Intensive Care Practice

[Cardiac ICU, Cardiothoracic ICU, Medical ICU, Neonatal ICU, Neuro ICU, Pediatric ICU, Surgical ICU, Trauma]

Description of Rotation:

Students will gain knowledge and insight to the critically ill patients in a health-system setting and their specialized care and needs. Expectations are to demonstrate a comprehensive medical plan for the acute problems and the potential chronic health needs.

Goals of Rotation:

Facilitate student learning and critical thinking skills in an intensive care environment in order to:

1. Understand patient health care needs.
2. Apply evidence based medicine.
3. Enhance and reinforce didactic course work.
4. Develop interpersonal communication skills.
5. Adopt and formulate ethics and integrity for practice site and career.
6. Formulate an understanding of the laws and regulation for the practice site
7. Recognize barriers of care for patient

Learning Objectives:

Upon completion of this rotation the student will:

1. Describe the symptomatology of the various disease states encountered
2. Analyze the physical findings of the patient’s conditions
3. Formulate a therapeutic plan for the each medical condition as well as alternative plans
4. Identify and explain the rational for diagnostic procedures required for the patients conditions
5. Acknowledge and modify sub optimal treatment and/or failures
6. Prioritize the clinical significance of an intensive care patient
7. Distinguish the potential effects on therapy due to a mechanically ventilated patient
8. 

Activities/Responsibility:

1. Rounding with Physician teams
2. Monitoring patient outcomes
3. Detect patient parameters when a patient is:
   a. Mechanically ventilated
   b. Under conscious sedation
   a. ADR’s
   b. Food-Drug interaction
   c. Food-Alcohol interactions
   d. Medication Misadventures
5. Research drug information question
6. Educational programs  
   a. Patients  
   b. Medical Staff  
   c. Students  
7. Newsletter  
   a. Patients  
   b. Medical Staff  
      i. Pharmacists  
      ii. Physicians  
      iii. Technicians  
      iv. Nursing  
8. Review of Medical Records  
9. Medication Reconciliation  
10. Data collection  
11. Medication Misadventures  
12. Drug Shortages  
13. Formulary Management  
14. Required Readings
Common disease states encountered in the hospital setting (*list not inclusive*):

1. Clotting disorders
2. Allergies
3. Obesity
4. Dementia
5. Anxiety Disorders
6. Depression
7. Falls
8. Hearing Impairment
9. Incontinence
10. Palliative Care
11. Psychotic Disorders
12. Pressure Ulcers
13. Fractures
14. Osteoarthritis
15. Osteoporosis
16. Cognitive decline
17. Agitation
18. Sleep disorders
19. Neurologic Disorders
20. Arrhythmias
21. Diabetes /Metabolic Syndrome
22. Dyslipidemia
23. Hypertension
24. Asthma/COPD
25. Thyroid Disorders
26. GERD
27. CHF
28. Anemia
29. Pain Management
30. PAD
31. Nutrition/ Malnutrition
32. Infectious Diseases
33. Seizure Disorder
34. Coronary Artery Disease/Angina
35. Acid/Base Disorders
36. Acute renal failure
37. Alcohol withdrawal
38. ARDS
39. DVT/PE
40. DKA
41. CAP
42. VAP
43. Mechanical Ventilation
44. Sedation
45. Stress related mucosal disease
46. Overdose
47. Organ failure
48. Sepsis
49. Hypertensive Crisis
50. Stroke

Potential longitudinal activities to accomplish at site:

1. Identify and collect appropriate drug-related monitoring parameters for each assigned patient
2. Maintain an adequate patient data base for each assigned patient
3. Identify and prioritize drug-related problems for each assigned patient
4. Assess the appropriateness of each assigned patient’s drug therapy
5. Construct a detailed pharmacotherapeutic plan for each assigned patient
6. Present all patient data in a concise and meaningful fashion
7. Provides evidence-based regimens and monitoring plans for each patient
8. Obtain and write-up a patient medication history
9. Provide a verbal therapeutic plan recommendation to another health-care professional
10. Perform medication reconciliation for patients
11. Interpret diagnostic tests results for patient/caregiver/or preceptor
12. Assess a patient’s peripheral edema
13. Take a patient’s respiratory rate
14. Assess a patient’s temperature
15. Provide an optimal pain management or palliative care plan for a patient
16. Observe a Health Care professional perform a full physical examination and assess results
17. Make a warfarin dosage adjustment based on patient parameters
18. Recommend empiric antibiotic therapy
19. Recommend antibiotic therapy based upon a culture and sensitivity
20. Assess the significance of a drug-drug interaction
21. Adjust a drug dose in a patient with renal insufficiency
22. Determine monitoring parameters for a patient being treated for an infectious disease
23. Prepare a written pharmacokinetic consultation
24. Prepare a handout for case presentation
25. Prepare an article for a newsletter or publication
26. Prepare a patient education sheet
27. Prepare a written drug information response in a practice setting
28. Provide an education presentation to pharmacists
29. Provide an education presentation to other health care professionals
30. Lead a Journal Club discussion
31. Participate in a Patient/Medication Safety Review or error reduction program
32. Participate in a discussion of a pharmacist role in ethical issues related to any of the following topics: end of life care, professional behavior, clinical research, and pharmacy current event/hot button issue