**Table S1(a).** Univariate and multivariate models of variables associated with overall supplement use peri-conceptionally, showing individual odds ratios (OR) and 95% confidence intervals (CI).

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **THREE MONTHS PRE-CONCEPTION** | | | | | | **PRIOR TO PREGNANCY AWARENESS** | | | | | |
|  |
|  | **NSU** | **SU** | **SU vs. NSU unadjusted** | | **SU vs. NSU adjusteda** | | **NSU** | **SU** | **SU vs. NSU unadjusted** | | **SU vs. NSU adjusteda** | |
|  | N=767 | N=1379 | OR [CI] | P | OR [CI] | P | N=764 | N=1382 | OR [CI] | P | OR [CI] | P |
|  |  |  |  |  | ***Model*** | <0.001 |  |  |  |  | ***Model*** | <0.001 |
| **Planned pregnancy** | 290 (58%) | 909 (85%) | 4.19 [3.28, 5.36] | <0.001 | 3.23 [2.44, 4.27] | <0.001 | 287 (58%) | 912 (85%) | 4.11 [3.22, 5.25] | <0.001 | 3.22 [2.42, 4.27] | <0.001 |
| **Age** |  |  |  | <0.001 |  |  |  |  |  | <0.001 |  |  |
| Under 25 years | 58 (11%) | 27 (3%) | 0.17 [0.10, 0.27] | <0.001 | 0.28 [0.16, 0.53] | <0.001 | 48 (10%) | 37 (3%) | 0.30 [0.19, 0.47] | <0.001 | 0.39 [0.21, 0.71] | <0.01 |
| 25-29 years | 174 (35%) | 266 (25%) | 0.55 [0.42, 0.71] | <0.001 | 0.65 [0.48, 0.88] | <0.01 | 164 (33%) | 276 (26%) | 0.65 [ 0.50, 0.85] | <0.01 | 0.77 [0.56, 1.04] | 0.09 |
| 30-34 years | 166 (33%) | 461 (43%) | 1 |  | 1 |  | 175 (35%) | 452 (42%) | 1 |  | 1 |  |
| 35-40 years | 85 (17%) | 266 (25%) | 1.13 [0.83, 1.52] | 0.44 | 1.26 [0.90, 1.76] | 0.18 | 89 (18%) | 262 (24%) | 1.14 [0.85, 1.53] | 0.39 | 1.15 [0.82, 1.60] | 0.43 |
| Over 40 years | 19 (4%) | 48 (4%) | 0.91 [0.52, 1.59] | 0.74 | 1.18 [0.63, 2.22] | 0.6 | 20 (4%) | 47 (4%) | 0.91 [0.52, 1.58] | 0.74 | 1.10 [0.59, 2.07] | 0.77 |
| **BMIb** | 24.7 + 5.8 | 24.8 + 5.8 | 1.00 [0.98, 1.01] | 0.67 |  |  | 24.8 + 5.7 | 24.7 + 5.8 | 0.99 [0.98, 1.01] | 0.6 |  |  |
| **Ethnicity** |  |  |  | <0.001 |  |  |  |  |  | <0.001 |  |  |
| Caucasian | 365 (73%) | 881 (83%) | 1 |  | 1 |  | 359 (72%) | 887 (83%) | 1 |  | 1 |  |
| Asian | 103 (20%) | 126 (12%) | 0.51 [0.38, 0.68] | <0.001 | 0.38 [0.27, 0.55] | <0.001 | 103 (21%) | 126 (12%) | 0.5 [0.37, 0.66] | <0.001 | 0.31 [0.21, 0.46] | <0.001 |
| Other | 34 (7%) | 59 (5%) | 0.72 [0.46, 1.12] | 0.14 | 0.72 [0.42, 1.21] | 0.21 | 34 (7%) | 59 (6%) | 0.7 [0.45, 1.09] | 0.12 | 0.58 [0.34, 0.97] | <0.05 |
| **Parity** |  |  |  | <0.001 |  |  |  |  |  | <0.001 |  |  |
| No previous children | 220 (45%) | 528 (50%) | 1 |  | 1 |  | 214 (44%) | 534 (50%) | 1 |  | 1 |  |
| 1 previous child | 163 (33%) | 405 (39%) | 1.04 [0.81, 1.32] | 0.78 | 0.71 [0.53, 0.94] | <0.05 | 166 (34%) | 402 (38%) | 0.97 [0.76, 1.23] | 0.81 | 0.77 [0.58, 1.02] | 0.07 |
| >1 previous children | 108 (22%) | 120 (11%) | 0.46 [0.34, 0.63] | <0.001 | 0.38 [0.26, 0.56] | <0.001 | 106 (22%) | 122 (12%) | 0.46 [0.34, 0.63] | <0.001 | 0.43 [0.29, 0.63] | <0.001 |
| **Maternal education** |  |  |  | <0.001 |  |  |  |  |  | <0.001 |  |  |
| Tertiary | 227 (45%) | 660 (62%) | 1 |  | 1 |  | 221 (45%) | 666 (62%) | 1 |  | 1 |  |
| Trade / Diploma | 146 (29%) | 261 (24%) | 0.61 [0.48, 0.79] | <0.001 | 0.72 [0.53, 0.97] | <0.05 | 156 (32%) | 251 (23%) | 0.53 [0.42, 0.69] | <0.001 | 0.59 [0.43, 0.80] | 0.001 |
| Secondary schooling | 128 (26%) | 145 (14%) | 0.39 [0.29, 0.52] | <0.001 | 0.54 [0.38, 0.78] | <0.01 | 118 (24%) | 155 (14%) | 0.44 [0.33, 0.58] | <0.001 | 0.49 [0.35, 0.71] | <0.001 |
| **Annual household income (AUD)** |  |  |  | <0.001 |  |  |  |  |  | <0.001 |  |  |
| >$100K p/annum | 135 (29%) | 458 (45%) | 1 |  | 1 |  | 148 (32%) | 445 (43%) | 1 |  | 1 |  |
| $70-100K p/annum | 128 (27%) | 268 (26%) | 0.62 [0.46, 0.82] | 0.001 | 0.77 [0.56, 1.06] | 0.11 | 121 (26%) | 275 (27%) | 0.76 [0.57, 1.00] | 0.05 | 0.90 [0.65, 1.24] | 0.51 |
| $30-69K p/annum | 128 (27%) | 207 (20%) | 0.48 [0.36, 0.64] | <0.001 | 0.91 [0.64, 1.28] | 0.58 | 122 (26%) | 213 (21%) | 0.58 [0.43, 0.78] | <0.001 | 1.07 [0.75, 1.52] | 0.71 |
| <$30K p/annum | 81 (17%) | 96 (9%) | 0.35 [0.25, 0.50] | <0.001 | 0.61 [0.41, 0.91] | <0.05 | 75 (16%) | 102 (10%) | 0.45 [0.32, 0.64] | <0.001 | 0.73 [0.48, 1.10] | 0.14 |
| **Smoker** | 113 (23%) | 131 (12%) | 0.48 [0.37, 0.64] | <0.001 | 0.53 [0.38, 0.74] | <0.001 | 96 (20%) | 119 (11%) | 0.52 [0.38, 0.69] | <0.001 | 0.67 [0.47, 0.96] | <0.05 |
| **Consumed alcohol** | 371 (74%) | 773 (73%) | 0.94 [0.74-1.19] | 0.6 |  |  | 284 (59%) | 539 (52%) | 0.80 [0.65-0.98] | <0.05 | 0.62 [0.48-0.80] | <0.001 |
| **Dietary folate**  **(mcg/day) b** | 241 + 99 | 258 + 113 | 5.37 [1.81, 15.93] | <0.01 | 5.24 [1.55, 17.73] | <0.01 | 243 + 101 | 256 + 112 | 3.56 [1.15, 10.20] | <0.01 | 4.61 [1.39, 15.28] | <0.05 |

aAll variables were mutually adjusted for each other. bDisplayed as mean (M) and standard deviation (SD). Some sample sizes are less than the total sample owing to missing data.

*Abbreviations:* NSU = Non Supplement Users, SU = Supplement Users

**Table S1(b).** Univariate and multivariate models of variables associated with overall supplement use in trimester one, post pregnancy awareness, showing individual odds ratios (OR) and 95% confidence intervals (CI).

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **TRIMESTER ONE, POST AWARENESS** | | | | | |
|  |
|  | **NSU** | **SU** | **SU vs. NSU unadjusted** | | **SU vs. NSU adjusteda** | |
|  | N = 194 | N = 1952 | OR [CI] | P | OR [CI] | P |
|  |  |  |  |  | ***Model*** | <0.001 |
| **Planned pregnancy** | 59 (60%) | 1140 (77%) | 2.36 [1.55, 3.60] | <0.01 | 2.03 [1.26, 3.27] | <0.01 |
| **Age** |  |  |  | <0.001 |  |  |
| Under 25 years | 14 (14%) | 71 (5%) | 0.24 [0.12, 0.47] | <0.001 | 0.33 [0.14, 0.74] | <0.01 |
| 25-29 years | 35 (35%) | 405 (28%) | 0.54 [0.32, 0.90] | <0.05 | 0.75 [0.42, 1.35] | 0.34 |
| 30-34 years | 28 (28%) | 599 (41%) | 1 |  | 1 |  |
| 35-40 years | 17 (17%) | 334 (23%) | 0.92 [0.50, 1.70] | 0.79 | 0.86 [0.45, 1.63] | 0.64 |
| Over 40 years | 6 (6%) | 61 (4%) | 0.48 [0.19, 1.19] | 0.11 | 0.63 [0.22, 1.81] | 0.39 |
| **BMIb** | 25.5 + 6.1 | 24.7 + 5.7 | 0.98 [0.95, 1.01] | 0.21 |  |  |
| **Ethnicity** |  |  |  | <0.01 |  |  |
| Caucasian | 64 (64%) | 1182 (81%) | 1 |  | 1 |  |
| Asian | 28 (28%) | 201 (14%) | 0.39 [0.24, 0.62] | <0.001 | 0.31 [0.17, 0.55] | <0.001 |
| Other | 8 (8%) | 85 (6%) | 0.58 [0.27, 1.24] | 0.16 | 0.53 [0.24, 1.21] | 0.13 |
| **Parity** |  |  |  | 0.05 |  |  |
| No previous children | 40 (40%) | 708 (49%) | 1 |  | 1 |  |
| 1 previous child | 36 (36%) | 532 (37%) | 0.83 [0.52, 1.33] | 0.45 | 0.79 [0.47, 1.34] | 0.39 |
| >1 previous children | 23 (23%) | 205 (14%) | 0.50 [0.29, 0.86] | <0.05 | 0.61 [0.32, 1.16] | 0.13 |
| **Maternal education** |  |  |  | <0.01 |  |  |
| Tertiary | 35 (35%) | 852 (58%) | 1 |  | 1 |  |
| Trade / Diploma | 37 (37%) | 270 (18%) | 0.41 [0.25, 0.66] | <0.001 | 0.43 [0.25, 0.75] | <0.01 |
| Secondary schooling | 27 (27%) | 246 (17%) | 0.37 [0.22, 0.63] | <0.001 | 0.40 [0.21, 0.75] | <0.01 |
| **Annual household income (AUD)** |  |  |  | <0.01 |  |  |
| >$100K p/annum | 18 (20%) | 575 (41%) | 1 |  | 1 |  |
| $70-100K p/annum | 23 (26%) | 373 (26%) | 0.51 [0.27, 0.95] | <0.05 | 0.66 [0.34, 1.27] | 0.21 |
| $30-69K p/annum | 31 (34%) | 304 (22%) | 0.31 [0.17, 0.56] | <0.001 | 0.63 [0.33, 1.21] | 0.17 |
| <$30K p/annum | 18 (20%) | 159 (11%) | 0.28 [0.14, 0.54] | <0.001 | 0.53 [0.26, 1.10] | 0.09 |
| **Smoker** | 9 (9%) | 69 (5%) | 0.49 [0.23, 1.00] | 0.07 |  |  |
| **Consumed alcohol** | 17 (18%) | 311 (21%) | 1.28 [0.75-2.16] | 0.37 |  |  |
| **Dietary folate**  **(mcg/day) b** | 246 + 129 | 253 + 107 | 1.93 [0.31, 12.24] | 0.48 |  |  |

aAll variables were mutually adjusted for each other. bDisplayed as mean (M) and standard deviation (SD). Some sample sizes are less than the total sample owing to missing data.

*Abbreviations:* NSU = Non Supplement Users, SU = Supplement Users

**Table S1(c).** Univariate and multivariate models of variables associated with overall supplement use in mid-late pregnancy, showing individual odds ratios (OR) and 95% confidence intervals (CI).

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **TRIMESTER TWO** | | | | | | **TRIMESTER THREE** | | | | | |
|  |
|  | **NSU** | **SU** | **SU vs. NSU unadjusted** | | **SU vs. NSU adjusteda** | | **NSU** | **SU** | **SU vs. NSU unadjusted** | | **SU vs. NSU adjusteda** | |
|  | N = 210 | N = 1505 | OR [CI] | P | OR [CI] | P | N = 137 | N = 1434 | OR [CI] | P | OR [CI] | P |
|  |  |  |  |  | ***Model*** | <0.001 |  |  |  |  | ***Model*** | <0.001 |
| **Planned pregnancy** | 132 (71%) | 1067 (77%) | 1.36 [0.97, 1.92] | 0.08 |  |  | 100 (73%) | 1099 (77%) | 1.23 [0.83, 1.83] | 0.3 |  |  |
| **Age** |  |  |  | <0.05 |  |  |  |  |  | <0.01 |  |  |
| Under 25 years | 20 (11%) | 65 (5%) | 0.40 [0.23, 0.69] | <0.01 | 0.62 [0.27, 1.39] | 0.24 | 19 (14%) | 66 (5%) | 0.31 [0.17, 0.55] | <0.001 | 0.43 [0.22, 0.83] | <0.05 |
| 25-29 years | 53 (29%) | 387 (28%) | 0.89 [0.61, 1.30] | 0.54 | 0.75 [0.49, 1.16] | 0.2 | 44 (32%) | 396 (28%) | 0.77 [0.52, 1.22] | 0.29 | 0.86 [0.55, 1.35] | 0.52 |
| 30-34 years | 68 (37%) | 559 (40%) | 1 |  | 1 |  | 51 (37%) | 576 (40%) | 1 |  | 1 |  |
| 35-40 years | 35 (19%) | 316 (23%) | 1.10 [0.71, 1.69] | 0.67 | 1.21 [0.75, 1.95] | 0.43 | 22 (16%) | 329 (23%) | 1.32 [0.79, 2.22] | 0.29 | 1.43 [0.83, 2.45] | 0.19 |
| Over 40 years | 9 (5%) | 58 (4%) | 0.78 [0.37, 1.65] | 0.52 | 0.84 [0.37, 1.90] | 0.68 | 1 (1%) | 66 (5%) | 5.84 [0.79, 42.98] | 0.08 | 5.72 [0.77, 42.39] | 0.09 |
| **BMIb** | 24.6 + 5.7 | 25.8 + 6.4 | 0.97 [0.95, 0.99] | <0.05 | 0.96 [0.94, 0.99] | <0.01 | 24.6 + 5.6 | 26.3 + 7.2 | 0.96 [0.93, 0.98] | <0.01 | 0.97 [0.94, 0.99] | <0.05 |
| **Ethnicity** |  |  |  | 0.8 |  |  |  |  |  | 0.5 |  |  |
| Caucasian | 145 (78%) | 1101 (80%) | 1 |  |  |  | 114 (83%) | 1132 (79%) | 1 |  |  |  |
| Asian | 27 (15%) | 202 (15%) | 0.99 [0.64, 1.53] | 0.95 |  |  | 16 (12%) | 213 (15%) | 1.34 [0.78, 2.31] | 0.29 |  |  |
| Other | 13 (7%) | 80 (6%) | 0.81 [0.44, 1.49] | 0.5 |  |  | 7 (5%) | 86 (6%) | 1.24 [0.56, 2.74] | 0.6 |  |  |
| **Parity** |  |  |  | <0.001 |  |  |  |  |  | 0.22 |  |  |
| No previous children | 62 (35%) | 686 (50%) | 1 |  | 1 |  | 61 (45%) | 687 (49%) | 1 |  |  |  |
| 1 previous child | 72 (40%) | 496 (36%) | 0.62 [0.43, 0.89] | <0.05 | 0.58 [0.39, 0.88] | <0.01 | 47 (35%) | 521 (37%) | 0.98 [0.66, 1.46] | 0.94 |  |  |
| >1 previous children | 45 (25%) | 183 (13%) | 0.37 [0.24, 0.56] | <0.001 | 0.39 [0.23, 0.65] | <0.001 | 27 (20%) | 201 (14%) | 0.66 [0.41, 1.07] | 0.09 |  |  |
| **Maternal education** |  |  |  | <.01 |  |  |  |  |  | <0.001 |  |  |
| Tertiary | 82 (45%) | 805 (58%) | 1 |  | 1 |  | 48 (35%) | 839 (59%) | 1 |  | 1 |  |
| Trade / Diploma | 56 (31%) | 351 (25%) | 0.64 [0.44, 0.92] | <0.05 | 0.82 [0.54, 1.25] | 0.36 | 56 (41%) | 351 (25%) | 0.36 [0.24, 0.54] | <0.001 | 0.42 [0.27, 0.65] | <0.001 |
| Secondary schooling | 45 (25%) | 228 (16%) | 0.52 [0.35, 0.76] | <0.01 | 0.79 [0.48, 1.30] | 0.35 | 33 (24%) | 240 (17%) | 0.42 [0.26, 0.66] | <0.001 | 0.61 [0.36, 1.03] | 0.06 |
| **Annual household income (AUD)** |  |  |  | <0.05 |  |  |  |  |  | 0.55 |  |  |
| >$100K p/annum | 50 (30%) | 543 (41%) | 1 |  | 1 |  | 49 (39%) | 544 (40%) | 1 |  |  |  |
| $70-100K p/annum | 48 (29%) | 348 (26%) | 0.67 [0.44, 1.01] | 0.06 | 0.78 [0.50, 1.22] | 0.27 | 31 (25%) | 365 (27%) | 1.06 [0.66, 1.70] | 0.81 |  |  |
| $30-69K p/annum | 42 (25%) | 293 (22%) | 0.64 [0.42, 0.99] | <0.05 | 1.04 [0.63, 1.71] | 0.89 | 26 (21%) | 309 (22%) | 1.07 [0.65, 1.76] | 0.79 |  |  |
| <$30K p/annum | 28 (17%) | 149 (11%) | 0.49 [0.30, 0.81] | <0.01 | 0.71 [0.40, 1.25] | 0.23 | 20 (16%) | 157 (11%) | 0.71 [0.41, 1.22] | 0.22 |  |  |
| **Smoker** | 18 (10%) | 59 (4%) | 0.41 [0.24, 0.72] | <0.01 | 0.57 [0.30, 1.09] | 0.09 | 11 (8%) | 56 (4%) | 0.45 [0.24, 0.83] | <0.05 | 0.95 [0.43, 2.10] | 0.89 |
| **Consumed alcohol** | 59 (32%) | 422 (31%) | 0.94 [0.68-1.31] | 0.71 |  |  | 42 (31%) | 386 (27%) | 0.82 [0.56-1.20] | 0.31 |  |  |
| **Dietary folate**  **(mcg/day) b** | 239 + 98 | 254 + 110 | 4.5 [0.91, 22.16] | 0.07 |  |  | 245 + 111 | 255 + 110 | 2.60 [0.41, 16.46] | 0.31 |  |  |

aAll variables were mutually adjusted for each other. bDisplayed as mean (M) and standard deviation (SD). Some sample sizes are less than the total sample owing to missing data.

*Abbreviations:* NSU = Non Supplement Users, SU = Supplement Users

**Table S2(a).** Univariate and multivariate models of variables associated with pregnancy multivitamin use among supplement users peri-conceptionally, showing individual odds ratios (OR) and 95% confidence intervals (CI).

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **THREE MONTHS PRE-CONCEPTION** | | | | | | **PRIOR TO PREGNANCY AWARENESS** | | | | | |
|  |
|  | **NPMU** | **PMU** | **PMU vs. NPMU unadjusted** | | **PMU vs. NPMU adjusteda** | | **NPMU** | **PMU** | **PMU vs. NPMU unadjusted** | | **PMU vs. NPMU adjusteda** | |
|  | N = 846 | N = 533 | OR [CI] | P | OR [CI] | P | N = 826 | N = 556 | OR [CI] | P | OR [CI] | P |
|  |  |  |  |  | ***Model*** | <0.001 |  |  |  |  | ***Model*** | <0.001 |
| **Planned pregnancy** | 490 (78%) | 419 (96%) | 6.21 [3.78-10.21] | <0.001 | 5.90 [3.52-9.90] | <0.001 | 487 (79%) | 425 (94%) | 4.11 [2.68-6.31] | <0.001 | 3.80 [2.40-6.02] | <0.001 |
| **Age** |  |  |  | 0.56 |  |  |  |  |  | 0.08 |  |  |
| Under 25 years | 20 (3%) | 7 (2%) | 0.48 [1.20-1.16] | 0.1 |  |  | 26 (4%) | 11 (2%) | 0.49 [0.24-1.01] | 0.06 c | 0.76 [0.32-1.79 | 0.53 |
| 25-29 years | 156 (25%) | 110 (25%) | 0.97 [0.71-1.32] | 0.85 |  |  | 172 (28%) | 104 (23%) | 0.70 [0.51-0.95] | <0.05 | 0.77 [0.56-1.07] | 0.13 |
| 30-34 years | 267 (42%) | 194 (44%) | 1 |  |  |  | 242 (39%) | 210 (46%) | 1 |  | 1 |  |
| 35-40 years | 159 (25%) | 107 (24%) | 0.93 [0.68-1.26] | 0.62 |  |  | 152 (24%) | 110 (24%) | 0.83 [0.61-1.13] | 0.25 | 0.82 [0.59-1.14] | 0.24 |
| Over 40 years | 28 (4%) | 20 (5%) | 0.98 [0.54-1.80] | 0.96 |  |  | 29 (5%) | 18 (4%) | 0.72 [0.39-1.32] | 0.29 | 0.82 [0.42-1.60] | 0.57 |
| **BMIb** | 24.7 + 5.9 | 24.7 + 5.6 | 1.00 [0.98-1.02] | 0.84 |  |  | 24.6 + 5.8 | 24.9 + 5.9 | 1.01 [0.99-1.03] | 0.45 |  |  |
| **Ethnicity** |  |  |  | <0.001 |  |  |  |  |  | <0.001 |  |  |
| Caucasian | 498 (79%) | 383 (88%) | 1 |  | 1 |  | 486 (78%) | 401 (89%) | 1 |  | 1 |  |
| Asian | 93 (15%) | 33 (7%) | 0.46 [0.30-0.70] | <0.001 | 0.52 [0.33-0.82] | <0.01 | 94 (15%) | 32 (7%) | 0.41 [0.27-0.63] | <0.001 | 0.41 [0.26-0.65] | <0.001 |
| Other | 39 (6%) | 20 (5%) | 0.67 [0.38-1.16] | 0.15 | 0.62 [0.34-1.16] | 0.14 | 41 (7%) | 18 (4%) | 0.53 [0.30-0.94] | <0.05 | 0.59 [0.32-1.09] | 0.09 |
| **Parity** |  |  |  | 0.07 |  |  |  |  |  | 0.31 |  |  |
| No previous children | 305 (49%) | 223 (51%) | 1 |  |  |  | 304 (50%) | 230 (51%) | 1 |  |  |  |
| 1 previous child | 231 (37%) | 174 (40%) | 1.03 [0.79-1.34] | 0.82 |  |  | 227 (37%) | 175 (39%) | 1.02 [0.78-1.32] | 0.89 |  |  |
| >1 previous children | 82 (13%) | 38 (9%) | 0.63 [0.42-0.97] | <0.05 |  |  | 78 (13%) | 44 (10%) | 0.75 [0.50-1.12] | 0.16 |  |  |
| **Maternal education** |  |  |  | <0.05 |  |  |  |  |  | <0.05 |  |  |
| Tertiary | 385 (61%) | 275 (63%) | 1 |  | 1 |  | 383 (62%) | 283 (63%) | 1 |  | 1 |  |
| Trade / Diploma | 145 (23%) | 116 (27%) | 1.12 [0.84-1.50] | 0.44 | 1.17 [0.85-1.61] | 0.34 | 135 (22%) | 116 (26%) | 1.16 [0.87-1.56] | 0.32 | 1.18 [0.86-1.62] | 0.31 |
| Secondary schooling | 100 (16%) | 45 (10%) | 0.63 [0.43-0.93] | <0.05 | 0.63 [0.41-0.97] | <0.05 | 103 (17%) | 52 (11%) | 0.68 [0.46-0.99] | <0.05 | 0.77 [0.51-1.16] | 0.21 |
| **Annual household income (AUD)** |  |  |  | <0.05 |  |  |  |  |  | <0.01 |  |  |
| >$100K p/annum | 249 (42%) | 209 (49%) | 1 |  | 1 |  | 230 (39%) | 215 (49%) | 1 |  | 1 |  |
| $70-100K p/annum | 153 (36%) | 115 (27%) | 0.90 [0.66-1.21] | 0.48 | 1.00 [0.72-1.38] | 0.99 | 160 (27%) | 115 (26%) | 0.77 [0.57-1.04] | 0.09 | 0.84 [0.61-1.16] | 0.3 |
| $30-69K p/annum | 132 (22%) | 75 (17%) | 0.68 [0.48-0.95] | <0.05 | 0.88 [0.60-1.28] | 0.5 | 136 (23%) | 77 (18%) | 0.61 [0.43-0.85] | <0.01 | 0.81 [0.57-1.17] | 0.27 |
| <$30K p/annum | 65 (11%) | 31 (7%) | 0.57 [0.36-0.91] | <0.05 | 0.67 [0.40-1.12] | 0.12 | 69 (12%) | 33 (7%) | 0.51 [0.32-0.81] | <0.01 | 0.58 [0.36-0.95] | <0.05 |
| **Smoker** | 81 (13%) | 50 (12%) | 0.87 [0.60-1.27] | 0.48 |  |  | 77 (12%) | 42 (9%) | 0.73 [0.49-1.09] | 0.12 |  |  |
| **Consumed alcohol** | 461 (73%) | 312 (72%) | 0.91 [0.69-1.20] | 0.51 |  |  | 314 (52%) | 225 (51%) | 1.02 [0.81-1.28] | 0.85 |  |  |
| **Dietary folate**  **(mcg/day) b** | 255 + 113 | 261 + 113 | 1.62 [0.57-4.59] | 0.36 |  |  | 256 + 109 | 256 + 116 | 0.99 [0.35-2.80] | 0.98 |  |  |

aAll variables were mutually adjusted for each other. bDisplayed as mean (M) and standard deviation (SD). Some sample sizes are less than the total sample owing to missing data. cIncluded in the multivariate model due to borderline univariate significance.

*Abbreviations:* NPMU = Non Pregnancy Multivitamin Users, PMU = Pregnancy Multivitamin Users

**Table S2(b).** Univariate and multivariate models of variables associated with pregnancy multivitamin use among supplement users in trimester one, post pregnancy awareness, showing individual odds ratios (OR) and 95% confidence intervals (CI).

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **TRIMESTER ONE, POST AWARENESS** | | | | | |
|  |
|  | **NPMU** | **PMU** | **PMU vs. NPMU unadjusted** | | **PMU vs. NPMU adjusteda** | |
|  | N = 938 | N = 1014 | OR [CI] | P | OR [CI] | P |
|  |  |  |  |  | ***Model*** | <0.001 |
| **Planned pregnancy** | 507 (77%) | 633 (78%) | 1.06 [0.83-1.35] | 0.65 |  |  |
| **Age** |  |  |  | 0.31 |  |  |
| Under 25 years | 39 (6%) | 32 (4%) | 0.61 [0.37-1.00] | 0.05 |  |  |
| 25-29 years | 187 (28%) | 218 (27%) | 0.87 [0.68-1.12] | 0.28 |  |  |
| 30-34 years | 256 (39%) | 343 (42%) | 1 |  |  |  |
| 35-40 years | 148 (22%) | 186 (23%) | 0.94 [0.72-1.23] | 0.64 |  |  |
| Over 40 years | 30 (5%) | 31 (4%) | 0.77 [0.46-1.31] | 0.33 |  |  |
| **BMIb** | 24.8 + 5.9 | 24.6 + 5.6 | 0.99 [0.98-1.01] | 0.49 |  |  |
| **Ethnicity** |  |  |  | <0.001 |  |  |
| Caucasian | 488 (74%) | 694 (86%) | 1 |  | 1 |  |
| Asian | 125 (19%) | 76 (9%) | 0.43 [0.31-0.58] | <0.001 | 0.42 [0.30-0.59] | <0.001 |
| Other | 47 (7%) | 38 (5%) | 0.57 [0.37-0.89] | <0.05 | 0.59 [0.37-0.95] | <0.05 |
| **Parity** |  |  |  | 0.76 |  |  |
| No previous children | 320 (49%) | 388 (49%) | 1 |  |  |  |
| 1 previous child | 232 (36%) | 300 (37%) | 1.07 [0.85-1.34] | 0.58 |  |  |
| >1 previous children | 95 (15%) | 110 (14%) | 0.95 [0.70-1.30] | 0.77 |  |  |
| **Maternal education** |  |  |  | 0.55 |  |  |
| Tertiary | 375 (57%) | 477 (59%) | 1 |  |  |  |
| Trade / Diploma | 167 (25%) | 203 (25%) | 0.96 [0.75-1.22] | 0.72 |  |  |
| Secondary schooling | 118 (18%) | 128 (16%) | 0.85 [0.64-1.13] | 0.27 |  |  |
| **Annual household income (AUD)** |  |  |  | <0.001 |  |  |
| >$100K p/annum | 220 (35%) | 355 (46%) | 1 |  | 1 |  |
| $70-100K p/annum | 167 (26%) | 206 (26%) | 0.76 [0.59-1.00 | 0.05 | 0.81 [0.62-1.06] | 0.13 |
| $30-69K p/annum | 157 (25%) | 147 (19%) | 0.58 [0.44-0.77] | <0.001 | 0.66 [0.49-0.89] | <0.01 |
| <$30K p/annum | 87 (14%) | 72 (9%) | 0.51 [0.36-0.73] | <0.001 | 0.59 [0.40-0.85] | <0.01 |
| **Smoker** | 39 (6%) | 30 (4%) | 0.61 [0.37-0.99] | 0.05 c | 0.61 [0.36-1.02] | 0.06 |
| **Consumed alcohol** | 125 (19%) | 186 (23%) | 1.31 [1.02-1.67] | <0.05 | 1.13 [0.88-1.45] | 0.35 |
| **Dietary folate**  **(mcg/day) b** | 244 + 93 | 260 + 117 | 4.44 [1.58-12.43] | <0.01 | 3.02 [1.02-8.89] | 0.05 |

aAll variables were mutually adjusted for each other. bDisplayed as mean (M) and standard deviation (SD). Some sample sizes are less than the total sample owing to missing data. cIncluded in the multivariate model due to borderline univariate significance.

*Abbreviations:* NPMU = Non Pregnancy Multivitamin Users, PMU = Pregnancy Multivitamin Users

**Table S2(c).** Univariate and multivariate models of variables associated with pregnancy multivitamin use among supplement users in mid-late pregnancy, showing individual odds ratios (OR) and 95% confidence intervals (CI).

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **TRIMESTER TWO** | | | | | | **TRIMESTER THREE** | | | | | |
|  |
|  | **NPMU** | **PMU** | **PMU vs. NPMU unadjusted** | | **PMU vs. NPMU adjusteda** | | **NPMU** | **PMU** | **PMU vs. NPMU unadjusted** | | **PMU vs. NPMU adjusteda** | |
|  | N = 632 | N = 873 | OR [CI] | P | OR [CI] | P | N = 717 | N = 717 | OR [CI] | P | OR [CI] | P |
|  |  |  |  |  | ***Model*** | <0.001 |  |  |  |  | ***Model*** | <0.001 |
| **Planned pregnancy** | 416 (75%) | 651 (79%) | 1.24 [0.96-1.60] | 0.09 |  |  | 533 (74%) | 566 (79%) | 1.32 [1.03-1.69] | <0.05 | 1.13 [0.86-1.49] | 0.39 |
| **Age** |  |  |  | <0.05 |  |  |  |  |  | <0.001 |  |  |
| Under 25 years | 34 (6%) | 31 (4%) | 0.58 [0.35-0.97] | <0.05 | 0.77 [0.43-1.38] | 0.38 | 43 (6%) | 23 (3%) | 0.49 [0.29-0.84] | <0.01 | 0.59 [0.31-1.12] | 0.12 |
| 25-29 years | 170 (31%) | 217 (26%) | 0.81 [0.62-1.05] | 0.12 | 0.93 [0.71-1.23] | 0.61 | 226 (32%) | 170 (24%) | 0.69 [0.53-0.90] | <0.01 | 0.74 [0.56-0.98] | <0.05 |
| 30-34 years | 217 (39%) | 342 (41%) | 1 |  | 1 |  | 276 (38%) | 300 (42%) | 1 |  | 1 |  |
| 35-40 years | 110 (20%) | 206 (25%) | 1.19 [0.89-1.58] | 0.24 | 1.20 [0.89-1.61] | 0.24 | 143 (20%) | 186 (26%) | 1.20 [0.91-1.57] | 0.2 | 1.31 [0.98-1.75] | 0.07 |
| Over 40 years | 26 (4%) | 32 (4%) | 0.78 [0.45-1.35] | 0.37 | 0.83 [0.47-1.47] | 0.53 | 29 (4%) | 37 (5%) | 1.17 [0.70-1.96] | 0.54 | 1.40 [0.81-2.42] | 0.23 |
| **BMIb** | 24.6 + 5.6 | 24.6 + 5.7 | 1.00 [0.98-1.02] | 0.82 |  |  | 24.4 + 5.6 | 24.8 + 5.6 | 1.01 [1.00-1.03] | 0.14 |  |  |
| **Ethnicity** |  |  |  | <0.001 |  |  |  |  |  | <0.001 |  |  |
| Caucasian | 400 (72%) | 701 (85%) | 1 |  | 1 |  | 526 (73%) | 606 (85%) | 1 |  | 1 |  |
| Asian | 119 (21%) | 83 (10%) | 0.40 [0.29-0.54] | <0.001 | 0.48 [0.35-0.67] | <0.001 | 141 (20%) | 72 (10%) | 0.44 [0.33-0.60] | <0.001 | 0.49 [0.35-0.69] | <0.001 |
| Other | 38 (7%) | 42 (5%) | 0.63 [0.40-0.99] | 0.05 | 0.72 [0.44-1.16] | 0.18 | 50 (7%) | 36 (5%) | 0.62 [0.40-0.97] | <0.05 | 0.75 [0.46-1.20] | 0.23 |
| **Parity** |  |  |  | 0.32 |  |  |  |  |  | 0.08 |  |  |
| No previous children | 265 (48%) | 421 (51%) | 1 |  |  |  | 323 (46%) | 364 (52%) | 1 |  | 1 |  |
| 1 previous child | 200 (37%) | 296 (36%) | 0.93 [0.74-1.18] | 0.56 |  |  | 273 (39%) | 248 (35%) | 0.81 [0.64-1.01] | 0.06c | 0.70 [0.55-0.90] | <0.01 |
| >1 previous children | 82 (15%) | 101 (12%) | 0.78 [0.56-1.08] | 0.13 |  |  | 109 (15%) | 92 (13%) | 0.75 [0.55-1.03] | 0.07 | 0.63 [0.44-0.91] | <0.05 |
| **Maternal education** |  |  |  | 0.85 |  |  |  |  |  | 0.1 |  |  |
| Tertiary | 94 (17%) | 134 (16%) | 1 |  |  |  | 129 (18%) | 440 (61%) | 1 |  |  |  |
| Trade / Diploma | 137 (25%) | 214 (26%) | 1.06 [0.82-1.37] | 0.64 |  |  | 186 (26%) | 165 (23%) | 0.80 [0.63-1.03] | 0.09 |  |  |
| Secondary schooling | 326 (58%) | 479 (58%) | 0.97 [0.72-1.31] | 0.84 |  |  | 399 (56%) | 111 (16%) | 0.78 [0.59-1.04] | 0.09 |  |  |
| **Annual household income (AUD)** |  |  |  | <0.001 |  |  |  |  |  | <0.001 |  |  |
| >$100K p/annum | 188 (35%) | 355 (44%) | 1 |  | 1 |  | 91 (13%) | 66 (10%) | 1 |  | 1 |  |
| $70-100K p/annum | 138 (26%) | 210 (26%) | 0.81 [0.61-1.06] | 0.13 | 0.85 [0.64-1.13] | 0.27 | 170 (25%) | 139 (20%) | 0.68 [0.52-0.89] | <0.01 | 0.75 [0.57-1.00] | 0.05 |
| $30-69K p/annum | 131 (25%) | 162 (20%) | 0.65 [0.49-0.88] | <0.01 | 0.78 [0.57-1.05] | 0.11 | 190 (28%) | 175 (25%) | 0.60 [0.46-0.80] | <0.001 | 0.79 [0.58-1.07] | 0.12 |
| <$30K p/annum | 76 (14%) | 73 (9%) | 0.51 [0.35-0.73] | <0.001 | 0.55 [0.38-0.81] | <0.01 | 231 (34%) | 313 (45%) | 0.54 [0.37-0.77] | 0.001 | 0.65 [0.44-0.95] | <0.05 |
| **Smoker** | 24 (4%) | 35 (4%) | 0.98 [0.57-1.66] | 0.93 |  |  | 24 (3%) | 32 (4%) | 1.35 [0.77-2.32] | 0.28 |  |  |
| **Consumed alcohol** | 132 (24%) | 290 (35%) | 1.74 [1.36-2.21] | <0.001 | 1.44 [1.11-1.87] | <0.01 | 157 (22%) | 229 (32%) | 1.67 [1.31-2.11] | <0.001 | 1.36 [1.05-1.76] | <0.05 |
| **Dietary folate**  **(mcg/day) b** | 245 + 100 | 260 + 117 | 3.76 [1.32-10.71] | <0.05 | 2.39 [0.83-6.89] | 0.11 | 247 + 92 | 263 + 125 | 4.06 [1.43-11.52] | <0.01 | 2.77 [0.98-7.87] | 0.06 |

aAll variables were mutually adjusted for each other. bDisplayed as mean (M) and standard deviation (SD). Some sample sizes are less than the total sample owing to missing data. cIncluded in the multivariate model due to borderline univariate significance.

*Abbreviations:* NPMU = Non Pregnancy Multivitamin Users, PMU = Pregnancy Multivitamin Users

**Table S3(a).** Univariate and multivariate models of variables associated with general multivitamin use among supplement users peri-conceptionally, showing individual odds ratios (OR) and 95% confidence intervals (CI).

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **THREE MONTHS PRE-CONCEPTION** | | | | | | **PRIOR TO PREGNANCY AWARENESS** | | | | | |
|  |
|  | **NGMU** | **GMU** | **GMU vs. NGMU unadjusted** | | **GMU vs. NGMU adjusteda** | | **NGMU** | **GMU** | **GMU vs. NGMU unadjusted** | | **GMU vs. NGMU adjusteda** | |
|  | N = 846 | N = 533 | OR [CI] | P | OR [CI] | P | N = 826 | N = 556 | OR [CI] | P | OR [CI] | P |
|  |  |  |  |  | ***Model*** | <0.001 |  |  |  |  | ***Model*** | <0.001 |
| **Planned pregnancy** | 639 (90%) | 270 (76%) | 0.35 [0.25-0.49] | <0.001 | 0.34 [0.24-0.49] | <0.001 | 647 (89%) | 265 (76%) | 0.39 [0.28-0.55] | <0.001 | 0.44 [0.31-0.64] | <0.001 |
| **Age** |  |  |  | 0.07 |  |  |  |  |  | 0.24 |  |  |
| Under 25 years | 13 (2%) | 14 (4%) | 1.88 [0.86-4.09] | 0.11 | 1.23 [0.54-2.78] | 0.63 | 19 (3%) | 18 (5%) | 1.91 [0.97-3.74] | 0.06 c | 1.20 [0.55-2.63] | 0.64 |
| 25-29 years | 188 (26%) | 78 (22%) | 0.72 [0.52-1.00] | 0.05c | 0.64 [0.46-0.90] | <0.05 | 188 (26%) | 88 (25%) | 0.94 [0.68-1.30] | 0.72 | 0.82 [0.58-1.15] | 0.25 |
| 30-34 years | 293 (41%) | 168 (47%) | 1 |  | 1 |  | 302 (42%) | 150 (43%) | 1 |  | 1 |  |
| 35-40 years | 183 (26%) | 83 (23%) | 0.79 [0.57-1.09] | 0.15 | 0.78 [0.56-1.08] | 0.14 | 185 (25%) | 77 (22%) | 0.84 [0.60-1.17] | 0.29 | 0.86 [0.61-1.22] | 0.41 |
| Over 40 years | 34 (5%) | 14 (4%) | 0.72 [0.37-1.38] | 0.34 | 0.59 [0.30-1.15] | 0.12 | 32 (4%) | 15 (4%) | 0.94 [0.50-1.80] | 0.86 | 0.84 [0.42-1.66] | 0.62 |
| **BMIb** | 24.7 + 5.8 | 24.6 + 5.8 | 1.00 [0.97-1.02] | 0.79 |  |  | 24.9 + 6.0 | 24.4 + 5.5 | 0.98 [0.96-1.01] | 0.2 |  |  |
| **Ethnicity** |  |  |  | 0.57 |  |  |  |  |  | 0.01 |  |  |
| Caucasian | 592 (84%) | 289 (81%) | 1 |  |  |  | 616 (85%) | 271 (78%) | 1 |  | 1 |  |
| Asian | 79 (11%) | 47 (13%) | 1.22 [0.83-1.80] | 0.34 |  |  | 72 (10%) | 54 (15%) | 1.70 [1.17-2.49] | <.01 | 1.79 [1.18-2.73] | <0.01 |
| Other | 38 (5%) | 21 (6%) | 1.13 [0.65-1.96] | 0.66 |  |  | 36 (5%) | 23 (7%) | 1.45 [0.84-2.50] | 0.18 | 1.32 [0.72-2.41] | 0.37 |
| **Parity** |  |  |  | 0.05 |  |  |  |  |  | 0.27 |  |  |
| No previous children | 346 (49%) | 182 (52%) | 1 |  |  |  | 351 (49%) | 183 (54%) | 1 |  |  |  |
| 1 previous child | 284 (41%) | 121 (34%) | 0.81 [0.61-1.07] | 0.14 |  |  | 284 (40%) | 118 (34%) | 0.80 [0.60-1.05] | 0.11 |  |  |
| >1 previous children | 70 (10%) | 50 (14%) | 1.36 [0.91-2.04] | 0.14 |  |  | 81 (11%) | 41 (12%) | 0.97 [0.64-1.47] | 0.89 |  |  |
| **Maternal education** |  |  |  | <0.05 |  |  |  |  |  | <0.05 |  |  |
| Tertiary | 446 (63%) | 214 (60%) | 1 |  | 1 |  | 461 (64%) | 205 (59%) | 1 |  | 1 |  |
| Trade / Diploma | 181 (25%) | 80 (22%) | 0.92 [0.68-1.26] | 0.6 | 0.92 [0.67-1.23] | 0.62 | 172 (24%) | 79 (23%) | 1.03 [0.76-1.41] | 0.84 | 1.05 [0.74-1.48] | 0.78 |
| Secondary schooling | 82 (12%) | 63 (18%) | 1.60 [1.11-2.31] | <0.05 | 1.61 [1.10-2.36] | <0.05 | 91 (13%) | 64 (18%) | 1.58 [1.10-2.27] | <0.05 | 1.44 [0.96-2.18] | 0.08 |
| **Annual household income (AUD)** |  |  |  | 0.56 |  |  |  |  |  | 0.16 |  |  |
| >$100K p/annum | 311 (45%) | 147 (43%) | 1 |  |  |  | 316 (45%) | 129 (39%) | 1 |  | 1 |  |
| $70-100K p/annum | 180 (26%) | 88 (26%) | 1.03 [0.75-1.43] | 0.84 |  |  | 187 (27%) | 88 (27%) | 1.15 [0.83-1.60] | 0.39 | 1.06 [0.75-1.48] | 0.75 |
| $30-69K p/annum | 140 (20%) | 67 (20%) | 1.01 [0.71-1.44] | 0.95 |  |  | 138 (20%) | 75 (23%) | 1.33 [0.94-1.89] | 0.11 | 1.07 [0.73-1.55] | 0.74 |
| <$30K p/annum | 58 (8%) | 38 (11%) | 1.39 [0.88-2.18] | 0.16 |  |  | 62 (9%) | 40 (12%) | 1.58 [1.01-2.47] | 0.05 c | 1.33 [0.69-1.68] | 0.24 |
| **Smoker** | 82 (12%) | 49 (14%) | 1.22 [0.83-1.78] | 0.31 |  |  | 71 (10%) | 48 (14%) | 1.45 [0.98-2.15] | 0.06 c | 1.08 [0.69-1.68] | 0.74 |
| **Consumed alcohol** | 510 (72%) | 263 (74%) | 1.12 [0.84-1.49] | 0.46 |  |  | 364 (52%) | 175 (51%) | 0.96 [0.75-1.22] | 0.75 |  |  |
| **Dietary folate**  **(mcg/day) b** | 257 + 120 | 260 + 97 | 1.26 [0.43-3.65] | 0.67 |  |  | 256 + 119 | 256 + 98 | 0.97 [0.32-2.92] | 0.96 |  |  |

aAll variables were mutually adjusted for each other. bDisplayed as mean (M) and standard deviation (SD). Some sample sizes are less than the total sample owing to missing data. cIncluded in the multivariate model due to borderline univariate significance.

*Abbreviations:* NGMU = Non General Multivitamin Users, GMU = General Multivitamin Users

**Table S3(b).** Univariate and multivariate models of variables associated with general multivitamin use among supplement users in trimester one, post pregnancy awareness, showing individual odds ratios (OR) and 95% confidence intervals (CI).

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **TRIMESTER ONE, POST AWARENESS** | | | | | |
|  |
|  | **NGMU** | **GMU** | **GMU vs. NGMU unadjusted** | | **GMU vs. NGMU adjusteda** | |
|  | N = 1295 | N = 657 | OR [CI] | P | OR [CI] | P |
|  |  |  |  |  | ***Model*** | <0.001 |
| **Planned pregnancy** | 783 (78%) | 357 (77%) | 0.96 [0.74-1.25] | 0.79 |  |  |
| **Age** |  |  |  | 0.62 |  |  |
| Under 25 years | 43 (4%) | 28 (6%) | 1.40 [0.85-2.33] | 0.19 |  |  |
| 25-29 years | 278 (28%) | 127 (27%) | 0.98 [0.74-1.29] | 0.9 |  |  |
| 30-34 years | 409 (41%) | 190 (41%) | 1 |  |  |  |
| 35-40 years | 233 (23%) | 101 (22%) | 0.93 [0.70-1.25] | 0.64 |  |  |
| Over 40 years | 44 (4%) | 17 (4%) | 0.83 [0.46-1.49] | 0.54 |  |  |
| **BMIb** | 24.8 + 5.8 | 24.5 + 5.7 | 1.00 [0.97-1.01] | 0.45 |  |  |
| **Ethnicity** |  |  |  | <0.001 |  |  |
| Caucasian | 845 (84%) | 337 (73%) | 1 |  | 1 |  |
| Asian | 108 (11%) | 93 (20%) | 2.16 [1.59-2.93] | <0.001 | 1.91 [1.38-2.65] | <0.001 |
| Other | 52 (5%) | 33 (7%) | 1.59 [1.01-2.51] | 0.05 | 1.50 [0.93-2.42] | 0.1 |
| **Parity** |  |  |  | 0.62 |  |  |
| No previous children | 479 (48%) | 229 (50%) | 1 |  |  |  |
| 1 previous child | 366 (37%) | 166 (37%) | 0.95 [0.74-1.21] | 0.67 |  |  |
| >1 previous children | 146 (15%) | 59 (13%) | 0.85 [0.60-1.19] | 0.33 |  |  |
| **Maternal education** |  |  |  | 0.66 |  |  |
| Tertiary | 584 (58%) | 268 (58%) | 1 |  |  |  |
| Trade / Diploma | 258 (26%) | 112 (24%) | 0.95 [0.73-1.23] | 0.68 |  |  |
| Secondary schooling | 163 (16%) | 83 (18%) | 1.11 [0.82-1.50] | 0.5 |  |  |
| **Annual household income (AUD)** |  |  |  | <0.001 |  |  |
| >$100K p/annum | 426 (44%) | 149 (34%) | 1 |  | 1 |  |
| $70-100K p/annum | 254 (26%) | 119 (27%) | 1.34 [1.01-1.78] | 0.05 | 1.26 [0.94-1.69] | 0.12 |
| $30-69K p/annum | 194 (20%) | 110 (25%) | 1.62 [1.20-2.19] | <0.01 | 1.46 [1.07-1.98] | <0.05 |
| <$30K p/annum | 95 (9%) | 64 (14%) | 1.93 [1.33-2.78] | <0.001 | 1.83 [1.26-2.66] | <0.01 |
| **Smoker** | 44 (4%) | 25 (5%) | 1.25 [0.76-2.07] | 0.38 |  |  |
| **Consumed alcohol** | 229 (23%) | 82 (18%) | 0.72 [0.54-0.94] | <0.05 | 0.83 [0.62-1.09] | 0.18 |
| **Dietary folate**  **(mcg/day) b** | 256 + 112 | 224 + 95 | 0.30 [0.10-0.92] | <0.05 | 0.38 [0.12-1.22] | 0.12 |

aAll variables were mutually adjusted for each other. bDisplayed as mean (M) and standard deviation (SD). Some sample sizes are less than the total sample owing to missing data.

*Abbreviations:* NGMU = Non General Multivitamin Users, GMU = General Multivitamin Users

**Table S3(c).** Univariate and multivariate models of variables associated with general multivitamin use among supplement users in mid-late pregnancy, showing individual odds ratios (OR) and 95% confidence intervals (CI).

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **TRIMESTER TWO** | | | | | | **TRIMESTER THREE** | | | | | |
|  |
|  | **NGMU** | **GMU** | **GMU vs. NGMU unadjusted** | | **GMU vs. NGMU adjusteda** | | **NGMU** | **GMU** | **GMU vs. NGMU unadjusted** | | **GMU vs. NGMU adjusteda** | |
|  | N = 1044 | N = 461 | OR [CI] | P | OR [CI] | P | N = 877 | N = 557 | OR [CI] | P | OR [CI] | P |
|  |  |  |  |  | ***Model*** | <0.001 |  |  |  |  | ***Model*** | <0.001 |
| **Planned pregnancy** | 747 (77%) | 320 (78%) | 1.03 [0.78-1.36] | 0.81 |  |  | 665 (76%) | 434 (78%) | 1.10 [0.85-1.42] | 0.47 |  |  |
| **Age** |  |  |  | 0.36 |  |  |  |  |  | 0.51 |  |  |
| Under 25 years | 43 (4%) | 22 (5%) | 1.17 [0.68-2.02] | 0.57 |  |  | 40 (5%) | 26 (5%) | 1.04 [0.62-1.75] | 0.89 |  |  |
| 25-29 years | 266 (27%) | 121 (29%) | 1.04 [0.79-1.38] | 0.78 |  |  | 229 (26%) | 167 (30%) | 1.16 [0.90-1.51] | 0.26 |  |  |
| 30-34 years | 389 (40%) | 170 (41%) | 1 |  |  |  | 354 (40%) | 222 (40%) | 1 |  |  |  |
| 35-40 years | 236 (24%) | 80 (19%) | 0.78 [0.57-1.06] | 0.11 |  |  | 211 (24%) | 118 (21%) | 0.89 [0.67-1.18] | 0.42 |  |  |
| Over 40 years | 39 (4%) | 19 (5%) | 1.11 [0.63-1.99] | 0.71 |  |  | 42 (5%) | 24 (4%) | 0.91 [0.54-1.55] | 0.73 |  |  |
| **BMIb** | 24.7 + 5.8 | 24.3 + 5.4 | 0.99 [0.96-1.01] | 0.19 |  |  | 24.8 + 5.8 | 24.3 + 5.3 | 0.98 [0.96-1.00] | 0.07 |  |  |
| **Ethnicity** |  |  |  | <0.001 |  |  |  |  |  | <0.001 |  |  |
| Caucasian | 812 (84%) | 289 (70%) | 1 |  | 1 |  | 726 (83%) | 406 (73%) | 1 |  | 1 |  |
| Asian | 102 (10%) | 100 (24%) | 2.75 [2.03-3.74] | <0.001 | 2.34 [1.72-3.33] | <0.001 | 102 (12%) | 111 (20%) | 1.95 [1.45-2.61] | <0.001 | 1.81 [1.32-2.47] | <0.001 |
| Other | 57 (6%) | 23 (6%) | 1.13 [0.69-1.87] | 0.62 | 1.06 [0.62-1.80] | 0.84 | 47 (5%) | 39 (7%) | 1.48 [0.95-2.31] | 0.08 | 1.52 [0.97-2.39] | 0.07 |
| **Parity** |  |  |  | 0.19 |  |  |  |  |  | 0.97 |  |  |
| No previous children | 494 (51%) | 192 (48%) | 1 |  |  |  | 422 (49%) | 265 (49%) | 1 |  |  |  |
| 1 previous child | 349 (36%) | 147 (36%) | 1.08 [0.84-1.40] | 0.54 |  |  | 317 (37%) | 204 (37%) | 1.02 [0.81-1.29] | 0.84 |  |  |
| >1 previous children | 119 (12%) | 64 (16%) | 1.38 [0.98-1.96] | 0.07 |  |  | 124 (14%) | 77 (14%) | 0.99 [0.72-1.37] | 0.95 |  |  |
| **Maternal education** |  |  |  | 0.51 |  |  |  |  |  | 0.88 |  |  |
| Tertiary | 558 (58%) | 247 (60%) | 1 |  |  |  | 514 (59%) | 325 (59%) | 1 |  |  |  |
| Trade / Diploma | 255 (26%) | 96 (23%) | 0.85 [0.64-1.12] | 0.25 |  |  | 211 (24%) | 140 (25%) | 1.05 [0.81-1.35] | 0.71 |  |  |
| Secondary schooling | 159 (16%) | 69 (17%) | 0.98 [0.71-1.35] | 0.9 |  |  | 149 (17%) | 91 (16%) | 0.97 [0.72-1.30] | 0.82 |  |  |
| **Annual household income (AUD)** |  |  |  | <0.01 |  |  |  |  |  | 0.56 |  |  |
| >$100K p/annum | 406 (43%) | 137 (35%) | 1 |  | 1 |  | 346 (41%) | 198 (38%) | 1 |  |  |  |
| $70-100K p/annum | 244 (26%) | 104 (27%) | 1.26 [0.94-1.71] | 0.13 | 1.18 [0.87-1.60] | 0.29 | 215 (25%) | 150 (28%) | 1.22 [0.93-1.60] | 0.15 |  |  |
| $30-69K p/annum | 203 (21%) | 90 (23%) | 1.31 [0.96-1.80] | 0.09 | 1.09 [0.79-1.52] | 0.59 | 190 (22%) | 119 (23%) | 1.09 [0.82-1.46] | 0.54 |  |  |
| <$30K p/annum | 90 (10%) | 59 (15%) | 1.94 [1.33-2.84] | <0.01 | 1.81 [1.23-2.68] | <0.01 | 97 (12%) | 60 (11%) | 1.08 [0.75-1.56] | 0.68 |  |  |
| **Smoker** | 42 (4%) | 17 (4%) | 0.75 [0.41-1.35] | 0.33 |  |  | 42 (5%) | 14 (3%) | 0.83 [0.50-1.40] | 0.49 |  |  |
| **Consumed alcohol** | 324 (33%) | 98 (24%) | 0.63 [0.48-0.81] | <0.001 | 0.73 [0.55-0.97] | <0.05 | 253 (29%) | 133 (24%) | 0.78 [0.61-0.99] | <0.05 | 0.87 [0.66-1.13] | 0.31 |
| **Dietary folate**  **(mcg/day) b** | 256 + 115 | 248 + 97 | 0.45 [0.15-1.35] | 0.16 |  |  | 255 + 119 | 254 + 93 | 0.45 [0.15-1.35] | 0.16 |  |  |

aAll variables were mutually adjusted for each other. bDisplayed as mean (M) and standard deviation (SD). Some sample sizes are less than the total sample owing to missing data.

*Abbreviations:* NGMU = Non General Multivitamin Users, GMU = General Multivitamin Users

**Table S4(a).** Univariate and multivariate models of variables associated with folic acid supplement use among supplement users peri-conceptionally, showing individual odds ratios (OR) and 95% confidence intervals (CI).

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **THREE MONTHS PRE-CONCEPTION** | | | | | | **PRIOR TO PREGNANCY AWARENESS** | | | | | |
|  |
|  | **NFAU** | **FAU** | **FAU vs. NFAU unadjusted** | | **FAU vs. NFAU adjusteda** | | **NFAU** | **FAU** | **FAU vs. NFAU unadjusted** | | **FAU vs. NFAU adjusteda** | |
|  | N = 1050 | N = 329 | OR [CI] | P | OR [CI] | P | N = 1091 | N = 291 | OR [CI] | P | OR [CI] | P |
|  |  |  |  |  | ***Model*** | <0.001 |  |  |  |  | ***Model*** | <0.001 |
| **Planned pregnancy** | 665 (82%) | 244 (96%) | 4.87 [2.59-9.15] | <0.001 | 4.33 [2.29-8.18] | <0.001 | 699 (82%) | 213 (95%) | 4.13 [2.20-7.76] | <0.001 | 4.10 [2.11-7.97] | <0.001 |
| **Age** |  |  |  | 0.07 |  |  |  |  |  | 0.11 |  |  |
| Under 25 years | 23 (3%) | 4 (2%) | 0.55 [0.19-1.64] | 0.29 |  |  | 34 (4%) | 3 (1%) | 0.34 [0.10-1.12 | 0.08 |  |  |
| 25-29 years | 206 (25%) | 60 (23%) | 0.93 [0.65-1.33] | 0.69 |  |  | 219 (26%) | 57 (25%) | 0.99 [0.69-1.43] | 0.96 |  |  |
| 30-34 years | 351 (43%) | 110 (43%) | 1 |  |  |  | 358 (42%) | 94 (42%) | 1 |  |  |  |
| 35-40 years | 190 (24%) | 76 (30%) | 1.28 [0.91-1.80] | 0.16 |  |  | 198 (23%) | 64 (29%) | 1.23 [0.86-1.77] | 0.26 |  |  |
| Over 40 years | 42 (5%) | 6 (2%) | 0.46 [0.19-1.10] | 0.08 |  |  | 40 (5%) | 7 (3%) | 0.67 [0.29-1.54] | 0.34 |  |  |
| **BMIb** | 24.7 + 5.8 | 24.6 + 5.6 | 0.99 [0.97-1.02] | 0.67 |  |  | 24.8 + 5.9 | 24.5 + 5.5 | 0.99 [0.97-1.02] | 0.51 |  |  |
| **Ethnicity** |  |  |  | 0.88 |  |  |  |  |  | 0.7 |  |  |
| Caucasian | 667 (82%) | 214 (84%) | 1 |  |  |  | 703 (83%) | 184 (82%) | 1 |  |  |  |
| Asian | 98 (12%) | 28 (11%) | 0.89 [0.57-1.39] | 0.61 |  |  | 100 (12%) | 26 (11%) | 0.99 [0.63-1.58] | 0.98 |  |  |
| Other | 45 (6%) | 14 (5%) | 0.97 [0.52-1.80] | 0.92 |  |  | 44 (5%) | 15 (7%) | 1.30 [0.71-2.39] | 0.39 |  |  |
| **Parity** |  |  |  | 0.32 |  |  |  |  |  | 0.66 |  |  |
| No previous children | 399 (50%) | 129 (51%) | 1 |  |  |  | 426 (51%) | 108 (49%) | 1 |  |  |  |
| 1 previous child | 306 (38%) | 99 (40%) | 1.00 [0.74-1.35] | 0.99 |  |  | 313 (37%) | 89 (40%) | 1.12 [0.82-1.54] | 0.48 |  |  |
| >1 previous children | 98 (12%) | 22 (9%) | 0.69 [0.42-1.15] | 0.16 |  |  | 99 (12%) | 23 (11%) | 0.92 [0.56-1.51] | 0.73 |  |  |
| **Maternal education** |  |  |  | 0.44 |  |  |  |  |  | 0.41 |  |  |
| Tertiary | 493 (61%) | 167 (65%) | 1 |  |  |  | 518 (61%) | 148 (66%) | 1 |  |  |  |
| Trade / Diploma | 203 (25%) | 58 (23%) | 0.84 [0.60-1.19] | 0.33 |  |  | 202 (24%) | 49 (22%) | 0.85 [0.59-1.22] | 0.38 |  |  |
| Secondary schooling | 114 (14%) | 31 (12%) | 0.80 [0.52-1.24] | 0.32 |  |  | 127 (15%) | 28 (12%) | 0.77 [0.49-1.21] | 0.26 |  |  |
| **Annual household income (AUD)** |  |  |  | <0.05 |  |  |  |  |  | 0.13 |  |  |
| >$100K p/annum | 328 (42%) | 130 (52%) | 1 |  | 1 |  | 339 (42%) | 106 (48%) | 1 |  | 1 |  |
| $70-100K p/annum | 215 (28%) | 53 (22%) | 0.62 [0.43-0.89] | <0.05 | 0.66 [0.46-0.96] | <0.05 | 228 (28%) | 47 (22%) | 0.66 [0.45-0.97] | <0.05c | 0.70 [0.47-1.03] | 0.07 |
| $30-69K p/annum | 157 (20%) | 50 (20%) | 0.80 [0.55-1.17] | 0.26 | 0.89 [0.60-1.30] | 0.54 | 165 (20%) | 48 (22%) | 0.93 [0.63-1.37] | 0.72 | 1.04 [0.70-1.55] | 0.84 |
| <$30K p/annum | 80 (10%) | 16 (6%) | 0.50 [0.28-0.90] | <0.05 | 0.57 [0.32-1.02] | 0.06 | 84 (10%) | 18 (8%) | 0.69 [0.39-1.19] | 0.18 | 0.77 [0.44-1.35] | 0.37 |
| **Smoker** | 104 (13%) | 27 (11%) | 0.80 [0.51-1.25] | 0.33 |  |  | 98 (12%) | 21 (9%) | 0.78 [0.48-1.29] | 0.34 |  |  |
| **Consumed alcohol** | 583 (72%) | 190 (74%) | 1.11 [0.81-1.53] | 0.52 |  |  | 425 (51%) | 114 (53%) | 1.01 [0.77-1.34] | 0.93 |  |  |
| **Dietary folate**  **(mcg/day) b** | 257 + 117 | 259 + 100 | 1.18 [0.36-3.80] | 0.76 |  |  | 256 + 116 | 257 + 97 | 1.04 [0.30-3.62] | 0.95 |  |  |

aAll variables were mutually adjusted for each other. bDisplayed as mean (M) and standard deviation (SD). Some sample sizes are less than the total sample owing to missing data. cIncluded in the multivariate model due to univariate significance.

*Abbreviations:* NFAU = Non Folic Acid Supplement Users, FAU = Folic Acid Supplement Users

**Table S4(b).** Univariate and multivariate models of variables associated with folic acid supplement use among supplement users trimester one, post pregnancy awareness, showing individual odds ratios (OR) and 95% confidence intervals (CI).

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **TRIMESTER ONE, POST AWARENESS** | | | | | |
|  |
|  | **NFAU** | **FAU** | **FAU vs. NFAU unadjusted** | | **FAU vs. NFAU adjusteda** | |
|  | N = 1626 | N = 326 | OR [CI] | P | OR [CI] | P |
| **Planned pregnancy** | 970 (78%) | 170 (75%) | 0.81 [0.59-1.13] | 0.22 |  |  |
| **Age** |  |  |  | 0.88 |  |  |
| Under 25 years | 59 (5%) | 12 (5%) | 1.09 [0.57-2.11] | 0.79 |  |  |
| 25-29 years | 341 (27%) | 64 (28%) | 1.01 [0.71-1.43] | 0.96 |  |  |
| 30-34 years | 505 (41%) | 94 (41%) | 1 |  |  |  |
| 35-40 years | 286 (23%) | 48 (21%) | 0.90 [0.62-1.31] | 0.59 |  |  |
| Over 40 years | 49 (4%) | 12 (5%) | 1.32 [0.67-2.57] | 0.42 |  |  |
| **BMIb** | 24.8 + 5.8 | 24.4 + 5.4 | 0.99 [0.96-1.02] | 0.42 |  |  |
| **Ethnicity** |  |  |  | 0.32 |  |  |
| Caucasian | 1006 (81%) | 176 (77%) | 1 |  |  |  |
| Asian | 163 (13%) | 38 (17%) | 1.33 [0.90-1.96] | 0.15 |  |  |
| Other | 70 (6%) | 15 (6%) | 1.22 [0.69-2.19] | 0.49 |  |  |
| **Parity** |  |  |  | 0.9 |  |  |
| No previous children | 600 (49%) | 108 (48%) | 1 |  |  |  |
| 1 previous child | 450 (37%) | 82 (37%) | 1.01 [0.74-1.38] | 0.94 |  |  |
| >1 previous children | 171 (14%) | 34 (15%) | 1.10 [0.72-1.68] | 0.64 |  |  |
| **Maternal education** |  |  |  | 0.22 |  |  |
| Tertiary | 721 (58%) | 131 (57%) | 1 |  |  |  |
| Trade / Diploma | 303 (25%) | 67 (29%) | 1.22 [0.88-1.68] | 0.23 |  |  |
| Secondary schooling | 214 (17%) | 32 (14%) | 0.82 [0.54-1.25] | 0.36 |  |  |
| **Annual household income (AUD)** |  |  |  | 0.68 |  |  |
| >$100K p/annum | 489 (41%) | 86 (39%) | 1 |  |  |  |
| $70-100K p/annum | 318 (27%) | 55 (25%) | 0.98 [0.68-1.42] | 0.93 |  |  |
| $30-69K p/annum | 250 (21%) | 54 (24%) | 1.23 [0.85-1.78] | 0.28 |  |  |
| <$30K p/annum | 133 (11%) | 26 (12%) | 1.11 [0.69-1.79] | 0.67 |  |  |
| **Smoker** | 53 (4%) | 16 (7%) | 1.67 [0.94-2.98] | 0.08 |  |  |
| **Consumed alcohol** | 257 (21%) | 54 (24%) | 1.11 [0.82-1.50] | 0.49 |  |  |
| **Dietary folate**  **(mcg/day) b** | 252 + 110 | 254 + 92 | 1.20 [0.36-4.03] | 0.77 |  |  |

aAll variables were mutually adjusted for each other. bDisplayed as mean (M) and standard deviation (SD). Some sample sizes are less than the total sample owing to missing data.

*Abbreviations:* NFAU = Non Folic Acid Supplement Users, FAU = Folic Acid Supplement Users

**Table S4(c).** Univariate and multivariate models of variables associated with folic acid supplement use among supplement users in mid-late pregnancy, showing individual odds ratios (OR) and 95% confidence intervals (CI).

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **TRIMESTER TWO** | | | | | | **TRIMESTER THREE** | | | | | |
|  |
|  | **NFAU** | **FAU** | **FAU vs. NFAU unadjusted** | | **FAU vs. NFAU adjusteda** | | **NFAU** | **FAU** | **FAU vs. NFAU unadjusted** | | **FAU vs. NFAU adjusteda** | |
|  | N = 1381 | N = 124 | OR [CI] | P | OR [CI] | P | N = 1366 | N = 68 | OR [CI] | P | OR [CI] | P |
| **Planned pregnancy** | 996 (78%) | 71 (70%) | 0.65 [0.42-1.01] | 0.06 |  |  | 1045 (77%) | 54 (79%) | 1.17 [0.64-2.13] | 0.62 |  |  |
| **Age** |  |  |  | 0.42 |  |  |  |  |  | 0.86 |  |  |
| Under 25 years | 61 (5%) | 4 (4%) | 0.70 [0.24-2.00] | 0.5 |  |  | 63 (5%) | 3 (5%) | 0.87 [0.26-2.92] | 0.82 |  |  |
| 25-29 years | 363 (28%) | 24 (23%) | 0.70 [0.42-1.17] | 0.18 |  |  | 376 (27%) | 20 (29%) | 0.97 [0.54-1.73] | 0.91 |  |  |
| 30-34 years | 511 (40%) | 48 (46%) | 1 |  |  |  | 546 (40%) | 30 (44%) | 1 |  |  |  |
| 35-40 years | 295 (23%) | 21 (20%) | 0.76 [0.44-1.29] | 0.31 |  |  | 316 (23%) | 13 (19%) | 0.75 [0.38-1.46] | 0.39 |  |  |
| Over 40 years | 51 (4%) | 7 (7%) | 1.46 [0.63-3.40] | 0.38 |  |  | 64 (5%) | 2 (3%) | 0.57 [0.13-2.44] | 0.45 |  |  |
| **BMIb** | 24.6 + 5.7 | 24.5 + 5.3 | 1.00 [0.96-1.03] | 0.89 |  |  | 24.6 + 5.5 | 25.6 + 6.5 | 1.03 [0.99-1.07] | 0.14 |  |  |
| **Ethnicity** |  |  |  | 0.85 |  |  |  |  |  | 0.51 |  |  |
| Caucasian | 1021 (80%) | 80 (78%) | 1 |  |  |  | 1075 (79%) | 57 (84%) | 1 |  |  |  |
| Asian | 185 (14%) | 17 (16%) | 1.17 [0.68-2.03] | 0.57 |  |  | 206 (15%) | 7 (10%) | 0.64 [0.29-1.42] | 0.28 |  |  |
| Other | 74 (6%) | 6 (6%) | 1.03 [0.44-2.45] | 0.94 |  |  | 82 (6%) | 4 (6%) | 0.92 [0.33-2.60] | 0.88 |  |  |
| **Parity** |  |  |  | 0.44 |  |  |  |  |  | 0.75 |  |  |
| No previous children | 635 (50%) | 51 (50%) | 1 |  |  |  | 652 (49%) | 35 (53%) | 1 |  |  |  |
| 1 previous child | 462 (37%) | 34 (33%) | 0.92 [0.58-1.44] | 0.7 |  |  | 498 (37%) | 23 (35%) | 0.86 [0.50-1.47] | 0.58 |  |  |
| >1 previous children | 165 (13%) | 18 (17%) | 1.36 [0.77-2.39] | 0.29 |  |  | 193 (14%) | 8 (12%) | 0.77 [0.35-1.69] | 0.52 |  |  |
| **Maternal education** |  |  |  | 0.82 |  |  |  |  |  | 0.88 |  |  |
| Tertiary | 747 (58%) | 58 (56%) | 1 |  |  |  | 798 (58%) | 41 (60%) | 1 |  |  |  |
| Trade / Diploma | 322 (25%) | 29 (28%) | 1.16 [0.73-1.85] | 0.53 |  |  | 336 (25%) | 15 (22%) | 0.87 [0.47-1.59] | 0.65 |  |  |
| Secondary schooling | 211 (17%) | 17 (16%) | 1.04 [0.59-1.82] | 0.9 |  |  | 228 (17%) | 12 (18%) | 1.02 [0.53-1.98] | 0.94 |  |  |
| **Annual household income (AUD)** |  |  |  | 0.25 |  |  |  |  |  | 0.59 |  |  |
| >$100K p/annum | 504 (41%) | 39 (39%) | 1 |  |  |  | 519 (40%) | 25 (39%) | 1 |  |  |  |
| $70-100K p/annum | 327 (26%) | 21 (21%) | 0.83 [0.48-1.44] | 0.51 |  |  | 347 (26%) | 18 (28%) | 1.08 [0.58-2.00] | 0.82 |  |  |
| $30-69K p/annum | 270 (22%) | 23 (23%) | 1.10 [0.64-1.88] | 0.76 |  |  | 298 (23%) | 11 (17%) | 0.77 [0.37-1.58] | 0.47 |  |  |
| <$30K p/annum | 132 (11%) | 17 (17%) | 1.66 [0.91-3.04] | 0.1 |  |  | 147 (11%) | 10 (16%) | 1.41 [0.66-3.01] | 0.37 |  |  |
| **Smoker** | 53 (4%) | 6 (6%) | 1.43 [0.60-3.42] | 0.42 |  |  | 53 (4%) | 3 (4%) | 1.16 [0.35-3.81] | 0.81 |  |  |
| **Consumed alcohol** | 391 (31%) | 31 (30%) | 0.96 [0.62-1.49] | 0.87 |  |  | 371 (27%) | 15 (22%) | 0.76 [0.42-1.36] | 0.35 |  |  |
| **Dietary folate**  **(mcg/day) b** | 254 + 109 | 252 + 122 | 0.83 [0.15-4.67] | 0.83 |  |  | 255 + 111 | 239 + 86 | 0.16 [0.01-2.68] | 0.21 |  |  |

aAll variables were mutually adjusted for each other. bDisplayed as mean (M) and standard deviation (SD). Some sample sizes are less than the total sample owing to missing data.

*Abbreviations:* NFAU = Non Folic Acid Supplement Users, FAU = Folic Acid Supplement Users

**Table S5(a).** Univariate and multivariate models of variables associated with vitamin D supplement use among supplement users peri-conceptionally, showing individual odds ratios (OR) and 95% confidence intervals (CI).

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **THREE MONTHS PRE-CONCEPTION** | | | | | | **PRIOR TO PREGNANCY AWARENESS** | | | | | |
|  |
|  | **NVDU** | **VDU** | **VDU vs. NVDU unadjusted** | | **VDU vs. NVDU adjusteda** | | **NVDU** | **VDU** | **VDU vs. NVDU unadjusted** | | **VDU vs. NVDU adjusteda** | |
|  | N = 1125 | N = 254 | OR [CI] | P | OR [CI] | P | N = 1087 | N = 295 | OR [CI] | P | OR [CI] | P |
|  |  |  |  |  | ***Model*** | <0.001 |  |  |  |  | ***Model*** | <0.001 |
| **Planned pregnancy** | 754 (85%) | 155 (87%) | 1.14 [0.71-1.82] | 0.59 |  |  | 725 (85%) | 187 (86%) | 1.12 [0.73-1.72] | 0.61 |  |  |
| **Age** |  |  |  | 0.99 |  |  |  |  |  | 0.39 |  |  |
| Under 25 years | 23 (3%) | 4 (2%) | 0.85 [0.29-2.54] | 0.78 |  |  | 26 (3%) | 11 (5%) | 1.83 [0.87-3.84] | 0.11 |  |  |
| 25-29 years | 219 (25%) | 47 (26%) | 1.05 [0.71-1.57] | 0.8 |  |  | 218 (25%) | 58 (27%) | 1.15 [0.79-1.67] | 0.47 |  |  |
| 30-34 years | 383 (43%) | 78 (43%) | 1 |  |  |  | 367 (43%) | 85 (39%) | 1 |  |  |  |
| 35-40 years | 223 (25%) | 43 (24%) | 0.95 [0.63-1.42] | 0.79 |  |  | 211 (25%) | 51 (23%) | 1.04 [0.71-1.54] | 0.83 |  |  |
| Over 40 years | 40 (4%) | 8 (5%) | 0.98 [0.44-2.18] | 0.96 |  |  | 34 (4%) | 13 (6%) | 1.65 [0.84-3.26] | 0.15 |  |  |
| **BMIb** | 24.7 + 5.9 | 24.6 + 5.2 | 1.00 [0.97-1.03] | 0.79 |  |  | 24.7 + 5.8 | 24.8 + 5.8 | 1.00 [0.98-1.03] | 0.79 |  |  |
| **Ethnicity** |  |  |  | <0.01 |  |  |  |  |  | <0.001 |  |  |
| Caucasian | 750 (85%) | 131 (73%) | 1 |  | 1 |  | 738 (86%) | 149 (68%) | 1 |  | 1 |  |
| Asian | 93 (10%) | 33 (18%) | 2.03 [1.31-3.15] | <0.01 | 1.35 [0.83-2.19] | 0.23 | 75 (9%) | 51 (24%) | 3.37 [2.26-5.01] | <0.001 | 2.92 [1.92-4.44] | <0.001 |
| Other | 43 (5%) | 16 (9%) | 2.13 [1.17-3.89] | <0.05 | 1.96 [1.06-3.63] | <0.05 | 41 (5%) | 18 (8%) | 2.17 [1.22-3.89] | <0.01 | 2.12 [1.18-3.82] | <0.05 |
| **Parity** |  |  |  | 0.46 |  |  |  |  |  | 0.92 |  |  |
| No previous children | 441 (50%) | 87 (49%) | 1 |  |  |  | 425 (50%) | 109 (51%) | 1 |  |  |  |
| 1 previous child | 332 (38%) | 73 (42%) | 1.11 [0.79-1.57] | 0.53 |  |  | 324 (38%) | 78 (37%) | 0.94 [0.68-1.30] | 0.7 |  |  |
| >1 previous children | 104 (12%) | 16 (9%) | 0.78 [0.44-1.38] | 0.4 |  |  | 97 (12%) | 25 (12%) | 1.00 [0.62-1.64] | 0.98 |  |  |
| **Maternal education** |  |  |  | <0.05 |  |  |  |  |  | 0.31 |  |  |
| Tertiary | 534 (60%) | 126 (70%) | 1 |  | 1 |  | 523 (61%) | 143 (66%) | 1 |  |  |  |
| Trade / Diploma | 222 (25%) | 39 (22%) | 0.74 [0.50-1.10] | 0.14 | 0.84 [0.56-1.27] | 0.41 | 201 (24%) | 50 (23%) | 0.91 [0.63-1.31] | 0.61 |  |  |
| Secondary schooling | 130 (15%) | 15 (8%) | 0.49 [0.28-0.86] | <0.05 | 0.54 [0.30-0.98] | <0.05 | 130 (15%) | 25 (11%) | 0.70 [0.44-1.12] | 0.14 |  |  |
| **Annual household income (AUD)** |  |  |  | 0.21 |  |  |  |  |  | 0.32 |  |  |
| >$100K p/annum | 380 (45%) | 78 (45%) | 1 |  |  |  | 358 (43%) | 87 (42%) | 1 |  |  |  |
| $70-100K p/annum | 232 (27%) | 36 (21%) | 0.76 [0.49-1.16] | 0.2 |  |  | 226 (28%) | 49 (23%) | 0.89 [0.61-1.31] | 0.56 |  |  |
| $30-69K p/annum | 164 (19%) | 43 (25%) | 1.28 [0.84-1.93] | 0.25 |  |  | 165 (20%) | 48 (23%) | 1.20 [0.80-1.78] | 0.38 |  |  |
| <$30K p/annum | 80 (9%) | 16 (9%) | 0.97 [0.54-1.76] | 0.93 |  |  | 76 (9%) | 26 (12%) | 1.41 [0.85-2.33] | 0.18 |  |  |
| **Smoker** | 117 (13%) | 14 (8%) | 0.56 [0.31-0.99] | 0.05 | 0.74 [0.40-1.35] | 0.32 | 99 (12%) | 20 (9%) | 0.78 [0.47-1.29] | 0.33 |  |  |
| **Consumed alcohol** | 663 (75%) | 110 (61%) | 0.52 [0.37-0.73] | <0.001 | 0.58 [0.40-0.83] | <0.01 | 454 (54%) | 85 (40%) | 0.57 [0.42-0.77] | <0.001 | 0.71 [0.51-0.98] | <0.05 |
| **Dietary folate**  **(mcg/day) b** | 259 + 118 | 249 + 85 | 0.37 [0.08-1.83] | 0.22 |  |  | 259 + 117 | 245 + 91 | 0.26 [0.06-1.20] | 0.08 |  |  |

aAll variables were mutually adjusted for each other. bDisplayed as mean (M) and standard deviation (SD). Some sample sizes are less than the total sample owing to missing data.

*Abbreviations:* NVDU = Non Vitamin D Supplement Users, VDU = Vitamin D Supplement Users

**Table S5(b).** Univariate and multivariate models of variables associated with vitamin D supplement use among supplement users trimester one, post pregnancy awareness, showing individual odds ratios (OR) and 95% confidence intervals (CI).

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **TRIMESTER ONE, POST AWARENESS** | | | | | |
|  |
|  | **NVDU** | **VDU** | **VDU vs. NVDU unadjusted** | | **VDU vs. NVDU adjusteda** | |
|  | N = 1264 | N = 688 | OR [CI] | P | OR [CI] | P |
|  |  |  |  |  | ***Model*** | <0.001 |
| **Planned pregnancy** | 758 (79%) | 382 (75%) | 0.78 [0.61-1.01] | 0.06c | 0.81 [0.62, 1.05] | 0.11 |
| **Age** |  |  |  | 0.62 |  |  |
| Under 25 years | 49 (5%) | 22 (4%) | 0.77 [0.46-1.31] | 0.34 |  |  |
| 25-29 years | 262 (27%) | 143 (28%) | 0.94 [0.72-1.22] | 0.65 |  |  |
| 30-34 years | 379 (40%) | 220 (43%) | 1 |  |  |  |
| 35-40 years | 227 (24%) | 107 (21%) | 0.81 [0.61-1.08] | 0.15 |  |  |
| Over 40 years | 40 (4%) | 21 (4%) | 0.90 [0.52-1.57] | 0.72 |  |  |
| **BMIb** | 24.7 + 5.7 | 24.7 + 5.8 | 1.00 [0.98-1.02] | 0.89 |  |  |
| **Ethnicity** |  |  |  | <0.001 |  |  |
| Caucasian | 821 (86%) | 361 (71%) | 1 |  | 1 |  |
| Asian | 86 (9%) | 115 (22%) | 3.04 [2.24-4.13] | <0.001 | 2.52 [1.82-3.48] | <0.001 |
| Other | 49 (5%) | 36 (7%) | 1.67 [1.07-2.61] | <0.05 | 1.45 [0.92-2.29] | 0.11 |
| **Parity** |  |  |  | 0.2 |  |  |
| No previous children | 447 (47%) | 261 (52%) | 1 |  |  |  |
| 1 previous child | 356 (38%) | 176 (35%) | 0.85 [0.67-1.07] | 0.17 |  |  |
| >1 previous children | 141 (15%) | 64 (13%) | 0.78 [0.56-1.08] | 0.14 |  |  |
| **Maternal education** |  |  |  | <0.01 |  |  |
| Tertiary | 535 (56%) | 317 (62%) | 1 |  | 1 |  |
| Trade / Diploma | 239 (25%) | 131 (26%) | 0.93 [0.72-1.19] | 0.55 | 1.04 [0.80-1.36] | 0.78 |
| Secondary schooling | 182 (19%) | 64 (12%) | 0.59 [0.43-0.81] | <0.01 | 0.65 [0.47-0.91] | 0.01 |
| **Annual household income (AUD)** |  |  |  | 0.73 |  |  |
| >$100K p/annum | 368 (40%) | 207 (42%) | 1 |  |  |  |
| $70-100K p/annum | 250 (27%) | 123 (25%) | 0.87 [0.66-1.15] | 0.34 |  |  |
| $30-69K p/annum | 194 (21%) | 110 (22%) | 1.01 [0.75-1.35] | 0.96 |  |  |
| <$30K p/annum | 106 (12%) | 53 (11%) | 0.89 [0.61-1.29] | 0.53 |  |  |
| **Smoker** | 46 (5%) | 23 (5%) | 0.93 [0.56-1.55] | 0.78 |  |  |
| **Consumed alcohol** | 227 (24%) | 84 (17%) | 0.63 [0.48-0.83] | 0.001 | 0.71 [0.54-0.94] | <0.05 |
| **Dietary folate**  **(mcg/day) b** | 259 + 115 | 241 + 89 | 0.16 [0.05-0.51] | <0.01 | 0.34 [0.11-1.04] | 0.06 |

aAll variables were mutually adjusted for each other. bDisplayed as mean (M) and standard deviation (SD). Some sample sizes are less than the total sample owing to missing data. cIncluded in the multivariate model due to univariate significance.

*Abbreviations:* NVDU = Non Vitamin D Supplement Users, VDU = Vitamin D Supplement Users

**Table S5(c).** Univariate and multivariate models of variables associated with vitamin D supplement use among supplement users in mid-late pregnancy, showing individual odds ratios (OR) and 95% confidence intervals (CI).

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **TRIMESTER TWO** | | | | | | **TRIMESTER THREE** | | | | | |
|  |
|  | **NVDU** | **VDU** | **VDU vs. NVDU unadjusted** | | **VDU vs. NVDU adjusteda** | | **NVDU** | **VDU** | **VDU vs. NVDU unadjusted** | | **VDU vs. NVDU adjusteda** | |
|  | N = 728 | N = 777 | OR [CI] | P | OR [CI] | P | N = 674 | N = 761 | OR [CI] | P | OR [CI] | P |
|  |  |  |  |  | ***Model*** | <0.001 |  |  |  |  | ***Model*** | <0.001 |
| **Planned pregnancy** | 521 (78%) | 546 (77%) | 0.96 [0.75-1.23] | 0.74 |  |  | 524 (78%) | 575 (76%) | 0.90 [0.71-1.16] | 0.42 |  |  |
| **Age** |  |  |  | <0.01 |  |  |  |  |  | <0.001 |  |  |
| Under 25 years | 31 (4%) | 34 (5%) | 1.12 [0.68-1.87] | 0.67 | 1.06 [0.61-1.86] | 0.83 | 24 (4%) | 42 (6%) | 1.80 [1.06-3.05] | <0.05 | 1.77 [0.99-3.19] | 0.06 |
| 25-29 years | 160 (24%) | 227 (32%) | 1.44 [1.11-1.88] | <0.01 | 1.37 [1.04-1.81] | <0.05 | 148 (22%) | 248 (33%) | 1.72 [1.33-2.24] | <0.001 | 1.68 [1.27-2.22] | <0.001 |
| 30-34 years | 282 (42%) | 277 (39%) | 1 |  | 1 |  | 292 (43%) | 284 (37%) | 1 |  | 1 |  |
| 35-40 years | 172 (26%) | 144 (20%) | 0.85 [0.65-1.12] | 0.26 | 0.87 [0.65-1.16] | 0.34 | 173 (26%) | 156 (20%) | 0.93 [0.71-1.22] | 0.58 | 0.93 [0.70-1.23] | 0.6 |
| Over 40 years | 26 (4%) | 32 (4%) | 1.25 [0.73-2.16] | 0.42 | 1.39 [0.79-2.47] | 0.26 | 36 (5%) | 30 (4%) | 0.86 [0.51-1.43] | 0.55 | 0.94 [0.55-1.60] | 0.81 |
| **BMIb** | 24.3 + 5.4 | 24.9 + 5.9 | 1.02 [1.00-1.04] | <0.05 | 1.03 [1.01-1.05] | <0.05 | 24.1 + 5.1 | 25.1 + 6.0 | 1.03 [1.01-1.06] | 0.001 | 1.04 [1.02-1.07] | <0.001 |
| **Ethnicity** |  |  |  | <0.001 |  |  |  |  |  | <0.001 |  |  |
| Caucasian | 562 (84%) | 539 (76%) | 1 |  | 1 |  | 573 (85%) | 559 (74%) | 1 |  | 1 |  |
| Asian | 74 (11%) | 128 (18%) | 1.80 [1.32-2.46] | <0.001 | 1.60 [1.13-2.25] | <0.01 | 64 (10%) | 149 (19%) | 2.39 [1.74-3.27] | <0.001 | 2.11 [1.49-2.98] | <0.001 |
| Other | 34 (5%) | 46 (6%) | 1.41 [0.89-2.23] | 0.14 | 1.29 [0.80-2.08] | 0.3 | 35 (5%) | 51 (7%) | 1.49 [0.96-2.33] | 0.08 | 1.40 [0.87-2.26] | 0.16 |
| **Parity** |  |  |  | <0.05 |  |  |  |  |  | 0.06 |  |  |
| No previous children | 308 (47%) | 378 (54%) | 1 |  | 1 |  | 305 (46%) | 382 (51%) | 1 |  | 1 |  |
| 1 previous child | 254 (38%) | 242 (34%) | 0.78 [0.62-0.98] | <0.05 | 0.89 [0.69-1.13] | 0.33 | 250 (38%) | 271 (36%) | 0.87 [0.69-1.09] | 0.22 | 0.97 [0.76-1.24] | 0.83 |
| >1 previous children | 98 (15%) | 85 (12%) | 0.71 [0.51-0.98] | <0.05 | 0.78 [0.55-1.10] | 0.15 | 108 (16%) | 93 (13%) | 0.69 [0.50-0.94] | <0.05 | 0.80 [0.56-1.12] | 0.2 |
| **Maternal education** |  |  |  | 0.3 |  |  |  |  |  | 0.51 |  |  |
| Tertiary | 383 (57%) | 422 (59%) | 1 |  |  |  | 394 (59%) | 445 (59%) | 1 |  |  |  |
| Trade / Diploma | 166 (25%) | 185 (26%) | 1.01 [0.79-1.30] | 0.93 |  |  | 157 (23%) | 194 (25%) | 1.09 [0.85-1.41] | 0.48 |  |  |
| Secondary schooling | 121 (18%) | 107 (15%) | 0.80 [0.60-1.08] | 0.14 |  |  | 119 (18%) | 121 (16%) | 0.90 [0.68-1.20] | 0.47 |  |  |
| **Annual household income (AUD)** |  |  |  | 0.62 |  |  |  |  |  | 0.98 |  |  |
| >$100K p/annum | 260 (41%) | 283 (41%) | 1 |  |  |  | 253 (39%) | 291 (40%) | 1 |  |  |  |
| $70-100K p/annum | 167 (26%) | 181 (26%) | 1.00 [0.76-1.30] | 0.98 |  |  | 172 (27%) | 193 (26%) | 0.98 [0.75-1.27] | 0.86 |  |  |
| $30-69K p/annum | 136 (21%) | 157 (23%) | 1.01 [0.80-1.41] | 0.69 |  |  | 144 (22%) | 165 (23%) | 1.00 [0.75-1.32] | 0.98 |  |  |
| <$30K p/annum | 79 (12%) | 70 (10%) | 0.81 [0.57-1.17] | 0.27 |  |  | 76 (12%) | 81 (11%) | 0.93 [0.65-1.32] | 0.67 |  |  |
| **Smoker** | 35 (5%) | 24 (3%) | 0.63 [0.37-1.07] | 0.09 |  |  | 30 (4%) | 26 (3%) | 0.76 [0.44-1.29] | 0.31 |  |  |
| **Consumed alcohol** | 243 (36%) | 179 (25%) | 0.59 [0.47-0.74] | <0.001 | 0.67 [0.52-0.85] | 0.001 | 221 (33%) | 165 (22%) | 0.57 [0.45-0.72] | <0.001 | 0.72 [0.55-0.92] | <0.05 |
| **Dietary folate**  **(mcg/day) b** | 261 + 122 | 247 + 97 | 0.32 [0.12-0.87] | <0.05 | 0.56 [0.21-1.53] | 0.26 | 264 + 130 | 246 + 88 | 0.19 [0.07-0.55] | <0.01 | 0.28 [0.10-0.83] | <0.05 |

aAll variables were mutually adjusted for each other. bDisplayed as mean (M) and standard deviation (SD). Some sample sizes are less than the total sample owing to missing data.

*Abbreviations:* NVDU = Non Vitamin D Supplement Users, VDU = Vitamin D Supplement Users