**Reply to ‘Preconception Paternal/Maternal Body Mass Index and Risk of Small/Large for Gestational Age Infant in over 4·7 Million Chinese Women Aged 20-49 Years: A Population-based Cohort Study in China’**

**Supplemental Materials:**

**Supplemental Table 1 Associations between Maternal/ Paternal Preconception Body Mass Index and Risk of Small/Large for Gestational Age Infant in male infants (Odds Ratios and 95% Confidence Intervals). (n=2 453 312)**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Outcome ( SGA/LGA )** |  | **No·of** |  | **Outcome ( SGA / LGA ) cases** | | |  | **Age-adjusted** | | |  | **Multivariate-adjusted** | | |
| **Maternal/Paternal BMI** |  | **participants** |  | **n** |  | **%** |  | **OR** |  | **95% CI** |  | **OR** |  | **95% CI** |
| **SGA vs AGA** |  | 2 453 312 |  | 125 680 |  | 5·12 |  |  |  |  |  |  |  |  |
| **Maternal BMI** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Underweight (<18·5) |  | 331 390 |  | 23 571 |  | 7·11 |  | 1·45\* |  | 1·43, 1·47 |  | 1·35‡ |  | 1·33, 1·37 |
| Normal weight (18·5-) |  | 1 757 096 |  | 87 534 |  | 4·98 |  | 1·00 | | |  | 1·00 | | |
| Overweight (24·0-) |  | 297 359 |  | 12 000 |  | 4·04 |  | 0·82\* |  | 0·80, 0·84 |  | 0·86‡ |  | 0·85, 0·88 |
| Obese (28·0-) |  | 67 467 |  | 2575 |  | 3·82 |  | 0·83\* |  | 0·78, 0·88 |  | 0·84‡ |  | 0·83, 0·87 |
| **Paternal BMI** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Underweight (<18·5) |  | 100 368 |  | 6636 |  | 6·61 |  | 1·27† |  | 1·24, 1·31 |  | 1·16§ |  | 1·13, 1·19 |
| Normal weight (18·5-) |  | 1 527 918 |  | 81 250 |  | 5·32 |  | 1·00 | | |  | 1·00 | | |
| Overweight (24·0-) |  | 650 248 |  | 30 495 |  | 4·69 |  | 0·87† |  | 0·86, 0·88 |  | 0·92§ |  | 0·91, 0·94 |
| Obese (28·0-) |  | 174 778 |  | 7299 |  | 4·18 |  | 0·81† |  | 0·78, 0·84 |  | 0·87§ |  | 0·84, 0·89 |
| **LGA vs AGA** |  | 2 453 312 |  | 258 552 |  | 10·54 |  |  |  |  |  |  |  |  |
| **Maternal BMI** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Underweight (<18·5) |  | 331 390 |  | 28 212 |  | 8·51 |  | 0·82\* |  | 0·81, 0·83 |  | 0.87‡ |  | 0·86, 0·88 |
| Normal weight (18·5-) |  | 1 757 096 |  | 180 696 |  | 10·28 |  | 1·00 | | |  | 1·00 | | |
| Overweight (24·0-) |  | 297 359 |  | 39 419 |  | 13·26 |  | 1·37\* |  | 1·35, 1·39 |  | 1·25‡ |  | 1·23, 1·26 |
| Obese (28·0-) |  | 67 467 |  | 10 225 |  | 15·16 |  | 1·53\* |  | 1·48, 1·58 |  | 1·43‡ |  | 1·40, 1·46 |
| **Paternal BMI** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Underweight (<18·5) |  | 100 368 |  | 9254 |  | 9·22 |  | 0·91† |  | 0·90, 0·94 |  | 0.96§ |  | 0·93, 0·97 |
| Normal weight (18·5-) |  | 1 527 918 |  | 153 424 |  | 10·04 |  | 1·00 | | |  | 1·00 | | |
| Overweight (24·0-) |  | 650 248 |  | 73 315 |  | 11·27 |  | 1·15† |  | 1·14, 1·17 |  | 1·08§ |  | 1·07, 1·09 |
| Obese (28·0-) |  | 174 778 |  | 22 559 |  | 12·91 |  | 1·32† |  | 1·30, 1·36 |  | 1·19§ |  | 1·17, 1·21 |

Abbreviations: SGA, small for gestational age infant; LGA, large for gestational age infant; AGA, appropriate for gestational age infant; OR, odds ratios, BMI, body mass index (calculated as the weight in kilograms divided by height in meters squared).

\* † Models were adjusted for maternal and paternal age at last menstrual period.

‡ Models were adjusted for maternal and paternal age at LMP, height, ethnic, education, area of residence, alcohol drinking, smoking, passive smoking and paternal BMI, maternal hypertension, diabetes, parity as well as history of adverse pregnancy.

§ Models were adjusted for maternal and paternal age at LMP, height, ethnic, education, area of residence, alcohol drinking, smoking, passive smoking and maternal BMI, hypertension, diabetes, parity as well as history of adverse pregnancy.

**Supplemental Table 2 Associations between Maternal/ Paternal Preconception Body Mass Index and Risk of Small/Large for Gestational Age Infant in female infants (Odds Ratios and 95% Confidence Intervals). (n=2 261 613)**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Outcome ( SGA/LGA )** |  | **No·of** |  | **Outcome ( SGA / LGA ) cases** | | |  | **Age-adjusted** | | |  | **Multivariate-adjusted** | | |
| **Maternal/Paternal BMI** |  | **participants** |  | **n** |  | **%** |  | **OR** |  | **95% CI** |  | **OR** |  | **95% CI** |
| **SGA vs AGA** |  | 2 261 613 |  | 131 038 |  | 5·79 |  |  |  |  |  |  |  |  |
| **Maternal BMI** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Underweight (<18·5) |  | 306 568 |  | 24 998 |  | 8·15 |  | 1·49\* |  | 1·46, 1·51 |  | 1·37‡ |  | 1·35, 1·39 |
| Normal weight (18·5-) |  | 1 620 049 |  | 91 042 |  | 5·62 |  | 1·00 | | |  | 1·00 | | |
| Overweight (24·0-) |  | 272 387 |  | 12 287 |  | 4·52 |  | 0·80\* |  | 0·78, 0·82 |  | 0·85‡ |  | 0·83, 0·87 |
| Obese (28·0-) |  | 62 609 |  | 2711 |  | 4·33 |  | 0·81\* |  | 0·77, 0·86 |  | 0·83‡ |  | 0·80, 0·87 |
| **Paternal BMI** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Underweight (<18·5) |  | 93 198 |  | 7043 |  | 7·56 |  | 1·30† |  | 1·26, 1·33 |  | 1·17§ |  | 1·13, 1·19 |
| Normal weight (18·5-) |  | 1 412 447 |  | 84 674 |  | 5·99 |  | 1·00 | | |  | 1·00 | | |
| Overweight (24·0-) |  | 597 159 |  | 31 634 |  | 5·30 |  | 0·89† |  | 0·87, 0·90 |  | 0·92§ |  | 0·91, 0·94 |
| Obese (28·0-) |  | 158 809 |  | 7687 |  | 4·84 |  | 0·82† |  | 0·79, 0·85 |  | 0·88§ |  | 0·86, 0·91 |
| **LGA vs AGA** |  | 2 261 613 |  | 247943 |  | 10·96 |  |  |  |  |  |  |  |  |
| **Maternal BMI** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Underweight (<18·5) |  | 306 568 |  | 27 320 |  | 8·91 |  | 0·83\* |  | 0·82, 0·84 |  | 0·87‡ |  | 0·86, 0·88 |
| Normal weight (18·5-) |  | 1 620 049 |  | 173 610 |  | 10·72 |  | 1·00 | | |  | 1·00 | | |
| Overweight (24·0-) |  | 272 387 |  | 37 365 |  | 13·72 |  | 1·34\* |  | 1·33, 1·36 |  | 1·25‡ |  | 1·24, 1·27 |
| Obese (28·0-) |  | 62 609 |  | 9468 |  | 15·12 |  | 1·51\* |  | 1·46, 1·56 |  | 1·42‡ |  | 1·38, 1·45 |
| **Paternal BMI** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Underweight (<18·5) |  | 93 198 |  | 8800 |  | 9·44 |  | 0·90† |  | 0·87, 0·92 |  | 0.94§ |  | 0·91, 0·96 |
| Normal weight (18·5-) |  | 1 412 447 |  | 148 117 |  | 10·49 |  | 1·00 | | |  | 1·00 | | |
| Overweight (24·0-) |  | 597 159 |  | 69 883 |  | 11·70 |  | 1·14† |  | 1·13, 1·15 |  | 1·08§ |  | 1·07, 1·09 |
| Obese (28·0-) |  | 158 809 |  | 21 143 |  | 13·31 |  | 1·31† |  | 1·28, 1·34 |  | 1·18§ |  | 1·16, 1·20 |

Abbreviations: SGA, small for gestational age infant; LGA, large for gestational age infant; AGA, appropriate for gestational age infant; OR, odds ratios, BMI, body mass index (calculated as the weight in kilograms divided by height in meters squared).

\* † Models were adjusted for maternal and paternal age at last menstrual period.

‡ Models were adjusted for maternal and paternal age at LMP, weight, height, ethnic, education, area of residence, alcohol drinking, smoking, passive smoking and paternal BMI, maternal hypertension, diabetes, parity as well as history of adverse pregnancy.

§ Models were adjusted for maternal and paternal age at LMP, weight, height, ethnic, education, area of residence, alcohol drinking, smoking, passive smoking and maternal BMI, hypertension, diabetes, parity as well as history of adverse pregnancy.