

SUPPLEMENTARY DATA

Supplementary Table 1. Univariate Analysis Results

| Variable/Model | Model 1 Mode of Delivery Odds Ratios(SE) | | | | Model 2 Neonatal Admission Odds Ratios (SE) | Model 3 Maternity Cost Coefficient (SE) |
|--|--|------------------------------|----------------------------------|-----------------------------------|---|---|
| | Normal Vaginal Delivery (base-category) | Assisted Vaginal Delivery | Elective Caesarean Section | Emergency Caesarean Section | | |
| Gestational Diabetes Mellitus | ----- | 0.79 (0.15) | 1.74 (0.35)** | 1.91 (0.37)** | 3.59 (0.47)*** | 0.41 (0.05)*** |
| Normal Weight (base-category) | ----- | ----- | ----- | ----- | ----- | ----- |
| Overweight | ----- | 0.92 (0.10) | 1.79 (0.31)*** | 1.53 (0.25)** | 1.10 (0.14) | 0.05 (0.03) |
| Obese | ----- | 0.81 (0.12) | 2.67 (0.48)*** | 2.56 (0.45)*** | 1.40 (0.20)** | 0.23 (0.03)*** |
| Age: < 30 years (base-category) | ----- | ----- | ----- | ----- | ----- | ----- |
| Age: 30 - 40 years | ----- | 1.62 (0.21)*** | 1.53 (0.36) | 2.22 (0.45)*** | 1.00 (0.16) | 0.04 (0.03) |
| Age: > 40 years | ----- | 1.81 (0.33)*** | 2.04 (0.54)*** | 2.79 (0.72)*** | 1.13 (0.23) | 0.06 (0.04) |
| Primiparous | ----- | 7.75 (0.90)*** | 0.76 (0.13) | 6.76 (1.05)*** | 1.50 (0.18)*** | 0.20 (0.03)*** |
| Family History of Diabetes | ----- | 1.06 (0.11) | 1.32 (0.18)** | 0.96 (0.14) | 1.17 (0.14) | 0.06 (0.03)** |
| Previous Miscarriage | ----- | 0.95 (0.12) | 0.96 (0.14) | 0.92 (0.16) | 0.94 (0.13) | -0.03 (0.03) |
| Ethnic Group: Other | ----- | 0.84 (0.17) | 0.63 (0.17) | 1.30 (0.31) | 0.70 (0.16) | 0.04 (0.05) |
| Delivery Week: >=39 weeks (base-category) | ----- | ----- | ----- | ----- | ----- | ----- |
| Delivery Week: 36 - 39 weeks | ----- | 0.80 (0.11) | 3.40 (0.48)*** | 1.05 (0.19) | 2.53 (0.31)*** | 0.25 (0.03)*** |
| Delivery Week: < 36 weeks | ----- | 0.39 (0.15)** | 1.63 (0.68) | 4.12 (1.05)*** | 46.60 (10.82)*** | 0.99 (0.01)*** |

Note 1: ** = p -value < 0.05; *** = p -value < 0.01

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Supplementary Table 2. Multivariate Analysis Results (GDM: Overt Diabetes / GDM: Impaired fasting glucose/Impaired glucose tolerance + Other Independent Variables)

| Variable/Model | Model 1 Mode of Delivery Odds Ratios(SE) | | | | Model 2 Neonatal Admission Odds Ratios (SE) | Model 3 Maternity Cost Coefficient (SE) |
|---|--|------------------------------|----------------------------------|-----------------------------------|---|---|
| | Normal Vaginal Delivery (base-category) | Assisted Vaginal Delivery | Elective Caesarean Section | Emergency Caesarean Section | | |
| Gestational Diabetes Mellitus: Overt Diabetes | ----- | 1.18 (0.48) | 0.56 (0.31) | 0.83 (0.46) | 2.38 (0.70)*** | 0.26 (0.09)*** |
| Gestational Diabetes Mellitus: Impaired fasting glucose/Impaired glucose tolerance | | 1.14 (0.30) | 1.43 (0.37) | 2.14 (0.57)*** | 3.47(0.64)*** | 0.36 (0.05)*** |
| Normal Weight (base-category) | ----- | ----- | ----- | ----- | ----- | ----- |
| Overweight | ----- | 0.92 (0.10) | 1.79 (0.31)*** | 1.54 (0.25)** | 1.01 (0.14) | 0.05 (0.03) |
| Obese | ----- | 0.81 (0.12) | 2.68 (0.48)*** | 2.56 (0.45)*** | 1.40 (0.20)** | 0.21 (0.03)*** |
| Age: < 30 years (base-category) | ----- | ----- | ----- | ----- | ----- | ----- |
| Age: 30 - 40 years | ----- | 1.62 (0.21)*** | 1.53 (0.36) | 2.24 (0.46)*** | 1.01 (0.16) | 0.09 (0.03)*** |
| Age: > 40 years | ----- | 1.81 (0.33)*** | 2.05 (0.54)*** | 2.81 (0.73)*** | 1.14 (0.23) | 0.16 (0.04)*** |
| Primiparous | ----- | 7.75 (0.90)*** | 0.76 (0.13) | 6.75 (1.04)*** | 1.50 (0.18)*** | 0.25 (0.03)*** |
| Family History of Diabetes | ----- | 1.06 (0.11) | 1.33 (0.18)** | 0.96 (0.14) | 1.18 (0.14) | 0.03 (0.03) |
| Previous Miscarriage | ----- | 0.95 (0.12) | 0.97 (0.14) | 0.92 (0.16) | 0.94 (0.13) | -0.03 (0.03) |
| Ethnic Group: Other | ----- | 0.84 (0.17) | 0.65 (0.18) | 1.34 (0.32) | 0.71 (0.16) | -0.03 (0.04) |
| Delivery Week: >=39 weeks (base-category) | ----- | ----- | ----- | ----- | ----- | ----- |
| Delivery Week: 36 - 39 weeks | ----- | 0.80 (0.11) | 3.39 (0.48)*** | 1.04 (0.19) | 2.53 (0.31)*** | 0.24 (0.03)*** |
| Delivery Week: < 36 weeks | ----- | 0.40 (0.16)** | 1.64 (0.69) | 4.14 (1.06)*** | 46.90 (10.89)*** | 0.95 (0.07)*** |
| | | | | | | |
| AIC | | 5848.36 | | | 2273.92 | 18.60 |
| Log Likelihood | | -2885.1791 | | | -1123.9575 | -30451.61848 |

Note 1: ** = *p-value* < 0.05; *** = *p-value* < 0.01

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Supplementary Table 3. Spearman Correlation Matrix for Independent Variables

| Variable/Model | GDM | BMI | Age | Primiparous | Family History of Diabetes | Previous Miscarriage | Ethnicity | Delivery Week |
|-----------------------------------|---------|---------|---------|-------------|----------------------------|----------------------|-----------|---------------|
| GDM | 1.000 | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| BMI | 0.2043 | 1.000 | ----- | ----- | ----- | ----- | ----- | ----- |
| Age | 0.0472 | 0.0987 | 1.000 | ----- | ----- | ----- | ----- | ----- |
| Primiparous | -0.0446 | -0.1242 | -0.3319 | 1.000 | ----- | ----- | ----- | ----- |
| Family History of Diabetes | 0.1469 | 0.1184 | -0.0082 | -0.0329 | 1.000 | ----- | ----- | ----- |
| Previous Miscarriage | 0.0615 | 0.0818 | 0.2012 | -0.2126 | 0.0278 | 1.000 | ----- | ----- |
| Ethnicity | 0.1189 | 0.0359 | -0.0671 | -0.0430 | 0.0163 | 0.0160 | 1.000 | ----- |
| Delivery Week | -0.0737 | -0.0534 | -0.0640 | 0.0178 | -0.0504 | -0.0340 | -0.0642 | 1.000 |

Note 1: ** = *p-value* < 0.05; *** = *p-value* < 0.01