

Beta-lactam Antibiotic Cross-Allergy Chart

Beta-lactams	Amoxicillin	Ampicillin	Cloxacillin	Penicillin	Piperacillin	Cephalexin	Cefadroxil	Cefazolin	Cefoxitin	Cefprozil	Cefuroxime	Cefixime	Cefotaxime	Ceftazidime	Ceftriaxone	Cefepime
Amoxicillin		✗	✗	✗	✗	✗	✗	✓	✓	✗	✓	✓	✓	✓	✓	✓
Ampicillin	✗		✗	✗	✗	✗	✗	✓	✓	✗	✓	✓	✓	✓	✓	✓
Cloxacillin	✗	✗		✗	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Penicillin	✗	✗	✗		✗	✓	✓	✓	▲	✓	✓	✓	✓	✓	✓	✓
Cephalexin	✗	✗	✓	✓	▲		✗	✓	✓	✗	✓	✓	✓	✓	✓	✓

LEGEND

- ✓ Considered safe to prescribe
- ✗ **AVOID:** Cross reaction based on same side chain or beta-lactam ring.
- ▲ **USE WITH CAUTION:** Similar side chain—potential for cross reaction. Monitor first dose closely (vital signs at 15, 30, and 60 minutes post first dose)

AVOID all beta-lactam antibiotics if:

- **ICU admission related to allergy**
- **Delayed beta-lactam antibiotic allergy causing:**

 - Interstitial nephritis
 - Hepatitis
 - Hemolytic anemia
- **Delayed severe skin allergic reactions:**

 - Stevens-Johnson syndrome
 - Toxic epidermal necrolysis
 - Exfoliative dermatitis
 - Acute generalized exanthematous pustulosis (AGEP)
 - Drug reaction with eosinophilia and systemic symptoms (DRESS)