Innovations in Thrombectomy: *A Retrospective Analysis of the Indigo System Lightning 12*

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INTRODUCTION

- The Computer-Aided Mechanical Aspiration Thrombectomy (CMAT) system such as the Indigo System Lightning 12 has been shown to effectively treat iliofemoral DVT, iliocaval thrombus, pulmonary emboli, portomesenteric venous thrombus, and TIPS occlusion.

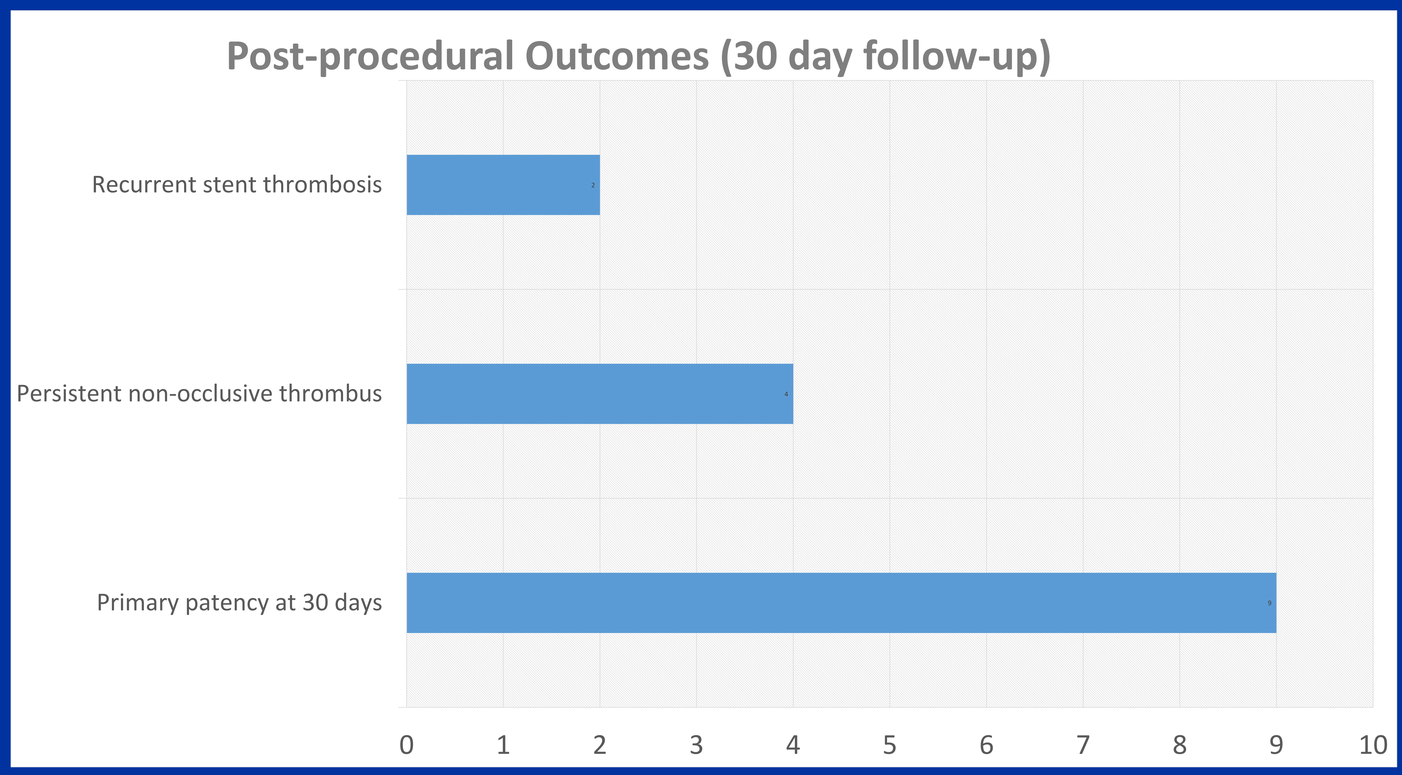
METHODS

1. 19 CMAT cases since introduction of Indigo System Lightning 12 in 2021 at UK medical center.
2. Periprocedural measures included adjuvant tPA administration, stent placement, and angioplasty.
3. Follow-up for primary patency at 30 days.

RESULTS

- Successful with only a single session in 88% of cases.
- Primary patency observed in 82% of patients followed for a minimum of 30 days.
- Adjunctive tissue plasminogen activator (tPA) administered in 32% of cases, stents placed in 63% of cases, and angioplasty performed in 79% of cases.
- Four patients exhibited persistent non-occlusive thrombus.
- Two patient experienced recurrent stent thrombosis.

Computer-Aided Mechanical Aspiration Thrombectomy using Indigo System Lighting 12 successful in single treatment in 88% of patients.



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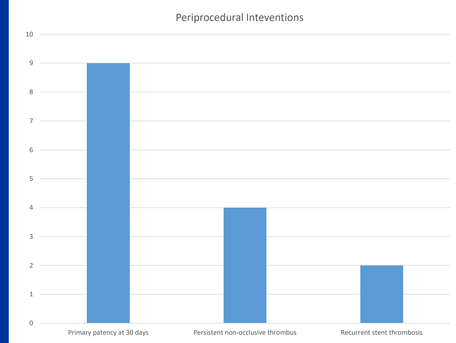
Tables & Figures



DISCUSSION

- CMAT has shown high efficacy and safety in treating thrombotic conditions, with an 88% success rate in single-session treatments and 82% long-term vessel patency.
- Its low complication rate further underscores its appeal as a reliable option for patients.
- Overall, the Lightning 12 represents a significant advancement in interventional thrombectomy.

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