

Anterior communicating artery aneurysm computed tomography

SAH in [anterior communicating artery aneurysms](#) results in blood in the anterior [interhemispheric fissure](#) in essentially all cases, and is associated with [intracerebral hematoma](#) in 63% of cases ¹⁾. [Intraventricular hematoma](#) is seen in 79 % of cases, with the blood entering the ventricles from the intracerebral hematoma in about one-third of these. Acute hydrocephalus was present in 25% of patients (late hydrocephalus, a common sequela of SAH, was not studied). Frontal lobe infarcts occur in 20%, usually several days following SAH ²⁾. One of the few causes of the rare finding of bilateral ACA distribution infarcts is vasospasm following hemorrhage from rupture of an ACoA aneurysm. This results in prefrontal lobotomy-like findings of [apathy](#) and [abulia](#).

Weisberg reviewed the CT findings in 40 patients with ruptured aneurysms of the [anterior cerebral artery](#) or [anterior communicating artery](#). Within 3 days of the [ictus](#), the common patterns included blood in the [pericallosal cistern](#) and [interhemispheric fissure](#), blood in the caval-septal region, unilateral or bilateral frontal hematoma, and diffuse symmetric [intraventricular](#) and basal cisternal blood ³⁾.



Classification

For CT classification see the [Modified Fisher scale](#).

¹⁾ , ²⁾

Yock DH, Larson DA. CT of Hemorrhage from Anterior Communicating Artery Aneurysms, with Angiographic Correlation. Radiology. 1980; 134:399-407

³⁾

Weisberg LA. Ruptured aneurysms of anterior cerebral or anterior communicating arteries: CT patterns. Neurology. 1985 Nov;35(11):1562-6. PubMed PMID: 4058745.

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