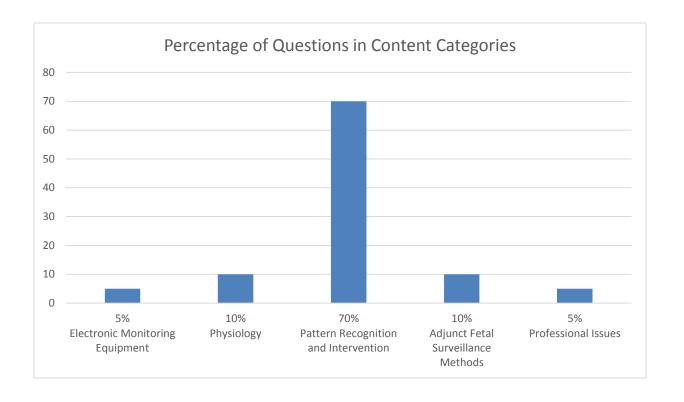
EXAMINATION CONTENT TEST CONTENT OUTLINE & ASSOCIATED COMPETENCIES





The chart shows the percentage distribution of questions on the Electronic Fetal Monitoring exam across the major content categories covered on the examination.

The major focus is on Pattern Recognition and Intervention. EFM Monitoring Equipment and Professional Issues have the least emphasis.

2017 Candidate Guide: Electronic Fetal Monitoring

EXAMINATION CONTENT TEST CONTENT OUTLINE & ASSOCIATED COMPETENCIES

ASSOCIATED COMPETENCIES

- Apply knowledge of maternal-fetal assessment methods when selecting electronic fetal monitoring or intermittent auscultation to evaluate fetal status.
- Interpret data from the electronic fetal monitor to differentiate between actual fetal data and equipment failure.
- Use knowledge of the advantages and disadvantages of electronic fetal monitoring to provide information to the pregnant woman and her support person(s).
- Apply knowledge of fetal heart rate regulation to the interpretation of electronic fetal monitoring data.
- Identify and interpret the significance of fetal heart rate patterns.
- Interpret data from electronic fetal monitoring to differentiate between normal and abnormal fetal heart rate patterns.
- Apply knowledge of common pregnancy complications to the development of a comprehensive plan of care based on electronic fetal monitoring data.
- Apply knowledge of uteroplacental and maternal-fetal physiology as they relate to fetal oxygenation.
- Identify indications for adjunct fetal assessment and incorporate findings into the plan of care.
- Incorporate knowledge of current practice and legal practices into nursing care.

2017 Candidate Guide: Electronic Fetal Monitoring

EXAMINATION CONTENT

TEST CONTENT OUTLINE & ASSOCIATED COMPETENCIES

EXAM OUTLINE

This is an outline of topics and areas which may be included in the Electronic Fetal Monitoring examination.

Percentages identified for the topic areas represent a range of the number of test questions assigned to each content area and therefore might total more or less than 100 percent. These ranges do not necessarily reflect the content of future exams.

10.00	Electronic Monitoring
	Equipment (5%)

10.01 Fetal heart rate monitoring

- a. Internal
- b. External
- 10.02 Uterine monitoring
 - a. External
 - b. IUPC
- 10.03 Equipment failure and troubleshooting
- 10.04 Artifact Detection
- 11.00 Physiology (10%)
- 11.01 Uteroplacental
 - a. Uteroplacental circulation
 - b. Fetal circulation
 - c. Fetal heart regulation
- 11.02 Uterine activity
 - a. Resting tone
 - b. Contractions
 - 1. Frequency
 - 2. Duration
 - 3. Intensity
- 11.03 Factors affecting fetal oxygenation
 - a. Uterine activity
 - b. Maternal factors
 - c. Anesthesia
 - d. Drugs (Therapeutic & Recreational)
 - e. Placental factors
 - f. Umbilical blood flow
 - g. Acid base and cord blood gases
- 11.04 Effects of maternal drugs on the fetus
- 12.00 Pattern Recognition and Intervention (70%)
- 12.01 Baseline heart rate
 - a. Bradycardia
 - b. Tachycardia
 - c. Variability
 - d. Sinusoidal
- 12.02 Fetal heart rate patterns
 - a. Accelerations
 - b. Decelerations
 - 1. Early
 - 2. Variable
 - 3. Late
 - 4. Prolonged

- 12.03 Response to tachysystole
- 12.04 Dysrhythmias and other variant patterns
 - a. Supraventricular tachycardia
 - b. Congenital heart block
 - c. Ectopic beats
- 12.05 Common Complications
 - a. Preterm Labor
 - b. Hypertension
 - Gestational hypertension
 - 2. Preeclampsiaeclampsia
 - 3. HELLP syndrome
 - 4. Chronic (essential)
 - c. Postdates Pregnancy
 - d. Diabetes (Gestational, Type 1, Type 2)
 - e. Placental disorders (previa, abruption)
 - f. Uterine rupture/scar dehiscence
 - g. Infections
 - h. Multiple gestations
 - i. Maternal Obesity
- 13.00 Adjunct Fetal Surveillance Methods 10%)
- 13.01 Auscultation
- 13.02 Fetal movement counting
- 13.03 Nonstress testing
- 13.04 Fetal acid base interpretation
- 13.05 Biophysical profile
- 13.06 Fetal Acoustic Stimulation
- 14.00 Professional Issues (5%)

including: Evidence Based

Practice, Legal/Ethical/

Communication Issues, Research,

Patient Safety

2017 Candidate Guide: Electronic Fetal Monitoring

EXAMINATION CONTENT

STUDY RESOURCES

THE NICHD LANGUAGE AND DEFINITIONS ARE UTILIZED IN THE EXAM AS NOTED IN THE 2008, 2010 UPDATES AND 2015 REAFFIRMATION. ALL EFM TRACINGS USED IN THE EXAM ARE SET AT A SPEED OF 3CM/MIN FOR

PURPOSES OF

INTERPRETATION

STUDY RESOURCES

The following references are used by content team members and outside item writers to generate test questions for the EFM examination. This list is not intended as an all-inclusive list of references, nor does it imply that items on the current examinations were necessarily referenced from any of these publications.

- ACOG, Management of intrapartum fetal heart rate tracings, Practice Bulletin, No. 116, American College of Obstetricians and Gynecologists, Obstetrics & Gynecology 2010(Reaffirmed 2015); 116:1232–40.
- Cabaniss, et al. Fetal Monitoring Interpretation, LWW, 2010.
- Creasy, et al., Maternal Fetal Medicine Principles and Practice,
 Saunders-Elsevier, Philadelphia, 2014.
- Cunningham, et al., Williams' Obstetrics, McGraw Hill, New York, 2014.
- Freeman, et. al., Fetal Heart Rate Monitoring, LWW, 2012.
- Gabbe, et al., Obstetrics Normal and Problem Pregnancies, 7th Ed., Saunders, 2016.
- Lyndon, et al Fetal Heart Monitoring Principles and Practices, AWHONN, Kendall Hunt, 2015.
- Management of intrapartum fetal heart rate tracings. Practice Bulletin, No. 116. American College of Obstetricians and Gynecologists. Obstetrics & Gynecology 2010 (Reaffirmed 2015);116:1232–40.
- Miller, et al., Mosby's Pocket Guide to Fetal Monitoring: A Multidisciplinary Approach, Mosby Elsevier, 2016.
- NCC Monograph: NICHD Definitions and Classifications:
 Application to Electronic Fetal Monitoring Interpretation, Simpson, Kathleen, NCC, 2010.
- NCC Monograph: Fetal Assessment and Safe Labor Management, Simpson, Kathleen, NCC, 2016.
- Simpson, et al., Perinatal Nursing, LWW, Philadelphia, 2014.