

Supplemental Table 1. Sex-stratified area under the curve (AUC, 95% confidence interval) for prediction of major adverse cardiovascular event (MACE), all-cause death, hospitalized acute myocardial infarction (MI), and hospitalized stroke.

Outcome	MACE	Death	Acute MI	Stroke
WOMEN ONLY				
Number of events	12248	10171	2281	2036
Characteristic	AUC (95% CI)	AUC (95% CI)	AUC (95% CI)	AUC (95% CI)
BMI	0.477 (0.471-0.483)	0.464 (0.458-0.470)	0.522 (0.510-0.534)	0.496 (0.484-0.508)
SAD	0.507 (0.502-0.513)	0.495 (0.489-0.501)	0.553 (0.541-0.565)	0.520 (0.507-0.532)
SAD/height	0.526 (0.521-0.532)	0.516 (0.510-0.522)	0.567 (0.555-0.579)	0.536 (0.524-0.548)
SAD/height ²	0.543 (0.537-0.548)	0.534 (0.528-0.54)	0.577 (0.565-0.589)	0.549 (0.537-0.561)
SAD/weight	0.626 (0.620-0.631)	0.634 (0.628-0.64)	0.604 (0.592-0.615)	0.605 (0.593-0.617)
SHD	0.463 (0.457-0.469)	0.450 (0.444-0.456)	0.510 (0.497-0.522)	0.482 (0.469-0.495)
SHD/height	0.488 (0.483-0.494)	0.477 (0.471-0.484)	0.528 (0.516-0.54)	0.505 (0.492-0.517)
SHD/height ²	0.513 (0.507-0.519)	0.504 (0.498-0.510)	0.544 (0.532-0.556)	0.523 (0.510-0.535)
SHD/weight	0.567 (0.561-0.572)	0.578 (0.571-0.584)	0.533 (0.522-0.545)	0.549 (0.537-0.562)
MEN ONLY				
Number of events	2209	1889	460	301
Characteristic	AUC (95% CI)	AUC (95% CI)	AUC (95% CI)	AUC (95% CI)
BMI	0.465 (0.450-0.480)	0.451 (0.436-0.467)	0.520 (0.492-0.547)	0.468 (0.435-0.501)
SAD	0.497 (0.483-0.512)	0.482 (0.467-0.497)	0.545 (0.517-0.572)	0.501 (0.470-0.533)
SAD/height	0.518 (0.503-0.532)	0.506 (0.491-0.521)	0.547 (0.520-0.573)	0.510 (0.479-0.541)
SAD/height ²	0.535 (0.521-0.549)	0.527 (0.512-0.542)	0.547 (0.521-0.573)	0.517 (0.485-0.548)
SAD/weight	0.624 (0.610-0.638)	0.636 (0.621-0.650)	0.550 (0.524-0.576)	0.578 (0.545-0.612)
SHD	0.449 (0.434-0.463)	0.434 (0.418-0.449)	0.512 (0.484-0.540)	0.462 (0.428-0.495)
SHD/height	0.475 (0.460-0.489)	0.463 (0.448-0.479)	0.516 (0.488-0.544)	0.472 (0.439-0.505)
SHD/height ²	0.502 (0.488-0.517)	0.495 (0.480-0.510)	0.520 (0.492-0.547)	0.484 (0.451-0.517)
SHD/weight	0.568 (0.554-0.583)	0.584 (0.569-0.599)	0.500 (0.472-0.528)	0.532 (0.499-0.565)

Largest HR in boldface.

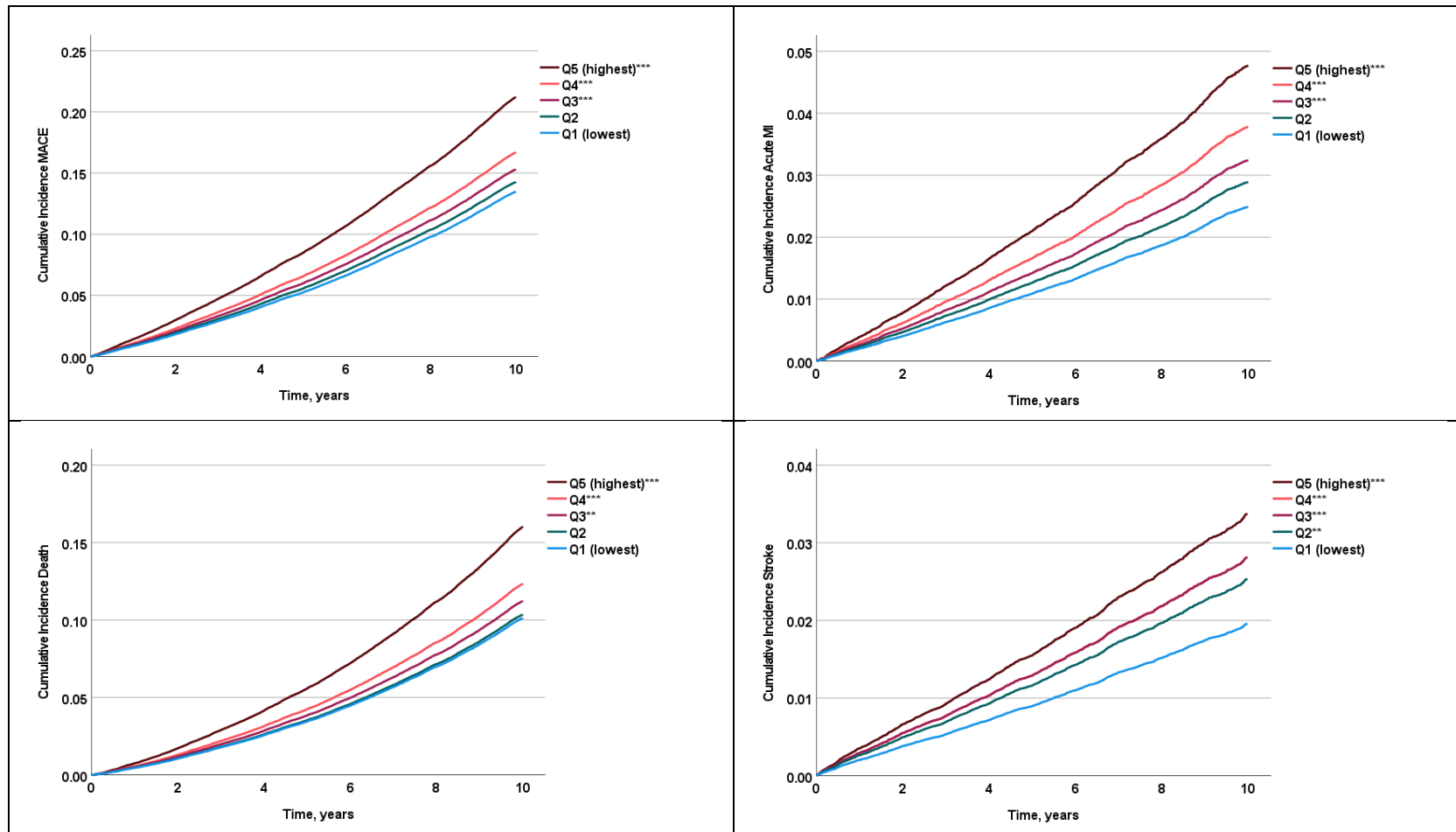
Supplemental Table 2. Fully-adjusted* hazard ratios (HR, 95% confidence interval) according to SAD/weight quintile for prediction of major adverse cardiovascular event (MACE), all-cause death, hospitalized acute myocardial infarction (MI), and hospitalized stroke.

SAD/weight	Fully-adjusted model without BMI		Fully-adjusted model with BMI	
	HR (95% CI)	p-value	HR (95% CI)	p-value
Outcome: MACE				
Quintile 1 (lowest)	Referent		Referent	
Quintile 2	1.04 (0.97-1.12)	0.286	1.06 (0.99-1.14)	0.096
Quintile 3	1.11 (1.04-1.19)	0.003	1.15 (1.07-1.23)	<.001
Quintile 4	1.22 (1.14-1.31)	<0.001	1.26 (1.17-1.35)	<.001
Quintile 5 (highest)	1.61 (1.50-1.72)	<0.001	1.65 (1.53-1.77)	<.001
Outcome: Death				
Quintile 1 (lowest)	Referent		Referent	
Quintile 2	1.01 (0.93-1.10)	0.828	1.02 (0.94-1.11)	0.584
Quintile 3	1.10 (1.01-1.19)	0.026	1.12 (1.03-1.21)	0.009
Quintile 4	1.22 (1.13-1.32)	<.001	1.23 (1.14-1.34)	<.001
Quintile 5 (highest)	1.65 (1.53-1.79)	<.001	1.64 (1.51-1.78)	<.001
Outcome: Acute MI				
Quintile 1 (lowest)	Referent		Referent	
Quintile 2	1.10 (0.94-1.29)	0.235	1.16 (0.99-1.36)	0.059
Quintile 3	1.19 (1.02-1.39)	0.023	1.31 (1.12-1.53)	<.001
Quintile 4	1.36 (1.17-1.58)	<.001	1.53 (1.31-1.79)	<.001
Quintile 5 (highest)	1.66 (1.43-1.92)	<.001	1.94 (1.66-2.27)	<.001
Outcome: Stroke				
Quintile 1 (lowest)	Referent		Referent	
Quintile 2	1.28 (1.07-1.52)	0.007	1.30 (1.09-1.55)	0.004
Quintile 3	1.41 (1.18-1.67)	<.001	1.44 (1.21-1.72)	<.001
Quintile 4	1.40 (1.18-1.66)	<.001	1.44 (1.21-1.72)	<.001
Quintile 5 (highest)	1.67 (1.41-1.98)	<.001	1.74 (1.45-2.08)	<.001

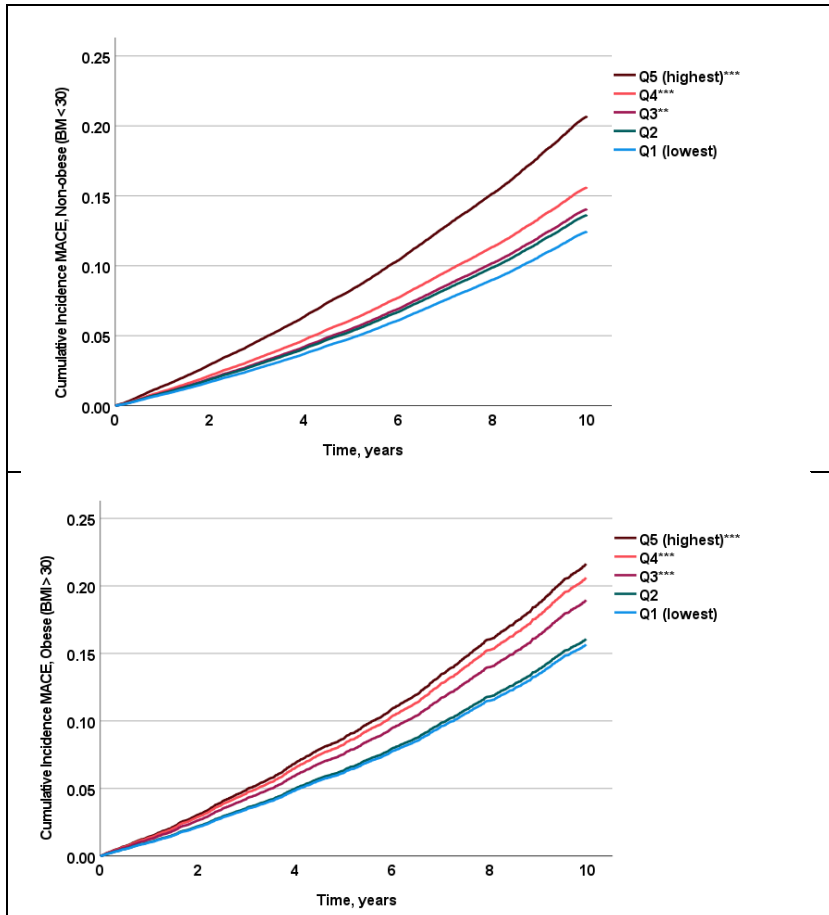
Outcome: MACE, Women		
Quintile 1 (lowest)	Referent	
Quintile 2	1.04 (0.97-1.12)	0.286
Quintile 3	1.11 (1.04-1.19)	0.003
Quintile 4	1.22 (1.14-1.31)	<.001
Quintile 5 (highest)	1.61 (1.50-1.72)	<.001
Outcome: MACE, Men		
Quintile 1 (lowest)	Referent	
Quintile 2	1.13 (0.99-1.30)	0.069
Quintile 3	1.17 (1.01-1.34)	0.035
Quintile 4	1.26 (1.08-1.46)	0.003
Quintile 5 (highest)	1.64 (1.40-1.92)	<.001

* Covariate adjustments: age, sex, current smoking, high alcohol intake, diagnosed hypertension, income, ethnicity, residency, prior cardiovascular disease diagnosis and medication use (glucocorticoid, statin, nonselective and selective betablocker use, ARB, ACEI, spironolactone, loop diuretic, thiazide diuretic, digoxin use, CCB, nitrate use, anticoagulant use).

Supplemental Figure 1. 10-year cumulative incidence for major adverse cardiovascular event (MACE), all-cause death, hospitalized acute myocardial infarction (MI), and hospitalized stroke according to SAD/weight quintile. From fully-adjusted Cox proportional hazards regression models including BMI quintile. * $p < 0.001$, ** $p < 0.01$, * $p < 0.05$ versus lowest quintile (Q1, referent).**



Supplemental Figure 2. Obesity-stratified cumulative incidence for major adverse cardiovascular event (MACE) according to SAD/weight quintile. From fully-adjusted Cox proportional hazards regression models. * $p < 0.001$, ** $p < 0.01$, * $p < 0.05$ versus lowest quintile (Q1, referent).**



Supplemental Figure 3. Sex-stratified cumulative incidence for major adverse cardiovascular event (MACE) according to SAD/weight quintile. From fully-adjusted Cox proportional hazards regression models. * $p < 0.001$, ** $p < 0.01$, * $p < 0.05$ versus lowest quintile (Q1, referent). (See Supplemental Table 3 for numeric data.)**

