Pediatric Neurorehabilitation Elective
Competency Based Goals and Objectives

**Patient Care.** Provide family centered patient care that is developmentally and age appropriate, compassionate, and effective for the treatment of health problems and the promotion of health.

Objectives:
- Efficiently perform a focused history and physical examination targeted on neurorehabilitation and effectively generate a comprehensive problem list
- Incorporate pertinent medical issues into therapy orders and accurately define patient precautions
- Understand the role of orthotics and durable medical equipment in the rehabilitation of patients with brain injury or stroke
- Define short and long term goals for patients
- Understand the role of neuropsychological evaluations in the development of rehabilitation goals of patients with brain injury or stroke
- Evaluate mobility and self-care dysfunctions
- Evaluate ambulation deficits through gait analysis, and develop treatment plans and determine appropriate assistive devices needs.
- Understand the role of long-term care facilities, such as Ranken Jorden, in the management of pediatric neurorehabilitation patients

**Medical Knowledge.** Understand the scope of established and evolving biomedical, clinical, epidemiological, and social-behavioral knowledge needed by a pediatric neurologist; demonstrate the ability to acquire, critically interpret, and apply this knowledge in patient care.

Objectives:
- Recognize common neurosurgical disorders that result in brain injury and/or stroke including aneurysms, tumors, arteriovenous malformations, and traumatic brain injury, and their associated prognoses
- Understand the role and limitations of neuro-stimulations in the rehabilitation of patients with brain injury or stroke
- Understand how to evaluate a patient for returning to school and understand role of educational advocate in developing support and interventions in the school district
- Diagnose and treat agitation using pharmacologic and non-pharmacologic interventions
- Understand and interpret variables that affect prognosis after brain injury including extent of injury, Glasgow Coma Scale (GCS), trauma scores, age, premorbid function and neurophysiological data

**Interpersonal and Professional Communication.** Demonstrate interpersonal and communication skills that result in information exchange and partnering with patients, their families, and professional associates.

Objectives:
• Provide clinical assessment of cases to faculty, using correct terminology and with explanation of rationale based on appraisal of available clinical, laboratory, neuroimaging data
• Interact in a collegial way with staff, including nurses, nurse practitioners, therapists, and social workers, with goal of providing optimal patient care
• Communicate effectively with patients and their families to obtain clinically relevant information and deliver diagnosis and treatment plan in an easily understood and culturally sensitive manner
• Maintain comprehensive, timely, and legible medical records
• Communicate effectively with consulting colleagues and health care professionals
• Develop skills to interview cognitively impaired patients
• Recognize how to implement safe techniques during an encounter with an agitated patient

**Professionalism.** Demonstrate a commitment to carry out professional responsibilities, adherence to ethical principles, and sensitivity to diversity.

**Objectives:**
• Be present and participate in rounds and case discussions
• Admit errors or omissions and takes steps to correct them
• Protect patient privacy
• Demonstrate sensitivity to race, gender, ethnic background, religion, sexual orientation, and other social factors in dealing with patient care and interactions with other providers and other learners
• Treat colleagues at all levels with respect

**Practice-based Learning and Improvement.** Demonstrate knowledge, skills, and attitudes needed for continuous self-assessment, using scientific methods and evidence to investigate, evaluate, and improve one’s patient care practice.

**Objectives:**
• Participate in interdisciplinary meetings involving neurology, physical therapy, occupational therapy, speech therapy, and music therapy on Monday and Thursday afternoons for inpatient neurorehabilitation patients
• Perform examinations and develop diagnostic and therapeutic plans under the supervision of the neurorehabilitation attending physician
• Prioritize clinical responsibilities, provide timely service, and seek appropriate consultation and support when necessary
• Integrate feedback from preliminary diagnostic errors to improve diagnostic accuracy
• Identify strengths, deficiencies, and limits to knowledge and expertise
• Access learning sources (textbooks, medical literature, online resources) to fill gaps in knowledge that are identified during case discussions
• Participate in the education of students, residents, and other health care professionals

**Systems Based Practice.** Understand how to practice quality health care and advocate for patients within the context of the health care system.
Objectives:

- Understand the concepts of cost containment and cost effectiveness that may be employed in an inpatient and outpatient rehabilitation service
- Understand the role of insurance and health care coverage on accessibility and implementation of rehabilitation services
- Describe methods for ensuring the physician and rehabilitation service use scarce resources in a sound, thoughtful, and cost-effective manner