

Modified Fisher Grading Scale for Subarachnoid Hemorrhage

- [Infection Associated with Global Cerebral Edema and Delayed Cerebral Ischemia in Patients with Aneurysmal Subarachnoid Hemorrhage](#)
- [Lack of association between chronological age and fisher group and poor outcomes in older patients with severe-grade aneurysmal subarachnoid hemorrhage: a nationwide registry study in Japan](#)
- [Pentraxin 3 as a Prognostic Biomarker in Aneurysmal Subarachnoid Hemorrhage](#)
- [Predicting early functional outcomes in aneurysmal subarachnoid hemorrhage in endovascular coiling and surgical clipping](#)
- [Continuous Intra-arterial Infusion of Verapamil for Severe Vasospasm Treatment After Subarachnoid Hemorrhage: A Case Report](#)
- [Grading Scores for Identifying Patients at Risk of Delayed Cerebral Ischemia and Neurological Outcome in Spontaneous Subarachnoid Hemorrhage: A Comparison of Receiver Operator Curve Analysis](#)
- [Spinal Drainage and Combined Pharmacotherapy as Potential Strategies to Improve Outcomes for Patients with Poor-Grade Subarachnoid Hemorrhage Treated with Clipping or Coiling but Not Receiving Nimodipine](#)
- [Aneurysmal Subarachnoid Hemorrhage Risk Assessment Model Identifies Patients for Safe Early Discharge at Day 15-The SAFE-SaH Score](#)

see also [OLD Fisher Scale](#)

<https://www.mdcalc.com/calc/3837/modified-fisher-grading-scale-subarachnoid-hemorrhage-sah>

Modified Fisher scale

- 1+ Focal or diffuse thin SAH, no IVH
- 2 Focal or diffuse thin SAH, with IVH
- 3 Thick SAH present, no IVH
- 4 Thick SAH present, with IVH

Adjusted odds ratio for incremental risk of symptomatic vasospasm for each scale level

Fisher scale

- 1 Focal thin SAH
- 2 Diffuse thin SAH
- 3 Thick SAH present
- 4 Focal or diffuse thin SAH, with significant ICH or IVH

Modified Fisher Grading Scale 4

 Extensive [subarachnoid hemorrhage](#) distributed throughout [perimesencephalic cisterns](#) (predominantly in the [chiasmatic cistern](#)), [prepontine cistern](#), both [Sylvian fissures](#), and [interhemispheric fissure](#), with a component of bifrontal parasagittal [intraparenchymal hematoma](#) with mild adjacent [vasogenic edema](#). The hemorrhage also extends into the [ventricular system](#) ([third ventricle](#) and [lateral ventricles](#)). Findings consistent with modified Fisher grade IV subarachnoid hemorrhage.

This extension is compatible with an [aneurysmal subarachnoid hemorrhage](#) pattern.

Erasure of cerebral [sulci](#), predominantly frontotemporal, in relation to diffuse [cerebral edema](#).

Increased ventricular size for the patient's age.

For prediction of Symptomatic vasospasm

Scoring system

Abbreviations SAH: subarachnoidal hemorrhage IVH: intraventricular hemorrhage

Diffuse thick SAH

IVH: 4 points

No IVH: 3 points

Localized thick SAH

IVH: 4 points

No IVH: 3 points

Diffuse thin SAH

IVH: 2 points

No IVH: 1 points

Localized thin SAH

IVH: 2 points

No IVH: 1 points

No SAH

IVH: 2 points

No IVH: 0 points

Prediction of symptomatic vasospasm

1 point: 24%

2 points: 33%

3 points: 33%

4 points: 40%

¹⁾.

Additional intracerebral hemorrhage (ICH) was associated with an increased risk of [delayed cerebral ischemia](#) (DCI). Furthermore, adding the presence or absence of ICH to the [modified Fisher Scale](#) (mFS) improved the identification of patients at the highest risk for the development of DCI. Thus, a simple adjustment of the mFS might help to identify patients at high risk for DCI ²⁾.

The mFS and the modified Graeb score (mGS) have similar prognostic utility. Accounting for IVH

volume improved prediction of Delayed cerebral ischemia (DCI) by the mFS ³⁾.

Hijdra sum score

see also [Hijdra sum score](#)

Claassen CT scale

see [Claassen CT scale](#).

¹⁾

Frontera JA, Claassen J, Schmidt JM, Wartenberg KE, Temes R, Connolly ES, et al. Prediction of symptomatic vasospasm after subarachnoid hemorrhage: the modified fisher scale. Neurosurgery. 2006 Jul;59(1):21-7.

²⁾

Platz J, Güresir E, Wagner M, Seifert V, Konczalla J. Increased risk of delayed cerebral ischemia in subarachnoid hemorrhage patients with additional intracerebral hematoma. J Neurosurg. 2016 Mar 11:1-7. [Epub ahead of print] PubMed PMID: 26967776.

³⁾

Eagles ME, Jaja BNR, Macdonald RL. Incorporating a Modified Graeb Score to the Modified Fisher Scale for Improved Risk Prediction of Delayed Cerebral Ischemia Following Aneurysmal Subarachnoid Hemorrhage. Neurosurgery. 2017 Apr 17. doi: 10.1093/neuros/nyx165. [Epub ahead of print] PubMed PMID: 28419304.

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