<table>
<thead>
<tr>
<th>Fourth-Year Elective Title</th>
<th>Course Number</th>
<th>Location</th>
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<tbody>
<tr>
<td>Subspecialty Subinternship in Neurosurgery</td>
<td>SURG 9286</td>
<td>RWJUH</td>
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**Elective Director**
Shabbar Danish, MD

**Elective Faculty**
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<table>
<thead>
<tr>
<th>Blocks Available</th>
<th>Duration/Weeks</th>
<th>Hours per Week</th>
<th>Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>All</td>
<td>Min: 4 Max: 4</td>
<td>Variable</td>
<td>Max: 2</td>
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<thead>
<tr>
<th>Lectures/Seminars</th>
<th>Outpatient</th>
<th>Inpatient</th>
<th>House Staff</th>
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<tbody>
<tr>
<td>Yes</td>
<td>Yes (25%)</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<th>Night Call</th>
<th>Weekends</th>
<th>Lab</th>
<th>Exam Required</th>
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<tr>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
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**Overall Educational Goal of Elective:**

The overall goals of the surgery sub-internship are for students to:

- Be the “first evaluator” of patient who presents to the surgical service for an elective or acute surgical problem or for traumatic injury
- Perform complete history and physical examinations on new admissions
- Independently establish a differential diagnosis
- Write admitting and daily patient diagnostic and therapeutic orders, under the supervision of a resident and/or attending physician
- Evaluate patients on a daily basis on morning rounds, and serve as the principle care giver, under the direct supervision of a resident and attending physician
- Develop clinical and procedural skills necessary to the management of the surgical patient including:
  - placement of ICP bolt
  - Placement of ventriculostomy
  - Placement of lumbar drain
  - IV/central lines/arterial lines
- Develop skills required for interdisciplinary patient care
- Participate in the education of junior medical students on the team
Objectives:

I. Patient care:
   a. Be the “first evaluator” of patient who presents to the surgical service for an elective or acute surgical problem or for traumatic injury
   b. Perform complete history and physical examinations on new admissions
   c. Independently establish a differential diagnosis
   d. Write admitting and daily patient diagnostic and therapeutic orders, under the supervision of a resident and/or attending physician
   e. Evaluate patients on a daily basis on morning rounds, and serve as the principle care giver, under the direct supervision of a resident and attending physician

II. Medical knowledge:
   a. Demonstrate knowledge of pathology and pathophysiology of major organ systems that are seen in various surgical diseases or that can result from traumatic injury
   b. Identify, assess and manage life-threatening surgical emergencies, including traumatic injury
   c. Assess pain and recommend appropriate management strategies for ameliorate suffering

III. Practice-based learning and improvement:
   a. Demonstrate and ability to improve their knowledge, skills and attitudes as needed, based on directed feedback
   b. Demonstrate evidence-cases decision making with regard to patient care

IV. Interpersonal and communication skills:
   a. Relate well to patients, staff, team and faculty
   b. Develop communication strategies to address sensitive, technically complex or distressing situations with patients and their families
   c. Recognize the principles of, and participate in, the obtaining of informed consent

V. Professionalism:
   a. Demonstrate appropriate behaviors, including respect, honest and acknowledgement of any deficiencies in knowledge or skills
   b. Demonstrate sensitivity to patient’s culture, age, gender and disabilities
   c. Demonstrate commitment to patient care and daily plan

VI. Systems-based Practice:
   a. Demonstrate and improve their understanding of the social, economic, and other influences on their patients’ health care and behaviors
   b. Learn and follow relevant practice guidelines
   c. Advocate for quality patient care
   d. Participate in morbidity and mortality conference
   e. Practice appropriate resource allocation

Brief Description of Activities:
This is a four-week experience in which the student will have the opportunity, with supervision, to function as a junior resident on the surgical service and to participate in the pre-operative and post-operative care of a variety of neurosurgical patients as well as the assessment and management of the acutely injured patient. Student will assigned to one of several neurosurgical responsibilities, over a four-week experience. The student will spend time in:

- Managing floor/ER patients
- Operating room
- Clinic
- Neurocritical Care
- Neurointerventional Service
- Gamma Knife Suite

Students will function as a member of a team and will be expected to participate in daily morning and evening rounds (including weekends), office hours, scheduled operations for their service, and call as assigned.

**Method of Student Evaluation:**

**Are there any prerequisites for this elective?** Yes \( \checkmark \) No

**Is this elective available to third year medical students as well?** Yes \( \checkmark \) No

*For third year students, this will be limited to the final few blocks of the year, and only with permission from the Sub-I Director.*