



Anterior Inter-hemispheric Transcallosal Approach for Resection of Colloid Cyst: A Video Abstract

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Abstract	Background Although histologically benign, colloid cysts have been an entity of
	interest to neurosurgeons due to the wide array of possible presentations ranging from
	asymptomatic to high ICP symptoms to sudden death. It is estimated that colloid cysts
	represent 0.3 to 2% of all brain tumors. ¹
	As they are typically located in the third ventricle, multiple approaches have been adapted and developed for the maximum resection with the least complications given the sensitive anatomy in the area. ^{1,2} The interhemispheric transcallosal approach can be safely performed to fully resect a third ventricle colloid cyst with close to zero recurrence rate and minimal to none permanent deficits. ³ This video is an educational illustration of the surgical technique and the related anatomy for the interhemispheric transcallosal approach and how to provide best chances of a benign postoperative course.
	Case Description In this surgical video, we present a case of a 20-year-old male, a known case of hypertension and un-controlled diabetes type-1, presented to our hospital with on and off headache, dizziness, and diplopia that gradually progressed. His neurological exam was unremarkable including memory function. CT and MRI scans demonstrated a rounded sharply demarcated lesion at the at the roof of the third ventricle, measuring 1×1 cm in size. The patient underwent an anterior inter-
Keywords	hemispheric transcallosal approach, with gross total resection of the cyst. In the
 colloid cyst 	follow-up office visit, the patient headache has resolved, and he had no seizures with
 transcallosal 	preserved memory functions.
approach	Conclusion When removal of the colloid cyst is indicated, the interhemispheric
 interventricular 	transcallosal approach can be performed safely with gross total resection and minimal
tumor	neurological deficit. This is a surgical demonstration of the transcallosal approach
 hydrocephalus 	showcasing the surgical corridors and related anatomy.

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Annotation

- 1. 00:00-00:22 _Clinical presentation.
- 2. 00:23–01:08 _Preoperative imaging.
- 3. 01:09–01:27 _Rational, positioning, and surgical planning.
- 4. 01:28-04:40 _Procedure video.
- 5. 04:41-05:03 _Postoperative imaging.
- 6. 05:04-05:14 _Surgical outcome and follow up

Video 1

Anterior Inter-hemispheric Transcallosal Approach for Resection of Colloid Cyst: A Video Abstract. Online content including video sequences viewable at: https:// www.thieme-connect.com/products/ejournals/html/ 10.1055/s-0042-1759887. Conflicts of Interest None declared.

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