

SUPPLEMENTAL MATERIAL

Table S1. Sex-specific mean differences (standard deviation) in body size measures between the baseline assessment and first repeat assessment.

	Women	Men
N	10,374	9,903
Body mass index, kg/m²	0.06 (1.94)	0.09 (1.52)
Waist circumference, cm	2.03 (7.08)	1.53 (6.60)
Hip circumference, cm	0.58 (5.80)	0.57 (4.74)
Standing height, cm	0.62 (1.10)	0.56 (1.11)
Weight, kg	0.39 (5.10)	0.25 (4.63)
Waist-to-hip ratio	0.02 (0.06)	0.01 (0.05)
Waist-to-height ratio	0.02 (0.04)	0.01 (0.04)

Table S2. Sex-specific association of body mass index, waist circumference, waist-to-hip ratio, and waist-to-height ratio with incident MI.

	Body mass index							
	<20	20-25	25-30	30-35	>35	Per sex-specific SD	Per sex-combined SD	P-value
Women	0.98 (0.63; 1.32)	1.00 (0.89; 1.11)	1.28 (1.19; 1.37)	1.59 (1.47; 1.71)	1.96 (1.81; 2.12)	1.24 (1.18; 1.31)	1.22 (1.17; 1.28)	0.15
Men	2.72 (2.36; 3.08)	2.68 (2.60; 2.77)	3.49 (3.44; 3.54)	4.68 (4.61; 4.75)	5.49 (5.37; 5.62)	1.24 (1.20; 1.28)	1.28 (1.23; 1.32)	
	Waist circumference							
	<78	78-86	86-93	93-101	>101			
Women	0.91 (0.79; 1.02)	1.00 (0.88; 1.12)	1.22 (1.09; 1.35)	1.57 (1.44; 1.70)	2.18 (2.05; 2.30)	1.32 (1.25; 1.39)	1.35 (1.28; 1.42)	0.048
Men	2.03 (1.77; 2.28)	2.59 (2.48; 2.71)	2.95 (2.87; 3.03)	3.36 (3.30; 3.43)	4.35 (4.29; 4.40)	1.23 (1.19; 1.27)	1.28 (1.23; 1.33)	
	Waist-to-hip ratio							
	<0.79	0.79-0.84	0.84-0.90	0.90-0.95	>0.95			
Women	0.72 (0.59; 0.84)	1.00 (0.90; 1.10)	1.27 (1.16; 1.38)	1.75 (1.62; 1.89)	2.24 (2.06; 2.42)	1.36 (1.30; 1.44)	1.49 (1.39; 1.59)	0.001
Men	2.31 (1.84; 2.79)	1.91 (1.72; 2.11)	2.54 (2.45; 2.63)	2.88 (2.82; 2.95)	3.78 (3.73; 3.83)	1.25 (1.21; 1.29)	1.36 (1.30; 1.43)	
	Waist-to-height ratio							
	<0.47	0.47-0.51	0.51-0.55	0.55-0.59	>0.59			
Women	0.90 (0.79; 1.02)	1.00 (0.88; 1.12)	1.22 (1.09; 1.35)	1.57 (1.44; 1.71)	2.18 (2.06; 2.31)	1.36 (1.29; 1.43)	1.34 (1.27; 1.40)	0.38
Men	2.09 (1.92; 2.25)	2.49 (2.39; 2.59)	3.12 (3.04; 3.20)	3.55 (3.49; 3.62)	4.67 (4.61; 4.73)	1.28 (1.24; 1.33)	1.33 (1.28; 1.38)	

Analyses are adjusted for age, Townsend deprivation index, and smoking status and excluded the first 2 years of follow-up

Table S3. Sex-specific hazard ratios, with 95% confidence intervals, for MI associated with a 1-SD increase in adiposity measures, by age, socioeconomic status, and body mass index.

	Women	Men	P-value for interaction by sex
Body mass index			
Age, years			
<60	1.28 (1.19; 1.37)	1.30 (1.23; 1.37)	0.70
≥60	1.20 (1.13; 1.27)	1.26 (1.20; 1.32)	0.22
Socioeconomic status			
Lower SES	1.20 (1.12; 1.28)	1.30 (1.23; 1.37)	0.04
Higher SES	1.26 (1.18; 1.34)	1.27 (1.21; 1.33)	0.76
Waist circumference			
Age, years			
<60	1.48 (1.35; 1.61)	1.33 (1.25; 1.41)	0.04
≥60	1.30 (1.22; 1.40)	1.28 (1.21; 1.35)	0.51
Socioeconomic status			
Lower SES	1.32 (1.22; 1.44)	1.34 (1.27; 1.43)	0.95
Higher SES	1.37 (1.28; 1.48)	1.25 (1.18; 1.31)	0.02
Body mass index, kg/m ²			
<25	1.37 (1.11; 1.68)	1.18 (1.00; 1.41)	0.19
≥25	1.36 (1.27; 1.47)	1.24 (1.18; 1.31)	0.02
Waist-to-hip ratio			
Age, years			
<60	1.74 (1.56; 1.94)	1.45 (1.36; 1.54)	0.002
≥60	1.44 (1.33; 1.56)	1.37 (1.29; 1.46)	0.17
Socioeconomic status			
Lower SES	1.50 (1.36; 1.66)	1.45 (1.34; 1.56)	0.17
Higher SES	1.49 (1.36; 1.62)	1.32 (1.24; 1.40)	0.005
Body mass index, kg/m ²			
<25	1.42 (1.23; 1.65)	1.31 (1.16; 1.47)	0.11
≥25	1.46 (1.35; 1.59)	1.31 (1.23; 1.39)	0.002
Waist-to-height ratio			
Age, years			
<60	1.46 (1.36; 1.58)	1.40 (1.32; 1.48)	0.33
≥60	1.30 (1.23; 1.38)	1.33 (1.27; 1.40)	0.81
Socioeconomic status			
Lower SES	1.33 (1.24; 1.42)	1.39 (1.31; 1.47)	0.56
Higher SES	1.35 (1.27; 1.44)	1.30 (1.24; 1.37)	0.21
Body mass index, kg/m ²			
<25	1.43 (1.19; 1.72)	1.59 (1.33; 1.89)	0.93
≥25	1.37 (1.29; 1.46)	1.30 (1.24; 1.36)	0.06

Analyses are adjusted for age, Townsend deprivation index, and smoking status and excluded the first 2 years of follow-up. SES, socioeconomic status. The UK median Townsend deprivation index of -0.56 was used to categorise individuals as 'Lower (> -0.56)' or 'Higher (≤ -0.56)' SES.