ESTABLISHING A LAPAROSCOPIC SURGERY SERVICE IN THE UK FOR PAEDIATRIC INFLAMMATORY BOWEL DISEASE IN COLLABORATION WITH ADULT COLORECTAL SURGEONS IS FEASIBLE AND SAFE

Jonathan Goring¹, Michelle Horridge¹, Richard Slater², Govind Murthi¹ ⁷Sheffield Children's Hospital NHS Foundation Trust, Sheffield, South Yorkshire, UK, ²Rotherham NHS Foundation Trust, Rotherham, South Yorkshire, UK

Aim of the Study: The National Training Programme for Laparoscopic Colorectal Surgery (LAPCO programme) has established a national standard for Adult Colorectal Surgeons (ACS) in the UK to become proficient in and spread the use of laparoscopic techniques in their practice. In Paediatric Surgery the application of laparoscopy to the surgical management of inflammatory bowel disease (IBD) remains sporadic and inconsistent. Our aim is to review our experience with the use of preceptorship and collaboration with a local peripatetic ACS trainer in establishing the application of laparoscopic surgical approaches to the management of paediatric IBD and report outcomes.

Methods: Retrospective review of case notes of patients who underwent surgery from November 2009-December 2016 in our department. Outcome measures included: types of surgery, role of ACS, duration of surgery, length of stay and post-operative complications.

Main Results: 55 patients underwent at total of 65 operations (45 laparoscopic) for IBD during this period. Details of the procedures undertaken are shown in Table 1. The ACS performed the first 4 laparoscopic procedures; subsequently all (n=54) laparoscopic procedures (excluding pouch surgery) have been undertaken independently by the Paediatric Surgeon. All ileo-anal pouch procedures (n=8) have been counseled by and undertaken by the ACS as the primary surgeon. The ACS preceptorship taught us about: patient positioning, additional equipment required, use of Harmonic shears, stapled anastomoses, techniques of dissection and vascular safety, ergonomics, retrieval of specimens and safe bowel repositioning.

Conclusions: The application of laparoscopic approaches to the surgical management of paediatric IBD as routine practice is feasible and safe; it should be considered for all children. The availability of colleague peripatetic ACSs in local/regional hospitals in all regions of the UK is a ready resource that should be utilised; the LAPCO programme has set an important precedent that Paediatric Surgeons should seek to replicate.

DETAILS AFERSTIENTS IN STUDY No.		No.		No.		No.	
P Primary Diagnosis		Primary Procedures (total)		65		65	
Ulcerative colitis	28	Laparoscopic procedures		45			
Crohn's disease	34	Lap sub-total colectomy and end ileostomy		21		45	
Crohn's disease		Mean Operative time (range) Lap sub-total colectom (145-300)			leostomy	21	
Indeterminate colitis	3	Lap ileo-caecal resection and ileo-colic anastomosis		15		245 mins	
		Mean Operative time (rang	ie)	`125 mins (90- 220)		(145-300)	
Sex (M:F)	31:34	Lap assisted ileo-anal pouc	h	8	-colic anastomosis	15	
		Mean Operative time (rang	Mean Operative time	180 mins ((1(240g2))		125 mins (90-	
		Other		1		220)	
Sex (107.F) Age Range	14.0 years (3.9-18.0)	Open Progedures	Lap assisted ileo-anal	քժնշի		8	
Length of stay (median; range) (days)	7 (2-244)	Bowel resection and anaste	omosis	3		180 mins	
Per-operative blood transfusion	2	Open sub-total colectomy and end ileostomy (or ileorectal 7 anastomosis)				(140-225)	
Complications (lap surgery)		Diversion stoma		5		1	
Total complication rate:	23%	^{Other} 14.0 years	Open Procedures	1		17	
Anastomotic leak	1	Conversion from lap to op	en	4 (8%)			
Length of stage (median; range)	(d ⁶ ays)	7 (2-244)	Bowel resection and a	nastomosis		3	
Stomal problems	2					7	
Per-operative ploog transtusion	1	2	Open sub-total colecto	omy and en	d ileostomy (or ileorectal	7	
Wound infections	1					-	
Complications Magisurgery)	4		Diversion stoma			5	
Total complication rate:		23%	Other			1	

Table I. Patient demographics, surgical procedures and outcomes.