

**TO:** PA Students

**FROM:** T. James Gallagher, M.D., FCCM  
Professor of Anesthesiology and Surgery

**SUBJECT:** Goals and Objectives for CCM Rotation – NeuroICU

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For your Neuro Intensive Care Unit rotation, please note the following:

1. Please report to the North Tower Neuro ICU at 6:30 am on the first day of your rotation. Mrs. Jennifer Barghout will inform you who you should report to on your first day.
2. Thereafter, you will come to work each morning at 0630 and be dismissed by about 1830, unless the Neuro ICU Attending and senior PA think it is better to let you go earlier.
3. Please click on the link below for the most up to date lecture schedule. You are **expected to attend** the CCM Lecture Series every Tuesday at 12pm (unless noted otherwise on google calendar) and Grand Rounds at 12 pm every Thursday in M624 (starting September 8, 2016 for the 2016-2017 academic year). These lectures will encompass components of both anesthesiology and critical care.

[https://calendar.google.com/calendar/embed?src=9ro5hkoiom83ek8qhk32ler1eo@group.calendar.google.com&ctz=America/New\\_York&title=CCM/Surgery/Pulmonary+Combined+Calendar](https://calendar.google.com/calendar/embed?src=9ro5hkoiom83ek8qhk32ler1eo@group.calendar.google.com&ctz=America/New_York&title=CCM/Surgery/Pulmonary+Combined+Calendar)

4. You will be expected to work one side of the Neuro ICU hall with either the senior PA or the Attending. You will take call every 4<sup>th</sup> day, picking up new patients with the on-call resident.
5. You will be allowed to assist in Neuro ICU procedures with the senior PA, Attending and/or Fellow.
6. **You will work one weekend on-call; otherwise, you have weekends free for reading.**

If there are any problems or questions, please contact one of the following individuals:

Dr. Gallagher  
Vera Barnes

352-494-5336 cell  
273-8630 office

**Neurointensive Care Unit Rotation for Physician Assistant Students**  
**The Department of Anesthesiology**  
**University of Florida College of Medicine**

**Participants:**

Critical Care Medicine Attending Physician  
Physician Assistants  
Critical Care Medicine Fellows [Evenings]  
Senior Physician Assistant Students [1 to 2 per 4-week month]

**Place:**

North Tower 82 Neuro ICU and Burn ICU

**Objectives:**

By the end of the Neuro ICU preceptorship, students will demonstrate on a written examination the ability to:

- A. Understand the pathophysiology / epidemiology of the illness
- B. Describe the clinical presentation (signs and symptoms)
- C. Select appropriate diagnostic examinations (lab, radiology, special studies)
- D. Formulate a comprehensive differential diagnosis
- E. Develop a management plan
- F. Describe appropriate patient education/follow-up instructions

for patients presenting with the below-listed clinical problems. The student will also note any special considerations for elderly patients.

**HEENT/Ophthalmology/Otolaryngology**

Sinusitis  
URI's

**Neurologic/Psychiatric/Behavioral**

Alzheimer's disease  
Altered Mental Status  
Stroke  
AV Malformation  
Intracerebral Aneurysm  
Syncope  
Craniotomy for tumor

**Cardiovascular/Respiratory**

Atherosclerotic coronary artery disease  
Cardiac arrhythmias  
Cardiomyopathy  
Congestive heart failure  
COPD  
Hypertension  
Myocardial infarction  
Peripheral vascular disease  
Valvular heart disease  
Pleural effusion  
Pneumothorax

**Dermatology**

Dermatomycoses  
Dermatologic manifestations of internal disease  
Thermal Injury

**Endocrine/Metabolic**

Adrenal disease  
Diabetes Mellitus  
Diabetes Insipidus  
Obesity  
SIADH  
Pituitary disorders  
Thyroid disorders

**Infectious Disease**

Pneumonia  
Sepsis  
Tracheobronchitis

**Hematology/Oncology**

Disorders of RBC's (sickle cell disease, thalassemia, polycythemia vera, anemias)  
Disorders of hemostasis - thrombocytopenia, DIC

**Musculoskeletal/Rheumatologic**

Fractures  
Joint Replacement Surgery

**Gastrointestinal/Genitourinary/Renal**

Acute renal insufficiency and failure  
Chronic renal failure  
Cirrhosis  
Disorders of Absorption  
Hepatitis and hepatic coma  
Nephrolithiasis  
Pancreatitis  
Appendicitis  
Biliary tract disease  
Breast cancer  
Cholecystitis  
Crohn's Disease  
Diverticulosis  
GI bleeding  
GI cancers  
Prostate cancer  
PUD  
Paralytic ileus  
Mechanical bowel obstruction

## **Skill Objectives**

While it is recognized that students will be exposed to a variety of clinical skills in this preceptorship, by its end students should be familiar with:

1. Perform a complete/focused history and physical examination of a patient presenting with any of the above problems.
2. Write daily, legible progress notes on all patients being followed.
3. Interpret EKG features of the common cardiac arrhythmias.
4. Correctly evaluate laboratory data as to significant findings for any of the above conditions.
5. Give an organized and concise verbal presentation.
6. Implement ACLS protocols during code situations.
7. Perform simple procedures (phlebotomy, arterial blood gases, cultures, etc.)
8. Discuss the preoperative assessment of patients. Specifically note which types of surgery, and what pre-existing conditions are associated with an increased incidence of postoperative complications. Also note which conditions would cause an elective surgical procedure to be postponed.
9. Outline the monitoring and evaluation of the postoperative patient, noting the diagnosis and management of common post-op complications.
10. Describe special considerations that must be given to surgical patients with respect to fluid and electrolyte management.
11. List the indications and use of preoperative medications for general surgery procedures.
12. List the potential complications associated with general anesthesia.
13. Describe how to determine and differentiate between the severity of burns. Discuss the possible complications and prognosis associated with various types of burns.
14. Discuss medications to be discontinued prior to elective surgical procedures.
15. Discuss preoperative testing for surgical procedures.

## **Attitude Objectives**

1. Be cognizant of the importance of periodic evaluations in the management of chronic diseases.
2. Appreciate the importance of continuity of care in the management of chronic illness.
3. Be cognizant of a patient's right to refuse treatment and their views on death and dying.
4. Evaluate elevated intracranial pressure and treatment.
5. Perform detailed neurologic exam.
6. Understand treatment and complications of subarachnoid hemorrhage.
7. Understand principles of mechanical ventilation.



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<http://www.anest.ufl.edu/ccm>

## **DR. GALLAGHER'S READING LIST**

The Neuro ICU Reading List from Dropbox:

[https://www.dropbox.com/sh/gwmzhakvz28q1ln/AACH3hMkzRy78HhaXT3xJlsTa?  
dl=0](https://www.dropbox.com/sh/gwmzhakvz28q1ln/AACH3hMkzRy78HhaXT3xJlsTa?dl=0)

The articles are required reading for the Neuro ICU Rotation.