

# NCC Electronic Fetal Monitoring Certification

## Study Guide

### 1. Causes of uteroplacental perfusion decrease:: • HTN

- Pregnancy
- DM
- Hypotension
- Excessive uterine contractions (hypertonus)
- Decreased surface area, edema, degenerative calcifications, infarcts, infection

### 2. FHR reflects fetal oxygenation from which extrinsic factors:: • Maternal oxygenation

- Uterine blood flow
- Placental change
- Umbilical blood flow

### 3. FHR reflects oxygenation from which intrinsic factors:: • Fetal circulation

- Oxygenation of tissues
- FHR regulation

4. **Fetal shunts::** • Ductus venosus- liver

- PFO- Right to left atria
- Ductus arteriosus- pulmonary a. to aorta

5. **Oxygen depletion cascade::** • Aerobic metabolism

- Hypoxemia
- Tissue hypoxia
- Anaerobic metabolism
- Lactic acid build up
- Metabolic acidosis

6. **Sympathetic innervation::** • Releases Epi/norepi

- Increases FHR

learnexams

7. **Parasympathetic/Vagal innervation::** • Releases ach

- Decreases FHR and transmits variability

8. **Early decel::** • Fetal head compression

- ->vasovagal response

9. **Variable decel::** • Cord compression

- ->increase BP/HTN
- ->activation of baroreceptor
- ->decrease FHR, BP, and CO