

Fusiform anterior cerebral artery aneurysm

Fusiform [anterior cerebral artery aneurysms](#) (ACA) are uncommon, and the natural history of this entity is poorly characterized.

Conte et al. conducted a systematic literature review to help shed light on the clinical course of ACA fusiform aneurysms. They queried the [institutional](#) database to identify cases with fusiform aneurysms of ACA. In addition, following the [PRISMA](#) algorithm, they identified all reported cases published in the English literature from the inception of PubMed until December 2022. They categorized clinical presentations into three categories: (i) traumatic/iatrogenic, (ii) spontaneous symptomatic ruptured/unruptured, and (iii) spontaneous asymptomatic aneurysms. We utilized descriptive statistics. We identified seven cases from our center along with 235 patients from published literature. Blunt trauma was responsible for the development of 19 aneurysms. Sixty-three percent of these aneurysms tend to rupture within 2 weeks from the initial trauma, and despite treatment, only 74% of these patients had good clinical outcomes. Spontaneous symptomatic presentation occurred in 207 patients and was often associated with previous/concomitant ACA dissection. Subarachnoid hemorrhage from ruptured aneurysms was the most common presentation. Spontaneous symptomatic fusiform aneurysm is rapidly evolving lesions, and treatment is necessary. Three of our own cases were treated with an endovascular flow diverter (pipeline) stenting with good outcomes. Spontaneous asymptomatic aneurysms were reported in nine patients. These lesions are often associated with other vascular abnormalities. Treatment included surgical clipping with good clinical outcomes. Instead, four patients from our center database were managed conservatively with equally good outcomes. Our study demonstrates good clinical outcomes when fusiform aneurysms of ACA, especially when symptomatic, are treated promptly with either reconstructive or deconstructive therapies ¹⁾

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Conte M, Cagil E, Lanzino G, Keser Z. Fusiform aneurysms of anterior cerebral artery: center experience and systematic literature review. *Neurosurg Rev.* 2023 Dec 13;47(1):11. doi: 10.1007/s10143-023-02247-2. PMID: 38087068.

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