Brain edema after aneurysmal subarachnoid hemorrhage

- [Retracted] SIRT1 activation by resveratrol reduces brain edema and neuronal apoptosis in an experimental rat subarachnoid hemorrhage model
- MiR-223-3p promote microglia "M2" polarization by targeting FOXO3a in subarachnoid hemorrhage
- The Impact of Intracranial Blood Clearance on Brain Edema as a Predictor of Delayed Cerebral Infarction Following Subararachnoid Hemorrhage
- Phosphodiesterase 4 regulates pyroptosis in subarachnoid hemorrhage
- Assessment and evaluation of melatonin loaded PLGA injectable nanosuspension for the treatment of subarachnoid hemorrhage: Preclinical study
- Clinical factors associated with delayed ischemic and non-ischemic adverse events in clazosentan therapy after aneurysmal subarachnoid hemorrhage: early insights from a multicenter prospective registry
- Hirudin Alleviates Early Brain Injury After Subarachnoid Hemorrhage in Rats via Regulating NLRP3 Inflammasome-Mediated Pyroptosis
- A Case of Postpartum Reversible Cerebral Vasoconstriction Syndrome with Extracranial Artery Involvement

Primary brain swelling increases brain volume after aSAH.

Given the importance of edema to the outcome of patients with aSAH and its status as a highly modifiable pathological process, a better understanding of cerebral edema in aSAH promises to hasten the development of medical therapies to improve outcomes in this frequently devastating disease [1)]

Diagnosis

Brain edema after aneurysmal subarachnoid hemorrhage diagnosis.

Outcome

Global edema is an independent risk factor for mortality and poor outcome after SAH. Loss of consciousness, which may reflect ictal circulatory brain arrest, is a risk factor for admission global edema, and vasopressor-induced hypertension is associated with the development of delayed global edema. Critical care management strategies that minimize edema formation after SAH may improve outcome [2)].

1)
Hayman EG, Wessell A, Gerzanich V, Sheth KN, Simard JM. Mechanisms of Global Cerebral Edema Formation in Aneurysmal Subarachnoid Hemorrhage. Neurocrit Care. 2017 Apr;26(2):301-310. doi: 10.1007/s12028-016-0354-7. PMID: 27995510; PMCID: PMC5336395.

2)
Claassen J, Carhuapoma JR, Kreiter KT, Du EY, Connolly ES, Mayer SA. Global cerebral edema after

subarachnoid hemorrhage: frequency, predictors, and impact on outcome. Stroke. 2002 May;33(5):1225-32. doi: 10.1161/01.str.0000015624.29071.1f. PMID: 11988595.