**Supporting Information Legend**

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Supplemental Table 1. Sample Characteristics by Maternal Pre-pregnancy BMI and IOM/ACOG Pregnancy Weight Gain Recommendations, among singleton term births.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  | Pre-pregnancy BMI | | | | | | | | |  | IOM/ACOG Recommended Weight Gain | | | | | |  | |
| Characteristic | | | Underweight  (<18.5 kg/m2)  (N=55) | | Normal  (18.5-24.9 kg/m2) (N=1,145) | | | Overweight  (25.0-29.9 kg/m2)  (N=473) | | Obese  (≥30 kg/m2)  (N=317) | |  | Below  (N=290) | | Met (N=763) | | Exceeded  (N=905) | |  | |
|  | |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | |  | Mean | SD | | Mean | SD | Mean | SD | Mean | SD |  | Mean | SD | Mean | SD | Mean | SD |  |
| GWG (pounds) | | | 37.9 | 19.0 | | 34.7 | 13.9 | 33.0 | 16.3 | 24.6 | 21.5 |  | 11.4 | 13.8 | 26.9 | 6.1 | 44.5 | 13.3 |  |
|  | | |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | | N | % | | N | % | N | % | N | % | p-value† | N | % | N | % | N | % | p-value† |
| Child Gender | | |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Male | | 32 | 2.4 | | 747 | 56.9 | 316 | 24.1 | 217 | 16.5 | 0.4278 | 178 | 13.8 | 491 | 38.1 | 619 | 48.1 | 0.0512 |
|  | Female | | 23 | 3.4 | | 398 | 58.7 | 157 | 23.2 | 100 | 14.8 |  | 112 | 16.7 | 272 | 40.6 | 286 | 42.7 |  |
| Number of Previous Live Births | | | |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 0 | | 33 | 3.7 | | 546 | 61.5 | 177 | 19.9 | 132 | 14.9 | 0.0016 | 125 | 14.4 | 332 | 38.1 | 414 | 47.5 | 0.1248 |
|  | 1 | | 12 | 1.7 | | 388 | 54.6 | 191 | 26.9 | 120 | 16.9 |  | 96 | 13.7 | 295 | 42.0 | 312 | 44.4 |  |
|  | ≥2 | | 10 | 2.6 | | 211 | 54.0 | 105 | 26.9 | 65 | 16.6 |  | 69 | 18.0 | 136 | 35.4 | 179 | 46.6 |  |
| Maternal Age (years) | | |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | <20 | | 3 | 6.1 | | 26 | 53.1 | 13 | 26.5 | 7 | 14.3 | 0.0013 | 14 | 29.8 | 15 | 31.9 | 18 | 38.3 | 0.0007 |
|  | 20-24 | | 11 | 6.0 | | 84 | 45.9 | 45 | 24.6 | 43 | 23.5 |  | 36 | 20.1 | 45 | 25.1 | 98 | 54.8 |  |
|  | 25-29 | | 16 | 3.6 | | 247 | 55.0 | 106 | 23.6 | 80 | 17.8 |  | 58 | 13.2 | 175 | 39.8 | 207 | 47.1 |  |
|  | 30-34 | | 14 | 1.9 | | 446 | 61.6 | 160 | 22.1 | 104 | 14.4 |  | 96 | 13.4 | 293 | 40.9 | 327 | 45.7 |  |
|  | ≥35 | | 11 | 1.9 | | 342 | 58.6 | 148 | 25.3 | 83 | 14.2 |  | 86 | 15.0 | 234 | 40.7 | 255 | 44.4 |  |
| Maternal Race/ethnicity | | |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Non-Hispanic White | | 40 | 3.1 | | 808 | 62.2 | 280 | 21.5 | 172 | 13.2 | <0.0001 | 135 | 10.5 | 532 | 41.5 | 615 | 48.0 | <0.0001 |
|  | Non-Hispanic Black | | 6 | 2.2 | | 98 | 35.9 | 80 | 29.3 | 89 | 32.6 |  | 71 | 26.9 | 83 | 31.4 | 110 | 41.7 |  |
|  | Non-Hispanic Asian, Multiple Races, Other | | 4 | 2.1 | | 131 | 69.0 | 35 | 18.4 | 20 | 10.5 |  | 29 | 15.3 | 78 | 41.3 | 82 | 43.4 |  |
|  | Hispanic | | 5 | 2.2 | | 107 | 47.4 | 78 | 34.5 | 36 | 15.9 |  | 55 | 24.8 | 69 | 31.1 | 98 | 44.1 |  |

Supplemental Table 1 (continued). Sample Characteristics by Maternal Pre-pregnancy BMI and IOM/ACOG Pregnancy Weight Gain Recommendations, among singleton term births.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Pre-pregnancy BMI | | | | |  | | |  | |  | |  |  | | IOM/ACOG | | | | | | |  | |
|  |  |  | | |  | |  | |  |  | |  | |
|  | | Underweight  <18.5 kg/m2  (N=55) | | Normal  18.5-24.9 kg/m2 (N=1,145) | | Overweight  25.0-29.9 kg/m2 (N=473) | | | Obese  ≥30 kg/m2 (N=317) | | | | p-value† | | | Below Recommended Weight Gain (N=290) | | | Met Recommended Weight Gain (N=763) | | Exceeded Recommended Weight Gain (N=905) | | p-value† | |
|  |  | N | % | N | % | N | | % | N | | % | |  | | | N | | % | N | % | N | % |  | |
| Maternal Education | |  |  |  |  |  | |  |  | |  | |  | | |  | |  |  |  |  |  |  | |
|  | High School or Less | 9 | 3.5 | 106 | 41.3 | 77 | | 30.0 | 65 | | 25.3 | | <0.0001 | | | 66 | | 26.5 | 79 | 31.7 | 104 | 41.8 | <0.0001 | |
|  | Some College | 13 | 2.5 | 249 | 47.2 | 153 | | 29.0 | 113 | | 21.4 | |  | | | 77 | | 14.9 | 167 | 32.2 | 274 | 52.9 |  | |
|  | College Degree | 22 | 3.3 | 428 | 63.3 | 137 | | 20.3 | 89 | | 13.2 | |  | | | 76 | | 11.3 | 298 | 44.5 | 296 | 44.2 |  | |
|  | Masters or Higher | 11 | 2.1 | 361 | 68.6 | 105 | | 20.0 | 49 | | 9.3 | |  | | | 71 | | 13.7 | 218 | 42.1 | 229 | 44.2 |  | |
| Maternal Smoking | |  |  |  |  |  | |  |  | |  | |  | | |  | |  |  |  |  |  |  | |
|  | No smoking during pregnancy | 44 | 2.5 | 1,016 | 58.6 | 402 | | 23.2 | 272 | | 15.7 | | 0.179 | | | 246 | | 14.4 | 700 | 41.0 | 760 | 44.6 | <0.0001 | |
|  | Smoking throughout pregnancy | 3 | 3.0 | 47 | 47.5 | 28 | | 28.3 | 21 | | 21.2 | |  | | | 31 | | 32.3 | 18 | 18.8 | 47 | 49.0 |  | |
|  | Smoking only during pre-pregnancy or first trimester | 7 | 4.9 | 76 | 52.8 | 39 | | 27.1 | 22 | | 15.3 | |  | | | 11 | | 7.7 | 40 | 28.0 | 92 | 64.3 |  | |
| Maternal Hypertension | |  |  |  |  |  | |  |  | |  | |  | | |  | |  |  |  |  |  |  | |
|  | Yes (chronic or pregnancy-induced) | 1 | 0.4 | 80 | 33.1 | 75 | | 31.0 | 86 | | 35.5 | | <0.0001 | | | 21 | | 8.8 | 77 | 32.4 | 140 | 58.8 | <0.0001 | |
|  | No | 54 | 3.1 | 1,065 | 60.9 | 398 | | 22.8 | 231 | | 13.2 | |  | | | 269 | | 15.6 | 686 | 39.9 | 765 | 44.5 |  | |

† p-value for Chi-Square Test of Independence

Abbreviations: ASD=Autism Spectrum Disorder, DD=Developmental Disorder, non-ASD, ID=Intellectual disability (IQ≤70), POP=population-based control group, BMI=body mass index, GWG=gestational weight gain, IOM=Institute of Medicine, ACOG=American College of Obstetricians and Gynecologists

Supplemental Table 2. Interaction of Gestational Weight Gain† (Quintiles of Pounds) and BMI on ASD or DD, among singleton term births; Crude and adjusted odds ratios (ORs) and 95% confidence intervals (CI).

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  | Q1 (<22 pounds) | | | | Q2 (22-<30 pounds) | | | | Q4 (35- <44 pounds) | | | | Q5 (≥44 pounds) | | | |
|  |  |  |  | Normal BMI Group | | High BMI Group | | Normal BMI Group | | High BMI Group | | Normal BMI Group | | High BMI Group | | Normal BMI Group | | High BMI Group | |
|  | Model | N‡ | N§ | OR | 95% CI | OR | 95% CI | OR | 95% CI | OR | 95% CI | OR | 95% CI | OR | 95% CI | OR | 95% CI | OR | 95% CI |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ASD | Crude |  |  | 1.19 | (0.69-2.05) | 1.30 | (0.72-2.37) | 1.20 | (0.74-1.94) | 1.13 | (0.59-2.15) | 1.28 | (0.83-2.00) | 2.18 | (1.13-4.22) | 1.46 | (0.93-2.28) | 1.95 | (1.03-3.69) |
|  | Adj¶ | 281 | 221 | 1.00 | (0.57-1.76) | 1.20 | (0.65-2.21) | 1.21 | (0.74-1.97) | 1.28 | (0.66-2.48) | 1.30 | (0.83-2.05) | 2.17 | (1.10-4.29) | 1.33 | (0.84-2.11) | 1.90 | (0.98-3.68) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ASD | Crude |  |  | 1.27 | (0.66-2.45) | 1.15 | (0.60-2.21) | 1.16 | (0.64-2.10) | 1.01 | (0.49-2.05) | 1.31 | (0.77-2.25) | 1.87 | (0.91-3.85) | 1.65 | (0.97-2.82) | 1.27 | (0.62-2.62) |
| with ID | Adj¶ | 166 | 142 | 0.87 | (0.43-1.72) | 0.91 | (0.46-1.82) | 1.11 | (0.60-2.04) | 1.07 | (0.51-2.27) | 1.34 | (0.77-2.35) | 1.68 | (0.79-3.61) | 1.60 | (0.92-2.80) | 1.16 | (0.54-2.51) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ASD | Crude |  |  | 1.09 | (0.51-2.32) | 1.55 | (0.57-4.23) | 1.26 | (0.66-2.40) | 1.42 | (0.48-4.16) | 1.25 | (0.68-2.28) | 3.22 | (1.13-9.12) | 1.11 | (0.59-2.10) | 4.23 | (1.58-11.34) |
| without ID | Adj¶ | 113 | 75 | 1.16 | (0.54-2.52) | 1.64 | (0.59-4.55) | 1.36 | (0.70-2.62) | 1.44 | (0.48-4.32) | 1.24 | (0.67-2.29) | 3.25 | (1.11-9.54) | 1.03 | (0.54-1.96) | 4.00 | (1.44-11.14) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DD | Crude |  |  | 1.57 | (0.99-2.47) | 1.54 | (0.90-2.62) | 0.97 | (0.63-1.50) | 1.11 | (0.62-1.99) | 0.92 | (0.61-1.38) | 2.02 | (1.10-3.72) | 0.96 | (0.63-1.45) | 1.35 | (0.74-2.46) |
|  | Adj¶ | 362 | 305 | 1.31 | (0.82-2.11) | 1.58 | (0.91-2.74) | 0.93 | (0.60-1.45) | 1.22 | (0.67-2.23) | 0.93 | (0.62-1.40) | 2.24 | (1.20-4.19) | 0.90 | (0.59-1.38) | 1.51 | (0.81-2.82) |

† Reference is middle Quintile (30 to<35 pounds), Interaction p-values; ASD (0.69), ASD with ID (0.82), ASD without ID (0.06), DD (0.15).

‡ N for Normal (18.5-24.9 kg/m2) BMI Group

§ N for High (≥25 kg/m2) BMI Group

¶Adjusted for maternal age (<25, 25-29, 30-34=ref, ≥35), education (HS or less, some college, college degree=ref, Masters or higher), race/ethnicity (Non-Hispanic White=ref; Non-Hispanic Black; Non-Hispanic Asian; multiple races, or other; Hispanic), parity (0=ref, ≥1), and smoking (during pre-pregnancy or first trimester, throughout pregnancy, none=ref), plus interaction terms.

Abbreviations: ASD=Autism Spectrum Disorder, DD=Developmental Disorder, non-ASD, ID=Intellectual disability (IQ≤70), POP=population-based control group, BMI=body mass index

Supplemental Table 3. Interaction of Maternal Pre-pregnancy BMI† and Child Sex on ASD or DD, among singleton term births; Crude and adjusted odds ratios (ORs) and 95% confidence intervals (CI).

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| BMI |  |  |  | Underweight  <18.5 kg/m2 | | | |  | Overweight  25.0-29.9 kg/m2 | | | |  | Obese  ≥30 kg/m2 | | | |
|  |  |  |  | Females | | Males | |  | Females | | Males | |  | Females | | Males | |
|  | Model | N‡ | N§ | OR | 95% CI | OR | 95% CI |  | OR | 95% CI | OR | 95% CI |  | OR | 95% CI | OR | 95% CI |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ASD | Crude |  |  | 0.29 | (0.04-2.27) | 1.11 | (0.47-2.60) |  | 1.30 | (0.75, 2.25) | 1.55 | (1.10-2.18) |  | 2.20 | (1.19-4.07) | 1.54 | (1.05-2.26) |
|  | Adj¶ | 95 | 427 | 0.25 | (0.03-2.02) | 1.08 | (0.44-2.67) |  | 1.09 | (0.61-1.93) | 1.40 | (0.98-2.01) |  | 1.89 | (1.00-3.57) | 1.16 | (0.77-1.74) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ASD | Crude |  |  | -- | -- | 1.58 | (0.64-3.90) |  | 1.42 | (0.76-2.65) | 1.62 | (1.09-2.40) |  | 2.08 | (1.01-4.27) | 1.79 | (1.16-2.75) |
| with ID | Adj¶ | 66 | 256 | -- | -- | 1.75 | (0.65-4.68) |  | 1.11 | (0.58-2.13) | 1.34 | (0.88-2.04) |  | 1.59 | (0.75-3.38) | 1.19 | (0.74-1.90) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ASD | Crude |  |  | 0.93 | (0.12-7.52) | 0.48 | (0.11-2.21) |  | 1.04 | (0.39-2.74) | 1.41 | (0.90-2.21) |  | 2.10 | (0.78-5.69) | 1.18 | (0.70-2.00) |
| without ID | Adj¶ | 28 | 166 | 0.95 | (0.12-7.81) | 0.47 | (0.10-2.23) |  | 0.90 | (0.31-2.58) | 1.44 | (0.91-2.29) |  | 2.29 | (0.83-6.30) | 1.13 | (0.65-1.97) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DD | Crude |  |  | 0.85 | (0.34-2.14) | 0.96 | (0.40-2.30) |  | 1.17 | (0.77-1.77) | 1.92 | (1.38-2.67) |  | 1.82 | (1.12-2.97) | 1.57 | (1.07-2.29) |
|  | Adj¶ | 218 | 475 | 0.83 | (0.32-2.13) | 1.14 | (0.46-2.82) |  | 1.03 | (0.67-1.58) | 1.72 | (1.23-2.42) |  | 1.64 | (0.99-2.71) | 1.36 | (0.92-2.01) |

† Reference is “normal” BMI (18.5-24.9 kg/m2), Interaction p-values; ASD (0.21), ASD with ID (0.83), ASD without ID (0.39), DD (0.19).

‡ N for Females; POP NFemales=356

§ N for Males; POP NMales=401

¶Adjusted for maternal age (<25, 25-29, 30-34=ref, ≥35), education (HS or less, some college, college degree=ref, Masters or higher), race/ethnicity (Non-Hispanic White=ref; Non-Hispanic Black; Non-Hispanic Asian; multiple races, or other; Hispanic), parity (0=ref, ≥1), and smoking (during pre-pregnancy or first trimester, throughout pregnancy, none=ref), plus interaction terms.

Abbreviations: ASD=Autism Spectrum Disorder, DD=Developmental Disorder, non-ASD, ID=Intellectual disability (IQ≤70), POP=population-based control group, BMI=body mass index

Supplemental Table 4. Interaction of Gestational Weight Gain (Quintiles of Pounds†) and Child Sex on ASD or DD, among singleton term births; Crude and adjusted odds ratios (ORs) and 95% confidence intervals (CI).

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| GWG |  |  |  | Q1 (<22 pounds) | | | | Q2 (22-<30 pounds) | | | | Q4 (35- <44 pounds) | | | | Q5 (≥44 pounds) | | | |
|  |  |  |  | Females | | Males | | Females | | Males | | Females | | Males | | Females | | Males | |
|  | Model | N‡ | N§ | OR | 95% CI | OR | 95% CI | OR | 95% CI | OR | 95% CI | OR | 95% CI | OR | 95% CI | OR | 95% CI | OR | 95% CI |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ASD | Crude |  |  | 1.34 | (0.67-2.69) | 1.64 | (1.03-2.60) | 1.06 | (0.51-2.20) | 1.35 | (0.86-2.14) | 0.88 | (0.42-1.85) | 1.79 | (1.16-2.77) | 0.78 | (0.37-1.67) | 2.22 | (1.43-3.44) |
|  | Adj¶ | 94 | 420 | 0.94 | (0.45-1.97) | 1.23 | (0.75-2.01) | 0.98 | (0.46-2.08) | 1.43 | (0.89-2.29) | 0.93 | (0.43-1.99) | 1.82 | (1.16-2.87) | 0.63 | (0.29-1.40) | 2.16 | (1.37-3.41) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ASD | Crude |  |  | 1.07 | (0.48-2.33) | 1.82 | (1.07-3.11) | 0.77 | (0.33-1.79) | 1.45 | (0.85-2.48) | 0.71 | (0.31-1.65) | 1.87 | (1.13-3.11) | 0.77 | (0.34-1.76) | 2.15 | (1.29-3.59) |
| with ID | Adj¶ | 66 | 251 | 0.63 | (0.27-1.48) | 1.11 | (0.62-1.98) | 0.64 | (0.27-1.57) | 1.51 | (0.85-2.66) | 0.79 | (0.33-1.89) | 1.83 | (1.06-3.15) | 0.69 | (0.29-1.65) | 2.22 | (1.28-3.85) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ASD | Crude |  |  | 2.34 | (0.60-9.19) | 1.28 | (0.67-2.41) | 2.40 | (0.61-9.45) | 1.17 | (0.63-2.20) | 1.66 | (0.40-6.91) | 1.68 | (0.94-2.99) | 0.83 | (0.16-4.26) | 2.22 | (1.25-3.94) |
| without ID | Adj¶ | 27 | 164 | 2.22 | (0.55-8.88) | 1.24 | (0.64-2.40) | 2.29 | (0.58-9.13) | 1.23 | (0.65-2.33) | 1.48 | (0.35-6.26) | 1.82 | (1.00-3.31) | 0.45 | (0.07-2.84) | 2.24 | (1.24-4.06) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DD | Crude |  |  | 1.46 | (0.85-2.52) | 1.75 | (1.15-2.66) | 1.20 | (0.68-2.11) | 0.99 | (0.64-1.52) | 1.41 | (0.82-2.43) | 1.11 | (0.73-1.67) | 0.88 | (0.49-1.57) | 1.28 | (0.84-1.95) |
|  | Adj¶ | 215 | 468 | 1.29 | (0.73-2.29) | 1.38 | (0.89-2.15) | 1.17 | (0.65-2.10) | 0.95 | (0.61-1.48) | 1.48 | (0.85-2.60) | 1.17 | (0.76-1.80) | 0.80 | (0.44-1.48) | 1.29 | (0.84-2.00) |

† Reference is middle Quintile (30 to<35 pounds), Interaction p-values; ASD (0.08), ASD with ID (0.23), ASD without ID (0.085), DD (0.29)

‡ N for Females, POP NFemales=352

§ N for Males, POP NMales=391

¶ Adjusted for maternal age (<25, 25-29, 30-34=ref, ≥35), education (HS or less, some college, college degree=ref, Masters or higher), race/ethnicity (Non-Hispanic White=ref; Non-Hispanic Black; Non-Hispanic Asian; multiple races, or other; Hispanic), parity (0=ref, ≥1), pre-pregnancy BMI, and smoking (during pre-pregnancy or first trimester, throughout pregnancy, none=ref), plus interaction terms.

Abbreviations: ASD=Autism Spectrum Disorder, DD=Developmental Disorder, non-ASD, ID=Intellectual disability (IQ≤70), POP=population-based control group, BMI=body mass index

Supplemental Table 5. Interaction of IOM/ACOG† Recommended Weight Gain and Child Sex on ASD or DD, among singleton term births; Crude and adjusted odds ratios (ORs) and 95% confidence intervals (CI).

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  | | | |  |  | | | |  |  | |  | |  | |  | |  | |  | |  | |  | |
| ACOG |  |  |  | Below IOM/ACOG Recommendation | | | |  | Exceeds IOM/ACOG Recommendation | | | |  |  | |  | |  | |  | |  | |  | |  | |  | |
|  |  |  |  | Females | | Males | |  | Females | | Males | |  |  | |  | |  | |  | |  | |  | |  | |  | |
|  | Model | N‡ | N§ | OR | 95% CI | OR | 95% CI |  | OR | 95% CI | OR | 95% CI |  |  |  | |  | |  | |  | |  | |  | |  | |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |
| ASD | Crude |  |  | 1.12 | (0.58-2.16) | 1.21 | (0.77-1.89) |  | 0.98 | (0.59-1.60) | 1.44 | (1.07-1.93) |  |  |  | |  | |  | |  | |  | |  | |  | |
|  | Adj¶ | 94 | 420 | 0.88 | (0.44-1.73) | 0.99 | (0.61-1.59) |  | 0.89 | (0.53-1.49) | 1.35 | (0.99-1.84) |  |  |  | |  | |  | |  | |  | |  | |  | |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |
| ASD with ID | Crude |  |  | 1.08 | (0.49-2.38) | 1.28 | (0.77-2.12) |  | 1.15 | (0.65-2.04) | 1.39 | (0.99-1.96) |  |  |  | |  | |  | |  | |  | |  | |  | |
|  | Adj¶ | 66 | 251 | 0.78 | (0.34-1.79) | 0.88 | (0.50-1.54) |  | 1.13 | (0.62-2.06) | 1.32 | (0.92-1.90) |  |  |  | |  | |  | |  | |  | |  | |  | |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |
| ASD without ID | Crude |  |  | 1.29 | (0.47-3.57) | 1.08 | (0.58-2.01) |  | 0.69 | (0.29-1.67) | 1.53 | (1.03-2.27) |  |  |  | |  | |  | |  | |  | |  | |  | |
|  | Adj¶ | 27 | 164 | 1.21 | (0.43-3.40) | 1.13 | (0.60-2.13) |  | 0.54 | (0.22-1.35) | 1.52 | (1.01-2.28) |  |  |  | |  | |  | |  | |  | |  | |  | |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  | |  | |  | |  | |
| DD | Crude |  |  | 1.45 | (0.89-2.36) | 1.37 | (0.90-2.07) |  | 1.19 | (0.82-1.72) | 1.09 | (0.82-1.46) |  |  |  | |  | |  | |  | |  | |  | |  | |
|  | Adj¶ | 215 | 468 | 1.16 | (0.70-1.92) | 1.15 | (0.74-1.78) |  | 1.07 | (0.73-1.56) | 1.07 | (0.79-1.44) |  |  |  | |  | |  | |  | |  | |  | |  | |

† Reference is ‘Met’ recommended weight gain per initial BMI, Interaction p-values; ASD (0.38), ASD with ID (0.91), ASD without ID (0.09), DD (0.99).

‡ N for Females, POP NFemales=352

§ N for Males, POP NMales=391

¶Adjusted for maternal age (<25, 25-29, 30-34=ref, ≥35), education (HS or less, some college, college degree=ref, Masters or higher), race/ethnicity (Non-Hispanic White=ref; Non-Hispanic Black; Non-Hispanic Asian; multiple races, or other; Hispanic), parity (0=ref, ≥1), and smoking (during pre-pregnancy or first trimester, throughout pregnancy, none=ref), plus interaction terms.

Abbreviations: ASD=Autism Spectrum Disorder, DD=Developmental Disorder, non-ASD, ID=Intellectual disability (IQ≤70), POP=population-based control group, BMI=body mass