CRITICAL CARE PATIENT INTER-FACILITY TRANSPORT CURRICULUM

COURSE OUTLINE

1. Ventilator patient concerns (4 hours total)
   A. Types of ventilators
   B. IPPB, SIMV, PEEP, CPAP
   C. Use of transport ventilators
   D. Complications
   E. Use of Pulse Oximeter/Capnography
2. Chest Tubes and Pleurovac (1 hour)
   A. Principles of pleural cavity evacuation
   B. Maintaining chest tubes
   C. Review various systems
   D. Pleurovac Practical Lab
3. Maintenance of invasive lines (2 hours)
   A. Types of hemodynamic monitoring
      a. Various equipment
      b. Insertion sites
      c. Maintaining infusions
      d. Complications
4. Equipment Training Videos (1 hour)
   A. IV Pumps
   B. Ventilator
   C. 12 Lead Monitoring
5. Thrombolytics (1 hour)
   A. Indications, contraindications, adverse effects, and administration
      a. Streptokinase
      b. tPA
      c. Retavase
      d. TNKase
      e. Heparin
      f. Lovenox
6. Interpreting blood gases (1 hour)
   A. The use of ABGs in ventilator managements
7. Blood products (1 hour)
   A. Whole blood/Packed RBCs/Plasma
8. Cardiac Enzymes (1 hour)
   A. Cardiac physiology and the meaning of enzyme abnormalities
9. Vasoactive drugs (2 hours)
   A. Indications, contraindications, adverse effects, and administration
      a. Dopamine
      b. Epinephrine
      c. Dobutamine
      d. Levophed
      e. Amrinone/Milrinone
      f. Nitroglycerin
      g. Nitroprusside
      h. Esmolol
      i. Labetalol
10. Critical Care Patient Transport Protocol Review (1 hour)
   A. Protocol review and miscellaneous drugs
      a. Indications, contraindications, adverse effects, and administration
         1. Aminophylline
         2. Mannitol
         3. Phenytoin
         4. Insulin
         5. Propofol
         6. Oxytocin and related drugs

11. Paralytics (1 hour)
   A. Indications, contraindications, adverse effects, and administration
      a. Non-depolarizing neuromuscular blockers
      b. Sedatives during paralytic maintenance
      c. RSI indications during critical care patient transport
   B. Administer with Medical Control

12. Practical Lab (1 hour)
   A. IV Pumps
      a. Various tubing
      b. Maintaining a drip while changing to the pump
   B. Ventilator
   C. 12 Lead
   D. CO2 detector

13. Cardiac Physiology/12-Lead ECG (4 hours)
   A. Cardiac physiology and cardiac drug review
      a. Indications, contraindications, adverse effects, and administration
         1. Lidocaine/Procainamide
         2. Potassium
         3. Morphine
         4. Cardizem
         5. Amiodarone

14. 12-Lead AMI Recognition (2 hours)

15. High Risk Pregnancy (1 hour)
   A. Indications, contraindications, adverse effects, and administration
      a. Magnesium Sulfate
      b. Pitocin

16. Antibiotics (1 hour)

17. Pediatrics (4 hours)
   A. Pediatric Airway and Ventilation management including Ventilator Dynamics and
      Chest Tube Monitoring and pneumothorax recognition and treatment (1 hour)
   B. Pediatric fluid requirements including maintenance and bolus therapies (1 hour)
   C. Pain management (1 hour)
   D. Case studies, trauma specific (1 hour)

18. Critical Care Patient Transport Charting (1 hour)

19. Critical Care Patient Transport Call: Start to Finish (1 hour)
   A. General considerations
   B. Staffing and quality management considerations
   C. When to refuse a call

20. Critical Care Patient Transport Case Presentations (1 hour)

21. Daily Quizzes
   A. Ventilators, chest tubes, invasive lines
   B. Thrombolytics, ABGs, blood, enzymes, pressers, paralytics
22. Written and Practical Exam (4 hours)