

Supplementary Table 1. Difference between included and excluded.

| Variable | Included (n = 65,701) | | Excluded (n = 27,240) | |
|---|--------------------------|--------|--------------------------|--------|
| | n | (%) | n | (%) |
| Deliberly mode | | | | |
| Vaginal delivery | 53,527 | (81.5) | 21,406 | (80.2) |
| Cesarean section | 12,174 | (18.5) | 5,302 | (19.9) |
| Age during pregnancy, y | | | | |
| Mean ± SD | 31.4 | ±4.9 | 30.0 | ±5.4 |
| Pre-pregnancy body mass index, kg/m ² | | | | |
| Mean ± SD | 21.2 | ±3.2 | 21.4 | ±3.5 |
| Parity | | | | |
| 0 | 28,606 | (43.5) | 9,925 | (39.9) |
| 1 | 24,597 | (37.4) | 9,310 | (37.4) |
| ≥2 | 12,498 | (19.0) | 5,630 | (22.6) |
| History of depression, anxiety disorder, dysautonomia, or schizophrenia | | | | |
| No | 56,544 | (86.1) | 22,018 | (84.7) |
| Yes | 9,157 | (13.9) | 3,993 | (15.4) |
| History of any physical disease | | | | |
| No | 10,801 | (16.4) | 5,242 | (20.2) |
| Yes | 54,900 | (83.6) | 20,769 | (79.9) |
| Pregnancy complication | | | | |
| No | 55,744 | (84.8) | 21,412 | (84.9) |
| Yes | 9,957 | (15.2) | 3,800 | (15.1) |
| Marital status | | | | |
| Married | 63,410 | (96.5) | 23,719 | (92.7) |
| Single | 1,857 | (2.8) | 1,509 | (5.9) |
| Divorced or widowed | 434 | (0.7) | 370 | (1.5) |
| Employed during early pregnancy | | | | |
| No | 29,601 | (45.1) | 11,951 | (48.2) |
| Yes | 36,100 | (55.0) | 12,823 | (51.8) |
| Highest education level, y | | | | |
| ≤12 | 21,620 | (32.9) | 11,208 | (44.7) |
| 12 to <16 | 28,514 | (43.4) | 9,686 | (38.6) |
| ≥16 | 15,567 | (23.7) | 4,180 | (16.7) |
| Annual household income, million JPY | | | | |
| <4 | 25,303 | (38.5) | 8,666 | (45.6) |
| 4 to <6 | 22,062 | (33.6) | 5,900 | (31.0) |
| ≥6 | 18,336 | (27.9) | 4,441 | (23.4) |
| Alcohol intake | | | | |
| Never | 22,119 | (33.7) | 8,143 | (32.8) |
| Former | 41,785 | (63.6) | 15,994 | (64.4) |
| Current | 1,797 | (2.7) | 718 | (2.9) |
| Smoking history | | | | |

| | | | | |
|------------------------------------|---------|-------------|---------|-------------|
| Never | 39,590 | (60.3) | 12,763 | (51.4) |
| Former | 23,782 | (36.2) | 10,269 | (41.3) |
| Current | 2,329 | (3.5) | 1,806 | (7.3) |
| Negative attitude toward pregnancy | | | | |
| No | 61,119 | (93.0) | 23,329 | (91.2) |
| Yes | 4,582 | (7.0) | 2,244 | (8.8) |
| Child sex | | | | |
| Male | 33,652 | (51.2) | 14,026 | (51.5) |
| Female | 32,049 | (48.8) | 13,196 | (48.5) |
| Any major congenital anomaly | | | | |
| No | 64,218 | (97.7) | 26,482 | (97.2) |
| Yes | 1,483 | (2.3) | 758 | (2.8) |
| Gestational age, week | | | | |
| Mean \pm SD | 39.3 | \pm 1.5 | 39.2 | \pm 1.8 |
| Birth weight, g | | | | |
| Mean \pm SD | 3,028.2 | \pm 408.7 | 3,005.1 | \pm 445.8 |
