# Everything Pulmonary

## Course Description

The past several years have seen significant advances in the treatment of patients with acute and chronic pulmonary disorders. This comprehensive and interactive two-day seminar begins with an in-depth discussion of the normal and pathological physiology of the lungs. Attendees will be provided with a logical approach to the recognition and management of pulmonary diseases based on solid evidence-based practice guidelines. Attendees' learning experience is enhanced throughout the course with presentations of challenging case studies. This teaching strategy provides opportunities for problem solving and applying newly learned concepts.

## Key Learning Outcome

- After completing the program, 80% of participants will report an increase in knowledge that will positively impact their practice.

## Program Objectives

*This program prepares the learner to:*

- Develop an in-depth understanding of the physiology and physics of oxygenation, ventilation and perfusion.
- Learn the ins and outs of integrated pulmonary assessment, including physical exam, imagery and labs.
- Gain confidence in the multimodal management of complex respiratory patients, including airway management, pharmacology and mechanical ventilation.

## Agenda

*Sign-in begins at 7:30 am.* Each 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.

### Day 1, 8:00 am to 4:30 pm

**Oxygenation, Ventilation and Perfusion**
Oxyhemoglobin Dissociation Curve | Minute Ventilation | Oxygen Delivery vs. Oxygen Demand

**Blood Gases, Capnography and Pulse Oximetry Data**
Interpretation of ABGs | Waveform Capnography | Pulse Oximetry and Hemodynamics

**Physical Assessment and Imagery**
Inspect, Auscultate, Percuss | Radiographic Interpretation

**Airway Pharmacologic Agents**
Airway Smooth Muscle | Edema | Infection and Inflammation

**Basic and Advanced Airway Management**
Patient Positioning | Airway Adjuncts | Intubation Pharmacology | Intubation | Chest Tubes

# Agenda

## Day 2, 8:00 am to 4:00 pm

**Non-Invasive and Invasive Mechanical Ventilation**
CPAP and BiPAP | Pressure vs. Volume Control | Triggers | Advanced Modes HFOV, APRV

**Complications of Mechanical Ventilation**
BaroTrauma and VoluTrauma | Oxygen Toxicity | Dyssynchrony | Ventilator-Associated Pneumonia

**Weaning and Extubation**
Criteria and Methods | Pearls and Pitfalls

**Ventilation and Oxygenation Issues**
Asthma | Pneumonia | Pulmonary Edema | Acute Respiratory Distress Syndrome

**Perfusion Issues: Putting It All Together**
Pulmonary Embolism | Cardiogenic Shock | Sepsis

# Accreditation

**RN/LPN/LVN/Other: 13.5 Contact Hours**

***Includes 2 Pharmacology Contact Hours***

MED-ED, Inc is accredited as a provider of nursing continuing professional development 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.