Neuropathology 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:
- Review patient history and current patient presentation to establish a differential diagnosis
- Integrate case history, physical examination, and neuroimaging data with neuropathological data to narrow differential diagnosis, inform additional studies, and ultimately guide treatment recommendations

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:
- Review the basics of neuropathology in a highly interactive team environment
- Recognize the normal gross and microscopic features of the central nervous system and peripheral nervous system
- Gain familiarity with commonly used predictive and prognostic markers in neuro-oncological conditions including use of immunohistochemistry (IHC) and genetic analysis

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 and neuropathological data
- Interact in a collegial way with technical staff, including histotechnologists, pathology assistants, and transcriptionists, with goal of providing optimal patient care
- With direction, notify treating physicians of unexpected diagnoses

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

Objectives:
- Adhere to daily schedule of events by attending teaching conferences, neuro-autopsy brain cutting, neuro-autopsy microscopic review, and neuromicroscopic review sessions.
- Be present and ready for sign-out at the agreed time
- 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:

• Prepare neurologically oriented case histories on all neuro autopsies

• 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:

• Describe the responsibility of the individual physician to the patient, the practice, and the overall health care system in the context of the neuropathology services

• Describe methods for ensuring the physician and service use scarce resources in a sound, thoughtful, and cost-effective manner