

Subacute subdural hematoma

- Effectiveness of subdural evacuating port system (SEPS) and middle meningeal artery embolization (MMAE) for chronic subdural hematomas - a multicenter experience
- Effectiveness of subdural evacuating port system (SEPS) and middle meningeal artery embolization (MMAE) for chronic subdural hematomas
- Endoscopic subdural membranectomy for multi-septated chronic subdural hematoma: Finding a safe solution when middle meningeal artery embolization is not feasible
- The safety and feasibility of anticoagulant resumption following middle meningeal artery embolization in patients with subacute subdural hematomas
- Adjunctive middle meningeal artery embolization for non-acute subdural hematoma: A GRADE-assessed meta-analysis and trial sequential analysis on randomized trials
- Subacute Subdural Hematoma Following Ventriculoperitoneal Shunt Procedure: A Case Report
- Brain sagging syndrome: Occult cerebrospinal fluid leakage as a cause of failed brain expansion after removal of bilateral chronic subdural hematomas
- Middle meningeal artery embolization for treatment of bilateral mixed-attenuation subdural hematomas in an infant: illustrative case

Subacute [subdural hematoma](#) (SASDH) is known as the gradual pooling of [blood](#) in the [subdural space](#) that occurs in the period of 4-21 days from the [head injury](#). Usually, it is caused by trauma. This collection causes compression on the brain which leads to the production of localized neurological manifestations, increased intracranial pressure, or altered level of consciousness.

Subacute [subdural hematomas](#) are a poorly individualized nosological entity, often equated clinically to [chronic subdural hematomas](#). Yet, their neurological deterioration which is usually rapid seems to distinguish them from chronic subdural hematomas.

see [Subacute traumatic subdural hematoma](#).

Retrospective case series

A **retrospective case series** involving **five patients** with [subacute subdural hematoma](#) (sASDH), who were managed conservatively using [atorvastatin](#) and low-dose [dexamethasone](#) without surgical intervention. It also includes a **non-systematic narrative review** of existing literature, lacking formal meta-analytic methodology ¹⁾.

Critical Appraisal

Strengths

- The article raises an important question: can we optimize conservative treatment for sASDH in inoperable patients?

- A novel hypothesis is proposed, leveraging two commonly available pharmacologic agents.

Fatal Flaws

1. Sample Size and Selection Bias

The study is limited to **five hand-picked cases**, all of whom refused surgery. There is **no control group, no randomization**, and **no standardization** in patient selection. This introduces massive **selection bias** and **confounding**, rendering the findings anecdotal at best.

2. Lack of Statistical Power

With only five patients, the study is **grossly underpowered** to draw any conclusions on safety or efficacy. Even if all patients improved, the **positive predictive value is negligible**.

3. Absence of Mechanistic Evidence

The article alludes vaguely to the “possible mechanisms” of action of atorvastatin and dexamethasone but fails to elaborate with any **molecular, imaging, or biomarker-based support**. The hypothesized synergy is speculative and **not experimentally validated**.

4. Cherry-Picking Literature

The review portion pulls from only **six studies** without PRISMA methodology, inclusion/exclusion criteria, or risk-of-bias assessments. This is **not a systematic review** but rather a collection of cherry-picked studies to support a preconceived narrative.

5. Logical Fallacy: Post Hoc Ergo Propter Hoc

The authors infer that improvement after administration of atorvastatin and dexamethasone implies causality. This is a classic **post hoc fallacy**. No causation can be inferred from such a weak observational structure.

6. Ethical and Practical Concerns

Presenting this treatment strategy without rigorous evidence could **mislead clinicians, delay necessary surgery**, or foster **false confidence** in a pharmacological approach for a condition where deterioration can be catastrophic.

Bottom Line

The article is a speculative and weakly documented case series attempting to repurpose two drugs in the treatment of [sASDH](#). While the intention is noble, the scientific execution is fundamentally flawed. **No clinical decisions should be influenced by this paper.** What is needed is a properly designed **randomized controlled trial**, not a narrative built on five anecdotal successes.

Case report from the HGUA

Q11755

81-year-old male brought in by his daughter due to a fall at home two days ago. He reports feeling disoriented since then, experiencing [gait instability](#), and changes in [behavior](#).



Left frontoparietal [subdural fluid collection](#), [isodense](#), with [hyperdense](#) areas related to acute/[subacute subdural hematoma](#). It has a maximum thickness of 27 mm, causing a mass effect on the brain parenchyma and the ipsilateral ventricular system, which is compressed. It is associated with subfalcine herniation, with a displacement of the midline to the right of approximately 9 mm.

Postoperative CT Scan



1)

Liu T, Wu C, Jiang W, Liu M, Sha Z, Jiang R. Exploring conservative avenues in subacute subdural hematoma: the potential role of atorvastatin and dexamethasone as lifesaving allies. Chin Neurosurg J. 2025 Apr 2;11(1):7. doi: 10.1186/s41016-025-00393-8. PMID: 40176171.

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