

## CONVENTIONAL CTG vs. COMPUTERISED CTG at 28 WEEKS FOR THE PREDICTION OF SGA IN HIGH-RISK PREGNANCIES



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**OBJECTIVE:** To compare the performance of conventional vs computerized CTG at 27-28 weeks for the prediction of SGA among high-risk pregnancies.

## **METHODS:**

- Prospective observational study.
- <u>High-risk singleton pregnancies defined by RCOG</u> criteria at 2<sup>nd</sup> trimester US.
- <u>SGA</u> defined as BW <10<sup>th</sup> centile (local curves reference).
- Exclusion criteria: 27-28 w EFW <10<sup>th</sup> centile.
- 27<sup>+0</sup>-28<sup>+6</sup> w: computerized CTG (c-CTG).
- Compared two models by means of ROC curve and AUC
- <u>MODEL 1</u>: cCTG (Dawes-Redman algorithm): FHR, STV, number of accelerations/decelerations, high and low variability time, total recording time.
- <u>MODEL 2</u>: Conventional CTG: FHR, number of accelerations/decelerations.

## **RESULTS:**

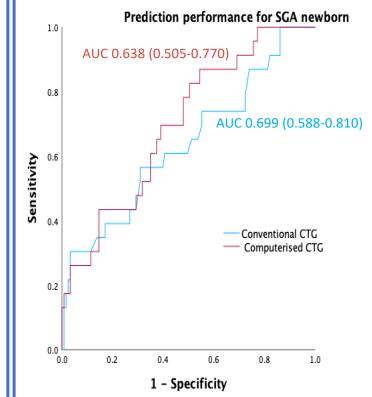
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146 high-risk pregnancies were included

- 15.7% (n=23) had a SGA newborn.
- 4.8% (n=7) developed preeclampsia.

	N=146
Mean Maternal Age (years)	35.2 (SD 5.2)
Mean GA at CTG (weeks)	27.8 (SD 0.5)
Mean Gestational Age at Delivery (weeks)	39.2 (SD 1.6)
Mean BW (g)	3204 (SD 45.6)
Median BW centile	46 (3)

SGA newborns showed higher basal FHR (bpm) than AGA (145.8 vs 142.8, p=0.04). No differences in STV or other parameters were found.



**CONCLUSIONS:** Conventional CTG and cCTG at 28 weeks show low performance for the prediction of SGA in high-risk pregnancies.