### Supplementary Table 1. Baseline characteristics according to time of GDM diagnosis and subgroup analysis

| Variable                        | Whole cohort | T2DM risk analysis | Offspring psychiatric disorders analysis |
|---------------------------------|--------------|--------------------|------------------------------------------|
|                                 | Early GDM    | Late GDM          | P value | Early GDM    | Late GDM          | P value | Early GDM    | Late GDM          | P value |
| Number                          | 209          | 925               |         | 173          | 825               |         | 194          | 866               |         |
| Maternal age, yr                | 33.5 (30.4–36.4) | 32.6 (29.9–35–9) | 0.077   | 33.4 (30.4–36.5) | 32.5 (29.9–35–8) | 0.070   | 33.6 (30.6–36.5) | 32.6 (29.9–35–9) | 0.055   |
| Pregestational BMI, kg/m²       | 27.4 (23.3–33.3) | 24.4 (22–27.8)   | <0.001  | 28.3 (24.2–33.3) | 26.5 (23.0–32.4) | <0.001  | 27.4 (23.5–33.3) | 24.3 (22–27.8)   | <0.001  |
| Gestational weight gain, kg     | 9 (5.5–12)   | 9.5 (6.9–12.4)   | 0.007   | 9.1 (5.6–12.0) | 9.7 (7.0–12.4)   | 0.045   | 9 (5.3–11.6)   | 9.5 (7–12.35)   | 0.005   |
| GA at GDM diagnosis, wk         | 21.5 (15.5–24.5) | 29.5 (28.5–31.5) | <0.001  | 21.5 (15.3–24.5) | 29.5 (28.5–31.5) | <0.001  | 21.5 (15.5–24.5) | 29.5 (28.5–31.5) | <0.001  |
| 50-g OGTT, mg/dL                | 178 (160.5–202.5) | 174 (157–194)   | 0.021   | 179.5 (161–203) | 173 (157–193)   | 0.010   | 178 (161–203) | 174 (157–195)   | 0.195   |
| 100-g OGTT, mg/dL               | 91 (84–104)  | 85 (79–94)        | <0.001  | 91 (84–103)  | 85 (79–93)       | <0.001  | 91.5 (84–104)  | 85 (79–94)       | <0.001  |
| 60 min                          | 219 (202–240) | 213 (199–228)    | 0.036   | 218 (200–237) | 213 (200–227)    | 0.049   | 218 (200–239) | 214 (200–228)    | 0.030   |
| 120 min                         | 184 (170–197) | 186 (173–201)    | 0.141   | 184 (171–198) | 186 (173–200)    | 0.291   | 185 (171–197) | 186 (174–201)    | 0.190   |
| 180 min                         | 139.5 (117.5–164.5) | 144 (122–162) | 0.620   | 144 (120–168) | 144 (121–160)    | 0.507   | 139.5 (118–165) | 144 (121–162)    | 0.764   |
| Insulin therapy                 | 137 (65.7)   | 308 (33.4)        | <0.001  | 112 (64.9)   | 273 (33.1)        | <0.001  | 124 (64.1)   | 294 (33.9)        | <0.001  |
| GA of insulin therapy initiation, wk | 28.5 (22.5–31.5) | 34.5 (33.5–36.5) | <0.001  | 28.5 (23.5–31.5) | 34.5 (33.5–36.6) | <0.001  | 28.5 (23.5–31.5) | 34.5 (33.5–36.5) | <0.001  |

Values are presented as median (interquartile range) or number (%). Late/early GDM: diagnosis of GDM after or before 26 weeks’ gestation, respectively. GDM, gestational diabetes mellitus; T2DM, type 2 diabetes mellitus; BMI, body mass index; GA, gestational age; OGTT, oral glucose tolerance test.