

Modified Fisher scale

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- 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

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⁾.

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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