**Table S1** Univariate and multivariate analysis for risk of preterm birth (PTB)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Univariate analysis** | | **Multivariate analysis** | |
|  | **OR (95% CI)** | **P value** | **OR (95% CI)** | **P-value** |
| **BMI** | 1.00 (0.99-1.00) | 0.446 | - | - |
| **Ethnicity (Black)** | 1.99 (1.57-2.52) | **<0.0001** | 1.80 (1.41-2.31) | **<0.0001** |
| **Ethnicity (Asian)** | 1.37 (1.10-1.70) | **0.004** | - | **-** |
| **Previous PTB** | 3.47 (2.69-4.46) | **<0.0001** | 2.84 (1.18-3.71) | **<0.0001** |
| **Smoking** | 1.73 (1.20-2.51) | **0.004** | - | **-** |
| **Diabetes mellitus** | 4.08 (2.38-6.70) | **<0.0001** | 2.96 (1.66-5.30) | **<0.0001** |
| **Chronic hypertension** | 3.62 (1.96-6.69) | **<0.0001** | 2.25 (1.17-4.33) | **0.015** |
| **UtA-PI MoM** | 2.26 (1.66-3.09) | **<0.0001** | 1.95 (1.42-2.69) | **<0.0001** |
| **PAPP-A MoM** | 0.60 (0.50-0.71) | **<0.0001** | 0.66 (0.55-0.78) | **<0.0001** |

BMI body mass index, UtA-PI uterine artery pulsatility index, PAPP-A pregnancy-associated plasma protein A, MoM multiple of median

**Table S2** Univariate and multivariate analysis for risk of spontaneous preterm birth (PTB)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Univariate analysis** | | **Multivariate analysis** | |
|  | **OR (95% CI)** | **P-value** | **OR (95% CI)** | **P-value** |
| **Ethnicity (Asian)** | 1.45 (1.12-1.89) | **0.006** | 1.37 (1.05-1.79) | **0.021** |
| **Previous PTB** | 3.23 (2.34-4.41) | **<0.0001** | 2.92 (2.12-4.02) | **<0.0001** |
| **UtA-PI MoM** | 1.94 (1.32-2.85) | **0.001** | **1.60 (1.08-2.37)** | **0.020** |
| **PAPP-A MoM** | 0.65 (0.53-0.80) | **<0.0001** | **0.71 (0.57-0.87)** | **0.001** |

UtA-PI uterine artery pulsatility index, PAPP-A pregnancy-associated plasma protein A, MoM multiple of median

**Table S3.** Comparison of maternal characteristics between women with spontaneous preterm birth (sPTB) and those with iatrogenic preterm birth (iPTB)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Variables** | | **sPTB n=308** | | **iPTB n=167** | | P value |
| Maternal age | | 32.00 (28.00–35.00) | | 33.00 (29.00–37.00) | | **0.005** |
| Weight | | 65.05 (58.35–76.10) | | 71.00 (61.00–84.00) | | **0.001** |
| BMI | | 24.96 (21.42–28.76) | | 27.02 (23.34–30.71) | | **<0.001** |
| Ethnicity | White | 175 | 56.8% | 74 | 44.3% | **0.002** |
| Black | 44 | 14.3% | 47 | 28.1% |
| Asian | 76 | 24.7% | 36 | 21.6% |
| Mixed, other | 13 | 4.2% | 10 | 6.0% |
| Nulliparity | | 171 | 55.5% | 89 | 53.3% | 0.642 |
| History of PTB | | 51 | 16.6% | 30 | 18.0% | 0.697 |
| Smoking | | 16 | 5.2% | 16 | 9.6% | 0.069 |
| ART Conception | | 16 | 5.2% | 8 | 4.8% | 0.848 |
| Chronic hypertension | | 4 | 1.3% | 8 | 4.8% | **0.030** |
| Diabetes mellitus | | 6 | 2.0% | 10 | 6.0% | **0.031** |
| PTB <34 | | 96 | 31.2% | 51 | 30.5% | 0.887 |
| MAP | | 86.30 (81.50–90.65) | | 89.50 (84.00–95.30) | | **<0.001** |
| UtA-PI | | 1.61 (1.25–1.97) | | 1.67 (1.26–2.07) | | **<0.001** |
| PAPPA\_MoM | | 0.90 (0.64–  1.34) | | 0.89 (0.51–1.28) | | 0.270 |

Data are expressed as n (%) and median (IQR). BMI body mass index, PTB preterm birth, ART assisted reproductive technology, PE pre-eclampsia, MAP mean arterial pressure, UtA-PI uterine artery pulsatility index, PAPP-A pregnancy-associated plasma protein A, MoM multiple of median.

**Table S4.** Indications for iatrogenic preterm birth (PTB)

|  |  |  |
| --- | --- | --- |
| **Indication for iatrogenic PTB** | **Number** | **%** |
| Fetal growth restriction | 49 | 29.3 |
| Pre-eclampsia | 36 | 21.5 |
| Abnormal computerised cardiotocography | 23 | 13.8 |
| Maternal conditions | 23 | 13.8 |
| Stillbirth | 20 | 12.0 |
| Antepartum haemorrhage | 9 | 5.4 |
| Placenta previa/Placenta accreta spectrum disorders | 7 | 4.2 |
| **Total** | 167 | 100 |