

Secondary normal pressure hydrocephalus

Secondary [normal pressure hydrocephalus](#) (NPH) does indeed exist and should be differentiated from [idiopathic normal pressure hydrocephalus](#) (iNPH) based on outcome as well as clinical, pathophysiological, and epidemiological characteristics but should not be considered as a separate entity.

Evaluation of patients with NPH to identify a known cause is recommended because the response to treatment varies considerably. Although clinical presentation is often the same, a multitude of primary etiologies can lead to the development of sNPH. The most common etiologies of sNPH include [subarachnoid hemorrhage](#) SAH, [traumatic brain injury](#), intracranial malignancies, [meningitis](#), and [stroke](#). Further studies are required to investigate differences in management and outcome among the diverse etiologies of sNPH ¹⁾.

The first case of a DAVF presenting with symptoms mimicking idiopathic normal pressure hydrocephalus. After worsening of gait impairment, memory loss and urinary incontinence an urgent CT of the brain showed hydrocephalus and a hyperdense mass in the pineal region mimicking a pineal tumour; an emergent digital subtraction angiogram showed a left petrous apex Borden type III DAVF. A transvenous embolisation was performed obtaining a complete obliteration ²⁾.

¹⁾

Daou B, Klinge P, Tjoumakaris S, Rosenwasser RH, Jabbour P. Revisiting secondary normal pressure hydrocephalus: does it exist? A review. *Neurosurg Focus*. 2016 Sep;41(3):E6. doi: 10.3171/2016.6.FOCUS16189. PubMed PMID: 27581318.

²⁾

Guarrera B, Cavašin N, Rossetto M, Magrini S. Petrous apex's dural arteriovenous fistula (DAVF) mimicking a pineal region tumour: a rare cause of Hakim triad. *BMJ Case Rep*. 2022 Nov 24;15(11):e251342. doi: 10.1136/bcr-2022-251342. PMID: 36423936; PMCID: PMC9693661.

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