

Tables

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Table 1. Characteristics and descriptive non-modifiable variables for cases and controls

Variables	Primiparous women		Multiparous women	
	Case n=275	Control n=275	Case n=146	Control n=146
Birthweight in gram, mean (SD)	3678.3 (512.2)	3467.7 (560.9)*	3974.5 (541.2)	3608.1 (672.6)*
Birthweight quartiles	275 (50)	275 (50)*	146 (50)	146 (50) [#]
<3300 gram	65 (11.8)	102 (18.5)	12 (4.1)	32 (11.0)
3300–3650 gram	63 (11.5)	78 (14.8)	31 (10.6)	38 (13.0)
3660–4040 gram	82 (14.9)	54 (9.8)	41 (14.0)	36 (12.3)
≥4040 gram	65 (11.8)	41 (7.5)	62 (21.2)	40 (13.7)
Length in cm, mean (SD) [□]	51.1 (2.1)	50.4 (2.5)*	51.9 (2.5)	50.8 (3.1)*
Head circumference in cm, mean (SD) [□]	35.2 (1.5)	34.9 (1.6)*	36.1 (1.3)	35.3 (1.6)*
Gestational age in days, mean (SD) [□]	282.0 (12.1)	278.7 (14.8) [#]	283.2 (9.6)	278.7 (16.4) [#]
Gestational age categories [□]	274 (50.6)	268 (49.4) [§]	145 (51)	139 (49) ^{ns}
Preterm (<37 weeks)	6 (1.1)	16 (1.1)	4 (1.4)	7 (2.4)
At term (37–42 weeks)	234 (43.2)	233 (43)	131 (44.9)	122 (41.8)
Post term (>42 weeks)	34 (6.3)	19 (3.5)	10 (3.4)	10 (3.4)
Maternal age in years, mean (SD)	26.7 (4.2)	25.7 (4.7) [#]	31.0 (4.6)	29.6 (4.4) [#]
Maternal age category	275 (50)	275 (50) [#]	146 (50)	146 (50) ^{ns}
<25 years	83 (15.1)	115 (20.9)	11 (3.77)	18 (6.16)
25–29 years	122 (22.2)	107 (19.5)	46 (15.8)	57 (19.5)
>30 years	70 (12.7)	53 (9.6)	89 (30.5)	71 (24.3)
Fetal presentation [□]	275 (50%)	275 (50%) ^{ns}	146 (50.2)	145 (49.8) ^{ns}
Occiput anterior	257 (46.7)	257 (46.7)	134 (46.1)	138 (47.4)
Deep transverse	0	1 (0.2)	0	1 (0.3)
Occiput posterior	14 (2.6)	7 (1.3)	9 (3.1)	4 (1.4)
Breech	4 (0.7)	10 (1.8)	3 (1.0)	2 (0.7)

1 st stage of labour in min, mean (SD) [□]	368.5 (195.8)	314.8 (186.3)*	268.4 (163.1)	197.3 (154.9)*
2 nd stage of labour in min, mean (SD)	46.6 (27.5)	41.4 (25.1) [§]	29.3 (22.3)	19.2 (17.3)*
Apgar score <7 at 1 min	15(5.5)	18 (6.6) ^{ns}	8 (5.5)	8 (5.5) ^{ns}
Apgar score <7 at 5 min	4 (1.5)	4 (1.5) ^{ns}	3 (2.1)	4 (2.7) ^{ns}

Data are presented as n (%) unless indicated otherwise. *p<0.001, #p<0.01, §p<0.05, ns = not significant. [□]Missing data: Length=15; Head circumference=10; Gestational age=16; Fetal presentation=1; Duration of first stage of labour=1.

Table 2. Characteristics and descriptive modifiable variables for cases and controls

Variables	Primiparous women		Multiparous women	
	Case n=275	Control n=275	Case n=146	Control n=146
Induction of labour	26 (9.5)	14 (5.1)*	13 (8.9)	10 (6.9) ^{ns}
Amniotomy	63 (22.9)	18 (6.6)*	33 (22.6)	11 (7.5)*
Augmentation with oxytocin	165 (60)	119 (43.3)*	71 (46.7)	36 (23.7)*
Episiotomy [□]	190 (69.1)	171 (62.2) ^{ns}	66 (45.2)	34 (23.3)*
Maternal birth position [□]	275 (50%)	264 (46.2%) [§]	146 (51.2)	139 (48.8) [§]
Supine/sitting	221 (40.2)	203 (36.9)	111 (39.0)	97 (34.0)
Side bearing	19 (3.5)	29 (5.3)	12 (4.2)	20 (7.0)
Standing	2 (0.4)	2 (0.4)	6 (2.1)	4 (1.4)
Kneeling	15 (2.7)	14 (2.6)	5 (1.8)	11 (3.9)
Stool	18 (3.3)	16 (2.9)	12 (4.2)	7 (2.5)
Fundus pressure	38 (13.8)	35 (12.7) ^{ns}	14 (9.6)	5 (3.4) [§]
Instrumental delivery				
Vacuum extraction	52 (18.9)	22 (8.0)*	17 (11.6)	3 (2.1) [#]
Forceps	41 (14.9)	18 (6.6) [#]	8 (5.5)	1 (0.7) [§]

Data are presented as n (%) unless indicated otherwise. *p<0.001, #p<0.01, §p<0.05, ns = not significant. [□]Missing data: Episiotomy=2; Maternal birth position=18.

Table 3. Multivariate conditional logistic regression analysis for obstetric anal sphincter injury among primiparous women

Variable	n	Crude		Adjusted	
Non-modifiable variables					
Birthweight quartiles	550				
<3300 gram	167	Referenc e		Referenc e	
3300–3650 gram	141	1.22	0.77–1.96	0.90	0.52–1.55
3660–4040 gram	136	2.36	1.47–3.81	2.27	1.31–3.93
≥4040 gram	106	2.42	1.45–4.01	2.13	1.18–3.84
Maternal age category	550				
<25 years	198	Referenc e		Referenc e	
25–30 years	229	1.57	1.07–2.29	1.68	1.08–2.62
>30 years	123	1.87	1.17–2.99	2.04	1.17–3.57
Modifiable variables					
Amniotomy	81	4.00	2.27–7.04	4.84	2.60–9.02
Augmentation with oxytocin	284	1.98	1.39–2.81	1.63	1.08–2.46
Instrumental delivery					
Vacuum extraction	74	2.76	1.59–4.81	1.91	1.03–3.57
Forceps	59	2.64	1.42–4.89	2.37	1.14–4.92

$R^2 = 0.22$

Data are presented as odds ratio with 95% confidence intervals.

Table 4. Multivariate conditional logistic regression analysis for obstetric anal sphincter injury among multiparous women

Variable	n	Crude		Adjusted	
Non-modifiable variables					
Birthweight quartiles	292				
<3300 gram	44	Reference		Reference	
3300–3650 gram	71	3.42	1.24–9.46	5.58	1.56–20.0
3660–4040 gram	80	4.91	1.70–14.2	6.90	1.86–25.7
≥4040 gram	109	7.13	2.57–19.8	11.4	3.10–42.2
Modifiable variables					
Amniotomy	44	3.44	1.64–7.23	3.76	1.45–9.76
Augmentation with oxytocin	107	3.19	1.82–5.59	3.70	1.79–6.67
Episiotomy*	101	2.88	1.66–5.00	2.63	1.36–5.14

$R^2 = 0.28$

Data are presented as odds ratio with 95% confidence intervals.

* n is reduced by 2 from 292 to 290 due to missing data on episiotomy