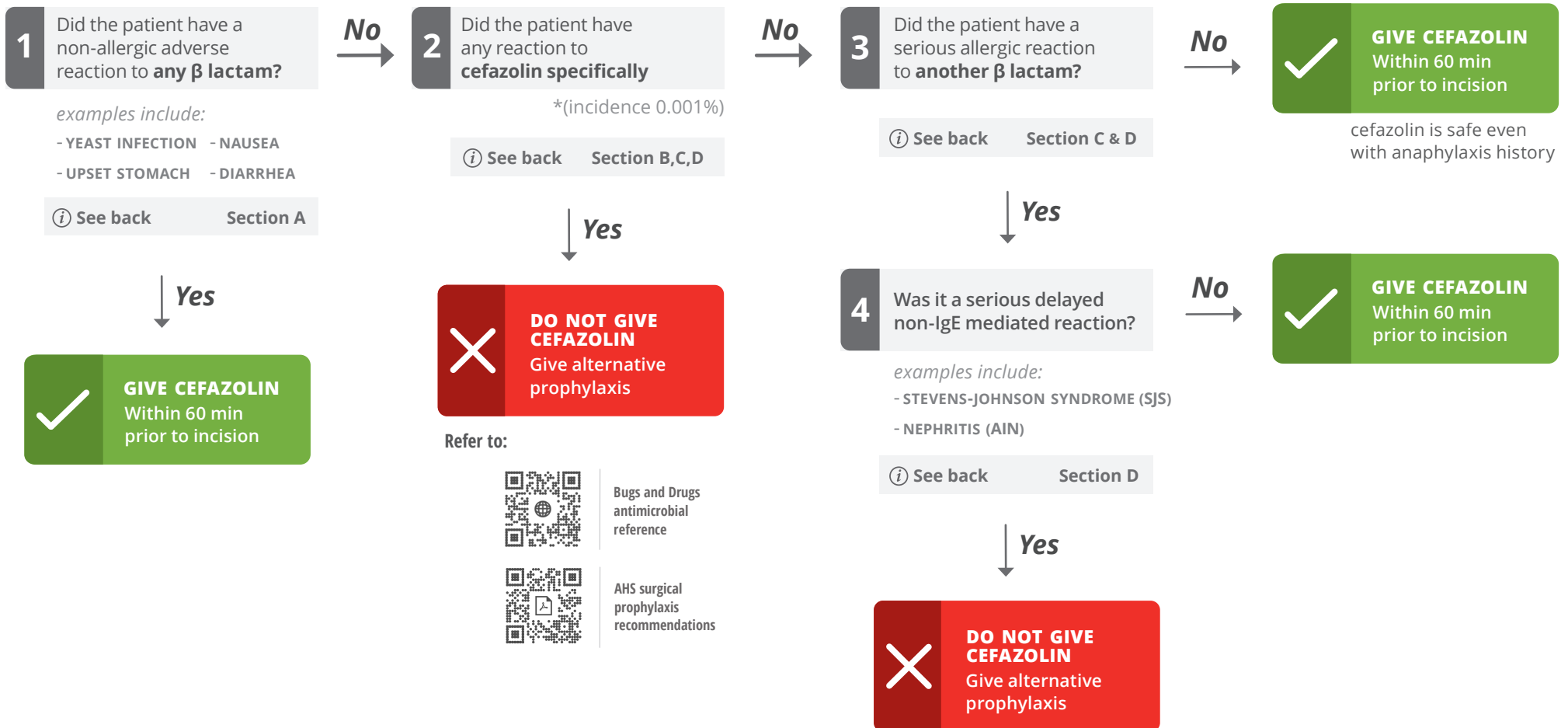


Surgical prophylaxis for patients with a listed β -lactam antibiotic allergy

Cefazolin is the preferred choice for surgical prophylaxis

i Cefazolin is structurally different therefore does NOT cross-react with other β lactams.

i See back for allergy classifications



Evidence for lack of cross-reactivity with cefazolin

* Retrospective study of "allergy flag" patients

950,000 patients, 1.4 million courses of cephalosporins
Incidence of anaphylaxis very low (.001%) no difference in
"penicillin allergy" and patients with no listed allergy



Classifying reactions to β lactam antibiotics

β -lactam antibiotics include penicilins (*piptazo, cloxacillin, ampicillin*), cephalosporins, and carbapenems

A Non allergic adverse reaction

Examples include:

- A non allergic intolerance
 - Yeast infection
 - Upset stomach
- Nausea
- Diarrhea
- An unknown remote reaction, no hospitalization



Patients with family members that have a penicillin allergy have no increased risk of an allergy.

B Mild non-anaphylactic reaction

Examples include:

- Rash (not hives) Nonpruritic, nonurticarial rashes occur in up to 10% of patients receiving β lactams.

Unless the patient reacted to **cefazolin specifically** these rashes are not a contraindication to the use of other beta lactams"



C An anaphylactic type reaction? (likely IgE mediated)

Examples include:

- Anaphylaxis
- Laryngeal edema
- Angioedema
- Hypotension
- Wheezing
- Hives/urticaria

Serious allergic reactions (C&D)

Refer to cross reactivity list below.

D A serious delayed non-anaphylactic reaction (non-IgE mediated)

Examples include:

- Toxic epidermal necrolysis (TEN)
- Drug induced cytopenias
- Acute interstitial nephritis (AIN)
- Drug-induced hepatitis
- Stevens-johnson syndrome (SJS)
- Hemolytic anemia
- Drug rash with eosinophilia + systemic symptoms (DRESS)
- Serum sickness

Avoid all β -lactams - consult ID or allergy as needed

β-lactam cross reactivity list

β -lactams in the same boxes below share similar side chains and crossreact
Cefazolin shares no similar chains and does not crossreact with any other β -lactam

• Cefazolin

• Ertapenem
 • Imipenem
 • Meropenem

• Amoxicillin
 • Ampicillin
 • Cephalexin
 • Cefadroxil
 • Cefprozil

• Penicillin
 • Cefoxitin
 • Cloxacillin
 • Piperacillin-tazobactam

• Cefuroxime
 • Cefoxitin

• Cefotaxime
 • Ceftriaxone
 • Cefepime

• Aztreonam
 • Ceftazidime



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