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| --- | --- | --- | --- | --- | --- | --- |
| Characteristics of women, labour and delivery | Definition 1b /controln=248 | p | Definition 2c /controln=614 | p | Definition 3d/controln= 727 | p |
| Asian geographic origin | 1.7 (0.8-3.4) | 0.2 | 2.0 (1.1-3.7) | 0.02 | 1.7 (1.0-3.1) | 0.06 |
| Age (year) | 1.0 (1.0-1.0) | 0.4 | 1.0 (1.0-1.0) | 0.2 | 1.0 (1.0-1.0) | 0.4 |
| BMI*e* (/5 kg.m-²) | 1.0 (0.9-1.2) | 0.7 | 1.0 (0.8-1.1) | 0.7 | 1.5 (1.3-1.6) | <0.001 |
| ParityPrimiparaMultipara with no previous caesarean Multipara with previous caesarean  | 3.1 (1.9-4.9)Ref.3.1 (1.7-5.7) | <0.001 | 2.6 (1.9-3.4)Ref.2.5 (1.6-3.8) | <0.001 | 2.1 (1.6-2.8)Ref.2.3 (1.6-3.4) | <0.001 |
| History of clinical PPH | 0.9 (0.2-3.7) | 0.8 | 1.0 (0.4-2.4) | 0.9 | 1.4 (0.7-2.9) | 0.7 |
| Smoking during pregnancy | 0.6 (0.4-1.0) | 0.05 | 0.8 (0.6-1.1) | 0.2 | 1.0 (0.8-1.3) | 0.8 |
| Hypertensive disorder duringf pregnancy | 0.8 (0.3-2.6) | 0.7 | 0.7 (0.3-1.6) | 0.3 | 0.9 (0.4-1.8) | 0.7 |
| Gestational age at delivery (WG) | 1.1 (1.0-1.3) | 0.1 | 1.0 (0.9-1.1) | 0.3 | 1.1 (1.0-1.2) | 0.1 |
| Induction of labour | 1.0 (0.7-1.4) | 0.9 | 1.2 (0.9-1.5) | 0.3 | 1.1 (0.8-1.4) | 0.5 |
| Duration of labour (/2h) | 1.1 (1.0-1.2) | 0.03 | 1.1 (1.1-1.2) | <0.001 | 1.1 (1.0-1.2) | 0.002 |
| Duration of expulsive efforts (/10 min) | 0.9 (0.8-1.1) | 0.1 | 1.0 (0.9-1.1) | 0.6 | 1.0 (0.9-1.1) | 0.7 |
| Total dose of oxytocin (mUI)00-460461-1650>1650 | Ref.1.3 (0.8-2.1)1.3 (0.8-2.0)1.7 (1.1-2.6) | 0.07 | Ref. 1.3 (1.0-1.8)1.3 (1.0-1.8)1.4 (1.0-1.9) | 0.1 | Ref.1.3 (1.0-1.8)1.4 (1.0-1.8)1.4 (1.0-1.9) | 0.07 |
| Hyperthermia during labour  | 1.2 (0.7-1.9) | 0.6 | 1.1 (0.7-1.6) | 0.6 | 1.0 (0.7-1.5) | 0.9 |
| Mode of deliverySpontaneousForcepsVacuumSpatula | Ref.2.3 (1.4-3.7)1.3 (0.7-2.3)2.1 (1.3-3.4) | <0.001 | Ref. 2.8 (1.9-4.1)1.3 (0.8-2.0)2.2 (1.4-3.2) | <0.001 | Ref.2.6 (1.8-3.9)1.3 (0.9-1.9)2.3 (1.6-3.5) | <0.001 |
| Type of perineal traumaNoneEpisiotomy ± 1st and 2nd degree tear1st and 2nd degree tear without episiotomy3rd and 4th degree tear | Ref.2.8 (1.8-4.4)1.0 (0.6-1.6)3.2 (1.2-8.9) | <0.001 | Ref. 3.0(2.2-4.1)1.1 (0.8-1.4)2.1 (0.9-4.8) | <0.001 | Ref.3.2 (2.4-4.3)1.3 (1.0-1.6)2.2 (1.0-4.8) | <0.001 |
| Retained placenta | 2.5 (1.4-4.4) | 0.002 | 2.2 (1.4-3.4) | <0.001 | 1.9 (1.2-2.9) | 0.003 |
| Birth weight (/500g) | 1.0 (0.9-1.3) | 0.6 | 1.0 (0.9-1.2) | 0.5 | 1.1 (1.0-1.2) | 0.1 |

S2 Table. Multivariate analysisa of association of women's characteristics with different definitions of UPPBL

Data are adjusted odds ratios (95% confidence interval)

***a: Multivariate model including all the variables listed in the table and the maternity unit***

*b: Definition 1: Peripartum Hb level change ≥2 g/dL and Hb level ≤10g/dL*

*c: Definition 2: Peripartum change in haematocrit value ≥ 5%*

*d: Definition 3: Blood loss ≥ 500 mL calculated by (peripartum Ht change) x total blood volume (TBV))/0.35, where TBV (mL) = weight (in kg) x 65 x 1.4*

*e: BMI: body mass index (weight (kg)/height² (m))*

*f: High blood pressure or preeclampsia during pregnancy*