1. Apply the clinical essentials necessary for an efficient and comprehensive respiratory assessment.

2. Interpret assessment findings in children with alterations in respiratory status.

3. Determine underlying pathophysiology for both upper airway and lower airway conditions.

4. Compare and contrast cause versus symptoms of upper versus lower airway conditions when selecting appropriate management strategies.

5. Differentiate the management of both urgent and emergent respiratory conditions.

6. Discuss non-pharmacological, technological and pharmacological treatment modalities used in managing pediatric respiratory conditions.

Pulmonary Assessment & the “5” Fingered Assessment
Adventitious Lung Sounds
Clubbing, Pallor & Cyanosis
Oxyhemoglobin Dissociation Curve
Ventilation, Diffusion & Accessory Muscles
Diagnostic Considerations
- Pulmonary Function Testing (PFT)
- Airway Clearance Techniques & Technologies
- The Do’s & Don’ts of Sputtering
- What the Chest X-ray is Telling You
- Lab Values: Normal vs. Baseline
- Determining Critical Clues

Unique Airway Challenges
- Pediatric Patient is not a Small Adult
- Anatomical and Physiological Differences
- Increased Oxygen Consumption Rates
- The Allergic Cascade
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- Airway Inflammation
- Hygiene Hypothesis

Non-Pharmacological and Technological Management
- Oxygen Therapy
- Devices used for both low and high flow rates
- Pulse Oximetry: What Does It Really Mean?
- Chest X-ray Interpretation
- Mist/Humidification
- Medication Delivery Devices
- MDI/Spacer
- Nebulizers
- Dry Powder Inhalers (DPI)

Pharmacological Management
Inhaled
- Antimicrobial
- Anti-Inflammatory
- Anti-Reactive
Topical
- Antimicrobial
- Anti-Inflammatory
- Anti-Pyretic
- Asthma Medications
- Control
- Rescue
- Steroids: IV, Oral
- Antimicrobials
- Antihistamines: First & Second Generation
- Emergency Medications

Urgent & Emergent Respiratory Conditions
- Tips for Quick Identification
- Critical Interventions for
  - Flat Chest
  - Rib Trauma
  - Pneumothorax
- Anaphylaxis
- Reaction
- Foreign Body Aspiration
- Status Asthmaticus

Identification & Treatment of Upper Airway Conditions
- Tonsils
- Laryngitis/Laryngospasm
- Grop: “The Good, the Bad, the Ugly”

Risk Factors and Treatment Modalities for Lower Airway Conditions
- Pneumonia
- Bronchitis
- Interstitial Lung Disease (ILD)
- The 2 Cousins: RSV & Human Metapneumovirus
- Asthma

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Live Seminar & Webcast Schedule
- 7:30 Registration/Morning Coffee & Tea
- 8:00 Program begins
- 11:50-1:00 Lunch
- 4:00 Program ends

Ellicott City, MD
Wednesday, November 30, 2016
Silver Spring, MD
Thursday, December 1, 2016
Fairfax, VA
Friday, December 2, 2016
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