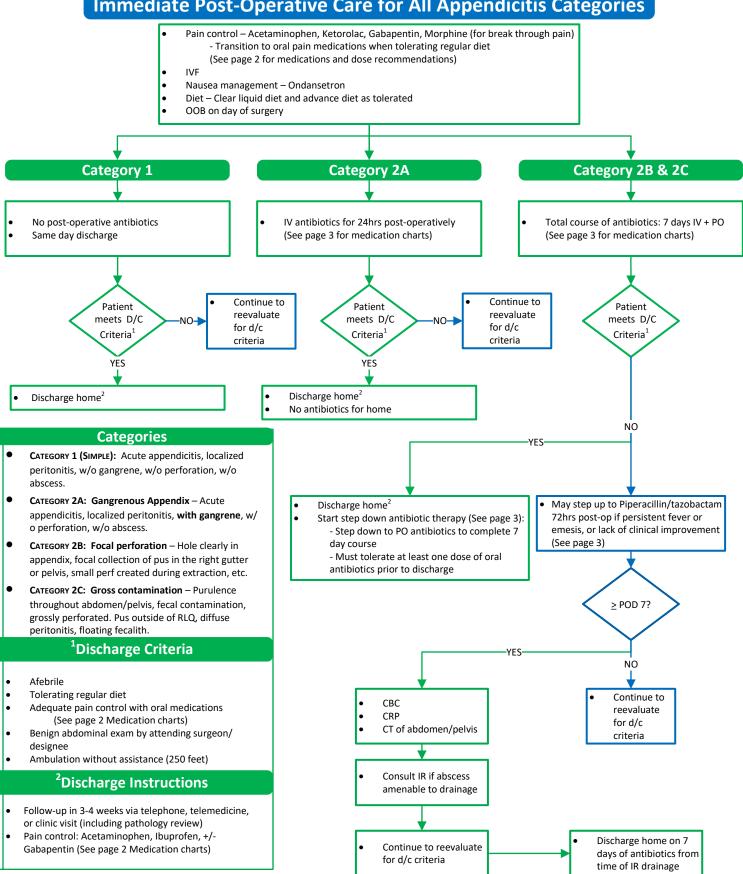
Post Operative Appendicitis Algorithm For All Categories (1, 2A, 2B & 2C) **Clinical Practice Guideline**

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Immediate Post-Operative Care for All Appendicitis Categories





Post-operative Medications

Post-Operative Management						
Pain Control	Advancing Oral Pain Regimen	Polyethylene Glycol 3350 (Miralax) Dosing				
 Acetaminophen: 10mg/kg/dose PO q4hr (max 500mg) or 15mg/kg/dose IV* (max 1000mg) q6hrs for pain Ketorolac: 0.5mg/kg/dose IV q6hrs (max 30 mg/dose) Max 20 doses Morphine: 0.1mg/kg/dose IV q3hr PRN pain if acetaminophen or toradol is not effective (max 5mg/dose) Gabapentin: 10mg/kg/dose PO TID (max 300mg) 	Once pain controlled and tolerating PO, change these medications from IV to PO: • Ketorolac to Ibuprofen 10mg/kg/dose PO q6hr PRN (max 400mg/dose) • Morphine to: Hydrocodone with Acetaminophen Hydrocodone 0.2mg/kg/dose PO q6hr PRN pain (max 5mg Hydrocodone per dose) • Consider Gabapentin as a discharge medication	When tolerating regular diet and if no stool for 24 hours, consider starting Miralax (max 17gm PO): • Age 1-5 years: 4.25 grams (1/4 capful) • Age 6-11 years: 8.5 grams (1/2 capful) • Age 12 and up: 17 grams (1 whole capful)				

* Criteria for IV Acetaminophen use:

- i. Complicated appendectomies who have been readmitted or perforated appendectomies that are high risk for ileus
- ii. Post-op ileus
- iii. Patient with history of multiple abdominal surgeries/multiple adhesions needing to be NPO >24 hours



Post-operative Antibiotics

Empiric IV Treatment				
Indication	Antibiotics	Dose & Schedule	Max Single Dose	
Complicated Appendicitis (2A, 2B & 2C)	Ceftriaxone And Metronidazole	75mg/kg q 24h IV	2000mg	
		30 mg/kg q 24h IV	1500mg	
Complicated Appendicitis (2A, 2B & 2C) with severe penicillin (PCN) allergy ¹	Ciprofloxacin And	15 mg/kg q 12hr IV	400mg	
	Metronidazole	30 mg/kg q 24h IV	1500mg	
Complicated (2B &2C) Appendicitis Step UP Therapy*				
Complicated (2B &2C) Appendicitis	Piperacillin/tazobactam (Zosyn) ²	100mg/kg q8h IV	4000mg	

¹Type 1 allergy defined by urticaria or anaphylaxis

^{*}May step-up to Piperacillin/tazobactam 72 hours post-operatively for failure of Ceftriaxone/Metronidazole therapy or earlier for signs of sepsis

Complicated (2B & 2C) PO Stepdown Therapy					
Indication	Antibiotic	Dose & Schedule	Max Single Dose		
Complicated Appendicitis (2B & 2C)	Amoxicillin/Clavulanate Liquid 400mg/5mg for < 40kg	45/mg/kg/day divided BID	875 mg		
	Amoxicillin/Clavulanate Tablet (875mg) for > 40kg	1 tablet BID	875mg		
Complicated Appendicitis (2B & 2C) with Severe PCN Allergy	Ciprofloxacin And Metronidazole	15mg/kg q 12h PO	500mg		
		10mg/kg q 8h PO	500mg		

²Metronidazole does not need to be added to a regimen with Piperacillin/tazobactam since anaerobic coverage is adequate with Piperacillin/tazobactam