# **INPLASY**

INPLASY202370116

doi: 10.37766/inplasy2023.7.0116

Received: 30 July 2023

Published: 30 July 2023

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The efficacy and safety of general anesthesia vs conscious sedation for endovascular treatment in patients with acute ischemic stroke: a systematic review and meta-analysis

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#### **ADMINISTRATIVE INFORMATION**

**Support -** The research was funded by the Suzhou Science and Technology Bureau (No. SLJ202002) and Suzhou Development of health care (No. M2022050).

Review Stage at time of this submission - Data analysis.

Conflicts of interest - None declared.

INPLASY registration number: INPLASY202370116

**Amendments -** This protocol was registered with the International Platform of Registered Systematic Review and Meta-Analysis Protocols (INPLASY) on 30 July 2023 and was last updated on 30 July 2023.

### INTRODUCTION

Review question / Objective Examine the effect of GA versus CS on functional outcomes and safety outcomes in patients with AIS.

**Rationale** Anesthesia and perioperative management may be important.

Condition being studied A number of studies have suggested that anesthesia type during intraarterial treatment for acute ischemic stroke has implications for patient outcomes.

## **METHODS**

**Search strategy** We set the inclusion criteria as follows: (1) study type: RCT; (2) language restriction: only available in English;(3) participants: over 18 years of age; acute ischemic stroke (anterior circulation and posterior circulation).

**Participant or population** Patients with acute ischemic stroke.

Intervention GA VS CS.

Comparator GA AND CS.

Study designs to be included RCT.

**Eligibility criteria** We set the exclusion criteria as follows: no report about aforementioned outcomes or impossibility to extract the exact number of complications separately from GA and CS.

Information sources PubMed.

Main outcome(s) modified Rankin Scale.

Additional outcome(s) Intracerebral hemorrhage.

**Data management** Review Manager 5.3 software was used to assess the data. For the dichotomous outcomes, the risk ratio (relative risk [RR]; 95%

confidence interval [CI]) was analyzed and calculated with a fixed effect model.

**Quality assessment / Risk of bias analysis** The risk of bias plot for individual studies was assessed with the Review Manager 5.3 software.

**Strategy of data synthesis** Review Manager 5.3 software was used to assess the data. For the dichotomous outcomes, the risk ratio (relative risk [RR]; 95% confidence interval [CI]) was analyzed and calculated with a fixed effect model.

**Subgroup analysis** The included studies will be appropriately stratified, with a meta-analysis of each subgroup to explore the sources of heterogeneity.

**Sensitivity analysis** Heterogeneity was estimated via the I2 statistic, which was as follows: I2 < 30% suggests "low heterogeneity"; I2 between 30% and 50% means "moderate heterogeneity"; I2 > 50% denotes "substantial heterogeneity".

Language restriction English.

Country(ies) involved China.

**Keywords** Acute ischemic stroke; Endovascular thrombectomy.

#### Contributions of each author

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