4789 : The Third Trimester Anomaly scan - a hunt for evolving structural fetal abnormalities.

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Introduction : The third trimester scan is not only crucial for detection of growth and Doppler abnormalities, but also for the detection of potentially evolving structural fetal abnormalities. Detection of abnormalities antenatally increases the preparedness of the clinician and the couple and to plan the deliver in appropriate centers to improve the long-term outcome for the baby, thereby reducing perinatal mortality and morbidity.

Inclusion criteria: Singletons with structural abnormalities

Exclusion criteria: Multiple pregnancies and abnormalities

Most common anomaly in each major system

detected for the first time in third trimester

previously diagnosed

Objectives:

• To assess the extent of anomalies detected from 28 to 40 weeks and make a protocol of "mandatory planes" to be taken at the fetal well being scan.

Methodology:

- Retrospective study from a single tertiary fetal care centre from March 2005 to February 2023.
- Singleton pregnancies with structural abnormalities detected for the first time from 28 to 40 weeks were included.
- Abnormalities were categorized according to what gestational age they were first detected during the pregnancy.
- The GA groups were classified as 28 32 weeks, 33 36 weeks and beyond 37 weeks.



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Fig.1 - Recommended planes to be included in third trimester anomaly scan

Conclusions

37-40 weeks

13

Δ

16

11

2

26

25 (MC)

0

10

- 3% of "evolving anomalies" presented for the 1st time in GA > 28weeks.
- **3T** scan is crucial for detection of growth and Doppler abnormalities, and also for the detection of potentially evolving structural fetal abnormalities.
- 3T "fetal well being scan" must include appropriate planes for assessment of these anomalies.
- Detection of such abnormalities, its evaluation and subsequent management like selection of timing and place of delivery and postnatal investigations could potentially improve the postnatal outcome.

1,143/27,946 (67.28%) showed abnormalities for the first time. 289/1,143 potentially detectable cases were excluded. 854/1,143 (74.7%) – Evolving fetal abnormalities (854/27,946 - 3% of entire cohort).

Reference: Value of routine ultrasound examination at 35–37 weeks' gestation in diagnosis of fetal abnormalities <u>A Ficara</u>, <u>A. Syngelaki</u>, <u>A. Hammami</u>, <u>R. Akolekar, K. H. Nicolaides</u>.

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