

SUPPLEMENTARY DATA

**Supplementary Table 1. Association (HR 95% CI) between anthropometric measures and diabetes risk by race/ethnicity after excluding the first two years of follow up \***

	<b>Overall (N=132,105)</b>	<b>Non-Hispanic White (N=112,519)</b>	<b>American Indian or Alaska Native (N=492)</b>	<b>Asian (N=3402)</b>	<b>Black or African- American (N=10,679)</b>	<b>Hispanic/La tina (N=5013)</b>	<b>P for interaction</b>
	HR (95% CI)	HR (95% CI)	HR (95% CI)	HR (95% CI)	HR (95% CI)		
<b>BMI (kg/m<sup>2</sup>) (%)</b>							0.01
<25 (36.5)	1	1	1	1	1	1	
25-<30 (35.2)	1.63 (1.56 1.70)	1.60 (1.52 1.67)	1.91 (0.85 4.28)	2.15 (1.72 2.70)	1.57 (1.33 1.85)	1.83 (1.45 2.30)	
≥30 (28.3%)	2.82 (2.70 2.95)	2.83 (2.70 2.97)	4.17 (1.86 9.36)	3.05 (2.23 4.18)	2.39 (2.04 2.79)	3.24 (2.57 4.07)	
In continuous **	1.41 (1.40-1.43)	1.44 (1.42-1.46)	1.48 (1.12-1.97)	1.46 (1.33-1.62)	1.28 (1.23-1.33)	1.39 (1.30-1.47)	<0.0001
<b>Waist circumference (cm) (%)</b>							0.001
<78 (30.5)	1	1	1	1	1	1	
78-88 (32.1)	1.56 (1.49 1.64)	1.50 (1.42 1.58)	1.46 (0.62 3.46)	2.51 (1.96 3.20)	1.67 (1.39 1.99)	1.74 (1.37 2.21)	
>88 (37.4)	2.99 (2.86 3.13)	2.93 (2.79 3.08)	2.41 (1.10 5.25)	4.05 (3.06 5.36)	2.78 (2.35 3.29)	3.60 (2.87 4.52)	
In continuous **	1.50 (1.48 1.52)	1.51 (1.49-1.53)	1.44 (1.12-1.83)	1.80 (1.63-1.99)	1.38 (1.33-1.44)	1.54 (1.45-1.64)	<0.0001
<b>Waist to hip ratio (%)</b>							0.003
<0.78 (37.2)	1	1	1	1	1	1	
0.78-0.85 (37.1)	1.60 (1.53 1.67)	1.58 (1.51 1.65)	1.96 (0.86 4.46)	2.02 (1.49 2.76)	1.65 (1.46 1.86)	1.54 (1.26 1.89)	
>0.85 (25.7)	2.72 (2.61 2.84)	2.72 (2.59 2.84)	2.77 (1.25 6.14)	4.41 (3.22 6.03)	2.38 (2.10 2.70)	3.07 (2.51 3.76)	<0.0001
In continuous **	1.20 (1.20 1.21)	1.20 (1.19-1.21)	1.28 (1.06-1.54)	1.17 (1.13-1.22)	1.24 (1.20-1.28)	1.23 (1.19-1.27)	0.22

\* In the multivariable-adjusted models, we adjusted for age at enrollment (in continuous), race/ethnicity (for overall model only), education (high school or less, some college/technical training, college or some post-college, and master or higher), family history of diabetes (no, yes), different study cohorts (participation in OS or CTs), smoking (never, former, current), alcohol intake (non-drinker, past drinker, current and <7 drinks/wk, current and ≥7

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drinks/wk), physical activity (<5, 5-<10, 10-<20, 20-<30, 30+ Metabolic equivalent (METs)/week), Healthy eating index (HEI)-2005 score, high cholesterol requiring medicine (no, yes), different treatment assignments for all three CTs, and weight gain during the first two years.

\*\* When anthropometric measures were analyzed as continuous variables, the corresponding hazard ratio presents increased risk of diabetes per one increased standard deviation.

**Supplementary Table 2. Correlations between anthropometric measures and body composition biomarkers \***

		Whole body fat	Whole body fat percent	Trunk fat	Trunk to leg fat ratio
<b>Overall</b>	BMI	0.90	0.75	0.87	0.31
	WC	0.84	0.69	0.88	0.49
	WHR	0.29	0.25	0.41	0.56
<b>Non-Hispanic White</b>	BMI	0.90	0.76	0.87	0.35
	WC	0.84	0.70	0.88	0.53
	WHR	0.33	0.28	0.44	0.57
<b>American Indian or Alaskan Native</b>	BMI	0.86	0.72	0.81	0.21
	WC	0.80	0.72	0.87	0.49
	WHR	0.20	0.24	0.40	0.65
<b>Asian</b>	BMI	0.94	0.83	0.91	0.11
	WC	0.76	0.66	0.80	0.32
	WHR	0.01 (NS)	0.03 (NS)	0.15 (NS)	0.55
<b>Black or African-American</b>	BMI	0.93	0.77	0.89	0.18
	WC	0.81	0.64	0.85	0.39
	WHR	0.07	0.001 (NS)	0.20	0.45
<b>Hispanic/Latina</b>	BMI	0.85	0.68	0.83	0.26
	WC	0.86	0.71	0.89	0.44
	WHR	0.25	0.24	0.37	0.58

\* All corrections were significant except those marked with NS (not significant). BMI: body mass index, WC: waist circumference, and WHR: waist-to-hip ratio.

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<https://www.whi.org/researchers/Documents%20Write%20a%20Paper/WHI%20Investigator%20Long%20List.pdf>