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Endovascular thrombectomy - Undergoing procedural sedation vs general anesthesia in acute stroke patients: A systematic review of the literature and single- centre retrospective study

Importance: Better haemodynamic control for patients with acute ischaemic stroke is associated with improved neurological outcomes. To date there is not sufficient evidence as to whether receiving general Anesthesia or procedural sedation during thrombectomy allows for better haemodynamic control and if this has a subsequent impact on early neurological improvement.

Objective: To assess whether procedural sedation is superior to general anesthesia for haemodynamic control and early neurological improvement among patients receiving stroke thrombectomy.

Design, Setting, and Participants: This paper will have a two part design. First a literature review and meta-analysis will be done to analyse the existing evidence. Secondly a retrospective study of 150 patients with acute ischemic stroke in who received thrombectomy in CCAD will be completed.

Outcomes: The primary outcome measures will be range in mean arterial pressure during thrombectomy and NIHSS after 24 hours, at discharge and after 3 months. Secondary outcome measures will be range in systolic blood pressure, episodes of desaturation, mortality, length of hospital stay, modified rankin scale at discharge and at 3 months, and complications intra-operatively and in the recovery room.

Conclusion: The aims of this study are to retrospectively clarify whether general Anesthesia or procedural sedation allow for better haemodynamic control during thrombectomy and if this is associated with better early neurological outcomes.

Biography

Aislinn Killian completed her bachelor of surgery in Royal College of Surgeons Ireland in 2017. Killian has experience in the field of General Surgery, Psychiatry, Emergency Medicine, and Gastroenterology. Currently Aislinn is working on a systematic review and retrospective study on data from Cleveland Clinic Abu Dhabi, UAE.

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