Inflammatory Bowel Disease (IBD) with Surgical Intervention Clinical Practice Guideline

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Inclusion and Exclusion Criteria

Inclusion: Patients with IBD receiving ileocecectomy, colectomy, proctectomy, J pouch reconstruction, or stoma closure by a general pediatric surgeon

Exclusion:

- Patients with motility disorders from the Colorectal clinic (may use protocol but will need modifications for motility issues)
- Newborns and patients < 1 year old (for now).
- Cardiac and Neonatal ICU patients
- Cerebral Palsy patients
- Thoracotomies for non-neonatal conditions (sarcoma met resections)
- Acute Care Surgery patients (appendectomies, gallstone pancreatitis, bowel perforations from trauma, etc.)
- Patients deemed to need more customized care by the surgeon
- · Anorectal malformations (ARM) with significant motility issues

Preadmission	 Detailed counseling by APP and Surgeon (Including preset discharge criteria) Surgeon and APP to follow-up with phone instructions: Provide preoperative counseling on ERAS protocol and expectations for recovery, pain control and diet: ERAS Surgery Explained Consults: Child Life, Pain, Psych, WOC
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	Encourage clears up until 2 hours before operation
	Preoperative carbohydrate loading: Preoperative carbohydrate loading: 10ml/kg up to 600 ml Gatorade or apple juice completed 2 hours
Prooporativo	 Place (SCDs) for patients age 12 or greater
Freuperative	 Place (SCDs) for patients age 12 or greater
	• Ensure patients and their parents have done the following: Taken pre-op medications, watched ERAS Lego video, and consumed clear
	liquids

Medication Dosage		Max Dose	Comments		
Metronidazole	15 mg/kg PO TID	500 mg	Given the day before the surgery		
Neomycin	15 mg/kg PO TID	1000 mg	Given the day before the surgery		
Gabapentin	5 mg/kg PO x1 TID	600 mg	Given the day before the surgery		
Gabapentin	5 mg/kg PO x1	600 mg	Given on the day of surgery if Gabapentin given the day before		
Gabapentin	15 mg/kg PO x1	600 mg	Given on the day of surgery if Gabapentin not given the day before		
Acetaminophen	10 mg/kg PO x1	650 mg	Pre-op - Give 2 hours before surgery with clear liquids		
Decadron	0.15 mg/kg IV x1	8 mg	Given in the OR		
Cefazolin	30 mg/kg IV x1	<120 kg: 2 g and >120 kg: 3 g	Given in the OR before the incision is made		
Metronidazole	15 mg/kg IV x1	500 mg	Given in the OR before the incision is made		
Ciprofloxacin	15 mg/kg IV x1	400 mg	Use if Penicillin allergy instead of Cefazolin		
Ketorolac	0.5 mg/kg IV x1	30 mg	Given in the OR near the end of the case after discussion with surgeo		

Laparoscopic technique (or minimize trauma)

Avoidance of nasogastric tubes and perianastomotic drains

Intraoperative • Regional anesthesia: placement of rectus sheath, QL or TAP blocks depending on a discussion between the surgeon and the pain anesthesiologist

Minimization of opioids

Maintenance of normothermia

• Maintenance of near zero fluid balance: limit fluids to 3-4 mL/kg/hr.

PACU

Anesthesia team to consider giving IV Diazepam and IV Hydromorphone in the PACU after discussion with the surgeon

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Postoperative Management

	Su	argery Day	POD 1			POD 2	POD 3	POD 4
Activity	Early Ar	nbulation: OOB x1	Ambulation: OOB x4		• Encou ambula	ation: OOB x4 rage patient to te, shower, and idependently	 Ambulation: OOB x4 Encourage patient to ambulate, shower, and dress independently 	 Ambulation: OOB x4 Encourage patient to ambulate, shower, and dress independently
Nutrition	starting PACU, th as toler	en advance diet ted • Encourage chewing gum age chewing gum		to tolera	rage chewing gum	 Normal diet according to tolerance Encourage chewing gum and gummies 	 Normal diet according to tolerance Encourage chewing gum and gummies 	
Fluids/ Drains	zero flui unecess • May s	enance of near id balance: limit ary boluses aline lock PIV atient tolerating	 Remove Foley Catheter May saline lock PIV when patient tolerating PO Encourage PO fluid intake 		 Monitor PO fluid intake and output from stoma and urine to create 		Monitor PO fluid intake and output from stoma and urine to create positive oral fluid balance	Monitor PO fluid intake and output from stoma and urine to create positive oral fluid balance
Respiratory		ive pulmonary tart incentive etry			Incentive spirometry		Incentive spirometry	Incentive spirometry
Consults		Ilaboration with Care collaboration w sych, WOC, Child Pain, Psych, WOC, Ch needed Life as needed			Care collaboration with Pain, Psych, WOC, Child Life as needed		Care collaboration with Pain, Psych, WOC, Child Life as needed	Care collaboration with Pain, Psych, WOC, Child Life as needed
Stoma Care	Nurse to care	o perform stoma • WOC Nurse to inv patient in stoma ca • Start imodium tea		a care	in stoma care		 Nurse to involve patient in stoma care Continue imodium teaching 	Patient demonstrated competent changing of ostomy device and understanding of Imodium teaching
Pain	Pain Minimize narcotic use if oral masses control		oral medicatior assess if pain is	ral medications. If so, ssess if pain is being ontrolled with oral		der transition to dications. If so, if pain is being led with oral tions	Assess if pain is being controlled with oral medications	Assess if pain is being controlled with oral medications
				Postope	rative N	ledications		
Medicati	on	Dosa	ge	Max I	Dose		Comments	
Gabapentin		5 mg/kg PO q8h		300 mg				
Acetaminophen		10 mg/kg PO q4h		650 mg		Give scheduled doses while awake - Max 5 doses/day		
Ibuprofen		10 mg/kg PO q6h		600mg		Once tolerating PO and Ketorolac is discontinued		
Morphine		0.1 mg/kg IV q3h PRN		4 mg		Breakthrough >6 pain only		
Ondansetron		0.1 mg/kg IV PRN		4 mg		Nausea and vomiting		
		11 [re for first 24			1		

 Ondansetron
 U.1 mg/kg IV PRN
 4 mg
 Nausea and vomiting

 15 mg/kg IV q8hrs for first 24 hours
 15 mg/kg IV q8hrs for first 24 hours
 1000 mg
 For the first 24 hours post-op

 Methocarbamol
 15 mg/kg IV q8hrs PRN spasms for the next 48 hours
 1000 mg
 After the first 24 hours post-op

 Discharge Criteria

Discharge Criteria	Discharge Planning
 Ambulated successfully Able to dress and shower independently at home (or as before surgery) or has assistance Demonstrated competence of changing of ostomy device Positive fluid balance (intake > output of urine and stoma by 500 cc) Tolerating diet Pain is well controlled by oral meds No fevers 	 APP to schedule clinic follow-up appointment Provide patient with all prescriptions including pain medications and Imodium if applicable Review preoperative medications and determine which ones are appropriate to continue Encourage the patient to make an appointment with their gastroenterologist, if appropriate If stoma present, ensure patient has all the necessary supplies and is comfortable caring for the stoma at home Provide wound care education and ensure dressing is dry Answer all questions and provide all paperwork and handouts

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