Burn

Description of Rotation:

A rotation in a burn unit is designed to understand the various degrees (1st - 4th) of burns and patient care required for survival. Students will be able to classify burns (rule of 9’s) the long term complications, the nutritional requirements, and common pathogens involved in burn sepsis.

Goals of Rotation:

Facilitate student learning and critical thinking skills in a Burn Unit environment in order to:

1. Understand patient healthcare needs.
2. Apply evidence-based medicine.
3. Enhance and reinforce didactic course work.
4. Develop interpersonal communication skills.
5. Describe the pathophysiology of common illness and concomitant conditions associated with burns
6. Explain monitoring parameters given the particular disease state and the treatment regimen (including efficacy, toxicity, side effects, and potential drug interactions).
7. Provide non-pharmacological treatment for disease states.

Learning Objectives:

Upon completion of this rotation the student should be able to:

1. Describe the symptomatology, physical findings, pathophysiology, diagnostic procedures, laboratory tests, primary and alternative pharmacotherapies, and non-pharmacological treatments for disease states encountered during the rotation.
2. Describe and understand the general principle of immunization, including appropriate schedules as well as immunizations required in specific patient populations.
3. Provide recommendations for medication dose adjustments based upon pharmacokinetic and pharmacodynamic principles.
4. Provide appropriate monitoring parameters for the chosen treatment plan (including efficacy, toxicity, side effects, and potential drug interactions).
5. Effectively communicate the drug treatment plan to the patient with appropriate precautions and expectations.
6. Document all appropriate recommendations and interventions.
Activities:

1. Patient interviews and care plans
   a. Medication Therapy Management
   b. Patient goal setting
2. Case/disease state presentations and discussions
3. Research drug information question
4. Educational programs
   a. Patients
   b. Medical Staff
   c. Students
5. Newsletter
6. Define patient goals for each disease state
7. Data collection
8. Required Readings

Common disease states encountered in the Burn Unit (*list not inclusive)*:

1. Clotting disorders
2. Pain Management
3. Electrolyte Disorders
4. Respiratory Alkalosis
5. Acute renal failure
6. Hypoxia
7. Trauma
8. Nutrition
9. Compartment Syndromes
10. Wound Care
11. Shock
12. Allergies
13. Depression
14. Mood disorders
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 medication information to a unique cultural and socioeconomic diverse patient
10. Provide a verbal therapeutic plan recommendation to another health-care professional
11. Perform medication reconciliation for patients
12. Interpret diagnostic tests results for patient/caregiver/or preceptor
13. Provide an optimal pain management or palliative care plan for a patient
14. Observe a Health Care professional perform a full physical examination and assess results
15. Make a warfarin dosage adjustment based on patient parameters
16. Recommend empiric antibiotic therapy
17. Recommend antibiotic therapy based upon a culture and sensitivity
18. Assess the significance of a drug-drug interaction
19. Adjust a drug dose in a patient with renal insufficiency
20. Determine monitoring parameters for a patient being treated for an infectious disease
21. Prepare a written pharmacokinetic consultation
22. Prepare a handout for case presentation
23. Prepare an article for a newsletter or publication
24. Prepare a patient education sheet
25. Prepare a written drug information response in a practice setting
26. Provide an education presentation to pharmacists
27. Provide an education presentation to other health care professionals
28. Lead a Journal Club discussion
29. Participate in a Patient/Medication Safety Review or error reduction program
30. Develop a community-based educational initiative
31. Discuss or Implement, evaluate, and obtain reimbursement for MTM services
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