

640D NEUROLOGY SUB-INTERNSHIP ELECTIVE

(Does NOT count as one of the CORE Rotations)

Course Description: This elective Sub-Internship in Neurology is designed to give the student increased exposure and autonomy in care of the Neurology patient. It is further designed to give the student additional experience and increased knowledge of Neurological disorders.

Department: Neurology

Prerequisites: Successful completion of first- and second-year curriculum. Successful completion of the third-year neurology core rotation.

Restrictions: This course does not accept international students

Course Director: Sara Stern-Nezer, MD, MPH, UCI Medical Center 200 S. Manchester Ave., Suite #206, Orange, CA 92868 Phone: 714-456-3420 Fax: 714-456-6894 Email: sara.s@uci.edu

Instructing Faculty:

Mohammad Shafie, MD HS Clinical Professor Neurology
Wengui Yu, MD, HS Clinical Professor of Neurology
Cyrus Dastur, MD HS Clinical Professor of Neurology
Leonid Groysman, MD HS Clinical Professor of Neurology
Yama Akbari, MD PhD Clinical Professor of Neurology
Sara Stern-Nezer, MD, MPH Assistant Clinical Professor
of Neurology

Course Website: <http://www.neurology.uci.edu/overview.html>

Who to Report to First Day: Sara Stern-Nezer, MD, MPH, Neurology Clerkship Director

Location to Report on First Day: Douglas Hospital, 5800 Work Room, 101 The City Drive, Building 1, Orange, CA 92868

Time to Report on First Day: 7:30 am

Course Coordinator: Nicole Santos, 200 South Manchester, Suite 206, Orange, CA 92868. Phone: 714-456-3565; Fax: 714-456-8805; [email: santosn@hs.uci.edu](mailto:santosn@hs.uci.edu)

Site: UCI Medical Center

Periods Available: Throughout the year

Duration: 4 weeks

Number of Students: 1 per block

UCI students must officially enroll for the course by contacting the Scheduling Coordinator via email or phone (714) 456-8462 to make a scheduling appointment.

Extramural students enrolled at a U.S. LCME medical school must use VSAS to apply. To apply please refer to the [VSLO website](#).

Course Objectives:

- The sub-internship will provide the student with experience and preparation for inpatient medical care.
- The sub-intern will be a "first evaluator" of patients and perform complete and reliable history on new admissions.
- The sub-intern will be a "first evaluator" of patients and perform complete and reliable physical and neurologic examinations on new admissions.

- The student will be expected to independently establish a differential diagnosis based on lesion localization, time course and other relevant historical features.
- The student may write admitting and daily patient diagnostic and therapeutic orders, under the supervision of a resident and/or attending physician.
- The student will evaluate patients on a daily basis on morning rounds, and serve as the principal care giver, under the direct supervision of a resident and attending physician.
- Awareness of the utility and interpretation of various diagnostic tools that aid in reaching a diagnosis of neurological disorders.
- The student will be able to recognize the importance of multidisciplinary care in management of complex neurological patients.
- The student will develop awareness of situations in which it is appropriate to request neurologic consultation.
- The student will be able to recognize methods and tools available to help patients overcome their disability from neurological disorders.
- The student will be able to recognize importance of palliative and hospice care in patients with advanced and fatal neurological disorders.

Additional objectives:

- The student will gain skills in teaching junior medical students about patient care skills
- The student will show increasing abilities to work with other members of the health care team, to communicate and consult on an increasingly effective level.
- The student will demonstrate increasing responsibility and ability to care for neurologic patients including diagnosis, management, patient education, and discharge planning.

Key Topics:

- Approach to Cerebrovascular disorders.
- Approach to critical care of the neurology patient.
- Management of the epilepsy patient
- Management of complex neurologic patients.
- Basics of Neuro-Intensive Care.
- Management of the acutely ill neurologic patient.

Competencies:

- The ability to distinguish different Cerebrovascular syndromes clinically via history and knowledge of neuro-anatomy.
- Learn the basics of major Cerebrovascular disorders, such as Ischemic Stroke and Intracerebral Hemorrhage.
- Learn the utility of various Neuro-imaging studies to aid in the diagnosis of cerebrovascular disorders.
- Learn the basics of management of the Neurologic patient in the Intensive Care Unit.
- Learn the role of multidisciplinary care in management of complex neurological disorders.

Attitudes and Commitments:

- Appreciate the challenges faced by disabled patients who suffer from progressive neurological dysfunction.
- Appreciate the challenges families face dealing with newly diagnosed neurological dysfunction.
- Commitment to help achieve independence in activities of daily living for such patients with progressive neurological dysfunctions.

Educational Activities:

Monday AM (8 AM - 12 noon) Patient Rounds

Monday (Noon - 1 PM) Clinical Neurophysiology Lecture

Monday PM (1 PM - 4 PM) Patient Rounds

Tuesday AM (8:00 AM - 12:00 PM) Patient Rounds

Tuesday PM (1:00 PM - 5:00 PM) Patient Rounds

Wednesday AM (7:30 - 9:00 AM) Neuro-Radiology Case Conference

Wednesday AM (Noon - 1 PM) Neurology Resident Lecture

Wednesday AM (10 AM - 12 PM) Patient Rounds

Wednesday PM (1 PM - 5 PM) Patient Rounds

Thursday AM (9 AM - 12 PM) Patient Rounds

Thursday PM (1 PM - 5 PM) Patient Rounds

Thursday PM (5 PM - 6 PM) Stroke Clinical Case Conference

Friday AM (8 AM - 9 AM) Neurology Grand Rounds

Friday AM (9 AM - 12 PM) Patient Rounds

Friday PM (1 PM - 2 PM) Neuro-Oncology Tumor Board

Friday PM (2 PM - 5 PM) Patient Rounds

What Students Should do to Prepare for the Rotation: Thorough understanding of the basic neurosciences.

Clinical Responsibilities of the Student: Rounds, new inpatient visits, and daily pre-rounding on their assigned patients.

Patient Care Responsibilities: Rounds with Attending Physician, Initial Pt evaluation

Call Schedule of the Student: 1 night per week, until 10pm.

Procedures Learned by the Student:

- Lumbar puncture

Percentage of Time Student will participate in Ambulatory Setting: 0-5% this is predominantly an inpatient rotation.

Conference/Lecture/Small Group Sessions:

All students will participate in the same schedule of Neurology conferences, and didactics.

All students will participate in one week of Neurology Stroke service, one week of Neuro-critical care, and two weeks of Neurology Non-stroke service clinical experience. This particular separation of duties was chosen to ensure an enriched diverse clinical experience.

List the required rotations that are part of the clerkship, and the average amount of time spent in each

Neurology inpatient Stroke service - 1 week

Neurology inpatient Non-stroke service - 2 weeks

Neuro-critical Care service - 1 week

Course Hours Weekly Summary:

2.5	Conference
1	Grand Rounds
2	Lecture
1	Patient-Care Activities

28	Ward Rounds
2	Other
36.5	Approx. Total

Content Theme Integration: Integrate brain structure and function of the nervous system with internal medicine and psychiatry.

Required Reading List:

Readings will be assigned

- Aminoff M.A., Clinical Neurology 5th Ed., Lange Medical, 2007.
- Gelb D.J., Introduction to Clinical Neurology 4th Ed., Oxford University Press, 2011.

Recommended:

- Hal Blumenfeld, MD PhD, Neuroanatomy Through Clinical Cases. 2nd edition. Sinauer Associates Inc Publishers, Sunderland, MA. 2010.
- Michael Benatar, Bernard S. Chang, Juan A. Acosta, Andrew Tarulli, Louis R. Caplan. Blue Prints Neurology, 3rd edition. Lippincott Williams & Wilkins, Philadelphia, PA. 2009.

Optional:

- various EBOOKS available through Grunigen Medical Library website.

Official Grading Policy: The student will receive a grade of Honors, Pass or Fail. The student's final grade will be submitted on the standard UCI elective form. If the student fails the elective a grade of "F" will be permanently recorded on his/her transcript. The student can repeat the course for a second grade; however, the "F" will not be removed from the transcript.