	10.4	(7.9, 13.6)	4.42	(2.17, 8.99)*	8.2	(6.8, 9.8)

ORs were calculated after adjusted for age and sex. CMRFs: Cardiometabolic risk factors; IFG: Impaired fasting glucose; Clustered CMRFs: Satisfy three or more of the four items of hypertension, dyslipidemia, impaired fasting glucose, and abdominal obesity; WHtR: Weight-to-height ratio; TR: Total misclassification rate. P_{85} and P_{95} refers to those TMI were higher than sex-specific 85th and 95th percentiles. WHtR refers to those $\text{WHtR} \geq 0.5$. * $P < 0.001$; [†] $P < 0.01$; [‡] $P < 0.05$.