

Supplementary Table SV Sensitivity analyses for associations of mode of delivery (planned, unplanned cesarean versus vaginal delivery) with pubertal outcomes.

| | | Complete case analyses ^a | Inverse probability of censoring weighting analyses ^a | Excluding GDM, pre-eclampsia, macrosomia ^b |
|---|--------------|-------------------------------------|--|---|
| Boys | | | | |
| Age at peak height velocity (years) ^c | Vaginal | 0.00 (ref) | 0.00 (ref) | 0.00 (ref) |
| | CS planned | -0.34 (-0.68, 0.01) | -0.31 (-0.57, -0.06) | -0.44 (-0.90, 0.01) |
| | CS unplanned | -0.16 (-0.39, 0.08) | -0.22 (-0.43, -0.01) | -0.22 (-0.50, 0.07) |
| Risk of earlier attainment of puberty score > 1 ^d | Vaginal | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) |
| | CS planned | 1.10 (0.96, 1.25) | 1.13 (0.97, 1.31) | 1.10 (0.94, 1.28) |
| | CS unplanned | 1.05 (0.96, 1.14) | 1.07 (0.97, 1.18) | 1.07 (0.96, 1.20) |
| Risk of earlier entry into Tanner pubic hair Stage > 1 ^d | Vaginal | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) |
| | CS planned | 1.04 (0.82, 1.33) | 1.10 (0.87, 1.39) | 1.03 (0.83, 1.27) |
| | CS unplanned | 0.97 (0.83, 1.12) | 1.01 (0.86, 1.18) | 1.13 (0.92, 1.40) |
| Girls | | | | |
| Age at peak height velocity (years) ^c | Vaginal | 0.00 (ref) | 0.00 (ref) | 0.00 (ref) |
| | CS planned | 0.00 (-0.34, 0.35) | 0.08 (-0.25, 0.42) | -0.03 (-0.41, 0.34) |
| | CS unplanned | -0.10 (-0.37, 0.17) | -0.02 (-0.26, 0.22) | -0.18 (-0.50, 0.14) |
| Risk of earlier attainment of puberty score > 1 ^d | Vaginal | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) |
| | CS planned | 0.91 (0.78, 1.05) | 0.88 (0.76, 1.02) | 0.94 (0.81, 1.09) |
| | CS unplanned | 1.02 (0.91, 1.15) | 0.96 (0.85, 1.09) | 1.08 (0.94, 1.23) |
| Risk of earlier entry into Tanner pubic hair Stage > 1 ^d | Vaginal | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) |
| | CS planned | 1.01 (0.82, 1.24) | 0.90 (0.72, 1.11) | 1.03 (0.83, 1.27) |
| | CS unplanned | 1.03 (0.85, 1.25) | 0.94 (0.79, 1.13) | 1.13 (0.92, 1.40) |
| Risk of earlier menarche ^d | Vaginal | 1.00 (ref) | 1.00 (ref) | 1.00 (ref) |
| | CS planned | 1.26 (0.81, 1.96) | 1.20 (0.77, 1.88) | 1.44 (0.88, 2.35) |
| | CS unplanned | 1.42 (1.01, 2.00) | 1.01 (0.69, 1.48) | 1.43 (1.00, 2.06) |

^aAdjusted for gestational age at delivery, birthweight-for-gestational-age z-score, maternal age at enrollment, educational level, household income, race/ethnicity, smoking history, parity, GDM, pre-eclampsia, height, pre-pregnancy BMI, maternal age at menarche, paternal height and BMI.

^bAdjusted for gestational age at delivery, birthweight-for-gestational-age z-score, maternal age at enrollment, educational level, household income, race/ethnicity, smoking history, parity, height, pre-pregnancy BMI, maternal age at menarche, paternal height and BMI.

^cEffect estimates represent mean differences and 95% CI.

^dEffect estimates represent hazard ratios and 95% CI.