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Effective, Non-Invasive Removal, Significantly Improving Patient Experience and Reducing Healthcare Burden.

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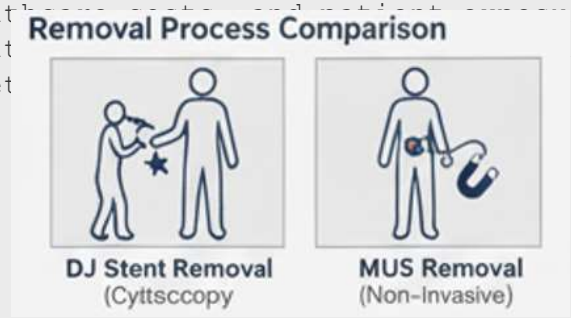
THE COST-EFFECTIVENESS AND SAFETY OF MAGNETIC URETERAL STENTS: A PROSPECTIVE STUDY OF 40 PATIENTS IN ENDOUROLOGY

Introduction

- **Problem:** Traditional Double-J (DJ) stents require a painful, second cystoscopic procedure for removal, leading to increased patient discomfort, costs, and procedural burden.
- **Solution:** Magnetic Ureteral Stents (MUS) enable non-invasive removal with an external magnet.
- **Hypothesis:** MUS can reduce OR time, healthcare costs, and patient exposure to additional procedures, thereby improving safety.



Methods

Design: Prospective, single-center study.

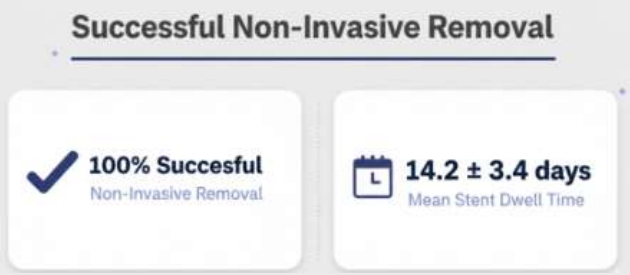
Setting: Dubai Hospital, Jan 2022 - Dec 2023.

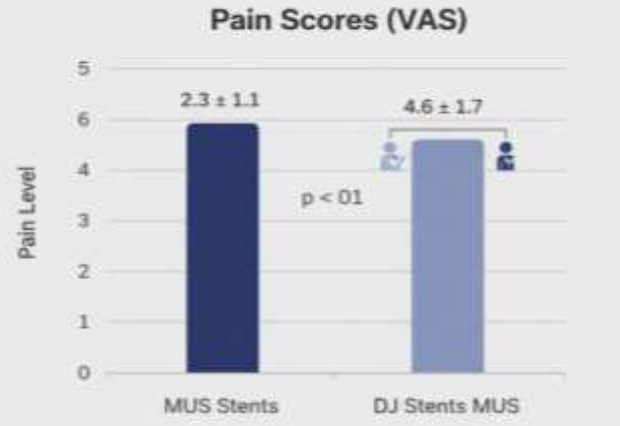
Patients: 40 patients requiring temporary ureteral stenting received MUS.

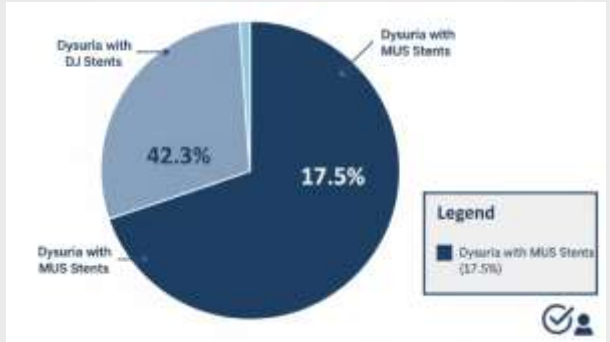
Procedure: MUS removed non-invasively using a magnetic retrieval device.

Outcomes: Removal success, pain scores (VAS), dysuria, complications, procedural time, cost-

Results







Conclusion: MUS are a cost-effective, safe, and efficient alternative to DJ stents. Non-invasive removal eliminates the need for an additional cystoscopic procedure, reducing healthcare costs and patient burden. This innovation significantly improves patient experience and