Parastomal Hernia

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Introducing Robotics into Parastomal Hernia Repair

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Background	Method		
Parastomal hernias (PSH) remain a challenging condition, with high recurrence rates following repair. Robotic surgery offers novel, minimally invasive options for repair. Real-time outcome analysis is essential to ensure patient safety and enable cost- benefit decisions.	Prospective data capture for patients undergoing robotic modified Sugarbaker parastomal hernia repair, conducted during the introduction of robotics into a single-surgeon, high- volume practice.		
Results			
 January 2023 – November 2024: 12 robotic PSH repairs. All underwent preoperative abdominal wall MDT discussion, alongside multiple complex open repairs, performed over the same 2-year period. 7 (58%) male, median age 70 (IQR 67-77) Highly comorbid cohort - median ASA grade III No conversions to open Median EBL Oml, no blood transfusions Median length of stay: 2.5 days (IQR 1-7) 	 Outcomes 75% complication free recovery (n=9) 1 readmission 1 return to theatre (RTT) 2 recurrences No deaths within 60 days Median follow up: 4 months 		
	Clavien-Dindo Grade	N(%)	
CDI CDI CDII CDII CDII CDII	 	1 (8.3%) (prolonged ileus requiring NGT) 1 (8.3%)	
		(profound prolonged ileus requiring TPN)	
	III	1 (8.3%) (SBO/ileus requiring RTT)	
Figure 1: outcomes following robotic PSH repair CD=Clavien-Dindo Grade	Table 1: complications following robotic PSH repair NGT=nasogastric tube; TPN=total parenteral nutrition; SBO=small bowel obstruction; RTT=return to theatre		
Operative Time • First 6 PSH repairs: 84 minutes			
• Following 6 PSH repairs: 75 minutes			

p=0.59

Conclusion

Our results highlight the challenges of introducing robotic PSH repair into practice. Whilst technically there were no conversions to open and relatively short hospital stay, 1 in 4 patients suffer some sort of complication and there were 2 recurrences. We believe this reflects an extremely comorbid cohort, and the challenge of the condition itself. Ongoing assessment of a larger cohort alongside learning curve analysis are required to define patient selection and best operative technique.