

## Objective

TO DETERMINE THE PATTERN OF GROWTH OF FETAL LIVER VOLUME IN MIDTRIMESTER OF PREGNANCY

## Material and Methods

583 PREGNANT WOMEN WITH UNCOMPLICATED PREGNANCIES BETWEEN 18<sup>TH</sup> TO 31<sup>ST</sup> WEEK OF GESTATION HAD VOLUME SCANS PERFORMED DURING ROUTINE OBSTETRICAL ULTRASOUND EXAMINATIONS. HADLOCK FORMULA WAS USED TO CALCULATE FETAL WEIGHT USING BPD, HC, AC, FL,

FETAL LIVER VOLUME WAS CALCULATED USING VOLUME SCANS AND 4D-VIEW/VOCAL SOFTWARE. FETAL LIVER VOLUME WAS CORRELATED WITH FETAL GROWTH



Fig.1. Ultrasound measurements of the fetal liver volume using 4D/Vocal program

## Results

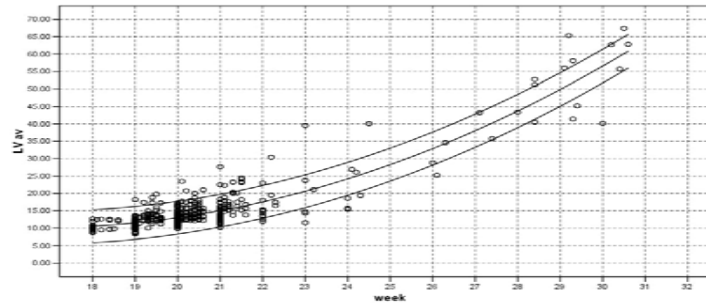


Fig.2. ALMOST LINEAR FETAL LIVER VOLUME GROWTH AT 18-22 WEEKS OF GESTATION ACCELERATED AT 28-31 WEEKS.

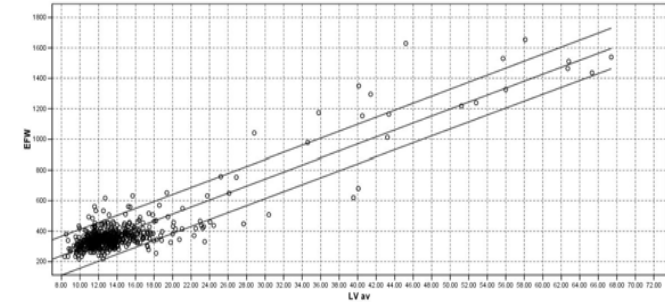


Fig.3. CORRELATION COEFFICIENT BETWEEN ESTIMATED FETAL WEIGHT(EFW) AND FETAL LIVER VOLUME(LV) SHOWED MORE LINEAR GROWTH WITH VALUE OF 0.5  $P < 0.0001$ .

## Conclusion

FETAL LIVER VOLUME MEASURED BY 3D ULTRASOUND/VOCAL INCREASES WITH GESTATIONAL AGE.

PATTERNS OF LIVER VOLUME INCREASE FOLLOWS PATTERN OF OVERALL FETAL GROWTH.