

OHSU HEALTH Intra-Abdominal Infection Empiric Antibiotic Guidelines

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PURPOSE:

To provide guidance on empiric antibiotic selection for adult EGS patients with intra-abdominal infection.

PERSONS AFFECTED:

This procedure applies to OHSU EGS workforce members involved in prescribing, dispensing or administrating antibiotics for the treatment of intra-abdominal infection.

DEFINITIONS:

- EGS: Emergency General Surgery
- MRSA: methicillin-resistant Staphylococcus aureus
- <u>PCN:</u> penicillin

GUIDELINE REQUIREMENTS:

Refer to Table 1 below.

RELEVANT REFERENCES:

- Mazuski JE, Tessier JM, May AK, et al. The Surgical Infection Society Revised Guidelines on the Management of Intra-Abdominal Infection. *Surg Infect (Larchmt)*. 2017;18(1):1-76. doi:10.1089/sur.2016.261
- Sawyer, R. G., et al. (2015). "Trial of short-course antimicrobial therapy for intraabdominal infection." N Engl J Med **372**(21): 1996-2005.

RELATED DOCUMENTS/EXTERNAL LINKS:

• Adult perioperative prophylactic antibiotic guidelines

APPROVING COMMITTEE(S):

Antimicrobial Subcommittee of CKTEC CKTEC

REVISION HISTORY

Revision History Table

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Table 1. Intra-abdominal infection empiric antibiotic guidelines

INTRA-ABDOMINAL INFECTION			
ТҮРЕ	Mild to Moderate	Severe	
SIGNS & SYMPTOMS	FeverAbdominal pain	 Requiring ICU level of care, hypotension, septic shock Neutropenia 	
COMMON PATHOGENS	 <i>E. coli, Klebsiella</i> species Streptococci Anaerobes 	 <i>E. coli, Klebsiella</i> species, <i>Proteus, Enterobacter, Pseudomonas</i> Streptococci Anaerobes 	
LABS	 Do not recommend routinely obtaining peritoneal cultures in lower-risk patients 	 Obtain cultures from peritoneal fluid or infected tissue to identify potential resistant organisms or opportunistic pathogens 	
EMPIRIC TREATMENT	Ceftriaxone 2g IV Q24H PLUS metronidazole 500mg IV/PO Q8H <u>Alternative for Severe PCN allergy</u> Ciprofloxacin 400mg IV/500mg PO Q12H PLUS metronidazole 500mg IV/PO Q8H Consider deferring antibiotics in lower-risk patients* with acute uncomplicated diverticulitis	Piperacillin-tazobactam IV 3.375g Q8H OR Cefepime 1-2g IV Q8H PLUS metronidazole 500mg Q8H <u>Alternative for Severe PCN allergy</u> Ciprofloxacin 400mg IV Q8H/750mg PO Q12H PLUS metronidazole 500mg IV/PO Q8H	
	 Please refer to the <u>Antibiotic Surgical Prophylaxis Guidelines</u> for surgical antibiotic prophylaxis recommendations For suspected or confirmed cholecystitis/cholelithiasis/choledocholithiasis undergoing laparoscopic cholecystectomy, refer to the <u>Laparoscopic Cholecystectomy Pathway</u> For suspected non-perforated appendicitis undergoing laparoscopic appendectomy, refer to the <u>Laparoscopic Appendectomy Guideline</u> 		

HC-CKT-170-GUD.Rev011221

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EMPIRIC ORAL STEP-DOWN	 Possible empiric oral step-down options Amoxicillin-clavulanate 875/125mg Q8H Cefpodoxime 200mg Q12H PLUS metronidazole 500mg Q8H Ciprofloxacin 500mg Q12H PLUS metronidazole 500mg Q8H 			
	Antibiotics for Empiric Coverage of Specific Organisms			
	 Enterococcus spp.: Recommend coverage if severe sepsis, septic shock, post-operative infection, broad-spectrum antibiotics >5d within the past 90d Vancomycin IV per pharmacy protocol pending culture results if patient is on a cephalosporin-based regimen; enterococci are expected to be covered by piperacillin-tazobactam If known history of Vancomycin-Resistant Enterococcus (VRE), daptomycin or linezolid are options 			
	 Candida spp.: Candida coverage is not routinely recommended Recommend coverage for patients who have received recent prolonged broad-spectrum antibiotics, patients heavily colonized with Candida, severely ill patients with hospital-associated intra-abdominal infection due to recurrent bowel perforations, upper gastrointestinal perforations, surgically treated pancreatitis, and/or if yeast identified on gram stain of infected peritoneal fluid or tissue Micafungin recommended pending culture results 			
	MRSA: Staphylococci are not common pathogens in intraabdominal infection; add MRSA coverage if MRSA is identified on culture			
DURATION	 4 days (96 hours) following adequate source control; if percutaneous drain placement is required for abscess, antibiotics should be continued until efficacy of catheter drainage is established Patients undergoing cholecystectomy for acute cholecystitis or appendectomy for non-perforated appendicitis should have antibiotics discontinued within 24 hours unless there is evidence of infection outside the wall of the gallbladder or appendix For patients in whom source control is known to be suboptimal, duration must be made on a case-by-case basis but recommend no more than 5-7 days of antibiotics without re-evaluation for source control 			

*Age <70, no malignancy, no immunosuppression, no significant renal or hepatic impairment

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