

Meropenem (Merrem)

A. Pharmacology

1. An intravenous β -lactam antibiotic used to treat a variety of bacterial infections
2. Inhibits cell wall synthesis

B. Indications

1. Intra-abdominal infections
2. Pneumonia
3. Sepsis
4. Skin/skin structure infections
5. Meningitis

C. Contraindications

1. Known hypersensitivity to any component of meropenem or other drugs in the same class (beta lactams, carbapenems)
2. Patients who have demonstrated anaphylactic reactions to beta(β)-lactams.

D. Adverse Effects

1. Anaphylaxis/severe allergic reaction
2. Diarrhea
3. Nausea/vomiting
4. Blood cell disorders (anemia)
5. Redness, pain or swelling at the injection site

E. Dosage

1. As ordered by physician. Dose must be confirmed with ordering physician or MIH consult physician prior to administration.
 - i. **Adults:** 1 gram IV every 8 hours
 - ii. **Adults with kidney (renal) impairment:** dosing adjustment per physician consult

Ampicillin-Sulbactam (Unasyn)

A. Pharmacology

1. Antibacterial combination consisting of semisynthetic antibiotic ampicillin sodium and the beta-lactamase inhibitor sulbactam sodium for intravenous and intramuscular administration

B. Indications

1. Intra-abdominal infection
2. Skin and skin structure infection
3. Pelvic and gynecological infection

C. Contraindications

1. Known hypersensitivity to penicillins
2. Known hypersensitivity to ampicillin, sulbactam or other beta-lactam antibacterial drugs

D. Adverse Effects

1. Severe skin reactions
2. Anaphylaxis/severe allergic reaction
3. Clostridium difficile (severe diarrhea)
4. Abdominal pain, nausea/vomiting
5. Seizures
6. Blood cell disorders (anemia)

E. Dosage

1. As ordered by physician. Dose must be confirmed with ordering physician or MIH consult physician prior to administration.
 - i. **Adults:** 1.5 gram (1 gram ampicillin and 0.5-gram sulbactam) to 3 gram (2-gram ampicillin and 1-gram sulbactam) IV/IM every 6 hours
 - ii. **Adults with liver or kidney (renal) impairment:** dosing adjustment per physician consult

Cefepime (Maxipime)

A. Pharmacology

1. Cephalosporin antibiotic with a broad spectrum of activity against gram-positive and gram-negative bacteria

B. Indications

1. Bacterial Infections
2. Pneumonia
3. Urinary infections
4. Skin/skin structure infections
5. Abdominal Infections

C. Contraindications

1. Known hypersensitivity to cefepime
2. Known hypersensitivity to cephalosporin class of antibacterial drugs
3. Known hypersensitivity to penicillins or other beta-lactam antibacterial drugs

D. Adverse Effects

1. Rash/itching
2. Nausea/vomiting
3. Diarrhea
4. C. difficile infection (severe diarrhea)
5. Blood cell disorders (anemia)
6. Anaphylaxis/allergic reaction
7. Seizures

E. Dosage

1. As ordered by physician. Dose must be confirmed with ordering physician or MIH consult physician prior to administration
 - i. **Adults:** 1-2 gram IV every 8-12 hours
 - ii. **Adults with kidney (renal) impairment:** dosing adjustment per physician consult