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Neuroanatomy of the Pituitary With Clinical and Surgical Correlations for the REI

Faculty Mentor: Alice Rhoton-Vlasak, M.D.
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Research Project Description: The goal of this project is to review both 2D and 3D images of the neuroanatomy of the hypothalamus and pituitary. It will be consolidated into a visual tour of this anatomy. The goal is to show the normal relationships anatomically with pathological correlations such as pituitary adenomas, optic chiasm and percussion, and visual field defects. The hypothesis is that understanding the neuroanatomy will improve understanding of clinical syndromes that arise with diseases in this part of the brain as it relates to reproduction.

Methods: Literature review, review of photos taken in neuroanatomy lab at the University of Florida. The medical student will work with Dr. Rhoton, as well as a neurosurgical photo journalist and the neurosurgeon, Dr. Rhoton to find the best images to display the neuroanatomy of reproduction.

Goal: To ultimately describe this with clinical correlations and publication of a paper with these images and clinical anatomical correlations. There is no funding available.