Table 3Relationship between maternal pre-pregnancy BMI category and maternally-reported symptoms and infections during the first year of life

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **BMI category** | **RR (95% CI)** | **P-value** | **RR (95% CI)** | **P-value** | **RR (95% CI)** | **P-value** | **RR (95% CI)** | **P-value** | **RR (95% CI)** | **P-value** | **RR (95% CI)** | **P-value** |
|  | **Wheeze** | **Prolonged cough** | **LRTI** | **Croup** | **Ear infection** | **Diarrhoea / vomiting** |
|  | Adjusting for DAG-identified confounders (Model 1 - maternal age, education, parity, smoking in pregnancy) |
| **Underweight** | 0.70 (0.44, 1.11) | 0.1 | 1.09 (0.71, 1.68) | 0.7 | 0.71 (0.38, 1.34) | 0.3 | 1.58 (0.79, 3.15) | 0.2 | 0.83 (0.44, 1.54) | 0.5 | 1.00 (0.74, 1.35) | 0.99 |
| **Normal** | Reference |  |  |  |  |  |  |  |  |  |  |  |
| **Overweight** | 1.08 (0.98, 1.20) | 0.1 | 1.16 (1.02, 1.32) | 0.02 | 1.12 (0.96, 1.29) | 0.1 | 1.04 (0.80, 1.35) | 0.8 | 0.99 (0.83, 1.18) | 0.9 | 1.17 (1.07, 1.27) | <0.001 |
| **Obese** | 1.19 (1.06, 1.34) | 0.003 | 1.14 (0.97, 1.35) | 0.1 | 1.30 (1.10, 1.53) | 0.002 | 1.07 (0.77, 1.49) | 0.7 | 1.05 (0.85, 1.30) | 0.7 | 1.05(0.93, 1.18) | 0.4 |
| **p-trend** |  | 0.001 |  | 0.04 |  | 0.001 |  | 0.9 |  | 0.6 |  | 0.04 |
|  | Adjusting for DAG-identified confounders and paternal BMI (Model 2 – paternal BMI, maternal age, education, parity, smoking in pregnancy) |
| **Underweight** | 0.71 (0.44, 1.15) | 0.2 | 0.94 (0.56, 1.55) | 0.8 | 0.79 (0.42, 1.47) | 0.5 | 1.21 (0.53, 2.77) | 0.7 | 0.77 (0.39, 1.52) | 0.5 | 0.97 (0.70, 1.33) | 0.8 |
| **Normal** | Reference |  |  |  |  |  |  |  |  |  |  |  |
| **Overweight** | 1.11 (0.99, 1.23) | 0.06 | 1.18 (1.03, 1.35) | 0.01 | 1.09 (0.94, 1.28) | 0.3 | 0.96 (0.72, 1.29) | 0.8 | 1.01 (0.84, 1.21) | 0.9 | 1.15 (1.06, 1.26) | 0.002 |
| **Obese** | 1.19 (1.05, 1.35) | 0.007 | 1.17 (0.98, 1.38) | 0.08 | 1.23 (1.03, 1.48) | 0.02 | 1.03 (0.72, 1.46) | 0.9 | 0.98 (0.78, 1.24) | 0.9 | 1.00(0.88, 1.14) | 0.98 |
| **p-trend** |  | 0.001 |  | 0.02 |  | 0.01 |  |  | 0.9 | 0.9 |  | 0.2 |