**Supplementary material:** Biomarker-predicted sugars (BPS) intake compared with self-reported measures in US Hispanics/Latinos: Results from the HCHS/SOL SOLNAS Study

**Supplemental Table 1: Geometric means (95%CI) for self-reported and BPS intake in SOLNAS**

|  |  |  |
| --- | --- | --- |
| **Main: SOLNAS** | **Men (n=174)** | **Women (n=276)** |
| **1st 24HR** | 102.0 (89.4, 116.3) | 86.0 (80.1, 92.4) |
| **2nd 24HR** | 93.4 (83.8, 104.1) | 72.7 (66.9, 78.9) |
| **3rd 24HR** | 101.4 (90.7, 113.4) | 80.2 (74.1, 86.7) |
| **Average of three 24HR** | 100.4 (91.8, 109.7) | 79.6 (75.1, 84.4) |
| **NCI-method estimate** | 103.0 (97.0, 109.2) | 83.5 (80.5, 86.6) |
| **BPS** | 184.3 (160.0, 212.3) | 157.6 (142.8, 174.0) |
| **Reliability study: SOLNAS** | **Men (n=32)** | **Women (n=58)** |
| **1st 24HR** | 103.3 (81.6, 130.8) | 80.2 (68.5, 93.9) |
| **2nd 24HR** | 86.6 (67.8, 110.6) | 92.7 (80.9, 106.2) |
| **Average of two 24HR** | 101.0 (83.7, 121.9) | 83.5 (74.0, 94.2) |
| **NCI-method estimate** | 109.8 (96.5, 124.9) | 88.1 (81.4, 95.4) |
| **BPS** | 133.8 (83.3, 215.0) | 174.8 (140.2, 218.0) |

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**Supplemental Table 2: Cross tabulation between quartile of biomarker-predicted sugars (BPS) and quartile of raw/uncalibrated sum of 24HR urinary fructose and sucrose:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Quartile of raw/uncalibrated sum of 24HR urinary fructose and sucrose | | | |
| Quartile of BPS | Q1 | Q2 | Q3 | Q4 |
| Q1 | 100 (89%) | 10 (9%) | 3 (3%) | 0 (0%) |
| Q2 | 12 (11%) | 80 (71%) | 20 (18%) | 0 (0%) |
| Q3 | 0 (0%) | 23 (20%) | 75 (67%) | 14 (12%) |
| Q4 | 0 (0%) | 0 (0%) | 14 (13%) | 99 (88%) |

Kappa: 0.72, *P* < 0.0001

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**Supplemental Table 3: Spearman correlations between biomarker-predicted sugars intake (BPS) and self-reported total sugars intake by individual recall, average of 24-hour recalls, and NCI method**

**SOLNAS Main study participants:**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Recall 1** | | **Recall 2** | | **Recall 3** | | **Mean of recall 1, 2 & 3** | | **NCI-predicted total sugars** | |
|  | n | r, *P* | n | r, *P* | n | r, *P* | n | r, *P* | n | r, *P* |
| Overall | 427 | 0.01, 0.8 | 431 | -0.06, 0.3 | 411 | 0.02, 0.7 | 450 | -0.03, 0.6 | 450 | -0.06, 0.2 |
| Women | 266 | 0.01, 0.9 | 265 | -0.08, 0.2 | 255 | -0.02, 0.8 | 276 | -0.05, 0.4 | 276 | -0.09, 0.1 |
| Men | 161 | 0.00, 1.0 | 166 | -0.06, 0.5 | 156 | 0.03, 0.7 | 174 | -0.04, 0.6 | 174 | -0.09, 0.2 |

**SOLNAS reliability study participants:**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Recall 4** | | **Recall 5** | | **Mean of recall 4 & 5** | | **NCI-predicted total sugars** | |
|  | n | r, *P* | n | r, *P* | n | r, *P* | n | r, *P* |
| Overall | 84 | **0.36, <0.001** | 77 | 0.20, 0.1 | 89 | **0.34, 0.001** | 90 | 0.19, 0.1 |
| Women | 55 | **0.27, 0.04** | 51 | 0.10, 0.5 | 57 | 0.18, 0.2 | 58 | 0.11, 0.4 |
| Men | 29 | **0.63, <0.001** | 26 | 0.29, 0.2 | 32 | **0.58, <0.001** | 32 | **0.37, 0.04** |

\*Grey shading indicates 24-hour recall closest to the 24-hr urine collection