



Antibiotic **ABC**: Back to Basic

การประชุมใหญ่ประจำปี 2558 สมาคมโรคติดเชื้อในเด็กแห่งประเทศไทย
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Case 1

- เด็กหญิง 8 ปี มีไข้ คลื่นไส้ อาเจียน ไม่ซึม PE: T 38.1°C, mild dehydration, U/A (Cath): sp.gr 1.015, leucocyte+, WBC 10-20/hpf, no RBC, bacteria1+, UC: pending มีประวัติแพ้ amoxicillin (MP rash), ciprofloxacin (urticaria)
- ท่านจะให้การรักษาอย่างไร
 - A. Cefixime
 - B. Cefidininir
 - C. Ceftriaxone
 - D. Gentamicin





Cephalosporins Can be Prescribed Safely for Penicillin-Allergic Patients

Side-chain similarity determines cross-reactivity among cephalosporins and between penicillins and cephalosporins

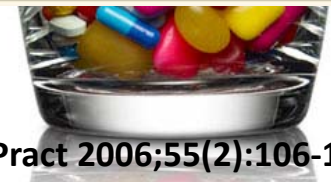
To use this Table clinically, check the antibiotic your patient is allergic to for possible cross-reactivity with other antibiotics based on both the 7-position and 3-position side chains. Avoid drugs that share structural similarity of either side chain position. Antibiotics that do not share similarity of either side chain are unlikely to exhibit cross-reactivity and can be recommended.

7-POSITION SIDE CHAIN

SIMILAR SIDE-CHAIN CROSS-REACTIVITY POSSIBLE WITHIN THESE 3 GROUPS*

COMPLETELY DISSIMILAR SIDE CHAINS MAKE CROSS-REACTIVITY UNLIKELY FOR THESE DRUGS†

Cefoxitin (2)	Cefaclor (2)	Cefepime (4)	Cefoperazone (3)	Cefixime (3)
Cephalothin (1)	Cephradine (1)	Ceftizoxime (3)	Cefotetan (2)	Cefprozil (2)
Penicillin G	Cephalexin (1)	Cefpirome (4)	Cefazolin (1)	Cefmetazole (2)
	Cefadroxil (1)	Cefotaxime (3)	Cefuroxime (2)	Ceftibuten (3)
	Amoxicillin	Cefpodoxime (3)	Cefdinir (3)	Ceftazidime (3)
	Ampicillin	Ceftriaxone (3)	Cefditoren (3)	





Cephalosporin Classifications

Gram+++, -

Gram ++,--

Gram +, ---

Gram +++,

1st Gen

- Cephalexin
- Cefazolin

2nd Gen

- Cefuroxime
- Cefaclor
- Cefuroxime
- Cefoxitin

3rd Gen

- Ceftibuten
- Cefixime
- Cefdinir
- Cefpodoxime
- Cefditoren
- Ceftriaxone
- Cefotaxime
- Cefoperazone
- Cetazidime

4th Gen

- No oral agents
- Cefipime
- Cefpirome





Cephalosporin Classifications



1st Gen

- Cephalexin
- Cefazolin

2nd Gen

- Cefuroxime
- Cefaclor
- Cefuroxime
- Cefoxitin

Active against
H. influenzae
M. catarrhalis

3rd Gen

- Cefpodoxime
- Cefditoren
- Ceftriaxone
- Cefotaxime
- Cefoperazone
- Cetazidime

4th Gen

- No oral agents
- Cefipime
- Cefpirome

