Course Description
This course will review test content outline and the associated competencies to prepare for the 2012 NCC subspecialty examination in Electronic Fetal Monitoring. Content will include fetal heart monitoring (FHM) pattern recognition and interpretation using NICHD definitions; review of the physiology of maternal fetal oxygenation and other factors impacting on the neuromodulation of fetal heart rate, complications of labor and the potential effects on FHM data; review interventions and management targeted to the physiology of FHR patterns. Content will be applied in the context of case studies. Adjunct fetal assessment, legal aspects of FHM and equipment troubleshooting will be reviewed.

Program Learning Outcomes
This program prepares the learner to:
• Apply NICHD terminology to fetal heart rate pattern recognition, interpretation and assessment.
• Discuss factors affecting fetal oxygenation, including fetal heart rate regulation; maternal and fetal physiology; complications of pregnancy and labor, drug effects and dysrhythmias.
• Review appropriate nursing interventions and actions targeted to the physiology of the FHM patterns.
• Discuss adjunct fetal assessment, including fetal acid base interpretation and the biophysical profile.
• Incorporate knowledge of legal responsibilities and liabilities related to FHM data into a plan of care.

Agenda
Sign-in begins at 7:30 am. The day includes a one-hour lunch (on your own), as well as a morning and afternoon break of 15 minutes each. The order of lectures presented and break times may vary according to speaker preference.

8:00 am to 4:30 pm
0800 Welcome and Overview
0815 About the Test, Test-Taking Skills
Scheduling the Test, Computer Testing Overview | How Multiple Choice Questions are Constructed | Study Tips and Skills | Managing Test Anxiety
0830 Equipment Overview and Patient Education
Internal vs. External FHR and Uterine Contraction Monitoring | Equipment Failure and Troubleshooting | Continuous vs. Intermittent Monitoring | Positioning and Movement in Labor | Volume Control | Normal Patterns of FHR
0900 Physiology of Fetal Oxygenation: Extrinsic Factors
Maternal Cardiac Output | Maternal Medical History | Uterine Contraction Frequency, Duration and Intensity | Effects of Maternal Cardiac Output | Exchange Mechanisms | Alterations in Cord Blood Flow
0945 Break
1000 Physiology of Fetal Oxygenation: Intrinsic Factors
1100 Pattern Recognition, Interpretation and Intervention
Baseline Rate | Baseline Variability | Accelerations | Decelerations | NICHC Classification of FHR and Implications for Care
1200 Lunch
(continued)
(continued)

1300 **Dysrhythmias and Variant Patterns**  
SVT | Heart Block | Ectopic Beats

1330 **Complications of Pregnancy and Birth**  
Preterm Patterns | Hypertensive Disorders | Postdates Pregnancy | Diabetes | Infections | Multi-Fetal Pregnancy

1430 **Break**

1445 **Adjunct Fetal Assessment**  
Adjunct Methods of Fetal Assessment | Fetal Cord Blood Acid Base Results

1545 **Legal Aspects of Fetal Monitoring and Chain of Command**  
Elements of Nursing Documentation for EFM Data | Chain of Command and Nursing Failure to Rescue

1615 **Q & A Session**

1630 **Adjourn**

**Accreditation**

RN/LPN/LVN/Other: 7 Contact Hours

MED-ED, Inc. is accredited as a provider of continuing nursing education by the American Nurses Credentialing Center’s Commission on Accreditation (ANCC).

MED-ED, Inc. is an approved provider by the following State Boards of Nursing: **Florida/FBN 50-1286, Iowa/296, California #CEP10453.**

If your profession is not listed, we suggest contacting your board to determine your continuing education requirements and ask about reciprocal approval. Many boards will approve this seminar based on the accreditation of the boards listed here.

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