Microsurgical treatment of a tentorial galenic dural arteriovenous fistula

Omar Choudhri, MD, and Gary K. Steinberg, MD, PhD

Stanford University Medical Center, Department of Neurosurgery, Stanford, California

Tentorial dural arteriovenous fistulae (TDAVFs) are complex lesions with the arteriovenous fistula located between the leaves of the tentorium cerebelli. While a large portion of dural arteriovenous fistulae are treated endovascularly, TDAVF may require additional microsurgical treatment given their high risk of hemorrhage and multitude of feeders. We describe the case of a 65-year-old male who presented with hemorrhage from a straight sinus and galenic TDAVF. The straight sinus portion of the fistula was obliterated by 3 endovascular treatments and 1 microsurgical treatment. The galenic component of the TDAVF persisted and was approached via a posterior interhemispheric approach in a lateral position. This video demonstrates surgical technique and anatomy associated with this rarely seen dural arteriovenous fistula.

The video can be found here: <https://youtu.be/iOLzWOabLZ0>.

KEYWORDS galenic fistula; tentorial incisura; supracerebellar infratentorial; microsurgery; dural arteriovenous fistula; tentorial fistula; vein of Galen; video

SUBMITTED August 31, 2015. **ACCEPTED** October 13, 2015.

INCLUDE WHEN CITING Published online January 1, 2016; DOI: <http://thejns.org/doi/abs/10.3171/2016.1.FocusVid.15420>.

CORRESPONDENCE Gary K. Steinberg, MD, PhD, Department of Neurosurgery, Stanford University School of Medicine, Stanford, CA 94305-5327. email: gsteinberg@stanford.edu.