



The Intensive Care Professionals

Airway and Mechanical Ventilation Management Agenda Option B

DAY 1		
7:30 a.m. – 7:45 a.m.	Welcome and Announcements	
	Airway and Mechanical Ventilation Management Overview	
7:45 a.m. – 8:10 a.m.	Overview of Airway Practice, Complications, and Outcomes	
	Differentiate among airway management options in the ICU	
	 Identify challenges of airway management in critically ill patients Determine difficult intubation factors 	
	Determine difficult intubation factors	
8:10 a.m. – 8:35 a.m.	Intubation Medications	
	Recognize the place in therapy for pharmacologic agents used during airway	
	management	
	 Explain the mechanism of action, pharmacokinetics, and dosing of commonly used medications 	
	Review safety concerns related to specific pharmacologic agents in critically	
	ill patients	
8:35 a.m. – 9:00 a.m.	Laryngoscopy: Direct Laryngoscopy and Videolaryngoscopy	
	Review direct laryngoscopy technique and compare Mac versus Miller blades	
	Review videolaryngoscopy technique and compare regular versus	
	hyperangulated bladesDiscuss selection of patient, environment, and clinician	
	Analyze the evidence surrounding laryngoscopy	
9:00 a.m. – 9:15 a.m.	BREAK	
9:15 a.m. – 11:45 a.m.	SKILL STATIONS: Airway Management Rotation 1	
	A. Overview of Airway Practice	
	Review airway management options	
	Determine factors that make intubation difficult	
	B. Intubation Medications	
	Discuss case studies using pharmacologic agents	
	Review effectiveness of pharmacologic agents	
	C. Laryngoscopy: Direct Laryngoscopy and Videolaryngoscopy	
	 Review laryngoscopy techniques Practice direct and videolaryngoscopy techniques 	
	Examine effectiveness of regular versus hyperangulated blades	
11:45 a.m. – 12:45 p.m.		
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12:45 p.m. – 1:05 p.m.	Surgical Airways	
	Practice techniques for establishing emergency surgical airway access Define methods for training and maintanance of skills.	
	 Define methods for training and maintenance of skills Explain the risk of subglottic stenosis and the rationale for early conversion of 	
	cricothyrotomy to tracheostomy	
1:05 p.m.– 1:25 p.m.	Team Approach to Airway Management	
,	Discuss literature on emergency airway management with a focus on	
	challenges and complications	
	Describe system-based elements of successful practice	
	 Evaluate practical strategies for improving team performance and outcomes 	

4.05 4.45	Advanced Aircon Techniques
1:25 p.m.– 1:45 p.m.	Advanced Airway Techniques
	Review awake fiberoptic bronchoscope intubation
	Discuss supraglottic airway device exchange
	Evaluate combined videolaryngoscope and fiberoptic bronchoscope
	techniques
	Review endotracheal intubation using an intubating laryngeal mask airway
	Demonstrate laryngoscopy with a bougie
	Explore retrograde endotracheal intubation
1:45 p.m. – 2:00 p.m.	BREAK
2:00 p.m. – 4:30 p.m.	SKILL STATIONS: Airway Management Rotation 2
	D. Surgical Airways
	Practice emergency surgical airway access
	Review conversion of cricothyrotomy to tracheostomy
	E. Team Approach to Airway Management
	Examine how intubation can lead to cardiac arrest
	Practice and review team process strategies
	Determine challenges and complications of airway management
	F. Advanced Airway Techniques
	Demonstrate advanced airway intubation options
	Practice advanced intubation techniques
4:30 p.m. – 4:45 p.m.	WRAP-UP DAY 1

DAY 2		
7:30 a.m. – 7:45 a.m.	Welcome and Announcements	
7:45 a.m. – 8:10 a.m.	Safe Mechanical Ventilation	
8:10 a.m. – 8:35 a.m.	 Patient-Ventilator Dyssynchrony Discuss interactions between patient and ventilator in synchronous and asynchronous breath delivery Demonstrate a standardized method to interpret dyssynchrony through pressure and flow waveform analysis Identify the clinical management of different patient-ventilator asynchrony types using a standardized method and published taxonomy 	
8:35 a.m. – 9:00 a.m.	Refractory Hypoxemia: What Next? Define acute hypoxemic respiratory failure and refractory hypoxemia Describe the primary treatment options for refractory hypoxemia and risks associated with oxygen administration Explain the adjunct therapies available and evidence for the treatment of refractory hypoxemia Review alternative ventilator strategies for the treatment of refractory hypoxemia	
9:00 a.m. – 9:15 a.m.	BREAK	

9:15 a.m. – 11:45 a.m.	SKILL STATIONS: Mechanical Ventilation Rotation 1
	A. Safe Mechanical Ventilation
	Explain key principles and mechanics of mechanical ventilation
	Apply types and modes of mechanical ventilation based on case study
	clinical context
	 Articulate acute complications of mechanical ventilation and strategies to prevent and/or treat them
	B. Patient-Ventilator Asynchrony
	Demonstrate and interpret dyssynchrony through pressure and waveform
	analysis
	Differentiate between patient interactions and ventilators
	C. Refractory Hypoxemia: Now What?
	Discuss treatment options for refractory hypoxemia Potagonia alternative vantileter at rate give for hypoxemia
44.45 a.m. 40.45 n.m.	Determine alternative ventilator strategies for hypoxemia LUNCH
11:45 a.m. – 12:45 p.m.	
12:45 p.m. – 1:10 p.m.	Noninvasive Ventilation/High-Flow Nasal Cannula
	Define the equipment, physiology, and benefits of heated high-flow nasal
	cannula
	Apply heated high-flow nasal cannula appropriately Compare indications and contraindications for popiny acity a pressure.
	Compare indications and contraindications for noninvasive positive pressure ventilation
	Apply and troubleshoot noninvasive positive pressure ventilation
1:10 p.m. – 1:35 p.m.	Disease-Specific Strategies
р	Classify pulmonary pathophysiology into clinically useful categories
	Summarize key points of pragmatic approaches to mechanical ventilation
	Optimize gas exchange in the presence of acute and chronic pulmonary
	disease
1:35 p.m. – 2:00 p.m.	Weaning the Difficult Patient
	Discuss the importance of weaning patients
	Determine respiratory factors important to weaning patients
	Identify cardiac factors in weaning patients
2:00 m m 2:45 m m	Identify neuromuscular factors in weaning patients PREAL
2:00 p.m. – 2:15 p.m.	BREAK
2:15 p.m.– 4:30 p.m.	SKILL STATIONS: Mechanical Ventilation Rotation 2
	D. Noninvasive Ventilation/High-Flow Nasal Cannula
	Define the physiology and benefits of heated high-flow cannula
	Apply noninvasive positive pressure ventilation
	Compare indications and contraindications of noninvasive positive pressure
	ventilation
	E. Disease-Specific Strategies
	Evaluate pragmatic approaches to mechanical ventilation Potermine antimal real evaluation and absorbed property discussions.
	 Determine optimal gas exchange in acute and chronic pulmonary disease Demonstrate approaches to mechanical ventilation
	F. Weaning the Difficult Patient
	Identify indicators of readiness to wean from select case studies
	Apply ventilator modes for difficult patients
4:30 p.m. – 4:45 p.m.	WRAP-UP DAY 2
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