

Supplemental Table S1. Comparison of the association of obesity-related indices with incident hypertension using different logistic regression analysis in male participants

Obesity-related indices	Male ( <i>n</i> = 6899)			Male ( <i>n</i> = 6899)		
	Multivariable <sup>#</sup>			Multivariable <sup>a,b,c</sup>		
	OR	95% confidence interval	<i>p</i>	OR	95% confidence interval	<i>p</i>
BMI (per 1 kg/m <sup>2</sup> )	1.118 <sup>#</sup>	1.095-1.141	< 0.001	1.107 <sup>a</sup>	1.083-1.131	< 0.001
WHR (per 0.01)	1.047 <sup>#</sup>	1.034-1.060	< 0.001	1.038 <sup>a</sup>	1.024-1.051	< 0.001
WHtR (per 0.01)	1.070 <sup>#</sup>	1.056-1.084	< 0.001	1.062 <sup>a</sup>	1.048-1.077	< 0.001
BRI (per 1)	1.217 <sup>#</sup>	1.170-1.266	< 0.001	1.190 <sup>a</sup>	1.141-1.241	< 0.001
CI (per 0.1)	1.324 <sup>#</sup>	1.195-1.467	< 0.001	1.237 <sup>a</sup>	1.112-1.375	< 0.001
BAI (per 1)	1.094 <sup>#</sup>	1.072-1.117	< 0.001	1.084 <sup>a</sup>	1.061-1.107	< 0.001
AVI (per 1)	1.106 <sup>#</sup>	1.082-1.130	< 0.001	1.092 <sup>a</sup>	1.068-1.117	< 0.001
LAP (per 1)	1.006 <sup>#</sup>	1.004-1.008	< 0.001	1.008 <sup>b</sup>	1.005-1.111	< 0.001
VAI (per 1)	1.069 <sup>#</sup>	1.034-1.104	< 0.001	1.084 <sup>c</sup>	1.041-1.128	< 0.001

Values expressed as odds ratio (OR) and 95% confidence interval. Abbreviations are the same as in Table 1.

<sup>#</sup>Covariates in the multivariable model included age, smoking and alcohol history, regular exercise habits, hemoglobin, eGFR and uric acid for BMI, WHR, WHtR, BRI, CI. BAI, AVI, LAP and VAI.

<sup>a</sup>Covariates in the multivariable model included age, diabetes, smoking and alcohol history, regular exercise habits, fasting glucose, hemoglobin,

triglyceride, total cholesterol, HDL-cholesterol, LDL-cholesterol, eGFR and uric acid for BMI, WHR, WHtR, BRI, CI, BAI and AVI.

<sup>b</sup>Covariates in the multivariable model included age, diabetes, smoking and alcohol history, regular exercise habits, fasting glucose, hemoglobin, total cholesterol, HDL-cholesterol, LDL-cholesterol, eGFR and uric acid for LAP.

<sup>c</sup>Covariates in the multivariable model included age, diabetes, smoking and alcohol history, regular exercise habits, fasting glucose, hemoglobin, total cholesterol, LDL-cholesterol, eGFR and uric acid for VAI.

Supplemental Table S2. Comparison of the association of obesity-related indices with incident hypertension using different logistic regression analysis in female participants

Obesity-related indices	Female ( <i>n</i> = 14,567)			Female ( <i>n</i> = 14,567)		
	Multivariable <sup>#</sup>			Multivariable <sup>a,b,c</sup>		
	OR	95% confidence interval	<i>p</i>	OR	95% confidence interval	<i>p</i>
BMI (per 1 kg/m <sup>2</sup> )	1.133 <sup>#</sup>	1.115-1.151	< 0.001	1.119 <sup>a</sup>	1.101-1.137	< 0.001
WHR (per 0.01)	1.035 <sup>#</sup>	1.027-1.044	< 0.001	1.027 <sup>a</sup>	1.018-1.035	< 0.001
WHtR (per 0.01)	1.061 <sup>#</sup>	1.052-1.071	< 0.001	1.053 <sup>a</sup>	1.043-1.062	< 0.001
BRI (per 1)	1.197 <sup>#</sup>	1.164-1.232	< 0.001	1.166 <sup>a</sup>	1.131-1.201	< 0.001
CI (per 0.1)	1.144 <sup>#</sup>	1.076-1.217	< 0.001	1.095 <sup>a</sup>	1.028-1.166	0.005
BAI (per 1)	1.086 <sup>#</sup>	1.071-1.102	< 0.001	1.078 <sup>a</sup>	1.062-1.093	< 0.001
AVI (per 1)	1.108 <sup>#</sup>	1.090-1.128	< 0.001	1.090 <sup>a</sup>	1.071-1.110	< 0.001
LAP (per 1)	1.008 <sup>#</sup>	1.006-1.010	< 0.001	1.010 <sup>b</sup>	1.007-1.013	< 0.001
VAI (per 1)	1.083 <sup>#</sup>	1.053-1.115	< 0.001	1.095 <sup>c</sup>	1.062-1.128	< 0.001

Values expressed as odds ratio (OR) and 95% confidence interval. Abbreviations are the same as in Table 1.

<sup>#</sup>Covariates in the multivariable model included age, smoking and alcohol history, regular exercise habits, hemoglobin, eGFR and uric acid for BMI, WHR, WHtR, BRI, CI. BAI, AVI, LAP and VAI.

<sup>a</sup>Covariates in the multivariable model included age, diabetes, smoking and alcohol history, regular exercise habits, fasting glucose, hemoglobin,

triglyceride, total cholesterol, HDL-cholesterol, LDL-cholesterol, eGFR and uric acid for BMI, WHR, WHtR, BRI, CI. BAI and AVI.

<sup>b</sup>Covariates in the multivariable model included age, diabetes, smoking and alcohol history, regular exercise habits, fasting glucose, hemoglobin, total cholesterol, HDL-cholesterol, LDL-cholesterol, eGFR and uric acid for LAP.

<sup>c</sup>Covariates in the multivariable model included age, diabetes, smoking and alcohol history, regular exercise habits, fasting glucose, hemoglobin, total cholesterol, LDL-cholesterol, eGFR and uric acid for VAI.