

PRE-OPERATIVE ANTIBIOTIC PROPHYLAXIS GUIDELINES

TYPE OF OPERATION	RECOMMENDED DRUGS	SERIOUS PCN ALLERGIC
I. BREAST BIOPSY OR MASTECTOMY	Cefazolin 1 gm IV 30 minutes pre-op (Increase dose to 2 gms for obese patients)	Erythromycin??
II. CARDIAC SURGERY		
a. Valve Replacement	Cefazolin 1 gm IV 30 minutes pre-op and q8h x 5 doses or Cefuroxime 1.5 gm IV 30 minutes pre-op and q12h x 3 doses (Increase doses of both drugs to 2 gms for obese patients)	Vancomycin 1 gm IV to finish 30-90 minutes pre-op and q12h x 3 doses
b. CABG	Cefazolin 1 gm IV 30 minutes pre-op and q8h x 5 doses or Cefuroxime 1.5 gm IV 30 minutes pre-op and q12h x 3 doses (Increase doses of both drugs to 2 gms for obese patients)	Vancomycin 1 gm IV to finish 30-90 minutes pre-op and q12h x 3 doses
c. Pacemaker Insertion	Cefazolin 1 gm IV 30 minutes pre-op and q8h x 2-5 doses	Vancomycin 1 gm IV to finish 30-90 minutes pre-op and q12h x 1-3 doses
d. AICD Insertion	Cefazolin 1 gm IV 30 minutes pre-op and q8h x 2-5 doses	Vancomycin 1 gm IV to finish 30-90 minutes pre-op and

q12h x 1-3 doses

III. GASTROINTESTINAL PROCEDURES

a. Esophageal Surgery

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| 1) Normal risk | None | None |
| 2) High risk (H ₂ blocker, decreased gastric acidity, hemorrhage, gastric obstruction, gastric bypass, or PEG tubes) | Cefazolin 1 gm IV 30 minutes pre-op | Clindamycin 600 mg IV and Gentamicin 1.7 mg/kg IV 30 minutes pre-op |

b. Gastric Surgery

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|---|---|---|
| 1) Normal risk | None | None |
| 2) High risk (H ₂ blocker, decreased gastric acidity, hemorrhage, gastric obstruction, gastric bypass, or PEG tubes) | Cefazolin 1 gm IV 30 minutes pre-op (Increase dose to 2 gms for obese patients) | Clindamycin 600 mg IV and Gentamicin 1.7 mg/kg IV 30 minutes pre-op |

c. Small Bowel

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| Cefazolin 1 gm IV 30 minutes pre-op (Increase dose to 2 gms for obese patients) | Clindamycin 600 mg IV 30 minutes pre-op |
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d. Elective Colorectal Case

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| 1. Mechanical prep | 1. Mechanical prep |
| 2. Neomycin and Erythromycin at 1pm, 2pm and 11pm on the day prior to surgery | 2. Neomycin and Erythromycin at 1pm, 2pm and 11pm on the day prior to surgery |
| 3. Cefoxitin 1 gm IV 30 minutes pre-op (Increase dose to 2 gms for obese patients) | 3. Clindamycin 600 mg IV and Gentamicin 1.7 mg/kg IV 30 minutes pre-op |

e. Emergent Colorectal Case	Cefoxitin 1 gm IV 30 minutes pre-op and q8h x 2 doses (Increase dose to 2 gms for obese patients)	Gentamicin 1.7 mg/kg IV and Metronidazole 500 mg IV 30 minutes pre-op
f. Appendectomy (nonruptured)	Cefoxitin 2 gm IVPB 30 minutes pre-op	Gentamicin 1.7 mg/kg and Metronidazole 500 mg IV 30 minutes pre-op
g. Elective Splenectomy	None	None
h. Biliary Surgery	Cefazolin 1 gm IV 30 minutes pre-op or Cefoxitin 1 gm IV 30 minutes pre-op (Increase dose of both drugs to 2 gms for obese patients)	Gentamicin 1.7 mg/kg IV 30 minutes pre-op and q8h x 2 doses
i. Penetrating Abdominal Trauma	Cefoxitin 2 gm IV 30 minutes pre-op	Gentamicin 1.7 mg/kg IV and Clindamycin 900 mg IV 30 minutes pre-op
j. Nonvascular Abdominal Surgery NOT Involving a Viscus	None	None
k. Hernia Repair	None	None

IV. GYNECOLOGIC AND OBSTETRICAL

a. Hysterectomy (vaginal or abdominal), Retropubic Urethropexy, Tension-free Vaginal Tape, Abdominal Sacralcolpopexy,	Cefazolin 1 gm IV 30 minutes pre-op and q8h x 1 dose only if case lasts longer than 3 hours or > 1500ml blood loss (Increase dose to 2 gms for obese patients)	Metronidazole 500 mg IV 30 minutes pre-op
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A&P Repair,
Operative Hysteroscopy,
Myoma Resection, or
Endometrial Ablation

b. C-section	Cefazolin 1 gm IV after cord clamped, and add q8h x 2 doses for high risk cases (prematurity, ROM, ruptured membranes, and active labor)	Metronidazole 500 mg IV after cord clamped
c. Abortion		
1) 1 st trimester	Penicillin G 2 million units IV 30 minutes pre-op or Doxycycline 100 mg IV 30 minutes pre-op and 200 mg PO 2 hours post-op	Doxycycline 100 mg IV 30 minutes pre-op and 200 mg PO 2 hours post-op
2) 2 nd trimester	Cefazolin 1 gm IV 30 minutes pre-op (Increase dose to 2 gms for obese patients)	Metronidazole 500 mg PO x 3 doses or Doxycycline 300 mg PO post-op
d. Uncomplicated D&C	None	None
e. Tubal Ligation	None	None
f. Cystocoele/Rectocele Repair	None	None
V. HEAD & NECK		
a. Tonsillectomy	None	None
b. Oral or Pharyngeal Incisions	Clindamycin 600 mg IV ±	Clindamycin 600 mg IV ±

	Gentamicin 1.7 mg/kg IV 30 minutes pre-op or Cefazolin 2 gm IV 30 minutes pre-op	Gentamicin 1.7 mg/kg IV 30 minutes pre-op
c. Rhinoplasty	None	None
VI. NEUROSURGERY		
a. Craniotomy	Cefazolin 1-2 gms IV 30 minutes pre-op or Vancomycin 1 gm IV to finish 30-90 minutes pre-op	Vancomycin 1 gm IV to finish 30-90 minutes pre-op
b. Shunts		
1) Infection rate < 10%.	None	None
2) Infection rate > 10%	TMP 160 mg + SMX 800 mg IV 30 minutes pre-op and q12h x 3 doses	TMP 160 mg + SMX 800 mg IV 30 minutes pre-op and q12h x 3 doses
c. Spinal Fusion	None	None
d. Laminectomy	None	None
VII. OPHTHALMIC SURGERY		
a. Retinal and Vitreal Procedures	Topical 5% povidone/iodine prep	Same
b. Strabismus Surgery	Topical 5% povidone/iodine prep, and repeated post-op	Same

c. Pediatric Procedures	Ciloxan or Ocuflor drops instilled q15min x 4 pre-op and topical 5% povidone/iodine prep	Same
d. Glaucoma Procedures (trabeculectomy or tube shunt)	Topical 5% povidone/iodine prep	Same
e. Cataract Surgery	Ciloxan 1 drop instilled 1hour pre-op, and 1 drop of topical 5% povidone/iodine prep instilled just before surgery	Same
f. Glaucoma with Cataract Surgery	Ciloxan drops instilled pre-op, and topical 5% povidone/iodine prep	Same

VIII. ORTHOPEDIC PROCEDURES

a. Hip Arthroplasty or Joint Replacement	Cefazolin 1-2 gm IV 30 minutes pre-op and q8h x 5 doses	Vancomycin 1 gm IV to finish 30-90 minutes pre-op and q12h x 3 doses
b. Joint Replacement (other than hip)	Cefazolin 1-2 gm IV 30 minutes pre-op ± 1 dose 8 hours later (use 2 gms for obese patients or when a tourniquet is used in knee surgery)	Vancomycin 1 gm IV to finish 30-90 minutes pre-op ± 1 dose 12 hours later
c. Open Reduction of Closed Fracture	Cefazolin 1 gm IV 30 minutes pre-op (use 2 gms if obese) ± q8h x 3 doses	Vancomycin 1 gm IV to finish 30-90 minutes pre-op ± q12h x 2 doses
d. Lower Extremity Amputation	Cefoxitin 2 gms IV 30 minutes pre-op	None
e. Arthroscopic Surgery	None	None
f. Spinal Fusion	None	None

	g. Laminectomy	None	None
IX.	THORACIC (Non-Cardiac)		
	a. Lobectomy or Pneumonectomy	Cefazolin 1-2 gm IV 30 minutes pre-op and q8h x 2 doses	Vancomycin 1 gm IV to finish 30-90 minutes pre-op
	b. Penetrating Thoracic Trauma or Chest Tube Placement for Trauma	None	None
X.	UROLOGIC PROCEDURES		
	a. Prostatectomy	Ciprofloxacin 500 mg PO or 400 mg IV 30 minutes pre-op	Ciprofloxacin 500 mg PO or 400 mg IV 30 minutes pre-op
	b. Transrectal Prostate Biopsy	Ciprofloxacin 500 mg PO or 400 mg IV 30 minutes pre-op	Ciprofloxacin 500 mg po or 400 mg IV 30 minutes pre-op
	c. Procedures with Infected Urine		
	1) Urine C&S available	Based on urine C&S	Based on urine C&S
	2) Urine C&S not available	Ciprofloxacin 500 mg PO or 400 mg IV 30 minutes pre-op	Ciprofloxacin 500 mg PO or 400 mg IV 30 minutes pre-op
XI.	VASCULAR SURGERY		
	a. Abdomina Aorta, AV Fistula, Dialysis Access, or Peripheral Vascular	Cefazolin 1-2 gm IV 30 minutes pre-op, and q8h x 3 doses	Vancomycin 1 gm IV to finish 30-90 minutes pre-op and q12h x 2 doses
	b. Groin Procedures	Cefazolin 1-2 gm IV 30 minutes pre-op,	Vancomycin 1 gm IV and Gentamicin

c. Permanent Central Lines (Broviac, Hickman, Portacath, Permacath)	and q8h x 3 doses Cefazolin 1-2 gm IV 30 minutes pre-op	1.7 mg/kg IV to finish 30-90 minutes pre- op and q12h x 2 doses Vancomycin 1 gm IV to finish 30-90 minutes pre-op
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Approved May, 2001
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