



Brain Injury Rehabilitation Fellowship

The Department of Physical Medicine & Rehabilitation at Carolinas Medical Center (CMC)/Carolinas Rehabilitation (CR) offering a one-year fellowship in Brain Injury Rehabilitation for a board eligible/board certified physiatrist. One fellow will be selected for each academic year.

Carolinas Rehabilitation a part of Carolinas HealthCare System, manages 192 acute rehabilitation beds. CR has established inpatient programs in Traumatic Brain Injury (TBI), oncology, spinal cord injury (SCI), stroke, pediatrics, prosthetics/orthotics and orthopedics as well as an extensive network of MSK clinics. Our main facility located in Charlotte, NC is a tertiary neuro-trauma center with 30 beds dedicated to brain injury.

This fellowship allows for clinical and research opportunities and can be specifically designed to meet the candidate's interest. Clinical opportunities include inpatient and outpatient management of TBI patients with a focus on treatment of active medical problems, neuropharmacological trials, neuropsychological evaluations and procedural management of spasticity. The clinical experience also provides time for learning opportunities with neuroradiologists, neurosurgeons and trauma surgeons located at the CMC Level I Trauma Center, adjacent to CR.

Interested candidates must have excellent clinical and academic credentials, be highly motivated and desire a challenging clinical/research environment.

Program Objectives: By completion of this program, the Fellow will be able to demonstrate:

1. An improved knowledge and understanding of the medical and rehabilitation needs of patients with acquired brain injury in the acute care, inpatient and outpatient rehabilitation settings.
2. An understanding of neurobehavioral anatomy and how it relates to the clinical syndromes demonstrated by patients with acquired brain injury.
3. An improved knowledge and understanding in the neuropharmacologic management of post traumatic agitation and psychostimulant trials for prolonged post-traumatic unconsciousness.
4. Knowledge and competent clinical skill in the management of spasticity, including medication management, phenol neurolytic blocks, botulinum toxin injections and intrathecal baclofen.
5. The ability to perform a comprehensive musculoskeletal and neurological examination, including a comprehensive mental status examination.
6. Improved knowledge and understanding of common medical complications associated with brain injury and proper management of problems.
7. Improved knowledge and management skills in the treatment of patients with mild TBI, including post-concussion symptoms.
8. A thorough knowledge and understanding of management of common post-concussion symptoms including headache, dizziness, irritability and cognitive impairment.
9. The ability to evaluate CT and MRI scans and to integrate this knowledge into the clinical



- management of acquired brain injury.
10. Improved understanding and knowledge in the evaluation of patients with hydrocephalus.
 11. Improved understanding of available neuropsychological batteries and their inherent strengths and weaknesses.
 12. The ability to provide accurate prognostic information at both the acute care consultative level and at the rehabilitative functional outcome level.
 13. Leadership skills in the management of a treatment team and in the brain injury healthcare community.
 14. The ability to develop clinical research ideas that would improve the management and outcome of acquired brain injury survivors.
 15. The ability to develop an understanding of the physiatrist's role in the medical, legal, and ethical issues as it relates to the degree of severity of the TBI and subsequent patient issues.
 16. The ability to develop skills as a teacher and educator of resident physicians and allied healthcare professionals on topics in TBI.

Curriculum: Please refer to the sample curriculum. This example outlines a fellowship program with a 70% clinical and 30% research mix.

Requirements: Completion of an accredited residency program in Physical Medicine and Rehabilitation and eligible for medical licensure in North Carolina.

Salary/Benefits: \$60,691 Salary
\$1,900 C M E allowance
Full benefits including 15 days paid vacation

Training Period: One year

Start Date: July/August

Location: Carolinas Rehabilitation is located within two miles of the heart of uptown Charlotte. Charlotte offers a wide array of cultural, dining and recreational activities. Charlotte is also conveniently located within two hours of the Great Smoky Mountains and three hours of Charleston, SC and other oceanfront communities.

Sample Curriculum Schedule:

Monday	Tuesday	Wednesday	Thursday	Friday
Inpatient Rounds	Inpatient Rounds Care Team I	Inpatient Rounds Care Team II	Inpatient Rounds	Inpatient Rounds
Lunch/Didactics	Lunch/Didactics	Lunch/Didactics	Lunch/Conference	Lunch/Grand Rounds
Admissions	Outpatient Clinic Admissions	Admissions	Outpatient Clinic Admissions	Admissions

Clinical:

Inpatient Service (*six to nine months*): Management of inpatients daily and leadership of a team of therapists involved in care.

Clinic (*full year*): Two half-day clinics/week (up to eight patients/clinic; new/established). Clinic volume will include significant diversity of TBI patients including a large number of mild TBI patients.

Specialty clinics (*as available or during non-inpatient months*): Baclofen clinic (1st and 3rd Monday); Botox clinic (3rd Fri AM); Adult Hydrocephalus clinic (once/month); Neuropsychology clinic; Movement disorder clinic

Other: Acute care TBI consults; Neuroradiology film reading; Neuropsychological testing; outpatient therapies (driving evals, vestibular evals); vocational rehab/services; TBI Support Group

Education:

Grand Rounds

Formal presentation to the local healthcare community (Twice per year).

Journal Clubs; Didactics

Regular participation in resident education and allied healthcare.

Call Responsibilities:

Short call (rounding/dictating progress notes on 30-50 patients); six to eight Saturdays per year. Two holiday coverage call assignments. No pager call.

Faculty: The faculty includes multiple physiatrists with specific interests and care responsibilities in the management of brain injury. Additional faculty includes: neuroradiologists, neurosurgeons, trauma surgeons, neuropsychologists and research staff.

Vu Nguyen, MD	Residency Program Director, Medical Director, Stroke Rehabilitation
Kelly Crawford, MD	Medical Director, Traumatic Brain Injury
William L. Bockenek, MD	Chief Medical Officer, CR Chairman, Department of PM&R
Leon Chandler, MD	Medical Director, PM&R Consult Service, CMC
Tobias Tsai, MD	Medical Director, PM&R Pediatric Rehab, LCH
Robert Mittl, MD	Neuroradiology, CMC

C. Scott McLanahan, MD	Neurosurgeon
Michael Thomason, MD	Chairman, Trauma Surgery, CMC
Janet Niemeier, Ph.D.	Research Group Director, CR
Mark Hirsch, Ph.D.	Senior Scientist, CR
Tami Guerrier	Assistant Director of Research, CR

For more information, please send cover letter and curriculum vitae

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