ANMC Antibiotic Guidelines for Gastrointestinal Infection					
High Risk/Severe Criteria		Suspected Pathogens		Cultures	
<ul> <li>Albumin &lt;2.5</li> <li>Age &gt;70 yo</li> <li>Immunocompromised state</li> <li>Severe sepsis/septic shock</li> </ul>		Polymicrobial process: Enterobacteriaceae Enterococcus sp. Anaerobes (including Bacteroides sp.) *Anaerobes are less significant for biliary sources unless bile duct to bowel anastomosis or fistula present		<ul> <li>Routinely obtaining cultures is not recommended for community-acquired infections.</li> <li>Cultures SHOULD be obtained in patients with nosocomial infection or who require operation for prior treatment failure</li> </ul>	
Antibiotic Selection					
Mild-Moderate Risk		High Risk/Severe		Duration of Therapy	
Extra-biliary Source <ul> <li>Appendicitis</li> <li>Diverticulitis</li> <li>Bowel perforation with peritonitis</li> </ul> Billiary Source <ul> <li>Cholecystitis</li> </ul>	Preferred therapy: Cefazolin 2gm IV q8hr PLUS Metronidazole 500mg IV q8hr Type I PCN Allergy: Levofloxacin 500mg IV q24hr PLUS Metronidazole 500mg IV q8hr Preferred therapy: Cefazolin 2gm IV q8hr Type I PCN Allergy: Levofloxacin 500mg IV q24hr *If bilio-enteric anastomosis present add metronidazole 500mg IV/PO q8h		<ul> <li>Preferred therapy:</li> <li>Piperacillin/Tazobactam 3.375g (extended infusion over 4 hours)</li> <li>Type I PCN Allergy:</li> <li>Levofloxacin 500mg IV q24hr P</li> <li>Metronidazole 500mg IV q8hr</li> <li>Preferred therapy:</li> <li>Piperacillin/Tazobactam 3.375g (extended infusion over 4 hours)</li> <li>Type I PCN Allergy:</li> </ul>	s) P <b>LUS</b> Jm IV q8hr	<ul> <li>Adequate surgical source control achieved*: 4 days</li> <li>Retained focus of infection         <ul> <li>Guided by clinical response</li> <li>Consider ID consult</li> </ul> </li> <li>Uncomplicated diverticulitis: 5 days</li> <li>Uncomplicated: ≤ 24 hours</li> <li>Non-operative (uncomplicated) management: 5 days</li> <li>Complicated: 7-14 days</li> </ul>
Cholangitis			Levofloxacin 500mg IV q24hr <b>PLUS</b> Metronidazole 500mg IV q8hr		<ul> <li>Delayed clinical response</li> <li>Inadequate source control*</li> <li>Consider ID consult</li> </ul>
Pediatric Dosing			IV to PO Conversion		
<ul> <li>Cefazolin 30 mg/kg/dose IV q8hr</li> <li>Cephalexin 10 mg/kg/dose PO q6hr</li> <li>Ciprofloxacin 15 mg/kg/dose PO q12hr</li> <li>Levofloxacin 10 mg/kg/dose IV q24hr (q12hr if &lt;5 yo)</li> <li>Metronidazole 10 mg/kg/dose IV/PO q8hr</li> <li>Piperacillin/Tazobactam 50 mg/kg/dose (piperacillin) IV q6hr</li> <li>*Pediatric abx selection is the same as adults, dosing is provided here for reference.</li> </ul>			<ul> <li>Cefazolin 2g IV q8hr→Cephalexin 1g PO TID</li> <li>Levofloxacin 500mg IV q24hr→Levofloxacin 500mg PO q24hr</li> <li>Metronidazole 500mg IV q8hr→Metronidazole 500mg PO q8hr Piperacillin/Tazobactam→Depends on clinical scenario; consider antimicrobial pharmacy or infectious diseases consultation</li> </ul>		
<ul> <li>Comments:         <ul> <li>Due to <i>E.coli</i> resistance &gt;10%, empiric quinolone use alone is cautioned in high-risk/severe cases                 <ul></ul></li></ul></li></ul>					

Joint Surgical Infection Society and Infectious Diseases Society of America Guidelines (CID 2010:50); Clinical Practice Guidelines for Antimicrobial Prophylaxis in Surgery (ASHP 2013;70(3)); Trial of short-course antimicrobial therapy for intraabdominal infection (NEJM 2015;372:1996-2005)