

Anterior communicating artery aneurysm clinical features

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[Anterior communicating artery aneurysms](#) are usually silent until they rupture.

Suprachiasmatic pressure may cause altitudinal [visual field](#) deficits, [abulia](#) or [akinetic mutism](#), [amnesia](#), or [hypothalamic dysfunction](#).

Neurologic deficits in aneurysmal rupture may reflect [intraventricular hemorrhage](#) (79%), [brain hemorrhage](#) (63%), acute [hydrocephalus](#) (25%), or [frontal lobe signs](#) (20%).

May also present with [diabetes insipidus](#) (DI) or other [hypothalamic dysfunction](#).

Visual symptoms

see [Anterior Communicating Artery Aneurysm Visual Symptoms](#)

Hyponatremia

Sayama et al. studied the incidence and timing of [hyponatremia](#) ($\text{Na} < 135 \text{ mEq l}^{-1}$) after subarachnoid hemorrhage (SAH) with special reference to ruptured anterior communicating artery (A-com) aneurysms. Hunt and Kosnik (HK) grading, symptomatic vasospasm in A-com aneurysm, and hydrocephalus were analyzed for connections to hyponatremia in 55 patients with ruptured A-com aneurysms, 65 with ruptured internal cerebral artery (ICA) aneurysms, and 49 with ruptured middle cerebral artery (MCA) aneurysms. Hyponatremia occurred in 28 (51%) of 55 patients with A-com aneurysms and in nine (18%) of 49 patients with MCA aneurysms. Severe hyponatremia ($\text{Na} < 130 \text{ mEq l}^{-1}$) occurred in 16 patients (29%) in the A-com group, four patients (6%) in the ICA group, and

three patients (6%) in the MCA group. The A-com aneurysm group had a significantly higher incidence of mild hyponatremia ($p < 0.01$) and severe hyponatremia ($p < 0.001$) than other groups. Among A-com cases, hyponatremia occurred significantly more often in HK grade III and IV cases ($p < 0.05$), in cases with vasospasm ($p < 0.001$), and in cases with hydrocephalus ($p < 0.01$). Respective days of onset for symptomatic vasospasm and for hyponatremia were day 7.6 $\pm$ 4.4 and day 10.6 $\pm$ 5.8 following SAH, representing a 3-day delay for hyponatremia ($p < 0.05$). In most patients hyponatremia resolved within 28 days following SAH. Hyponatremia occurred more often with A-com aneurysms, possibly because of vasospasm around the A-com or hydrocephalus causing hypothalamic dysfunction. Since hypervolemic therapy can cause hyponatremia, particularly careful observation is required during such therapy in patients with A-com aneurysm ¹⁾.

Amnesia

Talland et al reported in 1967 a amnesic syndrome with anterior communicating artery aneurysm ²⁾.

References

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Sayama T, Inamura T, Matsushima T, Inoha S, Inoue T, Fukui M. High incidence of hyponatremia in patients with ruptured anterior communicating artery aneurysms. *Neurol Res.* 2000 Mar;22(2):151-5. PubMed PMID: 10763501.

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