

Intracranial aneurysm surgery

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The idea of [unruptured intracranial aneurysm screenings](#) is interesting because, despite recent advances in surgical and [endovascular treatment](#), the [mortality](#) related to [aneurysmal subarachnoid hemorrhage](#) reaches 30%.

In general, surgically managed patients include those with parenchymal hematoma and large aneurysm, while endovascular therapy is preferred in elderly, patients with significant co-morbidity, poor grades and basilar artery aneurysm ¹⁾.

Intravascular volume and electrolyte status should dictate the type and quantity of fluids, with a goal to maintain euvolemia and normal electrolyte function.

In aneurysmal subarachnoid haemorrhage, endovascular or surgical exclusion of the aneurysm responsible for the bleeding is mandatory to prevent re-bleeding.

The recent guidelines on management of aneurysmal subarachnoid hemorrhage (aSAH) advise pharmacological thromboprophylaxis (PTP) after aneurysm obliteration.

The initiation of PTP within 24 hours may be safe after the treatment of a ruptured aneurysm or in angiogram-negative SAH patients with diffuse aneurysmal hemorrhage pattern. We suggest caution with concomitant use of PTP and dual antiplatelet agents, because it possibly increases the risk for intracerebral hemorrhage ²⁾.

Racial and socioeconomic factors are associated with delayed time to treatment in aSAH. Identification of factors underlying these delays and standardization of care may allow for more uniform treatment protocols and improved patient care ³⁾.

Aneurysm occlusion can be performed in the daytime within 72 hours after ictus, instead of on an emergency basis. However, due to the retrospective, non-randomized design of the study of Oudshoorn et al., the results cannot be considered as definitive evidence ⁴⁾.

Intracranial aneurysm clipping

see [Intracranial aneurysm clipping](#).

1)

Connolly ES, Jr, Rabinstein AA, Carhuapoma JR, Derdeyn CP, Dion J, Higashida RT, et al. Guidelines for the management of aneurysmal subarachnoid hemorrhage: A guideline for healthcare professionals from the American Heart Association/American Stroke Association. *Stroke*. 2012;43:1711-37.

2)

de Oliveira Manoel AL, Turkel-Parrella D, Germans M, Kouzmina E, da Silva Almendra P, Marotta T, Spears J, Abrahamson S. Safety of early pharmacological thromboprophylaxis after subarachnoid hemorrhage. *Can J Neurol Sci*. 2014 Sep;41(5):554-61. doi: 10.1017/cjn.2014.16. PubMed PMID: 25373803.

3)

Attenello FJ, Wang K, Wen T, Cen SY, Tenser MK, Amar AP, Sanossian N, Giannotta S, Mack WJ. Health Disparities in Time to Aneurysm Clipping/Coiling among Aneurysmal Subarachnoid Hemorrhage Patients: A National Study. *World Neurosurg*. 2014 Aug 28. pii: S1878-8750(14)00821-3. doi: 10.1016/j.wneu.2014.08.053. [Epub ahead of print] Review. PubMed PMID: 25175276.

4)

Oudshoorn SC, Rinkel GJ, Molyneux AJ, Kerr RS, Dorhout Mees SM, Backes D, Algra A, Vergouwen MD. Aneurysm Treatment <24 Versus 24-72 h After Subarachnoid Hemorrhage. *Neurocrit Care*. 2014 Mar 18. [Epub ahead of print] PubMed PMID:24639201.

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