

Mesencephalic developmental venous anomaly

- [Mesencephalic Developmental Venous Anomaly Causing Obstructive Hydrocephalus Due to Aqueductal Stenosis](#)
- [Midbrain Cavernous Malformation: Microsurgical Nuances and an Anatomoclinical Review 2-Dimensional Video](#)
- [Mesencephalic developmental venous anomaly causing obstructive hydrocephalus: illustrative case](#)
- [Developmental venous anomaly causing obstructive hydrocephalus due to aqueductal stenosis: case report](#)
- [Biventricular hydrocephalus secondary to aqueductal developmental venous anomaly](#)
- [The developmental venous anomaly associated with the cavernous malformation](#)
- [A new strategic neurosurgical planning tool for brainstem cavernous malformations using interactive computer graphics with multimodal fusion images](#)
- [Unusual mesencephalic developmental venous anomaly causing obstructive hydrocephalus due to aqueductal stenosis](#)

Mesencephalic [developmental venous anomaly](#) (MDVA) is a rare vascular [abnormality](#) that involves the veins in the [midbrain](#) ([mesencephalon](#)), which is the part of the [brainstem](#) that connects the [brain](#) to the [spinal cord](#). It is also known as a developmental venous anomaly (DVA) of the midbrain.

MDVA is usually asymptomatic and is discovered incidentally on brain imaging studies such as magnetic resonance imaging (MRI) or computed tomography (CT) scans. It is thought to be a congenital malformation, meaning that it is present at birth and develops during fetal development.

MDVA is characterized by a group of veins that drain into a single larger vein, which then drains into a deeper venous structure called the basal vein of Rosenthal. It is usually not associated with any significant clinical consequences and does not require any specific treatment, although in rare cases it may be associated with hemorrhage or other neurological symptoms.

A 48-year-old female who presented with [depression](#). Computed tomography and magnetic resonance imaging (MRI) of the head revealed [obstructive hydrocephalus](#). Contrast-enhanced MRI revealed an abnormally distended linear region with enhancement on the top of the [cerebral aqueduct](#), which was confirmed as a DVA by [digital subtraction angiography](#). An [endoscopic third ventriculostomy](#) (ETV) was performed to improve the patient's symptoms. Intraoperative endoscopic imaging showed obstruction of the cerebral aqueduct by the DVA.

This report describes a rare case of obstructive hydrocephalus caused by DVA. It highlights the usefulness of contrast-enhanced MRI for diagnosing cerebral aqueduct obstructions due to DVAs and the effectiveness of ETV as a treatment option ¹⁾.

¹⁾

Hiraga K, Hayashi S, Oshima R, Kondo T, Kanamori F, Saito R. Mesencephalic [developmental venous](#)

Last update: 2024/06/07 02:57 mesencephalic_developmental_venous_anomaly https://neurosurgerywiki.com/wiki/doku.php?id=mesencephalic_developmental_venous_anomaly

[anomaly](#) causing obstructive hydrocephalus: illustrative case. J Neurosurg Case Lessons. 2023 Mar 20;5(12):CASE22563. doi: 10.3171/CASE22563. PMID: 36941200.

From: <https://neurosurgerywiki.com/wiki/> - **Neurosurgery Wiki**

Permanent link: https://neurosurgerywiki.com/wiki/doku.php?id=mesencephalic_developmental_venous_anomaly

Last update: **2024/06/07 02:57**

