

Aspirus Hospital Summary of FDA-Approved β -lactam Antibiotics with Similar Side Chains^a

Agent	Agents with Similar Side Chains				
Amoxicillin	Ampicillin	Cefaclor	Cefadroxil ¹	Cefprozil ¹	Cephalexin
Ampicillin	Amoxicillin	Cefaclor ¹	Cefadroxil	Cefprozil	Cephalexin ¹
Aztreonam^b	Ceftazidime ¹	Ceftolozane			
Cefaclor	Amoxicillin	Ampicillin ¹	Cefadroxil	Cefprozil	Cephalexin ¹
Cefadroxil	Amoxicillin ¹	Ampicillin	Cefaclor	Cefprozil ¹	Cephalexin ²
Cefdinir	Cefixime ²				
Cefditoren	Cefepime ¹	Cefotaxime ¹	Cefpodoxime ¹	Ceftriaxone ¹	
Cefepime	Cefditoren ¹	Cefotaxime ¹	Cefpodoxime ¹	Ceftriaxone ¹	Ceftaroline
Cefixime	Cefdinir ²				
Cefotaxime	Cefditoren ¹	Cefepime ¹	Cefpodoxime ¹	Ceftriaxone ¹	Ceftaroline
Cefoxitin	Cefuroxime ²	Penicillin G			
Cefpodoxime	Cefditoren ¹	Cefepime ¹	Cefotaxime ¹	Ceftriaxone ¹	Ceftaroline
Cefprozil	Amoxicillin ¹	Ampicillin	Cefaclor	Cefadroxil ¹	Cephalexin
Ceftaroline	Cefepime	Cefotaxime	Cefpodoxime	Ceftriaxone	Ceftazidime
Ceftazidime	Aztreonam ¹	Ceftolozane			
Ceftolozane	Aztreonam	Ceftazidime			
Ceftriaxone	Cefditoren ¹	Cefepime ¹	Cefotaxime ¹	Cefpodoxime ¹	Ceftaroline
Cefuroxime	Cefoxitin ²				
Cephalexin	Amoxicillin	Ampicillin ¹	Cefaclor ¹	Cefadroxil ²	Cefprozil
Penicillin G, V	Cefoxitin				

^aAgents not listed are either not approved for use in the United States (ceftizoxime, ceftibiprole) or do not share common side chains (e.g., piperacillin, ticarcillin, nafcillin, dicloxacillin, meropenem)

^bAztreonam cross-reacts with ceftazidime, with which it shares an identical side-chain

¹Identical R1 side chain

²Identical R2 side chain