## Abstract

# Factors Affecting Perineal Tear Following Spontaneous Vaginal Delivery in Yogyakarta-Indonesia

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**Objective:** The female perineum is the diamond-shaped inferior outlet of the pelvis. This structure is at risk of trauma during labour because of spontaneous perineal tears of varying degrees or iatrogenic episiotomies. These injuries can result in disabling immediate (such as bleeding, vulvar or vaginal hematoma, fistula, and infection) and long-term complications in the woman. Many factors can increase occurrence of the perineal tears following spontaneous vaginal delivery. The aim of this study were to know the frequency and distribution of perineal tears on spontaneous delivery and to know the factors that affect it.

**Method:** This study was observational analytics with cross sectional design. The research samples were 123 spontaneous vaginal delivery.

**Result:** There are 123 spontaneous deliveries from September 2016 to August 2017 take place at primary health care and midwife's clinic. Perineal tear occurs in 105 (85.36%) cases and 47 (44.76%) occur in primiparous. The modus of maternal aged at 20-35 years old (86 cases, 81.90%), 6 (5.71%) cases at <20 years old and 13 (12.38%) cases at >35 years old; RR 0.67 (p=0.434). There are 9 (8.57%) cases with birth spacing under 2 years and 96 (91.43%) cases with birth spacing above 2 years, with RR 0.36 (p=0.682). Between the cases, 59 (56.19%) babies were born with 2.500-4.000 grams in weight. Based on the statistical test, there were no significant relationship between perineal rupture and parity (p=0.893), while there was a significant relationship on baby's birth weight with the occurrence of perineal tear (p=0.002).

**Conclusion:** In conclusion, there was no influence between maternal age, parity and birth spacing on perineal tear. In this study, the factor that influences perineal tear was the baby's birth weight.