**Supplemental Table 1:** Characteristics of U.S. Hispanic women of reproductive age (12–49 years), stratified by pre- and post-implementation of corn masa fortification.

|  | **2011-2016** | | **2017-Mar 2020** | |  |
| --- | --- | --- | --- | --- | --- |
|  | **n** | **Weighted % (95% CI)a** | **n** | **Weighted % (95% CI)** | **p-valueb** |
| **Total** | 1,643 |  | 672 |  |  |
| Mexican Americans | 1,016 | 61.6 (54.6, 68.5) | 406 | 59.3 (50.9, 67.7) | 0.68 |
| **Age (y)** |  |  |  |  | 0.08 |
| 12-24 | 770 | 36.4 (33.6, 39.3) | 288 | 40.4 (35.0, 45.8) |  |
| 25-34 | 329 | 26.4 (23.8, 29.0) | 123 | 20.7 (16.0, 25.4) |  |
| 35-49 | 544 | 37.2 (34.7, 39.7) | 261 | 38.9 (34.9, 42.9) |  |
| **Education** |  |  |  |  | < 0.01 |
| < High School | 881 | 46.0 (42.6, 49.5) | 151 | 17.7 (14.3, 21.1) |  |
| High School graduate/GED | 281 | 18.3 (15.9, 20.7) | 108 | 21.6 (17.1, 26.1) |  |
| > High School | 477 | 35.5 (31.8, 39.2) | 206 | 35.8 (29.9, 41.6) |  |
| Missing | 4 |  | 207 |  |  |
| **Poverty income ratio** |  |  |  |  | 0.02 |
| < 1.0 | 561 | 32.4 (28.6, 36.1) | 183 | 25.3 (20.9, 29.7) |  |
| 1.0-1.9 | 400 | 23.7 (21.0, 26.4) | 163 | 21.8 (15.8, 27.7) |  |
| 2.0-3.9 | 322 | 20.6 (17.5, 23.6) | 113 | 17.9 (13.1, 22.6) |  |
| ≥ 4.0 | 142 | 10.3 (8.0, 12.7) | 90 | 16.5 (12.7, 20.2) |  |
| Missing | 218 |  | 123 |  |  |
| **Body mass index (BMI) [kg/m2]** |  |  |  |  | 0.91 |
| Underweight (BMI < 18.5) | 75 | 3.4 (2.6, 4.2) | 24 | 3.7 (1.9, 5.4) |  |
| Normal weight (18.5 ≤ BMI < 25) | 524 | 29.4 (26.9, 31.8) | 204 | 29.9 (26.4, 33.3) |  |
| Overweight (25 ≤ BMI < 30) | 441 | 28.2 (25.5, 30.8) | 175 | 26.6 (23.2, 30.0) |  |
| Obesity (BMI ≥ 30) | 584 | 38.2 (35.3, 41.1) | 252 | 37.6 (34.2, 40.9) |  |
| Missing | 19 |  | 17 |  |  |
| **Smoking Status** |  |  |  |  | 0.55 |
| Not Smoking | 1,503 | 90.6 (88.6, 92.6) | 599 | 88.7 (84.8, 92.5) |  |
| Smoking | 121 | 8.5 (6.5, 10.4) | 60 | 9.5 (6.0, 13.1) |  |
| Missing | 19 |  | 13 |  |  |
| **RBC folate concentration by risk** |  |  |  |  | 0.49 |
| High (≤585 nmol/L) | 90 | 5.4 (4.1, 6.6) | 41 | 6.2 (4.4, 8.1) |  |
| Elevated (586-747 nmol/L) | 188 | 11.4 (9.8, 13.0) | 76 | 13.1 (10.0, 16.3) |  |
| Optimal (748-1215 nmol/L) | 931 | 55.7 (53.6, 57.7) | 374 | 52.4 (46.7, 58.0) |  |
| Limited additional benefits (≥ 1216 nmol/L) | 434 | 27.6 (25.2, 30.0) | 181 | 28.2 (24.6, 31.9) |  |
| **Folic Acid (FA) intake sourcec** |  |  |  |  | 0.03 |
| ECGP/CMF only | 914 | 56.0 (53.1, 58.9) | 414 | 62.4 (59.0, 65.8) |  |
| ECGP/CMF + RTE | 404 | 22.1 (19.8, 24.5) | 127 | 17.5 (13.6, 21.5) |  |
| ECGP/CMF + SUPP | 248 | 17.0 (14.9, 19.0) | 111 | 17.2 (13.8, 20.7) |  |
| ECGP/CMF + RTE + SUPP | 77 | 4.9 (3.6, 6.2) | 20 | 2.8 (1.3, 4.4) |  |
| **FA Supplement dose** |  |  |  |  | 0.67 |
| < 400 mcg/d | 183 | 12.0 (10.1, 13.9) | 72 | 10.6 (7.1, 14.1) |  |
| ≥ 400 mcg/d | 142 | 9.8 (8.2, 11.4) | 59 | 9.4 (7.2, 11.7) |  |
| None | 1,318 | 78.2 (75.7, 80.6) | 541 | 80.0 (76.5, 83.4) |  |
| **Time in U.S.** |  |  |  |  | < 0.01 |
| U.S. Born | 901 | 51.0 (46.5, 55.6) | 362 | 54.9 (49.9, 60.0) |  |
| Born outside U.S., ≥ 15y | 293 | 20.1 (17.9, 22.3) | 194 | 28.3 (24.4, 32.3) |  |
| Born outside U.S., < 15 y | 389 | 25.2 (21.7, 28.7) | 114 | 16.3 (12.5, 20.1) |  |
| Missing | 60 |  | 2 |  |  |
| **Language spoken at home** |  |  |  |  | 0.50 |
| Primarily English | 655 | 40.2 (36.6, 43.7) | 256 | 38.6 (33.6, 43.6) |  |
| Equal English & Spanish | 337 | 18.3 (15.7, 20.9) | 136 | 21.0 (17.1, 24.8) |  |
| Primarily Spanish | 644 | 40.9 (37.5, 44.4) | 276 | 39.5 (34.8, 44.2) |  |
| Missing | 7 |  | 4 |  |  |
| Data from the National Health and Nutrition Examination Survey (NHANES) 2011–Mar 2020  a CI: Confidence Interval; b p-values determined by Chi-square test; c ECGP: Enriched cereal grain product, CMF: Corn masa flour, RTE: Ready-to-eat cereals, SUPP: Supplements containing folic acid | | | | | |

**Supplemental Table 2:** Estimated folic acid usual intake of U.S. Hispanic women of reproductive age (12–49 years), stratified by pre- and post-implementation of corn masa fortification.

|  | **2011-2016** | | | | **2017-Mar 2020** | | | |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Modeled usual intake** | | **Usual intake < 400 mcg/da** | | **Modeled usual intake** | | **Usual intake < 400 mcg/d** | |  |  |
|  | **n** | **Median (IQR)b** | **n** | **Weighted% (95% CI)** | **n** | **Median (IQR)** | **n** | **Weighted% (95% CI)** | **p-valuec** | **p-valued** |
| **Total** | 1,602 | 223 (140, 275) | 1406 | 86.1 (83.7, 88.5) | 672 | 197 (132, 275) | 594 | 87.8 (84.8, 90.7) | 0.84 | 0.38 |
| Mexican Americans | 997 | 238 (142, 275) | 873 | 85.7 (82.7, 88.7) | 406 | 211 (135, 275) | 335 | 88.0 (85.1, 90.9) | 0.35 | 0.28 |
| **Folic Acid (FA) intake sourcee** |  |  |  |  |  |  |  |  |  |  |
| ECGP/CMF only | 881 | 148 (112, 191) | 880 | 99.9 (99.9, 99.9) | 414 | 147 (112, 190) | 413 | 99.9 (99.9, 99.9) | 0.26 | 0.73 |
| ECGP/CMF + RTE | 404 | 275 (247, 275) | 404 | 100.0 (100.0, 100.0) | 127 | 275 (247, 275) | 127 | 100.0 (100.0, 100.0) | 0.14 | 0.99 |
| ECGP/CMF + SUPP | 240 | 441 (262, 561) | 110 | 44.2 (37.7, 50.7) | 111 | 418 (261, 603) | 52 | 48.3 (33.2, 63.5) | 0.27 | 0.61 |
| ECGP/CMF + RTE + SUPP | 77 | 658 (502, 875) | 12 | 14.2 (3.9, 24.5) | 20 | 741 (594, 856) | 2 | -- | 0.95 |  |
| **Language spoken at home** |  |  |  |  |  |  |  |  |  |  |
| Primarily English | 640 | 223 (139, 280) | 552 | 83.6 (79.4, 87.7) | 256 | 186 (128, 275) | 226 | 89.9 (84.4, 95.4) | 0.39 | 0.06 |
| Equal English & Spanish | 331 | 222 (139, 275) | 297 | 88.8 (84.2, 93.3) | 136 | 207 (133, 275) | 124 | 85.1 (78.2, 91.9) | 0.74 | 0.36 |
| Primarily Spanish | 624 | 225 (142, 275) | 549 | 87.3 (84.1, 90.4) | 276 | 206 (138, 275) | 240 | 86.5 (80.2, 92.9) | 0.37 | 0.83 |
| Missing | 7 |  | 8 |  | 4 |  | 4 |  |  |  |
| **Time in U.S.** |  |  |  |  |  |  |  |  |  |  |
| U.S. Born | 881 | 224 (138, 279) | 776 | 85.4 (81.9, 88.8) | 362 | 186 (128, 275) | 327 | 91.5 (88.4, 94.6) | 0.46 | <0.01 |
| Born outside U.S., ≥ 15y | 283 | 215 (142, 252) | 243 | 87.7 (83.1, 92.3) | 194 | 229 (144, 295) | 162 | 78.8 (69.4, 88.2) | 0.13 | 0.09 |
| Born outside U.S., < 15 y | 381 | 229 (141, 275) | 338 | 88.6 (84.9, 92.4) | 114 | 188 (131, 251) | 103 | 90.2 (82.5, 98.0) | 0.16 | 0.70 |
| Missing | 57 |  | 49 |  | 2 |  | 2 |  |  |  |
| **ECGP/CMF only** | 881 |  | 880f |  | 414 |  | 414 |  |  |  |
| Mexican Americans | 532 | 147 (111, 189) | 532 |  | 229 | 145 (110, 188) | 229 |  | 0.18 |  |
| **Language spoken at home** |  |  |  |  |  |  |  |  |  |  |
| Primarily English | 356 | 147 (111, 189) |  |  | 154 | 145 (110, 188) |  |  | 0.04 |  |
| Equal English & Spanish | 175 | 146 (111, 188) |  |  | 90 | 145 (110, 187) |  |  | 0.02 |  |
| Primarily Spanish | 343 | 150 (113, 193) |  |  | 167 | 152 (115, 195) |  |  | <0.01 |  |
| Missing | 7 |  |  |  | 3 |  |  |  |  |  |
| **Time in U.S.** |  |  |  |  |  |  |  |  |  |  |
| U.S. Born | 483 | 147 (111, 189) |  |  | 227 | 145 (109, 187) |  |  | 0.02 |  |
| Born outside U.S., ≥ 15y | 156 | 152 (116, 196) |  |  | 112 | 152 (116, 195) |  |  | 1.00 |  |
| Born outside U.S., < 15 y | 208 | 149 (113, 192) |  |  | 74 | 150 (114, 193) |  |  | 0.19 |  |
| Missing | 34 |  |  |  | 1 |  |  |  |  |  |
| Data from the National Health and Nutrition Examination Survey (NHANES) 2011–Mar 2020  a 400 mcg/d is the recommended daily intake for neural tube defects prevention; b IQR: Interquartile Range; c p-values represent differences in estimated folic acid usual intake determined by Wald-adjusted t-test; d p-values represent differences in % with usual intakes below 400 mcg/d determined by Wald-adjusted t-test; e ECGP: Enriched cereal grain product, CMF: Corn masa flour, RTE: Ready-to-eat cereals, SUPP: Supplements containing folic acid. f Only one individual had modeled usual intakes > 400 mcg/d, the weighted % of individuals with < 400 mcg/d among ECGP/CMF only consumers are all at 100%, output was suppressed. | | | | | | | | | | |