Mini-pterional approach for clip ligation of ethmoidal dural arteriovenous fistula

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Ethmoidal dural arteriovenous fistulas (DAVFs) have a near-universal association with cortical venous drainage and a malignant clinical course. Endovascular treatment options are often limited due to the high frequency of ophthalmic artery ethmoidal supply. A 64-year-old gentleman presented with syncope and was found to have a right ethmoidal DAVF. Rather than the traditional bicoronal craniotomy, an endoscope-assisted mini-pterional approach for clip ligation is demonstrated. The mini-pterional craniotomy allows a minimally invasive approach to ethmoidal DAVF via a lateral trajectory. The endoscope can help achieve full visualization in the narrow corridor.

The video can be found here: <https://youtu.be/ZroXp-T35DI>.

KEYWORDS mini-pterional; ethmoidal; dural arteriovenous fistula; bicoronal; video

SUBMITTED November 30, 2018. **ACCEPTED** February 11, 2019.

INCLUDE WHEN CITING Published online April 1, 2019; DOI: <http://thejns.org/doi/abs/10.3171/2019.2.FocusVid.18660>.

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