

Table. Unadjusted and adjusted odds ratios for risk factors for perineal tear including women being subject to episiotomy.

n=489	2 nd degree		OASI	
	OR (95% CI)	aOR (95% CI)	OR (95% CI)	aOR (95% CI)
Age				
≤25 years	Reference	Reference	Reference	Reference
>25 years	2.01 (1.21, 3.35)*	1.89 (1.07, 3.35)*	1.56 (0.57, 4.25)	1.67 (0.51, 5.49)*
BMI				
≤25 kg/m ²	Reference	Reference	Reference	Reference
25.1–30 kg/m ²	0.91 (0.58, 1.42)	1.00 (0.62, 1.62)	1.09 (0.47, 2.51)	0.97 (0.38, 2.45)
>30kg/m ²	1.22 (0.68, 2.19)	1.18 (0.62, 2.24)	0.55 (0.12, 2.50)	0.28 (0.05, 1.48)
Education				
9to <12years	0.24 (0.03, 2.20)	0.36 (0.04, 3.54)	3.22 (0.56, 18.58)	4.53 (0.61, 33.95)
12 years	0.82 (0.55, 1.21)	0.92 (0.6, 1.42)	0.63 (0.27, 1.47)	0.61 (0.23, 1.6)
University	Reference	Reference	Reference	Reference
Heredity^a				
No	Reference	NE	Reference	NE
Yes	1.33 (0.76, 2.32)	NE	1.52 (0.53, 4.35)	NE
SUI in late pregnancy				
No	Reference	NE	Reference	NE
Yes	0.66 (0.41, 1.05)	NE	1.65 (0.74, 3.66)	NE
GA at birth				
Preterm/term	Reference	Reference	Reference	Reference
Postterm	2.11 (1.09, 4.06)*	1.8 (0.81, 4.04)	2.01 (0.63, 6.48)	1.22 (0.28, 5.26)
Delivery start				
Spontaneous	Reference	Reference	Reference	Reference
Induction	1.38 (0.86, 2.21)	0.96 (0.54, 1.74)	1.6 (0.67, 3.81)	1.33 (0.45, 3.91)
Epidural analgesia				
No	Reference	Reference	Reference	Reference
Yes	1.76 (1.21, 2.55)*	0.8 (0.53, 1.2)	2.06 (0.98, 4.34)*	0.84 (0.33, 2.11)
Oxytocin stimulation				
No	Reference	Reference	Reference	Reference
Yes	1.76 (1.21, 2.55)*	1.22 (0.78, 1.92)	2.06 (0.98, 4.34)*	0.84 (0.33, 2.11)
Duration of active 2nd stage				
≤15 min	0.74 (0.45, 1.23)	0.77 (0.45, 1.31)	1.2 (0.49, 2.92)	1.52 (0.57, 4.03)
16–60 min	Reference	Reference	Reference	Reference
>60 min	1.23 (0.80, 1.92)	1.08 (0.67, 1.72)	0.8 (0.30, 2.11)	0.55 (0.19, 1.57)
Maternal position at birth				
Flexible sacrum positions	Reference	Reference	Reference	Reference
Reduced sacrum flexibility	0.94 (0.59, 1.49)	0.60 (0.36, 1.00)	1.07 (0.42, 2.75)	0.67 (0.23, 1.98)
Mode of delivery				
Spontaneous	Reference	Reference	Reference	Reference
Vacuum				

extraction	3.37 (1.92, 5.93)*	3.40 (1.83, 6.31)	4.92 (2.04, 11.84)*	4.97 (1.79, 13.83)*
Fetal scalp electrode				
No	Reference	Reference	Reference	Reference
Yes	1.44 (0.99, 2.08)	1.26 (0.82, 1.92)	2.76 (1.23, 6.19)*	2.41 (0.98, 5.94)
Fetal presentation				
Occiput anterior	Reference	Reference	Reference	Reference
Occiput posterior	1.37 (0.50, 3.74)	1.45 (0.5, 4.19)	3.24 (0.80, 13.22)	4.05 (0.83, 19.7)
Hand or arm presenting fetal part				
No	Reference	NE	Reference	NE
Yes	0.99 (0.55, 1.76)	NE	0.77 (0.22, 2.68)	NE
Fetal weight				
≤4000 g	Reference	Reference	Reference	Reference
>4000 g	2.56 (1.44, 4.57)*	2.31 (1.25, 4.29)*	5.66 (2.39, 13.40)*	6.00 (2.32, 15.50)*
Fetal head circumference				
≤35 cm	Reference	NE	Reference	NE
>35 cm	1.91 (1.31, 2.77)*	NE	3.58 (1.55, 8.27)*	NE

Unadjusted and adjusted odds ratios for risk factors for perineal tear using multinomial logistic regression. The group of women with second-degree perineal tear and OASI were compared with women with no or first-degree perineal tear. Women having an episiotomy were included in this analysis. ^aHeredity of pelvic floor dysfunction and/or connective tissue deficiency; *Significant at level $p < 0.05$. aOR, adjusted odds ratio; BMI, body mass index; CI, confidence interval; GA, gestational age; NE, not estimated; OASI, obstetric anal sphincter injury; OR, odds ratio; SUI, stress urinary incontinence.