Demystifying X-Ray and Lab Findings: Are You Understanding the Clues?

MED·ED
Since 1983

Course Description

No matter what your area of expertise, no field in medicine spends enough time training you for radiographic or lab interpretation. Join us as we demystify the interpretation of both X-rays and lab findings to help you gain the clues you need to provide better care to your patients. What we understand, we can then use to set up the plan of the day, to progress the patient towards good outcomes and to predict the next step in the treatment goal. Data collection and understanding are important steps in the development of critical thinking. Join us and hone those critical thinking skills in this one-day program.

Program Learning Outcomes

This program prepares the learner to:
- Understand the intricacies of the differential on CBC.
- Use a three-part tool to make interpretation of ABGs fast and easy.
- Understand the five areas of quick assessment of the chest X-ray and what abnormal findings are indicating.
- Predict causes of acute renal failure by looking at lab findings and learn causes of each.
- Calculate the corrected calcium to drive need for intervention.
- Learn the new lab helping identify those patients at a high risk for progressing to severe sepsis.

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   **Why are Labs So Important?**
Findings and the Patient's Plan | Cost of Healthcare and Testing

0815   **CBC**
Changes to WBC Counts | RBCs — Anemias and Polycythemia | H & H | Platelets | Critical Values for the CBC | The Differential — Now We're Looking for Clues! | Shift to the Left, Shift to the Right | Example of Shift to the Left

0915   **Coag Labs**
The Coag Panel: APTT, PT, INR | The Clotting Cascade | Meds and the Coag Panel

0945   **Break**

1000   **DIC Panels, Including D-Dimer**
Understanding DIC | Reading the DIC Panel | Treating DIC | Case Study

1030   **Cardiac Labs and ECG Changes**
The Coronary Artery Tree | STEMI vs. NSTEMI | ECG Clues to Cardiac Muscles Ischemia and Infarct | Telling ACS from an Acute MI | Cardiac Panels | Troponin "Leaks"—Identifying Non-Cardiac Causes | Understanding the BNP | Case Study

1130   **Lunch**

1230   **ABGs**
Understanding Compensatory Mechanisms | Normal Ranges | Abnormal ABG Findings and Common Causes | Three-Step Tool for Making Interpretation Fast and Easy | Practice Reading ABGs

(continued)

1315 **Labs of Sepsis**
SIRS, Sepsis, Severe Sepsis, Septic Shock and MODS | Identifying High Risk Populations | Lactate | Procalcitonin | Base Excess | WBCs and the "Shift" | Cultures and Sensitivities

1415 **Break**

1430 **X-Ray Interpretation**
Points of Normal Chest X-Ray | Clues on the Chest X-Ray for Pulmonary Reasons | Clues on the Chest X-Ray for Cardiac Reasons | Fractures and Healing | Other Points of Interest

1530 **The CMP = BMP + LFTs**
Understanding the Liver | Liver Function Tests | What are Abnormal Findings Telling Us? | Breaking the Total Bilirubin Down | Common Liver Failure Complications

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**).

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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.