LEARNING OBJECTIVES: <u>EL PATHOLOGY NEUROPATHOLOGY ELECTIVE</u>

Overarching Goals of Curriculum	Elective objectives: By the end of the rotation, students will be expected to:	Where/how taught *(location or learning activity)*	Taught by *(attending, fellows, etc.)*	How student's achievement of objective is assessed *(assessment method)*	How feedback is given *(feedback method)*	Quantity target *(target number of patients/ events during rotation)*
1, 2, 3, 4, 5, 6, 7, 8	**1. Knowledge/diagnostic skills**: Know the intelligent analysis of structural features in tissues for a variable extensive diagnosis process					
	a. Understand the basic principle behind routine and immunohistochemical stains that are commonly used in neuropathology.	Signout microscope	Vortmeyer	On site by instructor	Directly by instructor	10
	b. Describe succinctly and accurately the postmortem brain grossly and microscopically.	Autopsy suite	Vortmeyer	On site by instructor	Directly by instructor	5 to 15
	c. Understand the reason why various routine histochemical and enzyme histochemical stains are needed for the evaluation of the skeletal muscle	Signout microscope	Vortmeyer	On site by instructor	Directly by instructor	3
	d. Develop knowledge on histological and biological differences among common brain tumors, and on the principle of histological grading, if applicable.	Signout microscope	Vortmeyer	On site by instructor	Directly by instructor	5
	e. Describe salient neuropathological features in various neurological disorders including neurodegenerative and metabolic disorders	Signout microscope	Vortmeyer	On site by instructor	Directly by instructor	10
	f. Understand the processing and handling of "excess" tissues for banking and translational research	Smilow tissue accession suite	Vortmeyer	On site by instructor	Directly by instructor	10
	g. Communicate pathologic findings in a variety of clinical, educational or academic conferences	Conference sites				
	h. Evaluate consultation cases	Signout microscope	Vortmeyer	On site by instructor	Directly by instructor	5
	i. Translate histologic findings into collaborative and primary academic efforts including biochemical and molecular tissue analysis and the interpretation of the results, funded by and supporting:	Student desk	Vortmeyer	On site by instructor	Directly by instructor	1-2
	• Department of Neurosurgery (research in brain tumors and epilepsy) • Department of Psychiatry (dementia research) • Department of Neurology (research in neuromuscular disease) • National Institute of Neurological Diseases and Stroke					

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4	**2. Laboratory Procedural Skills:** Students will perform the following:					
	a. Handle different types of tissue (muscle, CNS and PNS, for example) proficiently	Smilow tissue accession suite	Vortmeyer	On site by instructor	Directly by instructor	5
	b. Procurement, documentation and processing of patient tissues obtained from surgical resection or biopsy	Smilow tissue accession suite	Vortmeyer	On site by instructor	Directly by instructor	10
	c. Histopathologic evaluation of specimens and the initiation of special studies if necessary	Signout microscope	Vortmeyer	On site by instructor	Directly by instructor	20
	d. Histopathologic evaluation and selection of case material for specific molecular tests	Signout microscope	Vortmeyer	On site by instructor	Directly by instructor	5
	e. Finalization of neuropathology diagnostic reports	Signout microscope	Vortmeyer	On site by instructor	Directly by instructor	20
	f. Intraoperative frozen section consultation	Smilow tissue accession suite	Vortmeyer	On site by instructor	Directly by instructor	5-10
	g. Evaluation of autopsy brain and spinal cord tissue including gross examination, histopathologic evaluation with special studies and finalization of an autopsy report	Autopsy suite	Vortmeyer	On site by instructor	Directly by instructor	5-15
4, 5, 6	**3. Attitude:** Demonstrate professional responsibility in working as a team member with other members of the Laboratory medicine team. a. The student should exhibit honesty, accuracy and integrity in all interactions with staff, residents, attendings, fellows, and others.	All sites listed above	Vortmeyer	On site by instructor	Directly by instructor	n/a
5, 6, 8	**4. Career/context**: Know the theoretical, technological, and clinical underpinnings of the specialty of Laboratory Medicine a. Know the training pathways for Anatomic Pathology b. Know 3 aspects of career satisfaction in this specialty c. Know key roles that Anatomic Pathology plays in the health care system	Any training site	Vortmeyer	On site by instructor	Directly by instructor	n/a