

Comparison between dinoprostone (PGE2) vaginal gel and PGE2 vaginal tablet for the induction of labour, in term primigravida pregnant women at Women's Hospital-Qatar, a retrospective study

Abdallah Kamal, Mouza Al-Hail, Muna Al-Saadi, Mahmoud Gassim and Ahmad Morsi

Women's Hospital, Hamad Medical Corporation, Qatar

Objective: To compare the effectiveness of PGE2 vaginal gel vs tablet for the induction of labour in primigravida women at term.

Design: A retrospective study conducted on patients who received PGE2 between 1 May and 31 October 2015.

Setting: The induction unit/Women Hospital-Qatar.

Main Outcome Measures: To assess the rate of successful vaginal delivery achieved following induction of labour in primigravida induced with PGE2 vaginal tablet compared to gel. In addition to identify the proportion of women delivered vaginally within 24 hours of receiving PGE2 tablet compared to gel.

Results: 63 women received PGE2 gel vs 67 women

received tablet. There was insignificant difference between both groups in the percentage of vaginal delivery (70.1% in gel vs 57.1% in tablet, $p = 0.123$), and insignificant difference in vaginal deliveries within 24 hours (45.7% in gel vs 54.3% in tablet, $p = 0.55$). However, a significant difference found when comparing mean time between the first induction dose and vaginal delivery specifically in patients delivered vaginally within 24 hours (771.76 min \pm 341.2 in gel vs 989.52 min \pm 275.7 in tablet group, $p = 0.02$). We also found that all patients achieved cesarean section delivery in both groups required epidural medicine for pain relief ($p < 0.001$).

Conclusions: Overall, there were no significant differences in the rate of successful vaginal delivery as well as vaginal delivery within 24 hours between PGE2 vaginal gel and tablet. However, in patients who delivered vaginally within 24 hours, patients receiving vaginal gel showed faster induction to vaginal delivery when compared to tablet.

Biography

Abdallah Kamal, has completed MSc degree in clinical pharmacy from Queens University Belfast/UK in November 2016, working currently as a clinical pharmacist at Women's Hospital/Hamad Medical Corporation/Doha/Qatar

amahmoud11@hamad.qa

 Notes: