Endoscopic Transsphenoidal Pituitary Surgery: Pituitary Microadenoma: 3-Dimensional Operative Video

Jason Chu, MD, MSc, Nelson M. Oyesiku, MD, PhD
Department of Neurosurgery, Emory University School of Medicine, Atlanta, Georgia

This video demonstrates an endoscopic transsphenoidal resection of an corticotropin-secreting pituitary microadenoma. The patient is a 62-year-old man who was found to have a 5-mm pituitary adenoma after he exhibited signs and symptoms of Cushing disease. His endocrine laboratory studies confirmed central hypercortisolism. This video highlights dissection of the adenoma pseudocapsule from the remainder of the pituitary gland for tumor removal. A gross total resection was achieved, and his postoperative cortisol levels were consistent with a biochemical cure of his Cushing disease. Figures and captions for relevant anatomy during tumor resection are depicted at the end of the video.

The 3-D video can be viewed at http://bit.ly/1sVv0zZ or to view on a mobile device, scan this QR Code to link to an anaglyph (red/green) version of this 3-D video.

Disclosure
Dr Oyesiku is a consultant for Visionsense, Ltd. Dr Chu has no personal, financial, or institutional interest in any of the drugs, materials, or devices described in this article.

Watch now at http://bit.ly/1sVv0zZ