

Faculty Directors:	Ryan Stork, MD and Stacey Hall, DO
Participating Faculty:	Faculty in the Department of Physical Medicine and Rehabilitation
Location:	TIRR
Prerequisites:	PMR 3030, or PMR4001
Blocks Offered:	1 – 11, and 13
Max. # Students/4-week Period:	1

Course Objective

Material covered:

This elective will allow students to fully participate in rehabilitation management of persons with brain injuries and stroke. Throughout the rotation, students will be responsible for direct patient care, supervised by an attending physician and resident or fellow. Students will work with patients, families, the interdisciplinary team (physical therapists, occupational therapists, speech therapists, rehabilitation nurses, other physicians, neuropsychologists, research associates, case managers, social workers, and office staff).

By the end of this elective, the student will be able to:

- Demonstrate the clinical skills necessary to successfully evaluate persons with brain injuries and stroke, including a comprehensive history and physical examination;
- Understand the pathophysiology of brain injury and stroke, and its impact on recovery and outcome;
- Demonstrate an understanding of the psychosocial problems of brain injured patients and their families and others;
- Demonstrate competency of management of medical complications unique to brain injured patients such as agitation, methods and medications used to treat spasticity, seizure prophylaxis and treatment, and diagnosis and treatment of heterotopic ossification and hydrocephalus.

Students will attend multiple conferences each week as listed below:

- 1) Monday Noon Lecture (TIRR): Provided by multiple disciplines and persons about a current topic of interest to improve patient care of those in rehabilitation. Once a month in lieu of a lecture, the Unplanned Acute Care Transfers is held. This is a quality improvement/practice-based learning and improvement activity that seeks to improve patient care and develop open dialogue for residents, attending, and hospital staff to identify opportunities to improve inpatient rehabilitation care.
- 2) Tuesday Neurorecovery Research seminar series (TIRR Research Conference Room): Occurs biweekly. Topics include research advances in rehabilitation and technology. This is optional.
- 3) Thursday Morning Resident Didactic Series: All residents and medical students are required to attend three hours of didactic lecture on Thursday mornings. Topics include most areas of rehabilitation and presenters are MD/DO's.
- 4) Grand Rounds: Occurs on the third or fourth Friday every month.
- 5) Other educational activities such as Journal Club, Brain Injury Series, Spinal Cord Medicine Colloquium, and Neurobehavioral lecture series occur throughout the month.

Students will demonstrate the attainment of the above objectives through attendance and participation in clinical activities, didactic activities. Procedures are generally observed by students although students showing exceptional clinical knowledge and interested will be allowed to perform some procedures under supervision.

Activities Of Elective

Number Of New Patients/Student/Week: 3

Responsibilities Of Student For Assigned Patients:

Does history/physical:	Yes
Who critiques:	Attending and Resident/Fellow
Follows patients, with appropriate notes as needed:	Yes
Who supervises:	Attending and Resident/Fellow
Does student see ambulatory patients:	Yes

Procedures	Observe	Perform
Chemodenervation (as appropriate based on patient population)	Yes	Yes
Neurolysis (as appropriate based on patient population)	Yes	No

Scheduled Duties of Student:

Frequency of rounds on patients	Daily (Monday-Friday)
Presents patients to preceptor or attending physician	Yes
Weekly schedule of required teaching sessions	As outlined above

Other Required Activities:

	Reading/review of current literature	Yes
	Writing or presenting a paper	Yes

How Is Student Evaluated:

This elective is pass/fail. Students will be evaluated by faculty based on their attendance and participation in didactic sessions and attendance at clinical assignments and participation in clinical activities. The students are evaluated based on the demonstration of their accomplishment of the objectives.