

Cerebrospinal fluid rhinorrhea

Etiology

Common etiologies of CSF rhinorrhea include trauma, neoplasms, and prior surgery, while CSF otorrhea is usually associated with craniocerebral trauma, neurosurgical procedures, or other conditions; however, both conditions may occur spontaneously ¹⁾.

[Nontraumatic cerebrospinal fluid fistula](#)

[Traumatic cerebrospinal fluid rhinorrhea](#)

[Sphenoid lateral recess Cerebrospinal fluid fistula](#)

Through [cribiform plate](#)

Endoscopic CSF fistula closure is a safe and effective operation. All sites of leak can be accessed endoscopically ²⁾.

Macroprolactinomas (MPRLs) may result in nonsurgical (spontaneous or dopamine agonist induced) cerebrospinal fluid (CSF) rhinorrhea; however, the incidence of and mechanisms underlying this phenomenon are poorly understood ³⁾.

¹⁾

May JS, Mikus JL, Matthews BL, Browne JD. Spontaneous cerebrospinal fluid otorrhea from defects of the temporal bone: a rare entity? Am J Otol. 1995 Nov;16(6):765-71. PMID: 8572139.

²⁾

Virk JS, Elmiyeh B, Saleh HA. Endoscopic management of cerebrospinal fluid rhinorrhea: the charing cross experience. J Neurol Surg B Skull Base. 2013 Apr;74(2):61-7. doi: 10.1055/s-0033-1333620. Epub 2013 Feb 13. PubMed PMID: 24436890; PubMed Central PMCID: PMC3699213.

³⁾

Suliman SG, Gurlek A, Byrne JV, Sullivan N, Thanabalasingham G, Cudlip S, Ansorge O, Wass JA. Nonsurgical cerebrospinal fluid rhinorrhea in invasive macroprolactinoma: incidence, radiological, and clinicopathological features. J Clin Endocrinol Metab. 2007 Oct;92(10):3829-35. Epub 2007 Jul 10. PubMed PMID: 17623759.

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