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

Original 12/18/2017 Updated 3/31/23

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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

Preoperative

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 before operation

- 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

Preoperative Medications						
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 surgeon			

- Antibiotic prophylaxis: <1 hour prior to incision
- · 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

	Surgery Day	POD 1	POD 2	POD 3	POD 4
Activity	Early Ambulation: OOB x1	Ambulation: OOB x4	Ambulation: OOB x4 Encourage patient to ambulate, shower, and dress independently	 Ambulation: OOB x4 Encourage patient to ambulate, shower, and dress independently 	Ambulation: OOB x4 Encourage patient to ambulate, shower, and dress independently
Nutrition	 Early oral intake starting with juice in PACU, then advance diet as tolerated Encourage chewing gum and gummies 		Normal diet according to tolerance Encourage chewing gum and gummies	 Normal diet according to tolerance Encourage chewing gum and gummies 	Normal diet according to tolerance Encourage chewing gum and gummies
Fluids/ Drains	 Maintenance of near zero fluid balance: limit unecessary boluses May saline lock PIV when patient tolerating PO 	Remove Foley Catheter May saline lock PIV when patient tolerating PO Encourage PO fluid intake	 Encourage aggressive oral intake 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	Monitor PO fluid intake and output from stoma and urine to create positive oral fluid balance
Respiratory	Aggressive pulmonary toilet: start incentive spirometry	Incentive spirometry	Incentive spirometry	Incentive spirometry	Incentive spirometry
Consults	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	Care collaboration with Pain, Psych, WOC, Child Life as needed
Stoma Care	Nurse to perform stoma care	WOC Nurse to involve patient in stoma care Start imodium teaching	Nurse to involve patient in stoma care Continue imodium teaching	 Nurse to involve patient in stoma care Continue imodium teaching 	Patient demonstrated competent changing of ostomy device and understanding of Imodium teaching
Pain	Minimize narcotic use if possible	 Consider transition to oral medications. If so, assess if pain is being controlled with oral medications 	Consider transition to oral medications. If so, assess if pain is being controlled with oral medications	Assess if pain is being controlled with oral medications	Assess if pain is being controlled with oral medications

Postoperative Medications						
Medication	Dosage	Max 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			
	15 mg/kg IV q8hrs for first 24					
Methocarbamol	hours	1000 mg	For the first 24 hours post-op			
	15 mg/kg IV q8hrs PRN spasms					
Methocarbamol	for the next 48 hours	1000 mg	After the first 24 hours post-op			

Discharge Criteria

- 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

Discharge Planning

- 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