



Basic Principles and Evaluation of Neonatal X-Rays

Course Description

Presented in lecture format, this course is designed to provide the participant with a basic understanding of the process utilized to interpret the neonatal X-ray. The major components include: an anatomical review of thoracic/abdominal structures seen on a neonatal film, terminology utilized in the X-ray evaluation process, identifying umbilical lines and endotracheal tube placement and comparing radiographic findings associated with specific neonatal pulmonary or abdominal disease processes. Through case scenarios, participants will have the opportunity to relate maternal and neonatal history and clinical presentation with various films.

Program Learning Outcomes

This program prepares the learner to:

- Ensure high-quality, safely-performed neonatal X-rays.
- Develop a systematic approach to evaluating commonly utilized films in the neonatal intensive care (NICU).
- Correlate specific clinical presentations with findings demonstrated on the neonatal chest and/or abdominal film.

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 4:00 pm

- 0800 **Introduction**
X-Ray Discovery | Units of Measurement | X-Ray Safety
- 0900 **Principles of Imaging**
Determining Radiographic Quality | Anatomical Terminology | Pulmonary and Cardiac Landmarks
- 1000 **Break**
- 1015 **Developing a Systematic Approach to Evaluation**
- 1100 **Lunch**
- 1200 **Line and Tube Placement**
Umbilical Arterial/Venous (Practice Evaluation) | Endotracheal Tubes (Practice Evaluation) | PICC Lines
- 1300 **Recognizing Neonatal Disease on Film**
Transient Tachypnea of Newborn | Respiratory Distress Syndrome
- 1330 **Break**
- 1345 **Recognizing Neonatal Disease on Film (cont.)**
Pneumonia | Meconium Aspiration Syndrome
- 1415 **Abdominal Films**
Anatomy on Film | Obstructions | Necrotizing Enterocolitis
- 1515 **Practice Session**
Review | Q & A Session | Post-Test | Evaluations
- 1600 **Adjourn**

Accreditation

RN/LPN/LVN/Other: 6.5 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 approved 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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