**Name of the module:** Neurosurgery rotation.  
**Number of module:** numeric code of the module is 47185084

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
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<tbody>
<tr>
<td><strong>BGU Credits:</strong></td>
<td>number of credits in the Israeli system, is 2.5.</td>
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<tr>
<td><strong>ECTS credits:</strong></td>
<td>number of credits in the European Credit Transfer System is ???</td>
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<td><strong>Academic year:</strong></td>
<td>The module is being taught in the 5th academic year</td>
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<td><strong>Semester:</strong></td>
<td>Fall. Two weeks long rotation.</td>
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<td><strong>Hours of instruction:</strong></td>
<td>80</td>
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<td><strong>Location of instruction:</strong></td>
<td>lectures, clinical rounds, operating room.</td>
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<td><strong>Language of instruction:</strong></td>
<td>Hebrew/English</td>
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<td><strong>Cycle:</strong></td>
<td>Medical Doctor</td>
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<tr>
<td><strong>Position:</strong></td>
<td>Neurosurgery rotation is a selective rotation that is available for medical students</td>
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<tr>
<td><strong>Field of Education:</strong></td>
<td>Neurosurgery</td>
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<tr>
<td><strong>Responsible department:</strong></td>
<td>The neurosurgery department at Soroka University Medical Center</td>
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<tr>
<td><strong>General prerequisites:</strong></td>
<td>Preclinical studies, neuroanatomy, neurology, endocrinology, intensive care.</td>
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<td><strong>Grading scale:</strong></td>
<td>Percentage out of 100.</td>
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</table>

**Course Description:** Neurosurgery clinical rotation serves as an introduction to the field of neurological surgery. It is meant to enable medical graduates to successfully diagnose and eventually understand the logic behind the course of treatment of neurosurgical diseases. The rotation usually covers neuro-oncology, endocrinologic CNS surgery, TBI, spinal neoplastic and degenerative diseases, and pediatric neurosurgical diseases including birth defects of the CNS.

**Aims of the module:** To enable medical graduates to acquire clinical skills that will allow them to diagnose and eventually understand the logic behind the course of treatment of neurosurgical diseases.

**Objectives of the module:**
1. Review of neuroanatomy  
2. Review of neurological examination  
3. The management of TBI  
4. The management of neoplastic disease

**Learning outcomes of the module:** On successful completion of the course, the student should be able to:
1. Understand basic neuroanatomy and functional cortex topography  
2. Present a neurosurgical patient  
3. Briefly describe the pathophysiology of the neurosurgical disease at hand  
4. Explain the arguments to support the suggested course of treatment

**Attendance regulation:** Students are expected to know all admitted patients at the Neurosurgery department at the time of the rotation. The students are expected to attend morning rounds, frontal teaching schedule except for students attending surgery. During the rotation, each student is expected to accompany the resident on call for the first 8 hours of his duty twice. Students are expected to prepare 5 different case presentations (all together) based on admitted patients pool including review of relevant literature.

**Teaching arrangement and method of instruction:**
1. Morning rounds  
2. Frontal lectures given by neurosurgery staff  
3. Guided Observation of surgical procedures in or  
4. Case presentations  
5. Guided observation of ER management
Lecturer: A. Cohen M.D.

Contact details:
Neurosurgery department
Soroka University Medical Center
P.O. box 151.
Office phone: ++ 972 8 6403426

Email:

Office hours: Sunday to thursday 07:30 to 15:30

Module evaluation: at the end of the rotation the students will evaluate the module, in order to draw conclusions, and for the university's internal needs

Confirmation: the syllabus was confirmed by the faculty academic advisory committee to be valid on 2015-2016

Last update: November 2015

Assessment:
how the students will be assessed in the module

1. General assessment of involvement of the student 40%
2. Quality and thoroughness of case presentation 20%
3. Final Oral examination 40%

100%

Work and assignments:

1. Morning rounds - daily
2. Frontal lectures given by neurosurgery physicians – will be published ahead of rotation
3. Guided Observation of surgery – twice thru rotation
4. Case presentations - student will form groups to produce 5 case presentations all together thru the rotation.
5. Guided observation of ER management – each student will accompany the physician on call twice thru the rotation

Time required for individual work: in addition to attendance in class, the students are expected to do their assignment and individual work:

1. Guided observation of ER management – 16 ours
2. Guided Observation of surgery – variable
3. Case presentations – 4 to 6 hours
4. Self reading – 4 to 6 hours
Module Content/schedule and outlines: will be published ahead of rotation.

Required reading: Toronto notes for Neurosurgery

Additional literature:

2. Hal Blumenfeld – Neuroanatomy thru clinical cases

* All learning material will be available to the students on the module's website (high-learn)/ library/ electronic documents available to BGU students.
Neurosurgery rotation