

Unruptured intracranial aneurysm (UIA)

see also [International Study of Unruptured Intracranial Aneurysms](#).

Epidemiology

[Unruptured intracranial aneurysm epidemiology](#).

Natural history

[Unruptured Intracranial Aneurysm Natural History](#).

Prevalence

Higher in patients with [autosomal dominant polycystic kidney disease](#) (ADPKD) or a positive family history of [intracranial aneurysm](#) or [subarachnoid haemorrhage](#) than in people without comorbidity.

In Finland and Japan, the higher incidence of subarachnoid haemorrhage is not explained by a higher prevalence of UIAs, implicating higher risks of rupture ¹⁾.

During 1995 to 2004, a period of increasing neuroimaging utilization, Gabriel et al., did not observe an increased rate of detection of unruptured brain arteriovenous malformation (BAVM), despite increased detection of unruptured intracranial aneurysm (IA)s ²⁾.

Etiology

A analysis identified differentially expressed genes and [MicroRNAs](#) in unruptured human cerebral aneurysms, suggesting the possibility of a role for MicroRNAs in aneurysm formation ³⁾

Rupture risk

see [Unruptured intracranial aneurysm rupture risk](#)

Screening

see [Unruptured intracranial aneurysm screening](#).

Clinical features

Most unruptured [intracranial aneurysms](#) don't have symptoms. "Most of these patients are found incidentally, when they get an [MRI](#) scan or [computed tomography angiography](#) scan for something unrelated.

Diagnosis

see [Unruptured intracranial aneurysm diagnosis](#).

Treatment

see [Unruptured intracranial aneurysm treatment](#).

Outcome

[Unruptured intracranial aneurysm Outcome](#).

Case series

see [Unruptured intracranial aneurysm case series](#).

Case reports

[Unruptured intracranial aneurysm case reports](#).

¹⁾

Vlak MH, Algra A, Brandenburg R, Rinkel GJ. Prevalence of unruptured intracranial aneurysms, with emphasis on sex, age, comorbidity, country, and time period: a systematic review and meta-analysis. *Lancet Neurol*. 2011 Jul;10(7):626-36. doi: 10.1016/S1474-4422(11)70109-0. Review. PubMed PMID: 21641282.

²⁾

Gabriel RA, Kim H, Sidney S, McCulloch CE, Singh V, Johnston SC, Ko NU, Achrol AS, Zaroff JG, Young WL. Ten-year detection rate of brain arteriovenous malformations in a large, multiethnic, defined population. *Stroke*. 2010 Jan;41(1):21-6. doi: 10.1161/STROKEAHA.109.566018. Epub 2009 Nov 19. PubMed PMID: 19926839; PubMed Central PMCID: PMC2847493.

³⁾

Bekelis K, Kerley-Hamilton JS, Teegarden A, Tomlinson CR, Kuintzle R, Simmons N, Singer RJ, Roberts DW, Kellis M, Hendrix DA. MicroRNA and gene expression changes in unruptured human cerebral aneurysms. *J Neurosurg*. 2016 Dec;125(6):1390-1399. PubMed PMID: 26918470; PubMed Central PMCID: PMC5001931.

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