



PEDIATRIC (0-18 YEARS) SURGICAL ANTIBIOTIC PROPHYLAXIS PROTOCOL

AUTHORIZATION IS GRANTED TO DISPENSE AND ADMINISTER AN ALTERNATE DRUG PRODUCT ACCEPTABLE TO THE MEDICAL STAFF'S PHARMACY COMMITTEE UNLESS THE DRUG PRODUCT IS SPECIFICALLY CIRCLED.

- This protocol is used when provider orders surgical antibiotic prophylaxis per protocol.
- If history of severe or life-threatening allergic reaction to penicillin, amoxicillin or related cephalosporins, then give alternative antibiotic
- Timing of the first dose: Initial antibiotic dose for all drugs must be started within one hour prior to incision except Vancomycin, which must be started within 2 hours prior to incision because of the prolonged infusion time required.
- Redosing should occur if the surgery lasts > 2 half-lives of the antibiotic. Redosing may be needed if there is excessive blood loss (i.e. >1500 mL)
- Duration of surgical antimicrobial prophylaxis: In clean and clean-contaminated procedures, the CDC does not recommend prophylactic antibiotics after the surgical incision is closed in the operating room, even in the presence of a drain (Category IA—strong recommendation; high-quality evidence - Berríos-Torres 2017)¹. If antibiotics are continued post-operatively, they should be discontinued after 24 hours even in the presence of a drain.²
- **Maximum doses:** Ampicillin 2 grams, Ampicillin/sulbactam 3 grams, Cefazolin 2 grams (weight <120kg), Cefazolin 3 grams (weight ≥120kg), Clindamycin 900 mg, Metronidazole 500 mg, Gentamicin (No max. If obese, dose based on dosing weight), Vancomycin 2 grams
- See Pharmacy Website for Adult and Interventional Radiology Pre-Op/Pre-Procedure Antibiotic Dosing Protocol

Type of Procedure	Preferred First Line		Alternative if allergy to preferred antibiotic	
	Pre-OP	Intra-op Re-dosing	Pre-OP	Intra-op Re-dosing
Gastrointestinal Esophageal and Gastroduodenal Hernia Repair	Cefazolin 30 mg/kg	Cefazolin 30 mg/kg Q 4 hrs	Clindamycin 10 mg/kg + Gentamicin 2.5 mg/kg	Clindamycin 10 mg/kg Q 6 hrs
Biliary Tract	Cefazolin 30mg/kg	Cefazolin 30 mg/kg Q 4 hrs	Clindamycin 10 mg/kg + Gentamicin 2.5 mg/kg	Clindamycin 10 mg/kg Q 6 hrs
Colorectal or Appendectomy or Ruptured Viscus	Cefazolin 30mg/kg + Metronidazole 15mg/kg	Cefazolin 30 mg/kg Q 4 hrs	Clindamycin 10 mg/kg + Gentamicin 2.5 mg/kg	Clindamycin 10 mg/kg Q 6 hrs
Genitourinary	Cefazolin 30 mg/kg	Cefazolin 30 mg/kg Q 4 hrs	Vancomycin 15 mg/kg + Gentamicin 2.5 mg/kg	N/A
Head and Neck Surgery (No antibiotics indicated for tonsillectomy, adenoidectomy, blepharoplasties, lymph node biopsies)	Cefazolin 30 mg/kg OR Ampicillin/sulbactam 50 mg/kg (ampicillin component) for dental surgery or incision through oral or pharyngeal mucosa	Cefazolin 30 mg/kg Q 4 hrs OR Ampicillin/sulbactam 50 mg/kg Q 2 hrs	Clindamycin 10 mg/kg	Clindamycin 10 mg/kg Q 6 hrs
Neurosurgery (Craniotomy, ventricular shunt placement)	Cefazolin 30 mg/kg	Cefazolin 30 mg/kg Q 4 hrs	Vancomycin 15 mg/kg	N/A
Orthopedic (Internal fixation of fractures or prosthetic joints)	Cefazolin 30 mg/kg	Cefazolin 30 mg/kg Q 4 hrs	Vancomycin 15 mg/kg	N/A
Thoracic (Non-Cardiac)	Cefazolin 30 mg/kg	Cefazolin 30 mg/kg Q 4 hrs	Vancomycin 15 mg/kg	N/A
Traumatic Wound (Non-Bites)	Cefazolin 30 mg/kg	Cefazolin 30 mg/kg Q 4 hrs	Clindamycin 10 mg/kg + Gentamicin 2.5 mg/kg	Clindamycin 10 mg/kg Q 6 hrs

The provider's full signature, date & time is to follow the order -
Abbreviations for names are not acceptable.

PROVIDER SIGNATURE **DATE** **TIME**

PATIENT ID LABEL

References:

1. Berríos-Torres SI, Umscheid CA, Bratzler DW, et al; Healthcare Infection Control Practices Advisory Committee. Centers for Disease Control and Prevention Guideline for the Prevention of Surgical Site Infection, 2017. *JAMA Surg.* 2017 Aug 1;152(8):784-791.
2. Bratzler DW, Dellinger EP, Olsen KM, et al; ASHP; IDSA.; SIS.; SHEA. Clinical practice guidelines for antimicrobial prophylaxis in surgery. *Am J Health Syst Pharm.* 2013 Feb 1;70(3):195-283.