**Table S14. Mean difference (95% confidence interval) in offspring BMI at various ages, if the father began smoking before 11 years old. Additionally adjusted for maternal and paternal smoking at offspring conception.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|   | All ages, adjusted | Offspring 12-19 | Offspring 20-27 | Offspring 28-35 | Offspring 36-76 |
| *Sons and daughters* |  |  |  |  |
|  Nraw | 221 / 46,831 | 44 / 12,418 | 63 / 13,281 | 66 / 11,950 | 48 / 9,182 |
|  Nsw | 112.5 / 25,469 | 35 / 9,473 | 46 / 10,157 | 43 / 8,927 | 33 / 6,568 |
|  MD (95% CI) | 0.57 (-0.16, 1.30) | 0.68 (-0.55, 1.91) | 0.25 (-0.82, 1.33) | 0.33 (-0.86, 1.53) | 2.06 (0.51, 3.60) |
|  P | 0.124 | 0.278 | 0.645 | 0.584 | 0.009 |
|  Pinteraction | 0.222 | 0.326 | 0.005 | 0.419 | 0.241 |
|  |  |  |  |  |  |
| *Sons* |  |  |  |  |  |
|  Nraw | 113 / 23,758 | 23 / 6,201 | 31 / 6,489 | 31 / 6,107 | 28 / 4,961 |
|  Nsw | 77 / 17,165 | 19 / 5,469 | 29 / 5,601 | 24 / 5,247 | 22 / 4,079 |
|  MD (95% CI) | 0.04 (-0.76, 0.85) | -0.21 (-1.87, 1.44) | -1.32 (-2.53, -0.10) | -0.34 (-1.77, 1.09) | 2.30 (0.58, 4.02) |
|  P | 0.916 | 0.803 | 0.034 | 0.640 | 0.009 |
|  |  |  |  |  |  |
| *Daughters* |  |  |  |  |  |
|  Nraw | 108 / 23,073 | 21 / 6,217 | 32 / 6,792 | 35 / 5,843 | 20 / 4,221 |
|  Nsw | 73.5 / 16,765 | 21 / 5,386 | 24 / 5,915 | 28 / 5,025 | 17 / 3,560 |
|  MD (95% CI) | 1.12 (0.17, 2.07) | 1.46 (-0.16, 3.08) | 1.51 (-0.08, 3.09) | 0.71 (-0.89, 2.32) | 0.67 (-1.65, 2.99) |
|  P | 0.020 | 0.077 | 0.062 | 0.382 | 0.570 |

Linear regressions were also adjusted for eldest offspring status, mother's and father's education level and father's employment type. Observations in all analyses were weighted by the reciprocal of the number of siblings (of the specified sex and age) used in that analysis, and Nsw is the sum of weights for those whose fathers began smoking before 11 years old, followed by the total sum of weights. Nraw are the unweighted sample sizes. The analysis of all offspring ages was additionally adjusted for a cubic spline of offspring age. Pinteraction tests whether the MD differs between sons and daughters.