

Spinal dural arteriovenous fistula

[Spinal arteriovenous fistula](#) (SDAF) within the [dura](#).

see also [Dural arteriovenous fistula](#).

It is a connection between a [radicular artery](#) and a radicular vein, (there is no intervening nidus between a meningeal segmental artery and a radiculomedullary vein) resulting in venous hypertension and obstruction of the venous flow. Consequently, [edema](#) forms beneath the fistula and congestive ischaemia of the myelum develops.

Epidemiology

They are the most common type of [spinal arteriovenous malformation](#), especially in middle-aged men.

The annual incidence are 5-10 cases per million. The data on efficacy, recurrence rates and complications of [endovascular treatment](#) versus surgical treatment is limited.

Pathophysiology

The pathophysiology results in perimedullary venous congestion and in turn [spinal cord](#) congestion.

The craniocaudal extent of enlarged intrathecal veins draining SDAVF correlates with patient functional status, providing further insight into the pathophysiology of venous hypertensive myelopathy ¹⁾.

Diagnosis

[Spinal dural arteriovenous fistula diagnosis](#).

Scales

[Aminoff and Logue disability scale](#)

Differential diagnosis

[Spinal dural arteriovenous fistula differential diagnosis](#).

Treatment

[Spinal dural arteriovenous fistula treatment.](#)

Outcome

see [Spinal dural arteriovenous fistula outcome.](#)

Case series

[Spinal dural arteriovenous fistula case series.](#)

Case reports

[Spinal dural arteriovenous fistula case reports.](#)

References

¹⁾

Hetts SW, Moftakhar P, English JD, Dowd CF, Higashida RT, Lawton MT, Douglas VC, Halbach VV. Spinal dural arteriovenous fistulas and intrathecal venous drainage: correlation between digital subtraction angiography, magnetic resonance imaging, and clinical findings. J Neurosurg Spine. 2012 May;16(5):433-40. doi: 10.3171/2012.1.SPINE11643. Epub 2012 Feb 10. PubMed PMID: 22324803.

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