

Table 1: Univariate and multivariate analysis for OASIS occurrence according to maternal and delivery characteristics (N=2357 instrumental deliveries).

	Effective (% of total population)	OASI n (%)	Crude OR [95% CI]	Adjusted OR [95% CI]
Mediolateral episiotomy				
No episiotomy	1407 (59.7)	137 (9.7)	Ref.	
Episiotomy	950 (40.3)	37 (3.9)	0.32 [0.22-0.47]	0.29 [0.20-0.43]
Parity¹				
Parous women	472 (21.2)	27 (5.7)	Ref.	
Nulliparous women	1870 (79.8)	146 (7.8)	1.39 [0.91-2.22]	1.53 [0.99-2.38]
Maternal age				
< 25 years	415 (17.6)	26 (6.3)	Ref.	
25 - 34 years	1565 (66.4)	121 (7.7)	1.25 [0.80-2.03]	-
35 years or more	377 (16)	27 (7.2)	1.15 [0.63-2.10]	-
Maternal Body Mass Index²				
< 25 Kg.m ⁻²	1678 (73)	117 (7)	Ref.	
25 to 29 Kg.m ⁻²	430 (18.7)	33 (7.7)	1.11 [0.72-1.67]	-
30 Kg.m ⁻² or more	191 (8.3)	17 (8.9)	1.30 [0.72-2.24]	-
Epidural Analgesia				
No epidural analgesia	309 (13.1)	23 (7.4)	Ref.	
Epidural analgesia	2048 (86.9)	151 (7.4)	1.72 [1.22-2.45]	1.10 [0.68-1.78]
Second stage of labor length³				
< 120 minutes	1256 (62.6)	87 (6.9)	Ref.	
120 minutes or more	751 (37.4)	55 (7.3)	1.06 [0.73-1.53]	-
Expulsive phase length⁴				
< 30 minutes	1483 (64.5)	120 (8.1)	Ref.	
30 minutes or more	817 (35.5)	50 (6.1)	0.74 [0.51-1.05]	0.71 [0.50-1.01]
Type of instrument				
Vacuum	847 (35.9)	40 (4.7)	Ref.	
Forceps	1350 (57.3)	120 (8.9)	1.97 [1.35-2.92]	2.48 [1.69-3.64]
Spatulas	160 (6.8)	14 (8.7)	1.94 [0.96-3.74]	2.97 [1.53-5.70]
Indication of operative delivery⁵				
Fetal distress	854 (37.6)	63 (7.4)	Ref.	
Other	1420 (62.4)	107 (7.5)	1.02 [0.73-1.44]	-
Birthweight⁶				
< 3500g	1521 (64.6)	97 (6.4)	Ref.	
3500 to 4000g	651 (27.6)	52 (8)	1.27 [0.88-1.83]	-
4000g or more	184 (7.8)	25 (13.5)	2.31 [1.38-3.74]	2.19 [1.36-3.53]

OASIS: Obstetric Anal Sphincter Injury

¹Data missing in 15 cases = 0.6%

²Data missing in 58 cases = 2.5%

³Data missing in 350 cases = 14.9%

⁴Data missing in 57 cases = 2.4%

⁵Data missing in 83 cases = 3.5%

⁶Data missing in 1 case = 0.4%