## Supplementary Information

**Table S1.** Cardiovascular health score of the study participants according to urinary BPA tertiles [a].

| Metrics | Overall (*n* = 6635) | Urinary BPA Level [b] | | | *p* Value |
|---|---|---|---|---|---|
| | | Low (*n* = 2329) | Intermediate (*n* = 2184) | High (*n* = 2122) | |
| Overall LE8 | 68.44 (0.30) | 70.06 (0.46) | 67.87 (0.43) | 67.13 (0.38) | <0.0001 |
| Health factors | 70.52 (0.33) | 71.73 (0.55) | 69.66 (0.57) | 70.01 (0.53) | 0.01 |
| Health behaviors | 66.36 (0.45) | 68.38 (0.60) | 66.08 (0.64) | 64.25 (0.62) | <0.0001 |
| HEI-2015 diet | 39.17 (0.66) | 42.73 (0.91) | 39.14 (0.96) | 34.94 (0.91) | <0.0001 |
| Physical activity | 72.03 (0.67) | 73.09 (1.11) | 71.19 (1.09) | 71.69 (1.14) | 0.37 |
| Nicotine exposure | 70.93 (0.78) | 72.43 (1.23) | 71.04 (1.02) | 69.00 (1.08) | 0.06 |
| Sleep health | 83.31 (0.42) | 85.26 (0.62) | 82.93 (0.69) | 81.39 (0.62) | <0.001 |
| Body mass index | 61.22 (0.58) | 66.17 (0.97) | 58.76 (1.00) | 57.95 (1.05) | <0.0001 |
| Blood lipids | 64.41 (0.50) | 65.07 (0.88) | 63.89 (0.85) | 64.19 (0.86) | 0.59 |
| Blood glucose | 86.29 (0.37) | 86.64 (0.59) | 86.01 (0.66) | 86.16 (0.62) | 0.72 |
| Blood pressure | 70.17 (0.53) | 69.04 (0.83) | 69.97 (0.92) | 71.74 (0.85) | 0.07 |

Abbreviations: BPA, bisphenol A; LE8, Life's Essential 8; HEI-2015, Healthy Eating Index-2015.

[a] Variables were presented as weighted mean (standard error) for normal distribution variables.

[b] Range of urinary BPA level: Low, <1.0 ng/mL; Intermediate, 1.0-2.5 ng/mL; High, >2.5 ng/mL.

**Table S2.** Characteristics of the matched study population [a].

| Characteristics | Life's Essential 8 Score [b] | | SMD |
|---|---|---|---|
| | Optimal (*n* = 1243) | Suboptimal (*n* = 1243) | |
| Age (years) | 42.56 (0.61) | 42.24 (0.49) | 0.037 |
| Sex (%) | | | 0.02 |
| Male | 41.18 (1.65) | 39.11 (1.72) | |
| Female | 58.82 (1.65) | 60.89 (1.72) | |
| Race/ethnicity (%) | | | 0.001 |
| Non-Hispanic White | 75.61 (1.63) | 70.19 (2.06) | |
| Non-Hispanic Black | 5.81 (0.63) | 8.42 (0.88) | |
| Mexican American | 6.13 (0.76) | 8.46 (1.07) | |
| Other | 12.45 (1.11) | 12.92 (1.19) | |
| Educational level (%) | | | 0.01 |
| Less than high school | 6.61 (0.77) | 5.66 (0.69) | |
| High school or equivalent | 11.38 (1.12) | 16.39 (1.42) | |
| College or above | 82.02 (1.40) | 77.95 (1.61) | |
| Marital status (%) | | | 0.017 |
| Married/living with partner | 67.66 (1.76) | 64.25 (1.76) | |
| Widowed/divorce/separated | 10.11 (0.96) | 14.15 (1.11) | |
| Never married | 22.23 (1.63) | 21.60 (1.52) | |
| Family income-to-poverty ratio (%) | | | 0.018 |
| <1.3 | 12.32 (1.27) | 10.67 (0.94) | |
| 1.3-3.5 | 29.50 (1.68) | 33.37 (1.89) | |
| >3.5 | 58.18 (1.95) | 55.96 (2.02) | |
| Alcohol consumption (%) | | | <0.001 |
| Non-drinker | 18.49 (1.44) | 20.41 (1.37) | |
| Low to moderate drinker | 72.24 (1.51) | 69.93 (1.66) | |
| Heavy drinker | 9.27 (1.04) | 9.66 (1.30) | |
| Sedentary time, minutes/day | 339.81 (7.26) | 333.14 (7.94) | 0.015 |
| Urinary creatinine levels (mg/dL) | 107.96 (2.86) | 106.06 (2.04) | 0.047 |
| eGFR (mL/min/1.73 m2) | 98.19 (0.70) | 98.82 (0.72) | 0.025 |

Abbreviations: FITPR, family income-to-poverty ratio; eGFR, estimated glomerular filtration rate; BPA, bisphenol A.

[a] Continuous variables were presented as weighted mean (standard error), and categorical variables were presented as weighted percentage (standard error).

[b] Range of Life's Essential 8 score: Optimal, 80-100; Suboptimal, 0-80.