

SUPPLEMENTAL MATERIAL

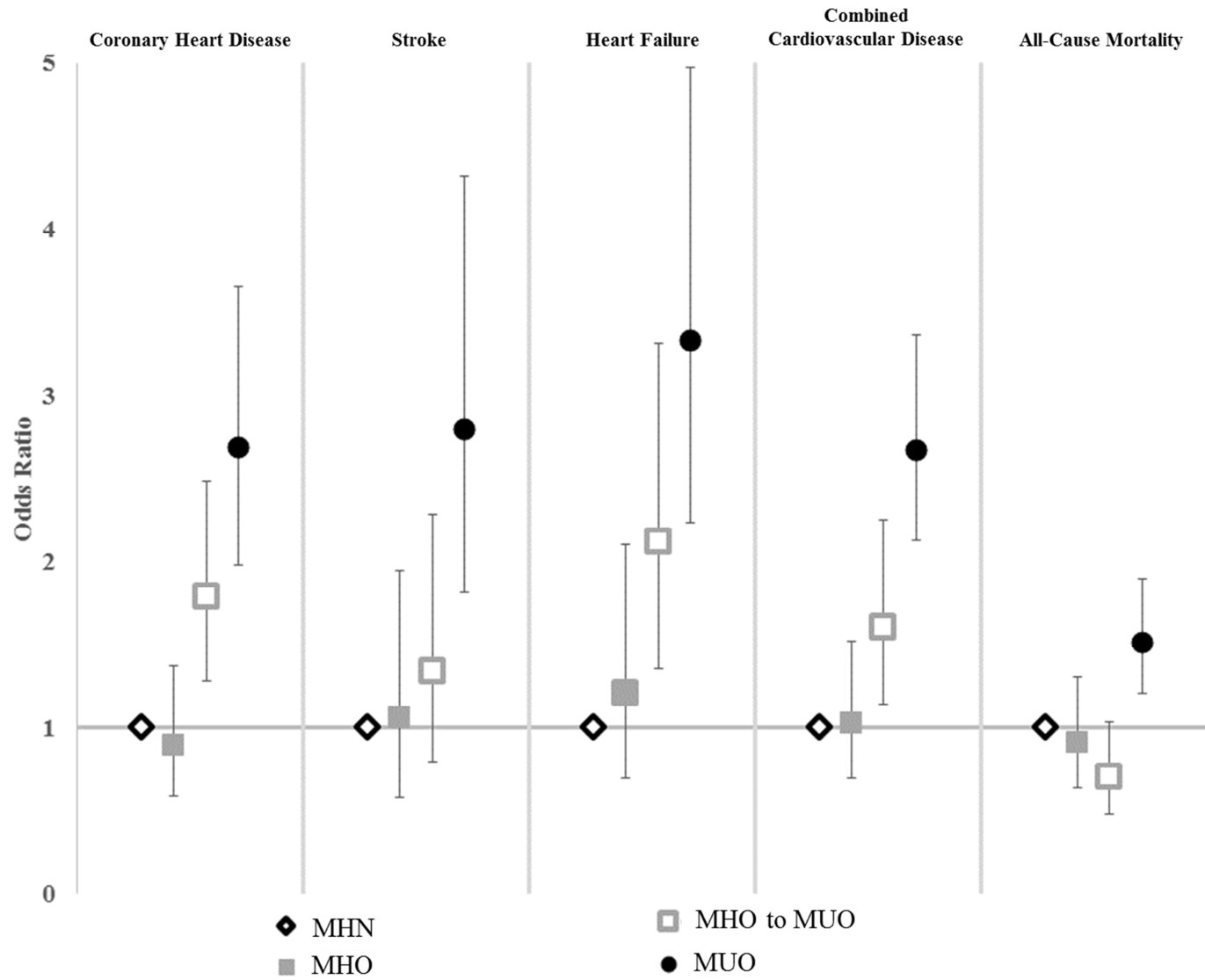
Online Figure 1. Transition from metabolically healthy obesity to metabolic syndrome and risk for specific cardiovascular disease events in MESA (Odds ratios and 95% confidence intervals)

Online Table 1. Cox proportional hazards models incident cause-specific cardiovascular disease and all-cause mortality (hazard ratios and 95% confidence intervals) by baseline obesity and metabolic syndrome status

Online Table 2. Logistic regression for combined cardiovascular disease and all-cause mortality (odds ratios and 95% confidence intervals) by metabolic syndrome status in 4470 MESA participants with normal weight

Online Figure 1. Transition from metabolically healthy obesity to metabolic syndrome and risk for specific cardiovascular disease events in MESA (Odds ratios and 95% confidence intervals)

MHN = Metabolically healthy normal weight throughout; MHO = Metabolically healthy obesity throughout; MHO to MUO = Transition from metabolically healthy obesity at baseline to metabolically unhealthy obesity; MUO = Metabolically unhealthy obesity from baseline



Online Table 1. Cox proportional hazards models incident cause-specific cardiovascular disease and all-cause mortality (hazard ratios and 95% confidence intervals) by baseline obesity and metabolic syndrome status

Model	Events	Healthy Normal Weight (MHN)	Unhealthy Normal Weight (MUN)		Healthy Obesity (MHO)		Unhealthy Obesity (MUO)	
		HR	HR	95% CI	HR	95% CI	HR	95% CI
<u>Coronary Heart Disease</u>								
Model 1	538	1.0	1.99	1.59-2.49	0.75	0.56-1.01	1.85	1.50-2.28
Model 2	538	1.0	1.72	1.38-2.16	0.93	0.69-1.26	2.07	1.67-2.56
Model 3	529	1.0	1.99	1.58-2.95	1.03	0.76-1.39	2.37	1.90-2.95
Model 4	516	1.0	1.98	1.57-2.50	1.05	0.77-1.42	2.32	1.85-2.90
<u>Stroke</u>								
Model 1	236	1.0	1.80	1.26-2.55	0.92	0.61-1.40	1.93	1.41-2.65
Model 2	236	1.0	1.50	1.06-2.14	1.21	0.79-1.84	2.25	1.64-3.10
Model 3	232	1.0	1.45	1.01-2.09	1.14	0.74-1.75	2.03	1.46-2.83
Model 4	228	1.0	1.53	1.06-2.20	1.13	0.73-1.76	2.12	1.51-2.98
<u>Heart Failure</u>								
Model 1	279	1.0	2.25	1.64-3.09	1.03	0.70-1.53	2.32	1.73-3.10
Model 2	279	1.0	1.86	1.35-2.55	1.43	0.96-2.12	2.77	2.07-3.72
Model 3	274	1.0	2.13	1.54-2.94	1.41	0.94-2.11	2.78	2.05-3.78
Model 4	270	1.0	2.20	1.58-3.05	1.51	1.01-2.27	2.98	2.18-4.06
<u>Combined Cardiovascular Disease</u>								
Model 1	791	1.0	1.97	1.64-2.37	0.81	0.64-1.03	1.86	1.56-2.21
Model 2	791	1.0	1.68	1.39-2.02	1.03	0.81-1.31	2.13	1.79-2.54
Model 3	777	1.0	1.86	1.53-2.25	1.09	0.85-1.39	2.29	1.91-2.75
Model 4	761	1.0	1.87	1.54-2.27	1.10	0.86-1.41	2.29	1.90-2.76
<u>All-Cause Mortality</u>								
Model 1	975	1.0	1.68	1.43-1.97	0.56	0.44-0.70	1.17	0.99-1.38
Model 2	975	1.0	1.34	1.14-1.57	0.81	0.64-1.02	1.45	1.23-1.72
Model 3	943	1.0	1.45	1.23-1.72	0.80	0.63-1.01	1.42	1.19-1.70
Model 4	928	1.0	1.46	1.23-1.73	0.85	0.67-1.08	1.48	1.24-1.77

Model 1: Unadjusted Model 2: Age Model 3: Model 2 + sex, race/ethnicity, education, income Model 4: Model 3 + smoking, LDL, and statin use

Online Table 2. Logistic regression for combined cardiovascular disease and all-cause mortality (odds ratios and 95% confidence intervals) by metabolic syndrome status in 4470 MESA participants with normal weight

Model	Metabolic Status	Coronary Heart Disease		Cardiovascular Disease		Mortality	
		OR	95% CI	OR	95% CI	OR	95% CI
Baseline							
	No MetS	1.0	Ref	1.0	Ref	1.0	Ref
	MetS	2.29	1.78-2.95	2.15	1.73-2.67	1.67	1.35-2.06
Across Follow-Up							
	No MetS	1.0	Ref	1.0	Ref	1.0	Ref
	Ever MetS	1.93	1.50-2.49	1.93	1.55-2.39	1.09	0.89-1.34*
Metabolic Syndrome Transition							
	No MetS	1.0	Ref	1.0	Ref	1.0	Ref
	Transition to MetS	1.49	1.07-2.07	1.56	1.18-2.06	0.70	0.52-0.92
	MetS at baseline	2.43	1.81-3.27	2.32	1.79-2.99	1.52	1.20-1.93
Metabolic Syndrome Duration							
	No MetS	1.0	Ref	1.0	Ref	1.0	Ref
	1 visit with MetS	1.70	1.20-2.41	1.64	1.22-2.22	1.18	0.89-1.55*
	2 visits with MetS	1.93	1.30-2.86	2.08	1.49-2.91	1.31	0.95-1.81*
	3+ visits with MetS	2.16	1.55-3.02	2.08	1.56-2.77	0.85	0.64-1.14*
	p-value for linear trend	<0.001		<0.001		0.51	

Model 4: Age, sex, race/ethnicity, education, income, smoking, LDL, and statin use

*Indicates estimates that are not statistically significant. All other estimates are significantly different from the reference at the p<0.05 level.

MetS = Metabolic syndrome