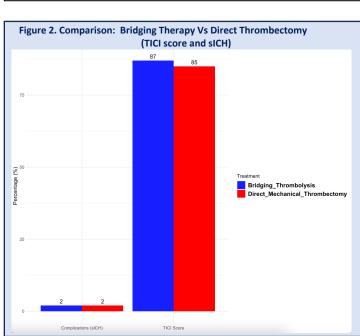
BRIDGING THROMBOLYSIS VERSUS DIRECT MECHANICAL THROMBECTOMY IN PATIENTS WITH STROKE: A NATIONWIDE PROPENSITY SCORE-MATCHED CASE-CONTROL STUDY IN UNITED KINGDOM

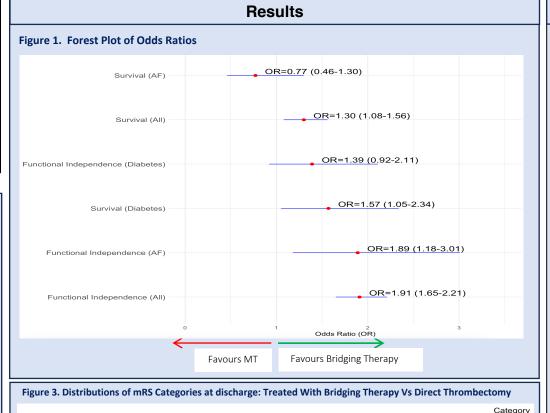
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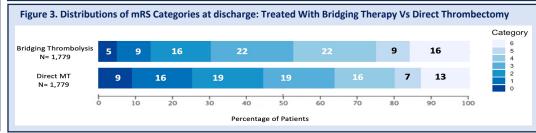
Sentinel Stroke National Audit Programme

Background and Aims

- Recent clinical trials did not demonstrate noninferiority of direct endovascular thrombectomy compared to bridging therapy.
- We aim to evaluate the efficacy of thrombectomy alone compared to thrombectomy with thrombolysis in real-world clinical practice.







Methods

> Data Source:

- Data were extracted from the Sentinel Stroke National Audit (SSNAP) Programme for patients admitted between 2016-2022, with a case ascertainment rate of >95%.
- Among 471,306 ischemic strokes, 1,779 patients who received bridging therapy were matched using propensity score to those undergoing thrombectomy alone.

> Study Design and Matching Procedure:

- One-to-one propensity score matching retrospective cohort study.
- Propensity score matching (1:1 ratio, logistic regression with the nearest-neighbor method) were based on the following factors: age, sex, pre-stroke mRS, NIHSS score, hypertension, Atrial Fibrillation (AF), and diabetes.

> Endpoints and Statistical Methods:

- We assessed the endpoints of good functional independence (mRS 0-2) and survival at discharge using logistic regression and Cox proportional-hazards models.
- Subgroup analyses were conducted on patients with AF and diabetes.
- safety endpoint: Symptomatic intracranial hemorrhage.

Conclusion:

Data from the UK National Stroke Registry showed a superiority in survival of bridging therapy over thrombectomy alone, supporting its recommendation as the standard treatment.

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