**SUPPORTING INFORMATION**

**Supplemental Table 1** Baseline characteristics of youth with type 1 and type 2 diabetes by categories of breastfeeding (n=1,591)

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Type 1 Diabetes (n=1,387)** | | | | | **Type 2 Diabetes (n=204)** | | | |
|  | Never Breastfed | Breastfed  < 6 months | Breastfed  ≥6 months | P value | Never Breastfed | | Breastfed  < 6 months | Breastfed  ≥6 months | P value |
| Total sample at baseline, n (%) | 413 (29.8) | 415 (29.9) | 559 (40.3) |  | 133 (65.2) | | 38 (18.6) | 33 (16.2) |  |
| Race/ethnicity, n (%) |  |  |  |  |  | |  |  |  |
| Non-Hispanic White | 246 (60.0) | 293 (70.6) | 442 (79.0) | <0.001 | 27 (20.3) | | 14 (36.8) | 6 (18.2) | <0.001 |
| Non-Hispanic Black | 96 (23.2) | 33 (8.0) | 30 (5.4) |  | 68 (51.3) | | 15 (39.5) | 6 (18.2) |  |
| Hispanic | 62 (15.0) | 74 (17.8) | 74 (13.2) |  | 30 (22.6) | | 6 (15.8) | 18 (54.5) |  |
| Other | 9 (2.2) | 15 (3.6) | 13 (2.3) |  | 8 (6.0) | | 3 (7.9) | 3 (9.1) |  |
| Gender, n (%) |  |  |  |  |  | |  |  |  |
| Male | 200 (48.4) | 212 (51.1) | 274 (49.0) | 0.7 | 43 (32.3) | | 17 (44.7) | 17 (51.5) | 0.08 |
| Female | 213 (51.6) | 203 (48.9) | 285 (51.0) |  | 90(67.7) | | 21 (55.3) | 16 (48.5) |  |
| Highest Parental education, n (%) |  |  |  |  |  | |  |  |  |
| Less than high school | 22 (5.3) | 18 (4.4) | 15 (2.7) | <0.001 | 12 (9.2) | | 4 (10.5) | 6 (18.8) | <0.001 |
| HS graduate | 109 (26.5) | 41 (10.0) | 37 (6.6) |  | 55 (42.3) | | 4 (10.5) | 4 (12.5) |  |
| Some college through associate degree | 163 (39.6) | 165 (40.1) | 139 (25.0) |  | 47 (36.2) | | 14 (36.8) | 11 (34.5) |  |
| Bachelor degree or more | 118 (28.6) | 188 (45.6) | 366 (65.7) |  | 16 (12.3) | | 12 (31.5) | 11 (34.5) |  |
| Household income, n (%) |  |  |  |  |  | |  |  |  |
| Don’t Know/Refused | 27 (6.5) | 28 (6.8) | 38 (6.9) | <0.001 | 12 (9.0) | | 2 (5.3) | 6 (18.2) | 0.1 |
| < $25,000 | 84 (20.3) | 39 (9.5) | 42 (7.6) |  | 57 (65.6) | | 18 (47.4) | 12 (36.4) |  |
| $25,000―$49,000 | 113 (27.4) | 87 (21.1) | 98 (17.7) |  | 32 (24.1) | | 12 (31.6) | 6 (18.2) |  |
| $50,000―$75,000 | 92 (22.3) | 80 (19.4) | 99 (17.8) |  | 20 (15.0) | | 2 (5.3) | 2 (6.1) |  |
| ≥ $75,000 | 97 (23.3) | 178 (43.2) | 278 (50.1) |  | 12 (9.0) | | 4 (10.5) | 7 (21.2) |  |
| Age at visit (years; mean ± SD) | 11.6 ± 4.1 | 11.1 ± 4.2 | 11.1 ± 4.2 | 0.07 | 15.6 ± 3.6 | | 17.4 ± 4.2 | 16.7 ± 2.9 | 0.02 |
| Duration of diabetes (months ; mean ± SD) | 24.5 ± 30.1 | 23.6 (27.9 | 21.0 ± 26.7 | 0.1 | 23.8 ± 31.0 | | 39.0 ± 39.1 | 28.1 ± 26.8 | 0.3 |
| BMI z-score (mean ± SD) | 0.8 ± 1.0 | 0.5 (1.0 | 0.6 ± 0.9 | 0.009 | 2.1 ± 0.7 | | 1.9 ± 0.7 | 2.0 ± 0.8 | 0.4\* |
| HbA1c (mmol/mol; mean ± SD)  (%; mean ± SD) | 65 ± 18  8.1 ± 1.6 | 62 ± 16  7.8 ± 1.4 | 62 ± 16  7.8 ± 1.4 | 0.01 | 58 ± 27  7.5 ± 2.5 | | 72 ± 31  8.7 ± 2.8 | 60 ± 27  7.6 ± 2.5 | 0.03 |
| Waist circumference (cm; mean ± SD) | 73.3 ± 15.3 | 69.8 ± 12.8 | 69.8 ± 13.7 | <0.001 | 109.1 ± 19.9 | | 107.8 ± 18.7 | 110.8 ± 16.7 | 0.8 |
| Triglycerides (mg/dl; mean ± SD) | 68.3 ± 51.6 | 71.3 ± 96.6 | 67 ± 38.9 | 0.6 | 132.5 ± 104.4 | | 176.7 ± 183.8 | 153.8 ± 140.3 | 0.4\* |
| Insulin sensitivity score (mean ± SD) | 9.8± 3.5 | 10.6 ± 3.4 | 10.6 ± 3.3 | 0.0002 | 4.6 ± 2.6 | | 4.0 ± 2.1 | 4.4 ± 2.6 | 0.6 |
| Insulin sensitivity dichotomized, n (%) (T1D only) |  |  |  |  |  | |  |  |  |
| Low IS (IS score < 8.15), n (%) | 142 (34.4) | 101 (24.3) | 136 (24.3) | 0.0006 |  | |  |  |  |
| High IS (IS score ≥ 8.15), n (%) | 271 (65.6) | 314 (75.7) | 423 (75.7) |  |  | |  |  |  |
| Insulin Sensitivity tertiles, n (%) (T2D only) |  |  |  |  |  | |  |  |  |
| Low IS (IS score <3.14) |  |  |  |  | 43 (32.3) | | 13 (34.2) | 12 (36.4) | 0.6 |
| Moderate IS (IS score 3.14―5.04) |  |  |  |  | 43 (32.3) | | 16 (42.1) | 9 (27.3) |  |
| High IS (IS score > 5.04) |  |  |  |  | 47 (35.4) | | 9 (23.7) | 12 (36.3) |  |
| HLA risk group, n (%) (T1D only) |  |  |  |  |  | |  |  |  |
| Low | 183 (56.3) | 165 (52.7) | 191 (44.0) | 0.002 |  | |  |  |  |
| High/Moderate | 142 (43.7) | 148 (47.3) | 243 (56.0) |  |  | |  |  |  |
| Insulin regimen, n (%) (T1D only) |  |  |  | 0.0005 |  | |  |  |  |
| Pump | 55 (13.5) | 58 (14.2) | 92 (16.6) |  |  | |  |  |  |
| Long + short/rapid insulin (≧3 times/day) | 118 (28.9) | 123 (30.0) | 165 (29.8) |  |  | |  |  |  |
| Long +any other combination (≧2 times/day) | 23 (5.6) | 38 (9.3) | 45 (8.1) |  |  | |  |  |  |
| Any combination of insulin excluding long (≧3 times/day) | 87 (21.3) | 49 (12.0) | 59 (10.7) |  |  | |  |  |  |
| Any insulin(s) taken 1x/day, or any insulin combination excluding long 2x/day | 126 (30.8) | 142 (34.6) | 192 (34.7) |  |  | |  |  |  |

***\****Natural log transformed before statistical testing.