**Supplementary table 2. Association between pregestational BMI, GWG and breastfeeding and patterns of postpartum weight change after excluding women with imputed weight at 12 months postpartum (n=400)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Reference group: return to pregestational weight*  |   | PPWR  | PPWG  | PPWR + WG  |
|  |  | **Model**  |
| Pregestational BMI | **n ⱡ** | **RRR** | **95% CI** | ***p*** | **RRR** | **95% CI** | ***p*** | **RRR** | **95% CI** | ***p*** |
|  *Normal weight* | 158 |  *Reference* |  *Reference*  |  *Reference*  |
|  *Overweight*  | 167 | 0.68 | 0.29, 1.57 | *0.364* | 2.71 | 1.29, 5.72 | ***0.009*** | 1.15 | 0.63, 2.10 | *0.650* |
|  *Obese* | 75 | 0.21 | 0.05, 0.99 | ***0.048*** | 2.30 | 0.94, 5.62 | ***0.069*** | 1.19 | 0.57, 2.50 | *0.644* |
| Adequacy of GWG ‡ | **n ⱡ** | **RRR** | **95% CI** | ***p*** | **RRR** | **95% CI** | ***p*** | **RRR** | **95% CI** | ***p*** |
|  *Insufficient*  | 87 | -- | -- | *--* | 1.35 | 0.64, 2.86 | *0.427* | 0.35 | 0.15, 0.84 | ***0.018*** |
|  *Adequate*  | 178 |  *Reference* |  *Reference*  |  *Reference*  |
|  *Excessive*  | 95 | 6.02 | 2.38, 15.18 | ***<0.001*** | 0.92 | 0.38, 2.23 | *0.849* | 2.61 | 1.33, 5.15 | ***0.006*** |
| Type of breastfeeding at one month | **n ⱡ**  | **RRR** | **95% CI** | ***p*** | **RRR** | **95% CI** | ***p*** | **RRR** | **95% CI** | ***p*** |
|  *No breastfeeding*  | 47 |  *Reference* |  *Reference*  |  *Reference*  |
|  *Partial*  | 193 | 0.40 | 0.12, 1.33 | *0.135* | 1.65 | 0.47, 5.76 | *0.433* | 0.62 | 0.26, 1.51 | *0.296* |
|  *Predominant* | 24 | 0.77 | 0.11, 5.36 | *0.794* | 3.23 | 0.59, 17.68 | *0.177* | 0.51 | 0.11, 2.38 | *0.395* |
|  *Exclusive*  | 100 | 0.15 | 0.04, 0.67 | ***0.013*** | 2.03 | 0.53, 7.80 | *0.303* | 0.60 | 0.22, 1.64 | *0.323* |
| Results from multinomial logistic regression models. PPWR, postpartum weight retention; PPWG, postpartum weight gain; PPWR+WG, postpartum weight retention + weight gain; BMI, body mass index; RRR, relative risk ratio; CI, confidence interval; GWG, gestational weight gain.Pregestational BMI: normal weight (<25 kg/m2), overweight (≥25 to <30 kg/m2), and obese (≥30 kg/m2). GWG: insufficient (below the expected weight for gestational age), adequate (between the expected minimum and maximum weights for gestational age) and excessive (above the expected weight for gestational age). Type of breastfeeding at one month: exclusive (only breast milk), predominant (breast milk and certain liquids such as water and water-based drinks, but excluding non-human milk), partial (breast milk and any food or liquid, including non-human milk), and no breastfeeding Distribution of patterns as follows: Return to pregestational weight: n=224 (56.0%); PPWR: n=32 (8.0%); PPWG: n=58 (14.5%); PPWR+WG: n=86 (n=21.5%).ⱡ Total sample may be <400 due to missing values.‡ n=0 for insufficient GWG and postpartum weight retention.Model: adjusted for age, marital status (single/separated and married/cohabitating), education (basic: elementary and secondary school, middle: high school, and college: at least college), parity (primiparous and multiparous), and socioeconomic status (high, middle, and low). For adequacy of GWG, the model was further adjusted for pregestational BMI (normal weight, overweight and obese), smoking history (never smokers, smokers around pregnancy and former smokers), physically active (yes and no), and sedentary activities in pregnancy (<2 h/day and ≥2 h/day). For type of breastfeeding, the model was additionally adjusted for pregestational BMI (normal weight, overweight and obese), smoking history (never smokers, smokers around pregnancy and former smokers), adequacy of GWG (insufficient, adequate and excessive), gestational age at delivery, and pregnancy complications (yes and no). |