AIMS AND OBJECTIVES

To compare the USG assesment of placental volume and placental bed vascularity between normal and IUGR pregnancies

ABSTRACT

BACK GROUND AND OBJECTIVES

Antenatal fetal surveillance identifies fetuses at risk of IUGR to closely monitor them to prevent perinatal morbidity and mortality & its long term consequences. This study aimed to compare placental volume, placental bed vascularity by U.S.G. So that we can use this method to predict IUGR early.

METHODOLOGY

This prospective analytical study was done at the department of obstetrics and gynaecology, Govt RSRM Lying in Hospital Chennai from January 2018 to September 2018 a total of 100 uncomplicated and 100 IUGR pregnant mothers were included. All patients subjected to USG examination. Placental volume placental bed vascularity measured. They were compared & followed up till delivery.

RESULTS:

The Average placental Volume in normal pregnancy is 582.82cm3 whereas

in IUGR it was 400.91cm3. This showed statistically significant difference. The

average placental volume after delivery was 403.65 cm3 and 592.20cm3 in IUGR

and normal pregnancies respectively. This did not shows much difference that of

USG measurement before delivery. The placental bed vascularity index in normal

pregnancy is 30-32 where in IUGR it is 18-20. This study shows positive

correlation between the severity of IUGR and placental volume placental bed

vascularity index. Hence this non invasive method can be used in predicting IUGR.

KEY WORDS:

IUGR: Ultrasound, placental volume placental bed vascularity index.

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