

# Antimicrobial Surgical Prophylaxis UWMC

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[Surgical Prophylaxis Guidelines PDF](#)

Surgical Procedure	Antibiotic	Dosing Regimen	IntraOp Re-dosing Interval
Upper GI tract/Pancreaticobiliary* GU (open or laparoscopic) Head & Neck when no mouth or sinus is entered Ortho (except shoulders)/ Thoracic/Vascular/Neurosurgery/Burns-Plastic	Cefazolin  OK to use if PCN allergic	2 g IVPB over 20 min  >120kg, give 3g	3 hr
Ortho SHOULDER (primary arthroplasty or revisions)	Ceftriaxone  <b>PLUS</b>  Vancomycin	Ceftriaxone : 2g IV over 30 min  Vancomycin: 50-70kg = 1g over 60 min 71-100kg = 1.5g over 90 min >120kg = 2g over 120 min	None  Redose if surgery > 8 hours
Colorectal OR GYN-ONC*	Cefazolin  PLUS  Metronidazole	2g Cefazolin + 500mg Metronidazole (1 bag)  >120kg, give 3g Cefazolin + 500mg Metronidazole (2 bags)	Cefazolin: 3 hrs  Metronidazole: None
GYN/OB (hysterectomies)*	Cefazolin  OK to use if PCN allergic	2 g IVPB over 5 min  >120kg, give 3g	3 hr
GU (cystoscopy)*	Levofloxacin	750mg IVPB over 60 min	None
Head & Neck, Dental or Neurosurgery (sinus or mouth involved)*	Ampicillin-Sulbactam	3 g IVPB over 30 min	3 hours
<b>*History of MRSA/+ MRSA screen – give in addition to above</b>	Vancomycin	Vancomycin: 50-70kg = 1g over 60 min 71-100kg = 1.5g over 90 min >120kg = 2g over 120 min	Redose if surgery > 8 hours

**Table 2. Updated Surgical prophylaxis for patients with significant penicillin allergy (i.e. Anaphylaxis)**

Surgical Procedure	Antibiotic	Dosing Regimen	IntraOp Re-dosing Interval
GI/Colorectal/GYN-ONC (Either option is appropriate)*	Levofloxacin PLUS Clindamycin <b>OR</b> Levofloxacin PLUS Metronidazole	750mg IVPB over 60 min 900 mg IVPB over 30 min 750 IVPB over 60 min 1 g IVPB over 30 min	None/ 6 hours None / None
GYN/OB (e.g. hysterectomies)	Levofloxacin PLUS Vancomycin	750 IVPB over 60 min Vancomycin: 50-70kg = 1g over 60 min 71-100kg = 1.5g over 90 min >120kg = 2g over 120 min	None / Redose if surgery > 8 hours
Head/Neck*	Clindamycin	900mg IVPB over 30 min	6 hours
Ortho/Thoracic/Vascular/Neurosurgery/Burns-Plastics	Vancomycin	Vancomycin: 50-70kg = 1g over 60 min 71-100kg = 1.5g over 90 min >120kg = 2g over 120 min	Redose if surgery > 8 hours
Ortho (primary shoulder arthroplasty)	Clindamycin PLUS Vancomycin	900 mg IVPB over 30 min AND Vancomycin: 50-70kg = 1g over 60 min 71-100kg = 1.5g over 90 min min>120kg = 2g over 120 min	6 hours / Redose if surgery > 8 hours
<b>*History of MRSA/+ MRSA screen – give in addition to above</b>	Vancomycin	Vancomycin: 50-70kg = 1g over 60 min 71-100kg = 1.5g over 90 min >120kg = 2g over 120 min	Redose if surgery > 8 hours

Surgical Procedure	Antibiotic	Dosing Regimen	IntraOp Re-dosing Interval
VAD	Cefazolin PLUS OK to use if PCN allergic Vancomycin	2 g IVPB over 5 min >120kg, give 3g Vancomycin: 50-70kg = 1g over 60 min 71-100kg = 1.5g over 90 min >120kg = 2g over 120 min	3 hr Redose if surgery > 8 hours
VAD Penicillin allergic	Levofloxacin PLUS Vancomycin	750mg IVPB over 60 min Vancomycin: 50-70kg = 1g over 60 min 71-100kg = 1.5g over 90 min >120kg = 2g over 120 min	None/ Redose if surgery > 8 hours
Card EP Pacer/ ICD Pre Op*	Cefazolin IV PLUS Cefazolin irrigation	2 g IVPB over 5 min >120kg, give 3g 1g irrigation	3h
*History of MRSA/+ MRSA screen – give in addition to above	Vancomycin Give Vancomycin irrigation instead of Cefazolin	Vancomycin: 50-70kg = 1g over 60 min 71-100kg = 1.5g over 90 min >120kg = 2g over 120 min	Redose if surgery > 8 hours

Surgical Procedure	Antibiotic	Dosing Regimen	IntraOp Re-dosing Interval
Card EP Pacer/ ICD Pre Op Penicillin allergic	Vancomycin IV  PLUS  Vancomycin irrigation	Vancomycin: 50-70kg = 1g over 60 min  71-100kg = 1.5g over 90 min  >120kg = 2g over 120 min  + Vancomycin 1g irrigation	Redose if surgery > 8 hours
CABG*	Cefazolin  OK to use if PCN allergic	2 g IVPB over 20 min  >120kg, give 3g	3 h
<b>*History of MRSA/+ MRSA screen – give in addition to above</b>	Vancomycin	Vancomycin: 50-70kg = 1g over 60 min  71-100kg = 1.5g over 90 min  >120kg = 2g over 120 min	Redose if surgery > 8 hours
CABG Penicillin allergic	Levofloxacin  PLUS  Vancomycin	750mg IVPB over 60 min  Vancomycin: 50-70kg = 1g over 60 min  71-100kg = 1.5g over 90 min  >120kg = 2g over 120 min	None/  Redose if surgery > 8 hours

Surgical Procedure	Antibiotic	Dosing Regimen	IntraOp Re-dosing Interval
For Valves, Vascular Grafts and Select Patients who meet the following: recent and pre-op hospitalization > 3days, on antibiotics preoperatively, history of current or recent MRSA infection)	Cefazolin PLUS  OK to use if PCN allergic  Vancomycin	2 g IVPB over 5 min  >120kg, give 3g  Vancomycin:  50-70kg = 1g over 60 min  71-100kg = 1.5g over 90 min  >120kg = 2g over 120 min	3 h    Redose if surgery > 8 hours
Valves, Vascular Grafts, and Select Patients (as above) Penicillin allergic	Levofloxacin PLUS  Vancomycin	750mg IVPB over 60 min  Vancomycin:  50-70kg = 1g over 60 min  71-100kg = 1.5g over 90 min min>120kg = 2g over 120 min	None    Redose if surgery > 8 hours

## Editorial Information

Approved Date: **11 August 2017**

Next review: **10 August 2019**

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UW Document ID: **OCCAM-ID:246**

UW Sharepoint URL: <https://one.uwmedicine.org/OCCAM/Clinical Content/Antimicrobial Surgical Prophylaxis>

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