

Predicting caesarean section risk following induction of labour:

a pooled analysis of PROBAAT trials

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INTRODUCTION

Many studies assess the ideal method for induction of labour (IOL) but few assess the ideal candidate for induction of labour. We aimed to identify maternal and fetal predictors of caesarean section (CS) following IOL to help stratify risk for mothers undergoing IOL

METHODS

The PROBAAT studies are large randomised control trials that assessed efficacy and safety various ripening agents (Foley vs prostaglandin gel¹/ vaginal misoprostol²/ prostaglandin inserts³/ oral misoprostol⁴) in IOL. We pooled data from these trials and assessed that population for important risk factors for interested outcomes. Restricted cubic spline was used to explore non-linear relationships. Optimal cut-offs were then determined with maximized Area Under the Curve. Data were analysed using appropriate univariate analyses and adjusted odds ratios computer using multivariate logistical regression.

Primary outcomes: CS due to **failure to progress (FTP)**

or suspected fetal compromise (SFC)

Secondary outcome: Vaginal delivery

Induction of labour -It's not all about method & Bishop score.

Maternal age, BMI, parity and birth weight percentile are strong predictors for caesarean section following induction of labour.

RESULTS **2990 women** were included in this pooled secondary analysis. 582 (19.5%) had a caesarean delivery (313 for FTP and 227 for SFC). **Positive predictors Positive predictors** for CS due to FTP for CS due to SFC - Birth weight <10th - Birthweight >80th percentile percentile **Common predictors Nulliparity** Higher maternal age Higher BMI

CONCLUSIONS

Maternal and fetal characteristics should be considered in combination with Bishop score to stratify risk of unsuccessful vaginal delivery for women who are

undergoing IOL







