FETAL MONITORING

MONITORING BY AUSCULTATION (rarely used at HCMC):

Mortality and morbidity are the same in randomized trials of mothers monitored by auscultation and by electronic monitor.

<u>Technique</u>: 1:1 nurse/pt ratio required

Auscultate **during** the contraction **and** 30 seconds

after contraction ends

<u>First stage (active)</u>: every 30 minutes

Second stage: every 15 minutes

<u>High-risk patient</u>: First stage: every 15 minutes

Second stage: every 5 minutes or with each

contraction (most frequent one)

Non-reassuring findings:

Baseline: <100 BPM or >160 BPM

Rate 30 seconds after contraction: <100

For non-reassuring patterns, follow same protocols used with electronically monitored patients

<u>ELECTRONIC FETAL MONITORING</u>: (how to interpret)

- 1. Technical Aspects: internal or external monitors?
- 2. Baseline FHR and Trend: (must be observed \geq 10 min.)

What is the rate? (nl 120-160)

What is the long term and beat-to-beat variability?

3. <u>Uterine Contractions</u>:

(Rate, interval, duration, regularity, intensity, baseline tone)

4. Periodic Fetal Heart Rate Changes:

(Repetitious changes related to fetal activity/uterine contractions)

Accelerations?

Decelerations? What is the type?

5. Non-periodic Changes:

Non-repetitious, related to other factors, e.g. examination

6. Interpretation:

Reassuring or non-reassuring? What should we do next?

Recommendations based on Level A evidence:

- High false positive rate with EFM used to predict adverse outcomes
- Higher rate of instrumented delivers and c-sections
- Does not decrease incidence of cerebral palsy
- Amnioinfusion for persistent variable decelerations reduces need for emergent csection

Recommendations based on Level B evidence:

- Labor of high risk OB patients should be monitored continuously
- Reinterpretation of the FHR tracing especially after knowing the neonatal outcome is not reliable
- Use of fetal pulse oximetry in clinical practice cannot be supported at this time

ALSO Course Mnemonic

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Determine Risk (what are patient risk factors)
Contractions (how often and how strong if IUPC placed)
Baseline Rate (normal 110-160)
Variability (10 to 15 bpm)
Accelerations (increase 15 beats for 15 seconds)
Decelerations (variable, early, late)

Overall Assessment (reassuring, nonreassuring)

REFERENCES:

ALSO Course

ACOG Practice Bulletin December 2005