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Drug Allergies: Challenges & Solutions Paige Wickner, MD



Drug Allergies: Challenges and Solutions

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Outline

- Case
- Definition
- Scope
- Projects
- Conclusion



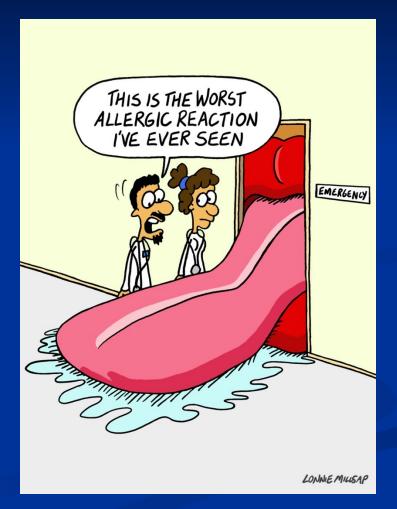
This scenario is all too common...

68 year old male with frequent admissions for urinary infections

- <u>16 hospital admissions & 15 emergency department visits</u> in the past year.
- He received <u>>20 courses of antibiotics</u>
- Listed allergies in chart are:
 - Penicillin- unknown- he can't remember his reaction to Penicillin, was told by his parents he was allergic as a child
 - Codeine- nausea
 - Contrast- flushing

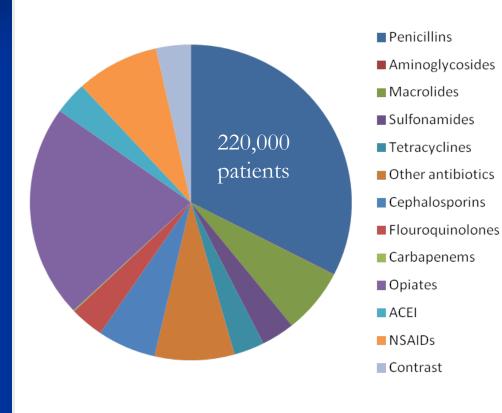
What is a drug allergy?

 Immune mediated reaction
 Adverse reaction



Drug allergies at Brigham and Women's Hospital

Top allergens in BWH EMR



Penicillin allergy in the hospital

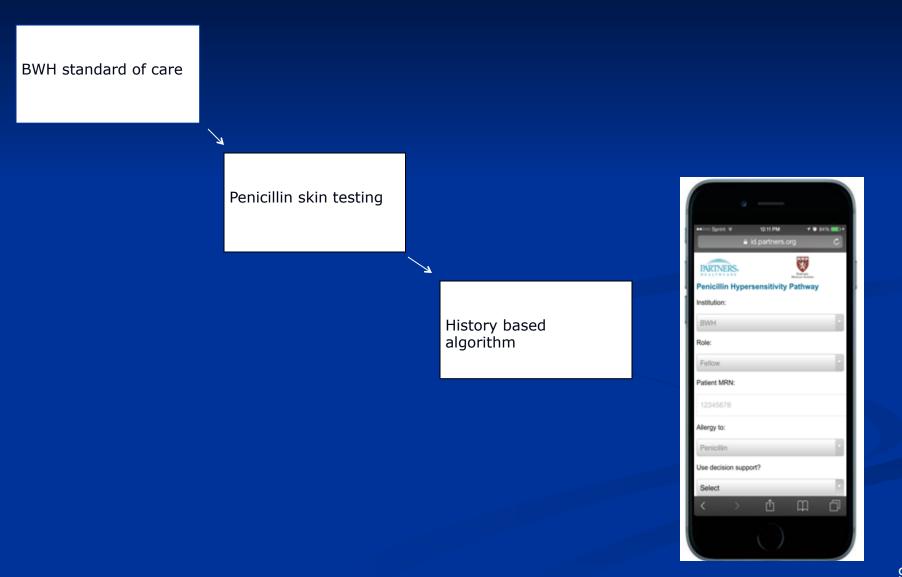
• Penicillin (PCN) allergy is the most common drug allergy

- 10% of the general population
- 15% of hospitalized patients
- 50% of hospitalized patient receive antibiotics
- Listed PCN allergy results in
 - Increased mortality
 - Increased readmission
 - Longer hospital stays
 - Increased cost
 - Increased hospital associated infections
- 90-99% of patients with reported penicillin allergy when tested and challenged are not truly allergic

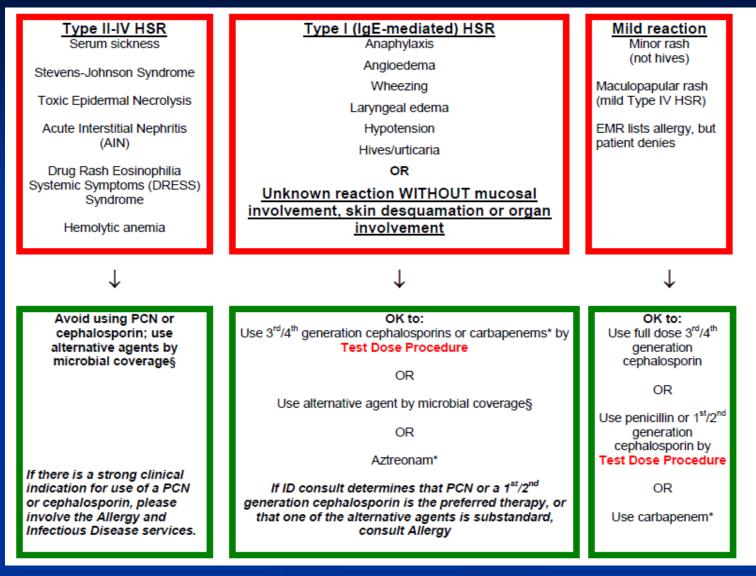
BWH & Partners projects

- Brigham Care Redesign and Incubator Startup Program (BCRISP) project on Penicillin Allergic inpatients
- Clinical Process Improvement Program (CPIP)
 Drug Hypersensitivity and Desensitization Center
- Other

BCRISP project on Penicillin



Clinical pathway-Algorithm



Blumenthal, Ann All 2015

Case follow up

Case: 68 year old male frequent admissions and emergency visits for urinary tract infections

- testing and challenged with penicillin, negative testing
- listing deleted
- <u>ZERO!!! emergency visits or admissions since</u> <u>then</u>

Conclusions

- Drug allergy is a pervasive problem with real implications for the patient and their healthcare
- The electronic medical record is helpful to share this information
- Penicillin allergy is the most common drug allergy, projects and pathways are underway to help patients who have this listed allergy
- Talk to your provider about your listed drug allergies and if they are ways to clarify or delete them