

Perimesencephalic Subarachnoid Hemorrhage Etiology

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95% of cases of [perimesencephalic subarachnoid hemorrhage](#) have a normal [cerebral angiography](#) and the source of bleeding is not identified; the cause is thought to be a venous bleed. This is referred to as [non-aneurysmal perimesencephalic subarachnoid hemorrhage](#).

Rare causes include [arteriovenous malformation](#), [dural arteriovenous fistula](#), trauma and vascular tumours.

The causes of [Perimesencephalic Subarachnoid Hemorrhage](#) suggest a venous or capillary rupture at the level of the [tentorial notch](#) ^{1) 2) 3)}

The other 5% of cases are due to a vertebrobasilar aneurysm and the prognosis is worse ^{4) 5)} Rare causes include arteriovenous malformation, dural arteriovenous fistula, trauma and vascular tumors ⁶⁾.

The vast majority of [perimesencephalic subarachnoid hemorrhage](#) cases are reported as negative-finding etiologies. Recently, high-resolution images allowed us to overcome the previous difficulty of finding the source of bleeding, which underlies the concept of a “negative finding”.

A venous etiology, hidden behind the tip of the [basilar artery](#); namely, the [lateral pontine vein](#).

Hafez et al highlight this type of aneurysm as a candidate source of perimesencephalic hemorrhage. This case may change our way of dealing with what we have termed a negative finding of subarachnoid hemorrhage ⁷⁾.

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Marder CP, Narla V, Fink JR, Tozer Fink KR. Subarachnoid hemorrhage: beyond aneurysms. *AJR Am J Roentgenol*. 2014 Jan;202(1):25-37. doi: 10.2214/AJR.12.9749. PMID: 24370126.

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