**Table S4:** Coefficient estimate (β±SE) comparison for components of diet quality (HEI-2010, DASH and MAR) and change in each component over time for Trailmaking test B^^

|  |  |
| --- | --- |
|  | Women |
| *Trailmaking Test, Part Ba1,c2,d1,d2,e2* | N=123 |
| **HEI-2010** |  |
| Time | 36.88±15.73 |
| Diet Change | -11.60±6.59 |
| Diet Change × Time | **3.63±1.38\*\*\*** |
| Initial Diet | -0.17±1.48 |
| Initial Diet × Time | 0.52±0.29 |
| *Trailmaking Test, Part Ba1,c2,d1,d2,e2* | N=123 |
| **DASH** |  |
| Time | 37.98±15.68 |
| Diet Change | -7.78±49.19 |
| Diet Change × Time | **21.16±10.87\*** |
| Initial Diet | 22.62±12.93 |
| Initial Diet × Time | 2.96±2.70 |
| *Trailmaking Test, Part Ba1,c2,d1,d2,e2* | N=123 |
| **MAR** |  |
| Time | 45.03±15.99 |
| Diet Change | -8.21±4.80 |
| Diet Change × Time | **1.86±0.96\*** |
| Initial Diet | -0.13±1.15 |
| Initial Diet × Time | 0.19±0.25 |

Abbreviations: HANDLS= Healthy Aging in Neighborhoods of Diversity Across the Lifespan; hAlzScore= HANDLS Alzheimer’s Risk Score; MMSE= Mini-Mental State Examination; CVLT-List A= California Verbal Learning test- List A; CVLT-DFR= California Verbal Learning Test-Delayed Free Recall; BVRT= Benton Visual Retention Test; Attention= Brief Test of Attention; Trails A= Trailmaking Test A; Trails B= Trailmaking Test B; Digit Span Forward= Digits Span Forward Test; Digit Span Backward= Digits Span Backward Test; Clock Command= Clock Command Test; Identical Pictures= Identical Pictures Test; Card Rotation= Card rotation Test; Animal Fluency= Animal Fluency Test.

#Represents change in diet quality over time (~5 years from baseline)

^ Represents diet quality at baseline (Time 0)

a× Continuous covariates were mean-centered.

\*\*\* p<0.01, \*\* p<0.05, \* p<0.10; a1 indicates significant interaction between time and se× at the p<0.05 level; a2 indicates significant interaction between time and se× at the p<0.10 level; b1 indicates significant interaction between se× and diet at the p<0.05 level; b2 indicates significant interaction between se× and diet at the p<0.10 level; c1 indicates significant interaction between se× and diet (change) at the p<0.05 level; c2 indicates significant interaction between se× and diet (change) at the p<0.10 level; d1 indicates significant interaction between se× and diet (change) and time at the p<0.05 level; d2 indicates significant interaction between se× and diet (change) and time at the p<0.10 level; e1 indicates significant interaction between se× and diet and time at the p<0.05 level; e2 indicates significant interaction between se× and diet and time at the p<0.10 level;

^^ All results are presented based on the primary PCA analysis.