

Suggested Antibiotics for Prevention of Wound Infection and Sepsis in Adult Surgical Patients 2005								
Category	Surgery	Preoperative IV		Intra-op IV (Surgery lasting >3 4 hours or Blood loss greater than 1500 ml)		Post-op IV		Infusion Rates (minutes)
		Antibiotic	Dose	Antibiotic	Dose	Antibiotic	Dose	
Cardiac	All with sternotomy, cardiopulmonary bypass, prosthetic valve, pacemaker implant, and other open-heart surgeries	Cefazolin	1 gm (wt < 100 kg)	Cefazolin	Same as pre-op	Cefazolin q8h x 3 doses	Same as pre-op	Fastest: 3-5 minutes Ideal: 20-30 minutes
		or	2 gm (wt ≥ 100 kg)					
		Vancomycin	15 mg/kg (maximum 2 gm)	Not Indicated	Not Indicated	Vancomycin q12h x 2	15 mg/kg (maximum 2 gm)	500 mg/hour (1-2 hours)
		Vancomycin	15 mg/kg (maximum 2 gm)	Not Indicated	Not Indicated	Vancomycin q12h x 2	15 mg/kg (maximum 2 gm)	500 mg/hour (1-2 hours)
		or				Clindamycin q8h x 3	600-900 mg	Fastest: 30 minutes Ideal: 30 minutes
		Clindamycin	600-900 mg	Not Indicated	Not Indicated			
	Betalactam Allergic Patients	Mupirocin (Bactroban)	<u>Intranasal</u> evening before surgery	Not Indicated	Not Indicated	Mupirocin (Bactroban)	Intranasal bid x 5 days	

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		Antibiotic	Dose	Antibiotic	Dose	Antibiotic	Dose	

Gastrointestinal									
Appendectomy	Uncomplicated: preoperative use only	Cefoxitin	1 gm (wt < 100 kg) 2 gm (wt > 100 kg)	Cefoxitin	Same as pre-op	Not Indicated	Not Indicated	Fastest: 3-5 minutes Ideal: 30 minutes	
		or (Cefazolin plus Metronidazole)	1 gm (wt < 100 kg) 2 gm (wt > 100 kg) 500 mg	Cefazolin	Same as pre-op	Not Indicated	Not Indicated	Fastest: 3-5 minutes Ideal: 20-30 minutes	
			500 mg	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Fastest: 60 minutes Fastest: 30 minutes Ideal: 30 minutes	
		Betalactam Allergic Patients	Clindamycin with (gentamicin or Levofloxacin or Aztreonam)	600-900 mg 1.5 mg/kg 750 mg 1 gm (wt < 100 kg) 2 gm (wt > 100 kg)	Not Indicated		Not Indicated	Not Indicated	Ideal: 30-60 minutes Ideal: 60-90 minutes
			1.5 mg/kg	Not Indicated		Not Indicated	Not Indicated	Ideal: 30-60 minutes	
			750 mg	Not Indicated		Not Indicated	Not Indicated	Ideal: 60-90 minutes	
			1 gm (wt < 100 kg) 2 gm (wt > 100 kg)	Aztreonam	Same as preop	Not Indicated	Not Indicated	Fastest: 3-5 minutes Ideal: 20-60 minutes	
			500 mg	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Ideal: 60 minutes	
			1.5 mg/kg	Not Indicated		Not Indicated	Not Indicated	Ideal: 30-60 minutes	
			750 mg	Not Indicated		Not Indicated	Not Indicated	Ideal: 60-90 minutes	
Biliary Tract	Open and laparoscopic procedures High risk only: > 70 years old, obstructive jaundice, acute cholecystitis, nonfunctioning gallbladder, and common duct stone	Cefazolin	1 gm (wt < 100 kg) 2 gm (wt > 100 kg)	Cefazolin	Same as pre-op	Not Indicated	Not Indicated	Fastest: 3-5 minutes Ideal: 20-30 minutes	
		or Cefoxitin	1 gm (wt < 100 kg) 2 gm (wt > 100 kg)	Cefoxitin	Same as pre-op	Not Indicated	Not Indicated	Fastest: 3-5 minutes Ideal: 30 minutes	
								Fastest: 30 minutes Ideal: 30 minutes	
		Betalactam Allergic Patients	Clindamycin	600-900 mg	Not Indicated	Not Indicated	Not Indicated	Not Indicated	

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Gastrointestinal Continue: Colorectal	Operations that open the colon and/or rectum	Oral Bowel Regimen						
		Neomycin	1 gm orally at 19, 18, and 9 hours before surgery	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated
		plus						
		Erythromycin	1 gm orally at 19, 18, and 9 hours before surgery	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated
		Erythromycin Allergic Patients						
		Use						
		Metronidazole in place of erythromycin	500 mg orally at 19, 18, and 9 hours before surgery	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated
		Cefoxitin	1 gm (wt < 100 kg) 2 gm (wt > 100 kg)	Cefoxitin	Same as pre-op	Not Indicated	Not Indicated	Fastest: 3-5 minutes Ideal 30 minutes
		or						
		(Cefazolin plus	1 gm (wt < 100 kg) 2 gm (wt > 100 kg)	Cefazolin	Same as pre-op	Not Indicated	Not Indicated	Fastest: 3-5 minutes Ideal: 20-30 minutes
		Metronidazole)	500 mg	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Fastest: 60 minutes
		or						
		Ampicillin- sulbactam	3 gm	Ampicillin- Sulbactam	Same as pre-op	Not Indicated	Not Indicated	Fastest: 10-15 Minutes Ideal: 15-30 minutes Fastest: 30 minutes Ideal: 30 minutes
		Betalactam Allergic Patients						
		Clindamycin with	600-900 mg	Not Indicated		Not Indicated	Not Indicated	
(gentamicin or	1.5 mg/kg	Not Indicated		Not Indicated	Not Indicated	Ideal: 30-60 minutes		
Levofloxacin or	750 mg	Not Indicated		Not Indicated	Not Indicated	Ideal: 60-90 minutes		
Aztreonam)	1 gm (wt < 100 kg) 2 gm (wt > 100 kg)	Aztreonam	Same as preop	Not Indicated	Not Indicated	Fastest: 3-5 minutes Ideal: 20-60 minutes		
Metronidazole with	500 mg	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Ideal: 60 minutes		
(gentamicin or	1.5 mg/kg	Not Indicated		Not Indicated	Not Indicated	Ideal: 30-60 minutes		
Levofloxacin)	750 mg	Not Indicated		Not Indicated	Not Indicated	Ideal: 60-90 minutes		

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		Antibiotic	Dose	Antibiotic	Dose	Antibiotic	Dose	
Gastrointestinal Continued								
Gastroduodenal	Gastric bypass, percutaneous endoscopic gastrostomy, and esophageal High risk only: morbid obesity and when gastric acidity and gastrointestinal motility are diminished by obstruction, hemorrhage, gastric ulcer or malignancy, and use of H2-blocker or proton pump inhibitors.	Cefazolin	1 gm (wt < 100 kg) 2 gm (wt > 100 kg)	Cefazolin	Same as pre-op	Not Indicated	Not Indicated	Fastest: 3-5 minutes Ideal: 20-30 minutes
		or						
		Cefoxitin	1 gm (wt < 100 kg) 2 gm (wt > 100 kg)	Cefoxitin	Same as pre-op	Not Indicated	Not Indicated	Fastest: 3-5 minutes Ideal: 30 minutes
		or						
								Fastest: 30 minutes Ideal: 30 minutes
	Betalactam Allergic Patients	Clindamycin	600-900 mg	Not Indicated	Not Indicated	Not Indicated	Not Indicated	

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		Antibiotic	Dose	Antibiotic	Dose	Antibiotic	Dose	
Genitourinary	Transrectal Prostate Biopsy Urologic: High Risk Only: positive urine culture or culture unavailable, peroperative catheterization or in hospitals where infection rates exceed 20%, or prolong catheterization.	Ciprofloxacin	500 mg orally 12 hours prior to biopsy	Not Indicated	Not Indicated	Ciprofloxacin	500 mg orally 12 hours post biopsy	
		Cefazolin	1 gm (wt < 100 kg) 2 gm (wt > 100 kg)	Cefazolin	Same as pre-op	Nitrofurantoin or Bactrim for 5-10 days if preoperative bacteruria		Fastest: 3-5 minutes Ideal: 20-30 minutes
		or Levofloxacin	500 mg	Not Indicated	Not Indicated			Ideal: 60-90 minutes

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		Antibiotic	Dose	Antibiotic	Dose	Antibiotic	Dose	

Gynecologic and Obstetrics	Cesarean section High risk such as active labor or premature rupture of membranes	Cefazolin	2 gm after cord clamped			Not Indicated	Not Indicated	Fastest: 3-5 Fastest: 30 minutes Ideal: 30 minutes	
	Betalactam Allergic Patients	Clindamycin	600-900 mg	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Ideal: 20-30 Ideal: 20-30	
	Vaginal or abdominal hysterectomy	Cefazolin	1 gm (wt < 100 kg) 2 gm (wt > 100 kg)	Cefazolin	Same as pre-op	Not Indicated	Not Indicated	Fastest: 3-5 Ideal: 20-30	
		or	Cefoxitin	1 gm (wt < 100 kg) 2 gm (wt > 100 kg)	Cefoxitin	Same as pre-op	Not Indicated	Not Indicated	Fastest: 3-5 minutes Ideal 30 minutes
		or	Ampicillin- sulbactam	3 gm	Ampicillin- Sulbactam	Same as pre-op	Not Indicated	Not Indicated	Fastest: 10-15 Minutes Ideal: 15-30 minutes
	Betalactam Allergic Patients	Clindamycin with (gentamicin or Levofloxacin or	600-900 mg	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Ideal: 30-60 minutes
		1.5 mg/kg	Not Indicated		Not Indicated	Not Indicated	Not Indicated	Ideal: 60-90 minutes	
		750 mg	Not Indicated		Not Indicated	Not Indicated	Not Indicated	Ideal: 60-90 minutes	
		or	Aztreonam	1 gm (wt < 100 kg) 2 gm (wt > 100 kg)	Aztreonam	Same as preop	Not Indicated	Not Indicated	Fastest: 3-5 minutes Ideal: 20-60 minutes
		500 mg	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Not Indicated	Ideal: 60 minutes	
		with (gentamicin or Levofloxacin) or	1.5 mg/kg	Not Indicated		Not Indicated	Not Indicated	Not Indicated	Ideal: 30-60 minutes
		750 mg	Not Indicated		Not Indicated	Not Indicated	Not Indicated	Ideal: 60-90 minutes	
		or	Clindamycin	600-900 mg	Not Indicated		Not Indicated	Not Indicated	Fastest: 30 minutes Ideal: 30 minutes

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		Antibiotic	Dose	Antibiotic	Dose	Antibiotic	Dose	

Head and Neck	Operations involving mucous membranes and deep tissue, entering oral cavity or pharynx	Cefazolin	2 gm	Cefazolin	Same as preop	Cefazolin q8h x 3	2 gm	Fastest: 3-5 Ideal: 20-30 Fastest: 30 minutes Ideal: 30 minutes
		or (Clindamycin plus	600-900 mg	Not Indicated	Not Indicated	Clindamycin q8h x 3	600-900 mg	
		Gentamicin)	1.5 mg/kg	Not Indicated	Not Indicated	Gentamicin q8h x 3	same as preop	

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		Antibiotic	Dose	Antibiotic	Dose	Antibiotic	Dose	
Neurosurgery	Craniotomy, CNS shunts, or laminectomy	Cefazolin	1 gm (wt < 100 kg) 2 gm (wt > 100 kg)	Cefazolin	Same as pre-op	Not Indicated	Not Indicated	Fastest: 3-5 Ideal: 20-30
		or Vancomycin	15 mg/kg (maximum 2 gm)	Not Indicated	Not Indicated	Not Indicated	Not Indicated	

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		Antibiotic	Dose	Antibiotic	Dose	Antibiotic	Dose	

Orthopedic	Insertion of prosthetic joints, hip fracture, internal fixation of closed fracture, and spinal fusion	Cefazolin	1 gm (wt < 100 kg) 2 gm (wt > 100 kg)	Cefazolin	Same as pre-op	Cefazolin q8h x 3 doses	Same as pre-op	Fastest: 3-5 Ideal: 20-30
		or						
		Vancomycin	15 mg/kg (maximum 2 gm)	Not Indicated	Not Indicated	Vancomycin q12h x 2	15 mg/kg (maximum 2 gm)	500 mg/hour (1-2 hours)
		Betalactam Allergic Patients	Vancomycin or	15 mg/kg (maximum 2 gm)	Not Indicated	Not Indicated	Vancomycin q12h x 2	15 mg/kg (maximum 2 gm)
		Clindamycin	600-900 mg	Not Indicated	Not Indicated	Clindamycin q8h x 3	600-900 mg	Fastest: 30 minutes Ideal: 30 minutes

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		Antibiotic	Dose	Antibiotic	Dose	Antibiotic	Dose	

Thoracic (pulmonary)	Betalactam Allergic Patients	Cefazolin	1 gm (wt < 100 kg) 2 gm (wt > 100 kg)	Cefazolin	Same as pre-op	Cefazolin q8h x 3 doses	Same as pre-op	Fastest: 3-5 Ideal: 20-30
		or	15 mg/kg (maximum 2 gm)	Not Indicated	Not Indicated	Vancomycin q12h x 2	15 mg/kg (maximum 2 gm)	
		(Vancomycin with or without Gentamicin) or	1.5 mg/kg	Not Indicated	Not Indicated	Gentamicin q8h x 3	1.5 mg/kg	Fastest: 30 minutes Ideal: 30 minutes
		Clindamycin	600-900 mg	Not Indicated	Not Indicated	Clindamycin q8h x 3	600-900 mg	

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		Antibiotic	Dose	Antibiotic	Dose	Antibiotic	Dose		
Vascular	Lower extremity amputation for ischemia	Cefazolin	1 gm (wt < 100 kg) 2 gm (wt > 100 kg)	Cefazolin	Same as pre-op	Cefazolin q8h x 3 doses	Same as pre-op	Fastest: 3-5 Ideal: 20-30	
		or Vancomycin	15 mg/kg (maximum 2 gm)	Not Indicated	Not Indicated	Vancomycin q12h x 2	15 mg/kg (maximum 2 gm)		500 mg/hour (1-2 hours)
	Vascular (non cardiac): abdominal aortic resection, groin incision, or prosthetic bypass	Cefazolin	1 gm (wt < 100 kg) 2 gm (wt > 100 kg)	Cefazolin	Same as pre-op	Cefazolin q8h x 3 doses	Same as pre-op	Fastest: 3-5 Ideal: 20-30	
		or (Vancomycin	15 mg/kg (maximum 2 gm)	Not Indicated	Not Indicated	Vancomycin q12h x 2	15 mg/kg (maximum 2 gm)		500 mg/hour (1-2 hours)
		with or without Gentamicin)	1.5 mg/kg	Not Indicated	Not Indicated	Gentamicin q8h x 3	1.5 mg/kg		Ideal: 30-60
		or Clindamycin	600-900 mg	Not Indicated	Not Indicated	Clindamycin q8h x 3	600-900 mg		Fastest: 30 minutes Ideal: 30 minutes