		Antibiotic Allergy																				
dered			Amoxicillin ± clavulanate	Ampicillin ± sulbactam	Aztreonam	Cefacior	Cefadroxil	Cefazolin	Cefdinir	Cefepime	Cefotaxime	Cefoxitin	Cefpodoxime	Ceftaroline	Ceftazidime ± avibactam	Ceftolozane/tazobactam	Ceftriaxone	Cefuroxime	Cephalexin	Nafcillin	Penicillin G	Piperacillin/tazobactam
	Amoxicillin or	amoxicillin/clavulanate		7		Ť	)	)				)										
	Ampicillin or ampicillin/sulbactam																					
	Aztreonam																					
	Cefaclor																					
	Cefadroxil																					
	Cefazolin																					
ic Or	Cefdinir																					
Antibiotic Ordered	Cefepime																					
	Cefotaxime																					
	Cefoxitin																					
	Cefpodoxime																					
	Ceftaroline																					
	Ceftazidime or ceftazidime/avibactam																					
	Ceftolozane/tazobactam																					
	Ceftriaxone																					
	Cefuroxime																					
	Cephalexin																					
	Nafcillin																					
	Penicillin G																					
	Piperacillin/tazobactam																					
MAY USE		Expect <2% chance of cro	ss-reac	tivity																		
USE WITH CAUTION		Intermediate or conflictin  May consider u  May consider s	g data- tilizing	–exerci <b>agent</b> i	f patier	nt react	ion is n	ot a ty			-			ype-1 h	nyperse	ensitivit	y reacti	ion*				
AVOID USE		Expect ~20% chance of cr																				

<sup>\*</sup> Type 1 hypersensitivity reaction is defined as an immediate allergic reaction occurring within 15-30 minutes after receiving a dose of a beta-lactam antibiotic. Symptoms can consist of anaphylaxis (including angioedema), neurologic deficits (lightheadedness, weakness, loss of consciousness), respiratory complications (shortness of breath, wheezing, bronchospasm, stridor, hypoxia), and/or cardiovascular complications (hypotension, tachycardia).



## **KEY TAKEAWAYS**

- Use of non-beta-lactam antibiotics is often associated with poor outcomes.
- Of patients with a documented penicillin allergy, 99% can tolerate beta-lactam antibiotics.
- Rates of anaphylaxis to cephalosporins range from <0.0001% to 0.1%.</li>
- Cross-reactivity between penicillins and cephalosporins is due to similarities in R1 side chains, rather than a class effect.
- Reported rate of cross reactivity is <2% among beta-lactams with dissimilar side chains.
- Cefazolin has a unique side chain that does not share similarities with other beta-lactam antibiotics and therefore has no expected crossreactivity.
- Due to dissimilar side chains, patients with a documented penicillin allergy usually tolerate ceftriaxone and cefepime.