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.

Program Learning Outcomes
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

0800 Oxygenation, Ventilation and Perfusion
Oxyhemoglobin Dissociation Curve | Minute Ventilation | Oxygen Delivery vs. Oxygen Demand

0900 Blood Gases, Capnography and Pulse Oximetry Data
Interpretation of ABGs | Waveform Capnography | Pulse Oximetry and Hemodynamics

0945 Break

1000 Physical Assessment and Imagery
Inspect, Auscultate, Percuss | Radiographic Interpretation

1200 Lunch

1300 Airway Pharmacologic Agents
Airway Smooth Muscle | Edema | Infection and Inflammation

1415 Break

1430 Basic and Advanced Airway Management
Patient Positioning | Airway Adjuncts | Intubation Pharmacology | Intubation | Chest Tubes

1630 Adjourn
Agenda

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

0800  **Non-Invasive and Invasive Mechanical Ventilation**  
CPAP and BiPAP | Pressure vs. Volume Control | Triggers | Advanced Modes HFOV, APRV

0945  **Break**

1000  **Complications of Mechanical Ventilation**  
BaroTrauma and VoluTrauma | Oxygen Toxicity | Dyssynchrony | Ventilator-Associated Pneumonia

1100  **Weaning and Extubation**  
Criteria and Methods | Pearls and Pitfalls

1200  **Lunch**

1300  **Ventilation and Oxygenation Issues**  
Asthma | Pneumonia | Pulmonary Edema | Acute Respiratory Distress Syndrome

1415  **Break**

1430  **Perfusion Issues: Putting It All Together**  
Pulmonary Embolism | Cardiogenic Shock | Sepsis

1600  **Adjourn**

Accreditation

RN/LPN/LVN/Other: 13.5 Contact Hours  
RT: 13.5 Category 1 CRCE Hours

*Includes 2 Pharmacology 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 is approved by the American Association for Respiratory Care (AARC).

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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