

Conditions associated with aneurysms

Conditions associated with [aneurysms](#)

1. [autosomal dominant polycystic kidney disease](#):
2. [fibromuscular dysplasia](#) (FMD): prevalence of [aneurysms](#) in renal FMD is 7%, in aortocranial FMD 21%
3. [arteriovenous malformations](#) (AVM) including [moyamoya disease](#)
4. [connective tissue diseases](#):
 - a) Ehlers-Danlos, especially type IV (deficient collagen type III) which also has a high rate of arterial dissection, including with angiography or coiling
 - b) [Marfan syndrome](#)
 - c) [pseudoxanthoma elasticum](#)
5. multiple other family members with [intracranial aneurysms](#). Familial intracranial aneurysm syndrome (FIA): 2 or more relatives, third-degree or closer, harbor radiographically proven intracranial aneurysms.
6. [coarctation of the aorta](#) ¹⁾
7. [hereditary hemorrhagic telangiectasia](#) ²⁾ ([Osler-Weber-Rendu syndrome](#))
8. [atherosclerosis](#) ³⁾.
9. [bacterial endocarditis](#)
10. [multiple endocrine neoplasia type 1](#) ⁴⁾.
11. [neurofibromatosis type 1](#) ⁵⁾.

Aneurysms associated with arteriovenous malformations (AVM) are well represented in the literature. Their exact etiology is poorly understood, but likely global hemodynamic changes coupled with vascular wall pathology play into their formation. Flow-related and intranidal aneurysms, in particular, appear to have an increased risk for hemorrhagic presentation. Treatment strategies for these aneurysms are particularly challenging ⁶⁾.

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Maher CO, Piepgras DG, Brown RD, Jr, et al. Cerebrovascular manifestations in 321 cases of hereditary hemorrhagic telangiectasia. Stroke. 2001; 32:877-882

³⁾

Longstreth WT, Koepsell TD, Yerby MS, et al. Risk Factors for Subarachnoid Hemorrhage. Stroke.

1985; 16:377-385

4)

Schievink WI. Genetics and aneurysm formation. Neurosurg Clin N Am. 1998; 9:485-495

5)

Schievink WI, Riedinger M, Maya MM. Frequency of incidental intracranial aneurysms in neurofibromatosis type 1. Am J Med Genet A. 2005; 134A: 45-48

6)

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