

PRE-OPERATIVE ANTIBIOTIC PROPHYLAXIS GUIDELINE

GROUP 1:	Abx?
<b>ABDOMEN/GASTROINTESTINAL/HEPATOBILLIARY</b>	
Bile Duct Surgery	Yes
Diagnostic Endoscopic Procedures	No
Esophageal Surgery	Yes
Gall Bladder Surgery (open or laparoscopic)	Yes
Gastric Band/Gastric Sleeve	Yes
Hernia Repair -(hernioplasty and herniorrhaphy)	Yes
Insertion of Percutaneous Endoscopic Gastrostomy (PEG)	Yes
Liver Surgery	Yes
Open/laparoscopic Surgery with mesh (eg ventral hernia repair)	Yes
Pancreatic Surgery	Yes
Panniculectomy	Yes
Procedures without entry into the lumen of the gastrointestinal tract (anti-reflux, highly selective vagotomy)	Yes
Splenectomy	Yes
Therapeutic Endoscopic Procedures (endoscopic retrograde cholangiopancreatography[ERCP])	Yes
<b>CARDIAC/ THORACIC/ VASCULAR</b>	
Implantable Cardiac Device Insertion (eg pacemaker, ICD)	Yes
Lobectomy/Lung Resection or Pneumonectomy	Yes
Open Heart Surgery (Coronary Artery Bypass and or valve replacement)	Yes
Thoracotomy	Yes
Vascular Surgery (abdominal and lower limb arterial reconstruction)	Yes
Ventricular assist device insertion	Yes
Video assisted thoracoscopic surgery	Yes
<b>CHEST/BREAST</b>	
Breast Surgery	Yes
<b>GYNECOLOGICAL/OBSTETRICAL</b>	
Assisted Delivery	No
Evacuation of incomplete miscarriage	No
Intrauterine contraceptive device insertion	No
<b>HEAD AND NECK/ EAR, NOSE, THROAT/ FACIAL</b>	
Adenoidectomy	No
Closed reduction of nasal fracture	No
Ear Surgery (clean/clean-contaminated, includes tympanostomy tubes)	No
Facial Surgery or Head/Neck with implant or grafts	Yes

GROUP 1:	Abx?
<b>HEAD AND NECK/ EAR, NOSE, THROAT/FACIAL (cont.)</b>	
Facial Surgery or Head/Neck (clean)- no implants or grafts	No
Head and Neck Surgery- Cancer Surgery or Intraoral Bone Grafting Procedures**	Yes**
Microlaryngoscopy with tumor excision	No
Nose, Sinus and Endoscopic Sinus Surgery (Group 1 if desired by Surgeon)	No
Open reduction and internal fixation of compound mandibular fractures	Yes
Panendoscopy	No
Septoplasty	Yes
Septorhinoplasty with or without grafts	Yes
Tonsillectomy/ Uvulopalatopharyngoplasty (Group 1 if desired by Surgeon)	No
<b>NEURO SURGERY/SPINAL SURGERY</b>	
Cerebrospinal fluid shunt placement or revision	Yes
Craniotomy	Yes
Deep brain stimulation device implantation (including battery changes)	Yes
Implantation of intrathecal pumps	Yes
Spinal Surgery with and without instrumentation	Yes
<b>ORTHOPEDIC</b>	
Arthroscopic procedures (Group 1 if desired by Surgeon)	No
Hip Fracture Repair	Yes
Implantation of internal fixation devices (eg nails, screws, plates, pins, wires)	Yes
Lower Limb Amputation	Yes
Hip Fracture Repair	Yes
Implantation of internal fixation devices (eg nails, screws, plates, pins, wires)	Yes
Open Fracture Repair	Yes
Open Surgery for Closed Fracture Repair	Yes
Orthopedic Procedures- Clean involving hand or foot without implant	No
Total Joint Arthroplasty	Yes
<b>UROGENITAL</b>	
Circumcision	No
Genital surgery (non-urologic)	Yes
Penile prosthesis insertion, removal or revision***	Yes***
Shockwave Lithotripsy	No

ADULT GROUP 1 Dosing:

No cephalosporin allergy/ No anaphylaxis to PCN: ceFAZolin (ANCEF) 2 gram [3 gram for patient > 120 kg] IV once 0-60 minutes prior to surgical incision- repeat every 4 hours if surgical case is greater than 4 hours

[\*\*For Head and Neck Surgery- Cancer Surgery or Intraoral Bone Grafting Procedure only ADD metronidazole (FLAGYL) 500 milligram IV once 0-60 minutes prior to surgical incision, no repeat dose needed]

[\*\*\*For penile prosthesis ADD gentamicin 5 milligram/kilogram intravenously once 0-60 minutes prior to surgical incision (Pharmacy to dose), no repeat dose needed]

Cephalosporin allergy OR anaphylaxis to PCN OR unable to determine reaction type to PCN: clindamycin (CLEOCIN) 900 milligram IV once 0-60 minutes prior to surgical incision- repeat every 6 hours if surgical case is greater than 6 hours

[\*\*\*For penile prosthesis ADD gentamicin 5 milligram/kilogram intravenously once 0-60 minutes prior to surgical incision (Pharmacy to dose) no repeat dose needed]

FOR MRSA positive screen or history of MRSA without pre-op screen ADD vancomycin to the antibiotic selections above: vancomycin (VANCOGIN) 15 milligram/kilogram [2 gram MAX] IV once 0-120 minutes prior to surgical incision, no repeat dose needed

GROUP 2:	Abx?
ABDOMEN/GASTROINTESTINAL/HEPATOBILIARY	
Appendectomy	Yes
Colorectal Surgery	Yes
Exploratory laparotomy or laparoscopy	Yes
Gastric resection/ Gastric bypass, repair of strictures of the gastric outlet or Whipple procedure	Yes
Small Intestine Surgery	Yes
GYNECOLOGICAL/OBSTETRICAL	
Abdominal or Vaginal Hysterectomy including robotic or laparoscopic	Yes
Induced Abortion	Yes
UROGENITAL	
Clean without entry to urinary tract-involving implanted prosthesis (includes interstim device placement)	Yes
Clean- Clean/Contaminated with entry into urinary tract	Yes
Endoscopic Ureteric Stone Fragmentation/Removal	Yes
Hypospadias repair (only if urinary catheter is inserted)	Yes
Lower tract instrumentation with risk factors for infection	Yes
Nephrectomy (including robotic procedures)	Yes
Percutaneous nephrolithotomy with stone >= 20mm or with pelvicalyceal dilation	Yes
Prostate Biopsy	Yes
Pubovaginal Sling	Yes
Radical Cystectomy	Yes
Transurethral Resection of the Prostate or prostatectomy procedures	Yes
Transurethral Resection of Bladder Tumors	Yes

#### ADULT GROUP 2 Dosing:

No cephalosporin allergy/ no anaphylaxis to PCN:  
cefOXitin (MEFOXIN) 2 gram IV once 0-60 minutes prior to surgical incision- repeat every 2 hours if surgical case is greater than 2 hours

Cephalosporin allergy OR anaphylaxis to PCN OR unable to determine reaction type to PCN:  
ciprofloxin (CIPRO) 400 milligram IV once 0-120 minutes prior to surgical incision, no repeat dose needed PLUS  
metronidazole (FLAGYL) 500 milligram IV once 0-60 minutes prior to surgical incision, no repeat dose needed

FOR MRSA positive screen or history of MRSA without pre-op screen ADD vancomycin to the antibiotic selections above:  
vancomycin (VANCOGIN) 15 milligram/kilogram [2 gram MAX] IV once 0-120 minutes prior to surgical incision, no repeat dose needed

#### PEDIATRIC (less than age 18 and less than 50 kg)

##### GROUP 1 DOSING:

No cephalosporin allergy/ No anaphylaxis to PCN (non MRSA):  
ceFAZolin (ANCEF) 30 milligram/kilogram intravenously once (MAX 2 gram) 0-60 minutes prior to surgical incision and repeat dose every 4 hours if surgical case is greater than 4 hours  
Cephalosporin allergy OR anaphylaxis to PCN OR unable to determine reaction type to PCN:  
clindamycin (CLEOCIN) 10 milligram/kilogram intravenously once (MAX 900 milligram) 0-60 minutes prior to surgical incision and repeat dose every 6 hours if surgical case is greater than 6 hours

FOR MRSA positive screen or history of MRSA without pre-op screen ADD vancomycin to the antibiotic selections above:  
vancomycin (VANCOGIN) 15 milligram/kilogram intravenously once (MAX 1.5 gram) 0-120 minutes prior to surgical incision, no repeat dose needed

#### PEDIATRIC (less than age 18 and less than 50 kg)

##### GROUP 2 DOSING:

No cephalosporin allergy/ no anaphylaxis to PCN (non MRSA):  
cefOXitin (MEFOXIN) 40 milligram/kilogram intravenously once (MAX 2 gram) 0-60 minutes prior to surgical incision and repeat dose every 2 hours if surgical case is greater than 2 hours

Cephalosporin allergy OR anaphylaxis to PCN OR unable to determine reaction type to PCN:

For creatinine less than 1.5:  
clindamycin (CLEOCIN) 10 milligram/kilogram intravenously once (MAX 900 milligram) 0-60 minutes prior to surgical incision and repeat dose every 6 hours if surgical case is greater than 6 hours PLUS  
gentamycin 2.5 milligram/kilogram intravenously pharmacy to calculate dose (MAX 120 milligram) 0-120 minutes prior to surgical incision, no repeat dose needed

For creatinine greater than or equal to 1.5:  
clindamycin (CLEOCIN) 10 milligram/kilogram intravenously once (MAX 900 milligram) 0-60 minutes prior to surgical incision and repeat dose every 6 hours if surgical case is greater than 6 hours PLUS  
ciprofloxin (CIPRO) 10 milligram/kilogram intravenously once (MAX 400 milligram) 0-120 minutes prior to surgical incision, no repeat dose needed

FOR MRSA positive screen or history of MRSA without pre-op screen ADD vancomycin to the antibiotic selections above:  
vancomycin (VANCOGIN) 15 milligram/kilogram intravenously once (MAX 1.5 gram) 0-120 minutes prior to surgical incision. no repeat dose needed