

# Cerebrospinal fluid total protein

Total [protein](#) levels in CSF are normally very low, and albumin makes up approximately two-thirds of the total. High levels are seen in many conditions including [bacterial meningitis](#) and [fungal meningitis](#), multiple sclerosis, tumors, subarachnoid hemorrhage, and traumatic tap.

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[Cerebrospinal fluid total protein](#) (CSF-TP)  $\times$  time  $\geq$  9,600 and GCS score <8 were independent risk factors for [posthemorrhagic hydrocephalus](#). CSF-TP was higher in the PHH group than in the NPHH group <sup>1)</sup>

see [Tau protein](#)

<sup>1)</sup>  
Wang Z, Chen Y, Zhou X, Wang C, Chen X, Min F, Liu R, Xiang H. Risk Factor of Posthemorrhagic Hydrocephalus: Cerebrospinal Fluid Total Protein. *Front Surg*. 2022 Feb 17;9:692383. doi: 10.3389/fsurg.2022.692383. PMID: 35252319; PMCID: PMC8891476.

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