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Title: Evaluating the Efficacy and Safety of the Hugo™ Robotic-Assisted Surgery System in Hysterectomy: A Retrospective Analysis of 66 Cases

INTRODUCTION

- The Hugo™ robotic-assisted surgery (RAS) system by Medtronic offers an alternative platform designed to enhance surgical precision and ergonomics.

- This study aims to evaluate the safety, efficacy, and feasibility of the Hugo system in performing hysterectomies.

MATERIALS AND METHODS

- A retrospective analysis on 66 consecutive patients who underwent robotic- assisted hysterectomy using the Hugo RAS system.

- Duration : January 2022 and October 2024.

- Patient demographics, operative parameters, and perioperative outcomes were collected and analyzed.

- Key metrics included total operative time, console time, and perioperative complications.

- Statistical analysis - mean ± (SD) and percentage frequencies where applicable.

RESULTS

Operative and Console Time

Learning Curve Analysis for 66 Cases

Patient Discharge Timing
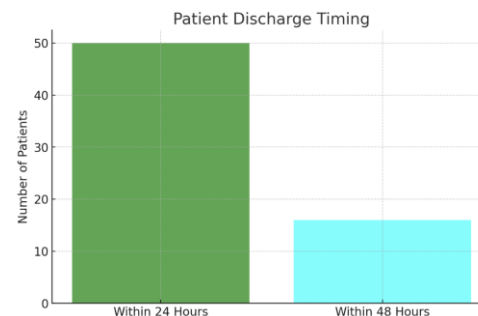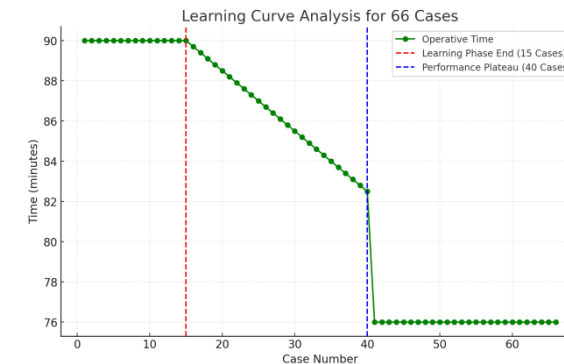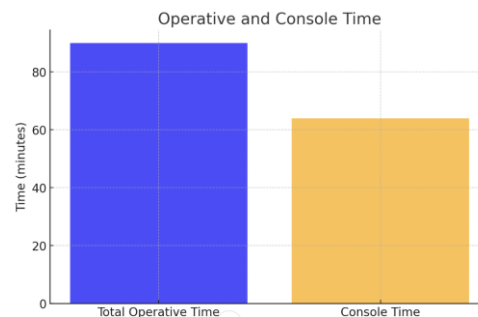
- 6 cases required nodal dissection
- No intraoperative complications

- All patients discharged in less than 48 hours
- Significant decrease in operative time after 15 cases

CONCLUSION

- The Hugo RAS system demonstrates high efficacy and safety in robotic hysterectomy.
- Its ergonomic design and advanced instrumentation make it a reliable alternative to other robotic platforms.