



SPECIAL ISSUE

Hemorrhagic Transformation of Ischemic Stroke: Mechanisms, Perioperative Risk Assessment and Clinical Management

Clinical focus: reperfusion injury, thrombolysis, thrombectomy, risk stratification and neurosurgical management.



GUEST EDITOR

Guest Editor profile photograph

Name and affiliation can be added when supplied.

Brief Overview of Theme and Scope

Hemorrhagic transformation is a devastating complication of acute ischemic stroke, with heightened clinical relevance in the era of reperfusion therapies including intravenous thrombolysis and endovascular thrombectomy. Its onset is tightly linked to procedural factors, perioperative care, and patient selection, and it remains a leading cause of poor prognosis and mortality in stroke patients undergoing surgical or endovascular intervention.

This Special Issue will focus on recent advances in the understanding, prevention, and management of hemorrhagic transformation in ischemic stroke, with a specific focus on operative and interventional perspectives aligned with the scope of the journal.

Keywords

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| <ul style="list-style-type: none">• Ischemic stroke• Hemorrhagic transformation• Endovascular thrombectomy• Intravenous thrombolysis | <ul style="list-style-type: none">• Reperfusion injury• Risk stratification• Neurosurgical intervention |
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CLINICAL & INTERVENTIONAL PRIORITIES

Topics Welcomed for Submission

We invite original research articles, systematic reviews, meta-analyses, and clinical observational studies addressing the following areas:

- Pathophysiological mechanisms underlying procedure-related hemorrhagic transformation.
- Pre-procedural risk prediction models and imaging biomarkers for patient selection.
- Influence of endovascular technique, thrombolytic regimen, and perioperative management on bleeding risk.
- Early recognition and grading of hemorrhagic transformation in the post-procedural setting.
- Medical and neurosurgical management strategies for symptomatic intracranial hemorrhage.
- Novel therapeutic approaches to reduce hemorrhagic risk and improve functional outcomes.

Who Should Contribute?

The issue aims to bring together clinical and translational evidence from neurosurgeons, neurointerventional specialists, stroke clinicians, imaging researchers, perioperative teams, and investigators working on reperfusion injury and intracranial hemorrhage.

Purpose of the Collection

By integrating procedural, imaging, perioperative, medical and neurosurgical perspectives, this Special Issue seeks to strengthen evidence-based decision-making in a high-stakes area of stroke care and improve the prevention, early recognition and management of hemorrhagic transformation.

SUBMISSIONS	Original Research • Systematic Reviews • Meta-Analyses • Clinical Observational Studies
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