

Introduction

- Evaluate data surrounding a documented penicillin allergy
- Identify current trends in management of a reported penicillin allergy

Background

- Penicillin most commonly reported allergy in U.S.
- 90% aren't truly allergic
- 80% lose overall sensitivity after 10 years
- Major barrier to appropriate antibiotic use
- Associated with antibiotic resistance
- Providers are more likely to avoid penicillin, rather than clarify allergy
- Penicillin Skin Testing is performed by board-certified allergist in the outpatient setting to confirm true allergy

Purpose

- Evaluate current documentation and management practices
- Identify opportunities to improve current documentation, clinical management, and increase referral practices

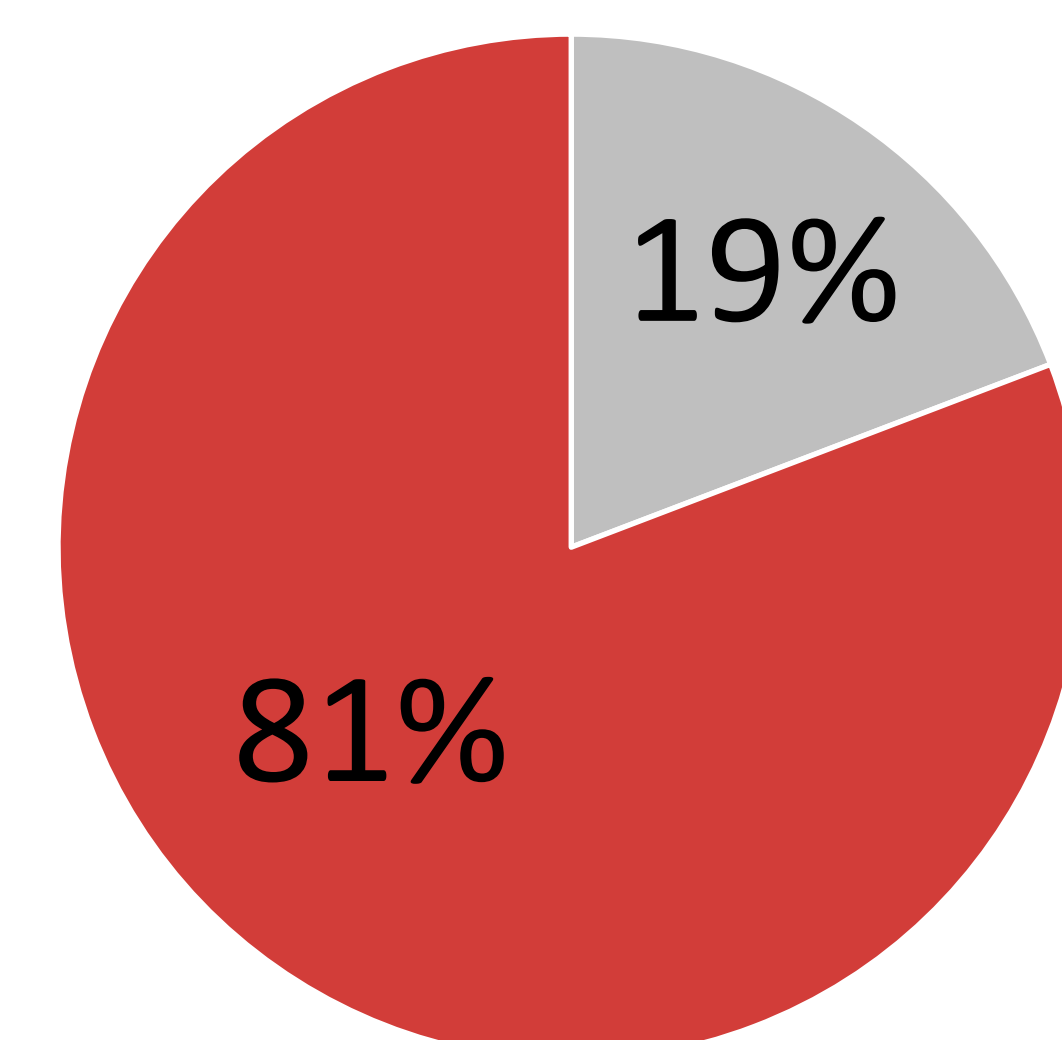
Methods

- Retrospective chart review
- Adult patients with documented penicillin allergy in 2019
- Internal medicine department within a large, multi-specialty medical practice

Results

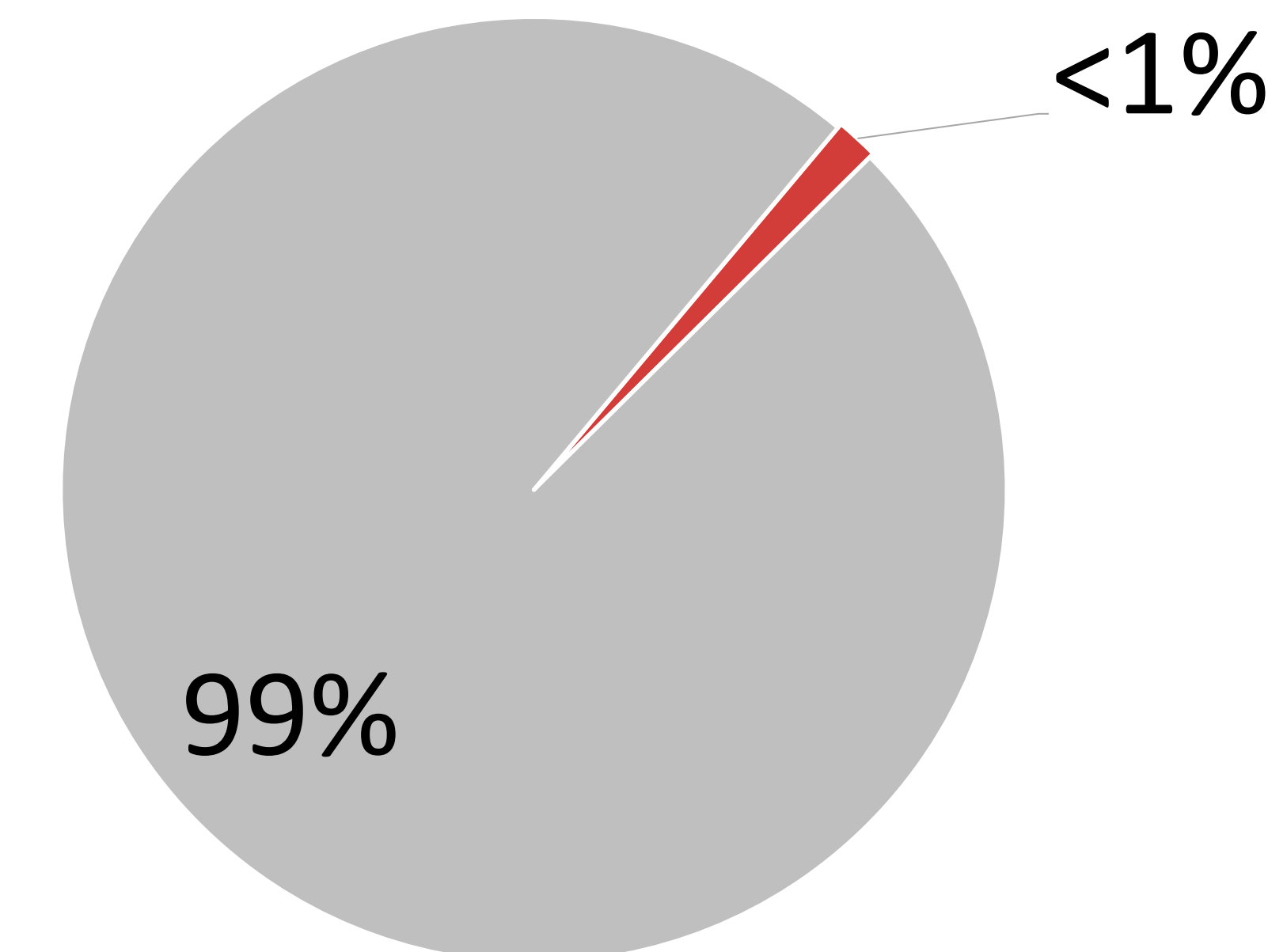
- 749 total patients
- Majority were Female, White, or Non-Hispanic/Latino
- Most common types were 'Penicillins' and 'Penicillin'
- 44 patients reported an 'unknown' allergic reaction
- 10.5% of allergic reactions reported were true 'Allergy or Hypersensitivity'
- 68% had an onset date 'More than 10 years' or 'Unknown'
- 5 patients had allergy referral ordered

Documented Reaction



81% didn't have an allergic reaction documented

Referrals to Allergy



Less than 1% ($n = 5$) had allergy referral ordered

Documented Allergic Reactions	<i>n</i>
Urticaria	14
Unknown	44
Anaphylaxis	7
Rash	42
GI upset	8
Angioedema	14
SJS	1
Tachycardia	1
Other	5
Family History	1
Mental Status Change	5
Not documented	601
Tested Negative	5
Serum Sickness	1

Discussion

- Comprehensive allergy assessment is necessary to improve EHR allergy documentation and current management practices
- Re-design EHR allergy tab
- Allergy services are currently under-utilized
- Need to close gap between primary care and allergy
- CDS tools can be used to prompt allergy referral

Implications

- Prescribe future antibiotics
- Appropriate antibiotic use
- Need education and increase awareness
- U.S. healthcare policies support comprehensive penicillin allergy assessment
- Reduces patient costs
- Decreases healthcare expenditure

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Full Reference List

