

ANMC Surgical Prophylaxis: Antimicrobial Dosing and Intraoperative Redosing

ANMC Preferred Antibiotics

Surgical Procedure	Recommendation	Anaphylaxis to penicillin or cephalosporin allergy
Cardiac or Vascular	Cefazolin	Vancomycin or Clindamycin
Hip/Knee Arthroplasty, Neurosurgery	Cefazolin	Vancomycin or Clindamycin
Abdominal (gallbladder, hernia, etc) or Hysterectomy	Cefazolin	(Ciprofloxacin or Gentamicin) + (Clindamycin or Vancomycin)
Appendectomy, Colorectal, or Lower GI Tract	Cefazolin + Metronidazole	(Ciprofloxacin or Gentamicin) + (Clindamycin or Metronidazole)

Administer all prophylactic antibiotics within 1 hour prior to surgical incision

EXCEPT: Vancomycin and Fluoroquinolone infusions should be initiated 15 minutes to 2 hours prior to surgical incision

Antimicrobial	Recommended Dose		Redosing interval after initiation of preoperative dose
	Adults	Pediatrics	
Cefazolin	<120 kg: 2 gm ≥ 120 kg: 3 gm	30 mg/kg (max dose 2000 mg)	4 hours
Ceftriaxone	2 gm	50-75 mg/kg (max dose 2000 mg)	N/A due to long half-life
Ciprofloxacin	400 mg	10 mg/kg (max dose 400 mg)	N/A due to long half-life
Clindamycin	900 mg	10 mg/kg (max dose 900 mg)	6 hours
Gentamicin*	5 mg/kg	2.5 mg/kg	N/A due to long half-life
Levofloxacin	750 mg	10 mg/kg (max dose 750 mg)	N/A due to long half-life
Metronidazole	500-1000 mg	15 mg/kg (max dose 500 mg) (Neonates < 1200 g use 7.5 mg/kg x 1 dose)	N/A due to long half-life
Piperacillin-tazobactam	3.375 gm	2-9 mo: 90 mg/kg > 9 mo and ≤ 40 kg: 112.5 mg/kg (max dose 3.375 gm)	2 hours
Vancomycin	<70 kg: 1 gm 70-100 kg: 1.5 gm >100 kg: 2 gm	15 mg/kg	N/A due to long half-life

* For BMI > 30 kg/m², use adjusted body weight to dose.

Adjusted body weight = [(actual body weight – ideal body weight) x 0.4] + ideal body weight