Graeb Score

- Application of a simple scoring scale to predict prognosis of poor-grade subarachnoid haemorrhage using intraventricular haemorrhage
- MiR-34c Is Predictive of Delayed Cerebral Ischemia After Subarachnoid Hemorrhage
- Association of oral anticoagulants with risk of brain haemorrhage expansion compared to no-anticoagulation
- Incidence of Communicating Hydrocephalus Following Intraventricular Hemorrhage Among Adult Patients Treated at a Hospital in Jeddah, Saudi Arabia: A Retrospective Study
- Classification Prediction of Hydrocephalus After Intercerebral Haemorrhage Based on Machine Learning Approach
- Neurosurgical Intervention in Primary Intraventricular Hemorrhage : Experience from a Center in China
- Shunt-Dependent Hydrocephalus After Aneurysmal Subarachnoid Hemorrhage: Investigation of Prognostic Variables and Creation of a Stronger Predictive Model
- Non-vascular structural-related intraventricular hemorrhage: Epidemiology and literature review

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Intraventricular hematoma score.

see also LeRoux score.

Components

Each lateral ventricle

1 = trace of blood

2 = less than 50% filled

3 = more than 50% filled

4 = completely filled and expanded

3th and Fourth intraventricular hemorrhages

0 = no blood

1 = blood present, size normal

2 = filled with blood and expanded

Calculation

Graeb score = righ ventricular score + left ventricular score + 3th ventricular score + 4th ventricular score [1) 2)].

Retrospective case-control studies

A study suggests that elevated modified Graeb score on initial computed tomography and high cerebrospinal fluid protein levels prior to EVD wean are important prognostic indicators for the development of shunt dependency after aneurysmal SAH. Integrating these findings into clinical practice may aid in earlier and more targeted decision-making [3].

1)
Hwang BY, Bruce SS, Appelboom G, Piazza MA, Carpenter AM, Gigante PR, et al. Evaluation of intraventricular hemorrhage assessment methods for predicting outcome following intracerebral hemorrhage. J Neurosurg 2012; 116:185-192.
2)
Graeb DA, Robertson WD, Lapointe JS, Nugent RA, Harrison PB. Computed tomographic diagnosis of intraventricular hemorrhage. Etiology and prognosis. Radiology. 1982 Apr;143(1):91-6. PubMed PMID: 6977795.
3)
McMahon JT, Malcolm JG, Douglas JM, Greven A, Sadan O, Samuels OB, Cawley CM, Barrow DL, Grossberg JA, Howard BM. Shunt-Dependent Hydrocephalus After Aneurysmal Subarachnoid Hemorrhage: Investigation of Prognostic Variables and Creation of a Stronger Predictive Model. World Neurosurg. 2025 Jan 24;195:123659. doi: 10.1016/j.wneu.2025.123659. Epub ahead of print. PMID: 39778627.