ending during Caesareau section in patients whose uterine isthmus

216.10

elabour fetal cardiac output and risk of intrapartum fetal

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bjectives: There is currently no good prelabour test to predict trapartum fetal compromise (hypoxia). Given that redistribution cardiac output is responsible for the "brain sparing" effect id alterations in fetal heart rate patterns are used to assess tal well-being, we investigated the relationship between prelabour rdiac output in fetuses that subsequently developed intrapartum impromise.

ethods: This prospective observational study was undertaken at a Moter Mothers' Hospital in Brisbane. Two hundred women the appropriately grown singleton pregnancies were recruited to study. Exclusion criteria were imultiple pregnancy, pre-eclampsia fetal growth restriction. Each participant underwent fortnightly trasounds from 36 weeks until delivery. The aim was to measure reliac output within two weeks of birth. Pregnancy outcomes luding mode of, and indication for delivery, hirthweight, indence of fetal heart rate abnormalities in labour and neonard comes were recorded.

sults: Left cardiac output (507 ml/min vs 573 ml/min, p < 0.01) in significantly lower in fetuses that developed intrapartum fetal impromise requiring emergency delivery of any kind compared to use that did not.

melusions: Prelabour feral cardiac output is lower in babies that velop intrapartium fetal compromise. This finding may help risk unify women prior to delivery.

## 16.11 WITHDRAWN

216.12

predictive value of RI and PI ratio of fetal descending ma/MCA for fetal outcome in complicated and complicated pregnancies from 36 weeks

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crives: Doppler ultrasound is used in high risk pregnancies tolarly in FGR to determine the fetal prognosis and outcome, the 34 weeks of gestation the cerebroplacental ratio of MCA bilical artery is not significantly related with the prognosis and one of the pregnancy. The PI and RI ratio of descending aorta MCA may help us since the vascular resistance of descending does not change with increasing gestational age. The aim of study is to diagnose placental dysfunction and fetal hypoxia in cated pregnancies and to determine the predictive value of spler ultrasound for fetal outcomes in low risk pregnancies.

eds: In a cohort study pregnant women with gestational age of more underwent Doppler study of umbilical arrery, MCA and frig aorta every 2 weeks in 3 hospitals of Tehran University of all Sciences. Multiple pregnancies and pregnancies with major nomalies were excluded. Doppler study results, pregnancy cations (pre-eclampsia, placental abruption...) and fetal were recorded.

Results: Two hundred and twelve pregnant women with a mean age of 28 years old and mean gestational age of 37w6d were studied, 142 had uncomplicated and 69 had complicated pregnancies. Mean birth weight was 3232 g in the uncomplicated and 2773 g in complicated pregnancies, 25 neonates were admitted to nICU, 21 in complicated and 4 in uncomplicated group. And MCA PI and RI ratio were eignificantly more in complicated group. PI [1.09+/- 0.45 to 0.9+/- 0.39] and RI [0.9+/- 0.91 to 0.91+/- 0.17]) And MCA PI ratio was the best predictor of neonatal acidosis. [OR: 4.7 CI 95% 3.6-6.3] Area under curve to predict neonatal acidosis was 0.8. A cut off value of 1.1 for An/MCA PI ratio best predicted neonatal acidosis with a sensitivity of 70% and specificity of 90%. The cut off was 1.01 for An/MCA RI ratio with a sensitivity of 67% and specificity of 87%.

Conclusions: Ao/MCA RI catio help us to predict fetal acidosis in complicated pregnancies.

## EP16.13

Prediction of delivery mode in women with low-lying placenta

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Objectives: To evaluate the predictors of delivery mode in women with low-lying placenta.

Methods: A retrospective chart review was performed. Women who with low-lying placenta want a vaginal delivery were included in this study. A diagnosis of low-lying placenta is usually made when the length from the placental lowest edge to the internal os is less than 3 cm and the edge did not cover the internal os by vaginal ultrasonography. Women with uterine scar, abnormal presentation, multifetal pregnancy, and who wanted a, elective Caesarean section were excluded, Risk assessment included Bishop score and cervical dilaterion score at trial of labour (TOL), age, parity, maternal body weight and height, gestational age at TOL, placental location, duration of first stage, and distance from the placental lowest edge to the internal us.

Results: A total of 63 women met inclusion criteria. Of those women, 44 (69.8%) had a vaginal delivery and 19 (30.2%) underwent Caesarean delivery. Bishop score and cervical dilatation score at TOL had a high predictive value for vaginal delivery. Women with vaginal delivery had higher Bishop score at TOL than women in the Caesarean delivery group (6.1  $\pm$  2.3 vs. 4.6  $\pm$  1.8, p = 0.020). And women with vaginal delivery had more cervical dilatation score 2 or more at TOL than women in the Caesarean delivery group (22.7 % vs. 0 %, p = 0.049). The receiver operator characteristics (ROC) curves were analysed for the Bishop score, a value of 6 was the best cut-off value to determine a vaginal delivery (AUC 0.723, p < 0.001).

Conclusions: Prediction of vaginal delivery in women with low-lying placence is dependent on cervical examination at TOL. The Bishop score and cervical dilatation score can be utilised when counselling women considering a vaginal delivery.

## EP16.14

Features of antenatal ultrasonographic monitoring in diabetes mellitus pregnant women in the diagnosis of diabetic fetopathy and determining the degree of perinatal risk

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