



EDUCATA

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From Vent to Rehab: Treatment of the ICU Patient for Occupational Therapists

Part I: Understanding ICU Monitoring Ellen Hillegass PT, Ed.D., CCS, FAACVPR, FAPTA

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 93 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 29 @ 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 41 @ 60 minutes

B. Ventilators

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

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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 62 @ 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 91 @ 129 minutes
