Participants in the baseline survey (n=215,251)

Not one of the five main racial and ethnic groups (n=5,265)

Five main racial and ethnic groups (n=92,949)

Participants in the 10-year follow-up survey (n=98,214)

Final analysis (n=56,263)

No previous heart disease or cancer (n=63,188)

Valid diet (n=87,021)

Implausible diet (n=5,298)

at either survey

Heat disease or cancer (n=23,833) at either survey

Missing BMI (n=5,058) or smoking (n=1,867) at follow-up

**Supplementary Figure 1.** Flow diagram summarizing inclusion and exclusion criteria

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**Supplementary Figure 2.** Multivariate association between DII change and subsequent mortality in the Multiethnic Cohort Study. Association estimated by Cox regression based on restricted cubic splines. Dashed lines represent 95% CIs for adjusted estimates.