Perbandingan Induksi Misoprostol Dengan Induksi Oksitosin Terhadap Lama Persalinan Pada Kehamilan Postterm di RSU PKU Muhammadiyah Delanggu Klaten.

Comparison of Induction by Misoprostol and Oxytocin on Labor Time in Postterm Pregnancy at RSU PKU Muhammadiyah Delanggu Klaten

Phitra Sekar Dianggra
Fakultas Kedokteran, Universitas Sebelas Maret

ABSTRACT

Background. The incidence of postterm pregnancy accounts 10% of all pregnancies, and causes perinatal mortality 3 to 5 times as many as full-term pregnancy, depending on placenta function. Labor induction can lessen perinatal mortality if it is carried out before the emergence of insufficiency signs. Oxytocin has often been used for labor induction, but recently misoprostol has been increasingly used. This study aimed to compare the effect of misoprostol induction and oxytocin induction on labor time in postterm pregnancy.

Methods. This study was a double-blinded randomized controlled trial (RCT). The target population was mothers with postterm pregnancy who underwent induction. The source population was mothers with postterm pregnancy who undertook induction and gave birth at RSU PKU Muhammadiyah Delanggu, Klaten, Central Java. Eighteen postterm mothers underwent oxytocin induction and 18 postterm mothers underwent misoprostol induction. Confounding factors that were controlled for included maternal age, parity, gestational age, birth weight, Apgar score, and Bishop score. The data was analyzed by independent t test, by use of SPSS version 16.

Results. This study showed that misoprostol induction shortened on average 3.5 hours less than oxytocin, and this difference was statistically significant (p<0.001). This result was consistent with another related finding that showed higher Bishop score in misoprostol induction than oxytocin induction.

Conclusion. It is concluded that labor time induced by misoprostol is shorter than oxytocin in postterm pregnancy. Misoprostol can be used to replace oxytocin as a faster inducer for postterm pregnancy.

Keywords: postterm pregnancy, oxytocin induction, misoprostol induction, labor time