# 54 - Penicillin Allergies

Speaker: Sandra Nelson, MD





#### Penicillin (PCN) Allergy: Premise

- · 10% of the US population have reported penicillin allergy
  - Rash most common adverse drug reaction (ADR)
  - Others include "unknown", angioedema, GI symptoms, itching
  - More common in older adults and hospitalized patients
- Vast majority of patients with PCN allergy can safely receive penicillins (with appropriate evaluation and testing)
  - Reactions are mild drug rashes that do not always recur
  - True allergies often wane with time
  - Some reactions are not allergic





### **PCN Allergy: Consequences**

- · Alternative antimicrobial use
  - Less effective, more toxic, higher cost, broader spectrum
- · Associated with:
  - increased risk of MRSA infection and VRE colonization
  - increased risk of *C. difficile* colitis
  - increased risk of surgical site infection
  - increased mortality
- An important target of stewardship efforts





#### Case #1

A 73-year-old woman undergoing chemotherapy for cholangiocarcinoma is hospitalized with bacteremia and sepsis due to ampicillin-susceptible *Enterococcus faecalis*. She has a history of allergy to penicillin that is listed in the records as rash; the family recalls that she went to the ED when the rash occurred several years earlier. She is delirious and not able to corroborate the history; no additional documentation of the reaction is available. Two of her daughters have allergies to penicillin.





#### Case #1: Vote

You are asked about optimal antibiotic treatment. What do you advise?

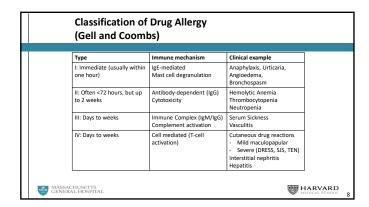
- A. Administer IV ampicillin without prior testing
- B. Skin test for penicillin reaction; if negative then administer full dose ampicillin
- Skin test for penicillin reaction; if negative then administer test dose ampicillin followed by full dose ampicillin
- D. Desensitize to ampicillin
- E. Administer vancomycin

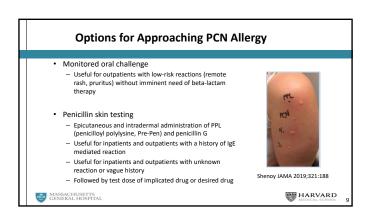


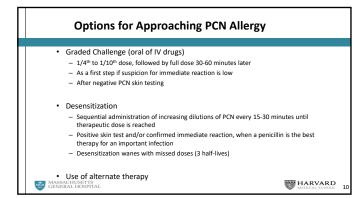


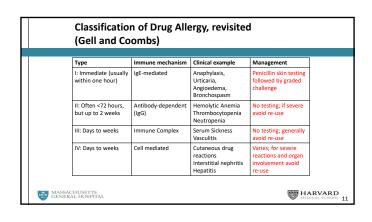
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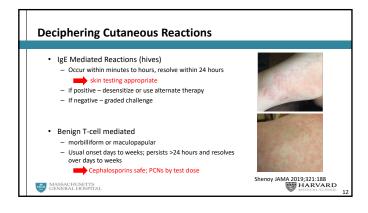
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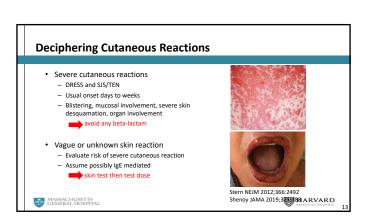












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