**Supplemental Table 3. Associations between restaurant environment index (REI) and mental composite score (MCS), by study and region.**

|  |  |
| --- | --- |
|  | Multivariable modela  LS Mean MCS, (95% CI) |
| **By study**b |  |
| **APECC** |  |
| Restaurant Environment Index (REI)c |  |
| REI=0: No unhealthy restaurants | d |
| REI<1: Unhealthy<Healthy  restaurants |  |
| REI≥1: Unhealthy≥Healthy  restaurants |  |
| p-trend |  |
| No restaurant |  |
| **FOCUS-combined** |  |
| Restaurant Environment Index (REI)c |  |
| REI=0: No unhealthy restaurants | 51.4 (48.3-54.5) |
| REI<1: Unhealthy<Healthy  restaurants | 50.8 (47.8-53.7) |
| REI≥1: Unhealthy≥Healthy  restaurants | **47.2 (43.0-51.4)** |
| p-trend | **0.046** |
| No restaurant | 51.5 (48.0-55.0) |
| **By region** |  |
| **Bay Area: APECC + FOCUS-BA** |  |
| Restaurant Environment Index (REI)c |  |
| REI=0: No unhealthy restaurants | 52.9 (48.1-57.8) |
| REI<1: Unhealthy<Healthy  restaurants | 52.7 (47.9-57.5) |
| REI≥1: Unhealthy≥Healthy  restaurants | **47.9 (42.1-53.8)** |
| p-trend | 0.11 |
| No restaurant | 52.3 (47.3-57.3) |
| **Los Angeles: ECHOS + FOCUS-LA** |  |
| Restaurant Environment Index (REI)c |  |
| REI=0: No unhealthy restaurants | 53.6 (48.4-58.9) |
| REI<1: Unhealthy<Healthy  restaurants | 52.4 (47.4-57.3) |
| REI≥1: Unhealthy≥Healthy  restaurants | 53.8 (47.7-59.9) |
| p-trend | 0.49 |
| No restaurant | 55.0 (49.0-61.0) |

LS, least square; MCS, mental composite score; CI, confidence interval

Note: Bold indicates p-value<0.05 compared to the first category (reference level).

a 3-level model with a random effect for study/region and a random effect for block group nested within study/region, adjusted for age, race/ethnicity, education, income, marital status, insurance, and alcohol.

b Did not examine ECHOS-NHL separately due to small sample size.

c Residential buffer measure within a 1600-meter network distance: ratio of the average number of fast food restaurants to other restaurants. If denominator=0 and numerator>0, classified as REI>=1. P-trend did not include No restaurants.

d Least squares means could not be estimated.