

Cerebrospinal fluid shunt malfunction classification

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The main reasons for [shunt revision](#) were [undershunting](#) and [shunt infection](#), but [shunt overdrainage](#) and mechanical failure continue to pose problems.

[Shunt overdrainage](#)

[Shunt disconnection](#)

[Shunt obstruction](#)

[Shunt migration](#)

[Undershunting](#)

[Ventricular catheter misplacement](#)

Distal shunt malfunction due to a mechanical failure is a common reason for shunt revision ¹⁾.

As many as one third of patients presenting with shunt malfunction will not have the diagnosis of shunt malfunction supported by a prospective radiologic interpretation of brain imaging. Although the neurosurgical community can assess the clinical situation to determine the need for surgery, other clinicians can be easily reassured by a radiographic report that does not mention or diagnose shunt malfunction. Today, more than ever, nonneurosurgeons are being called on to evaluate complex clinical situations and may rely on radiographic reports ²⁾.

¹⁾

Sribnick EA, Sklar FH, Wrubel DM. A Novel Technique for Distal Shunt Revision: Retrospective Analysis of Guidewire-Assisted Distal Catheter Replacement. *Neurosurgery*. 2015 May 1. [Epub ahead of print] PubMed PMID: 25938689.

²⁾

Iskandar BJ, McLaughlin C, Mapstone TB, Grabb PA, Oakes WJ. Pitfalls in the diagnosis of ventricular

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PMID: 9606231.

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