

## SUPPLEMENTARY TABLES

**Supplementary Table 1. Correlations of BMI across different time points.**

	<b>BMI at 25</b>	<b>BMI 10 years before survey</b>	<b>BMI 1 year before survey</b>	<b>BMI burden</b>
BMI 10 years before survey	0.560			
BMI 1 year before survey	0.492	0.796		
BMI burden	0.779	0.950	0.828	
Current BMI	0.395	0.727	0.881	0.732

P<0.00001 for all correlation coefficients.

**Supplementary Table 2. Correlations of BMI across different time points with cognitive function measures.**

<b>Outcome</b>	<b>BMI at age 25</b>		<b>BMI 10 years before</b>		<b>BMI burden</b>		<b>Current BMI</b>	
	<b>Correlation coefficient</b>	<b>P</b>	<b>Correlation coefficient</b>	<b>P</b>	<b>Correlation coefficient</b>	<b>P</b>	<b>Correlation coefficient</b>	<b>P</b>
Composite Score	-0.049	0.011	-0.025	0.199	-0.029	0.143	0.046	0.018
CERAD Word Learning	-0.057	0.003	-0.018	0.350	-0.028	0.150	0.036	0.068
CERAD Delayed Recall	-0.037	0.054	-0.001	0.970	-0.006	0.750	0.054	0.005
Animal Fluency Test	0.002	0.923	-0.003	0.892	0.005	0.815	0.050	0.010
Digit Symbol Substitution Test	-0.062	0.002	-0.057	0.004	-0.060	0.002	0.004	0.824