



# AB009. SOH23ABS\_171. Single-centre comparison of short term post-operative outcomes between laparoscopic, robotic extracorporeal and robotic intracorporeal anastomosis right hemicolectomy

Esther Man Yu Lim, Haroon Ur Rashid, Dara Walsh, Calvin Coffey, Colin Peirce

Department of Colorectal Surgery, University Hospital Limerick, Dooradoyle, Limerick, Ireland

**Background:** The gold standard of colorectal surgery has now shifted from open to minimally invasive surgery. Within the realm of minimally invasive surgery, there has been multiple studies comparing between robotic versus laparoscopic surgery as well as intracorporeal versus extracorporeal anastomosis. This is a single-centre study looking at short-term post operative outcomes between laparoscopic, robotic extracorporeal and robotic intracorporeal anastomosis right hemicolectomy.

**Methods:** Retrospective analysis of robotic intracorporeal anastomosis right hemicolectomy performed in our institute between August 2021 to October 2022 was conducted. The primary outcome was length of stay with secondary outcomes including duration of surgery, conversion to open, stoma formation, post-operative complications, anastomotic leak, 30-day mortality, 30-day morbidity and surgical site infection. This was then compared to a previous case-matched study conducted in the same institute between laparoscopic and robotic extracorporeal right hemicolectomy.

**Results:** The results show that there was a decrease in median length of stay and reduced post-operative

complications in the robotic intracorporeal anastomosis in comparison to laparoscopic and robotic extracorporeal anastomosis.

**Conclusions:** This study has shown that by performing intracorporeal anastomosis in right hemicolectomies, it has enhanced patients' post-operative outcomes in terms of decreased length of stay and risk of post-operative complications.

**Keywords:** Colorectal; extracorporeal anastomosis; intracorporeal anastomosis; right hemicolectomy; robotic surgery

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## Footnote

*Conflicts of Interest:* The authors have no conflicts of interest to declare.

*Ethical Statement:* The authors are accountable for all aspects of the work in ensuring that questions related to the accuracy or integrity of any part of the work are appropriately investigated and resolved.

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