



From Vent to Rehab: Treatment of the ICU Patient

Part I: Understanding ICU Monitoring

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Note to Participants: There are interactive pop-up questions throughout this lecture. If you choose to pause the lecture and return at a later time, a natural break time would be after answering the interactive questions. (You are able to pause at any time and the presentation will "remember" where you were. It's just a more natural time to pause after the interactive questions.) For your convenience, this outline reflects where/when within the lecture the interactive questions occur.

This lecture has 91 slides and is 131 minutes in duration.

- I. Invasive and noninvasive monitoring
 - A. Visual assessment and inventory of patient and bedside equipment
 - B. Mobilizing the ICU patient
 - C. Invasive monitoring and techniques
 - 1. Continuous monitoring of arterial blood pressure
 - 2. Femoral line
 - 3. PA catheter/Swan-Ganz
 - 4. Permanent pacemaker and/or ICD
 - 5. LifeVest wearable defibrillator
 - 6. Chest tube drain
 - 7. Extracorporeal membrane oxygenation
 - 8. Intra-aortic balloon pump (IABP)
 - 9. Left ventricular assist device (LVAD)
 - 10. Hemodialysis
 - 11. Intracranial pressure monitoring

Notes

Interactive Questions — slide 27 @ 39 minutes

- II. Procedures
 - A. Angioplasty and stents
 - B. CABG procedures
 - C. Median sternotomy
 - D. Abdominal aortic aneurysmectomy
- III. Ventilation: Mechanical and noninvasive
 - A. Noninvasive ventilation
 - 1. CPAP
 - 2. BiPAP

Interactive Questions — slide 39 @ 60 minutes

- B. Ventilators
 - 1. The ICU patient
 - 2. Reading a ventilator
 - 3. Indications for mechanical ventilation

4. Ventilation controls
5. Ventilation techniques
6. Complications of mechanical ventilation
7. Weaning
 - a. When to begin
 - b. What to watch for during
 - c. How to wean
 - d. Factors in weaning
8. Other considerations
 - a. Corking
 - b. Passy-Muir speaking valve
 - c. Suctioning

Notes

Interactive Questions — slide 60 @ 98 minutes

IV. Oxygen delivery

- A. Monitoring
 1. Pulse oximetry
 2. Monitoring probes
- B. Oxygen storage
 1. Portable unit
 2. Cylinder
 3. Portable O₂ concentrator
- C. Methods of delivery
 1. Ambu bag
 - a. Documenting FiO₂
 2. Nasal cannula
 - a. O₂ concentrations of patients using a nasal cannula
 - b. High flow nasal cannula
 3. Oxymizer
 4. Face mask
 5. Venturi system
 6. Partial non-rebreather mask
 7. Transtracheal oxygen
- D. Oxygen algorithm

Interactive Questions — slide 89 @ 129 minutes