

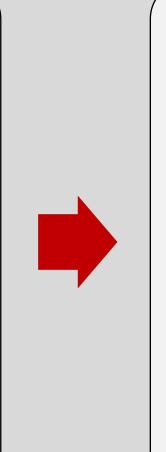
Evaluating the Utility of a Penicillin Allergy Reconciliation Program within an Infectious Diseases Consult Population in a Community Health System

Bruce M. Jones, PharmD, BCPS^{1,2}; Emily A. Plauche, PharmD Candidate 2021²; Susan E. Smith, PharmD, BCPS, BCCCP²; Christopher M. Bland, PharmD, FCCP, FIDSA, BCPS^{1,2} St. Joseph's/Candler Health System, Savannah, GA¹; The University of Georgia College of Pharmacy, Savannah, GA²

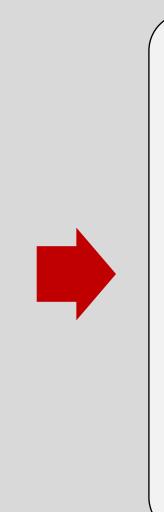
Backg

- Up to 10% of the population, and 15% of inpatier are not true allergies. Over-reported PCN allergie outcomes, and increased risk of resistance.^{1,2}
- Our 714-bed community health system includes t Infectious Diseases (ID) physicians that rotate bet
- Our institution (Candler) uses a Penicillin Allergy pharmacist, pharmacy residents, and Advanced P clarify, update, challenge, and remove allergies as
- There is no formal allergy reconciliation program
- PARP process:

Print daily report of every inpatient with a PCN allergy listed in the electronic health record (EHR).



Review allergy history, including past and present inpatient and outpatient antibiotics.



Interv patient the histe the aller react

Objectives

- To evaluate allergy reconciliation and intervention among ID consult patients admitted with a penicillin allergy
- To determine the percentage of ID consultation patients with a PCN allergy in our health system

Primary

 Documented pe institution with F

Secondary

- Percentage of IC reported PCN al
- Percentage of particular PCN allergy

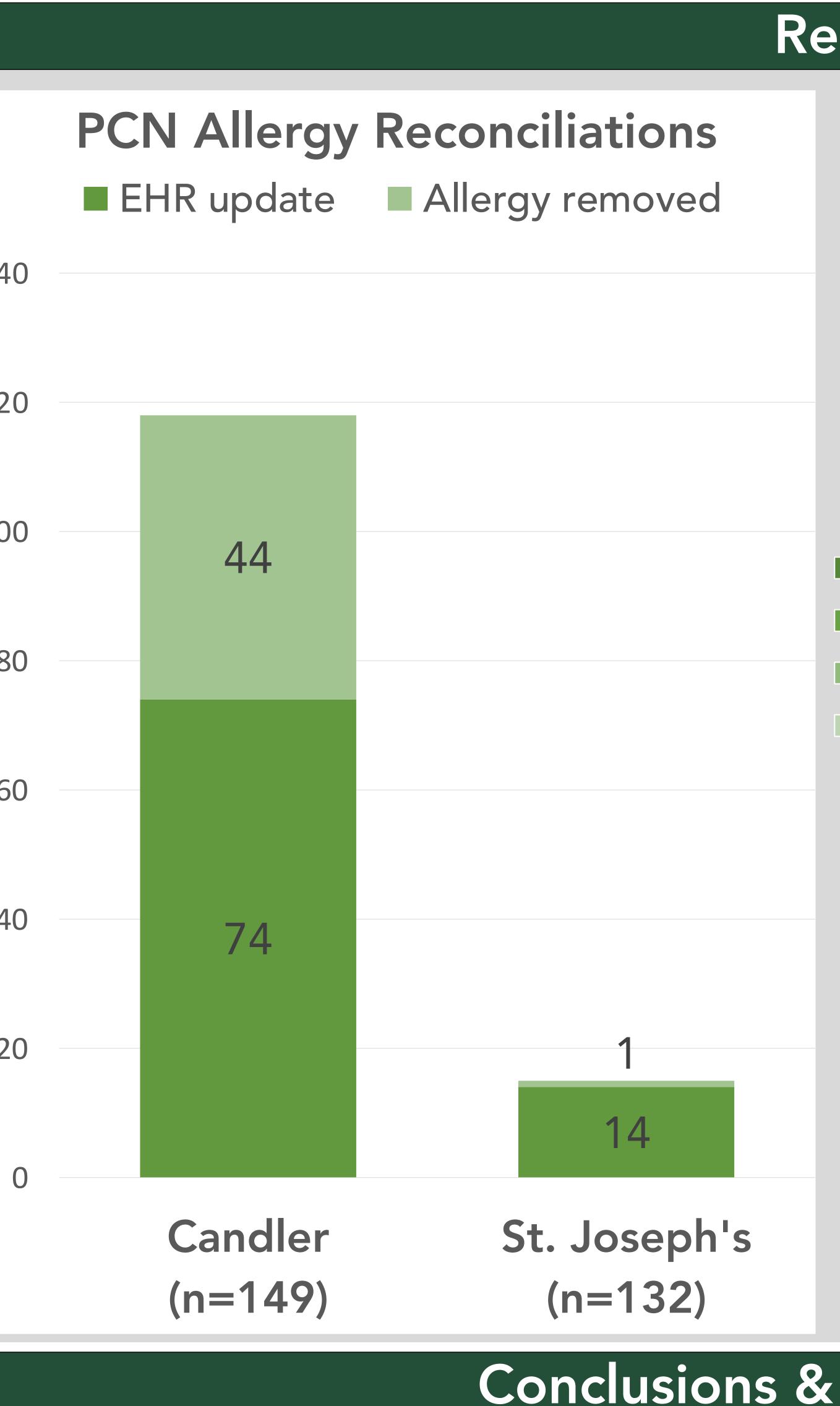
Meth

- Study design: retrospective chart review
- Reconciliation was defined as an edit or clarifica included updating the severity, reaction, or com

Inclusion Criteria

- Inpatient at Candler Hospital or St. Joseph's Hospital with at least one ID consultation from 1/1/2019 – 12/31/2019
- •Self-reported PCN allergy
- •Adults \geq 18 years old

round			
nts, report a penicillin (PCN) allergy, while ~90% es lead to higher drug costs, worse patient			
two hospitals, Candler and St. Joseph's, and has 4 tween both hospitals.			
Reconciliation Program (PARP) led by an ID Pharmacy Practice Experience (APPE) students to s appropriate.			
	place at St. Joseph's.	12	
vie	w details with PCN skin test	10	
	preceptor and and educate		
-	update EHR. patient on Determine if removal of	8	
ior	n. intervention is allergy if		
	appropriate. applicable.		
Outcomes			
enicillin allergy reconciliation in the EHR at an PARP versus one without PARP			
D consultation patients in 2019 with a self-			
llergy atients admitted in 2019 with a self-reported			
nods			
		•	
ation to a patient's PCN allergy in the EHR, which nments section as well as deleting the allergy			
	Exclusion Criteria	•	
 Patients admitted to Day Surgery, 23-hour observation, Emergency Department 			
	without subsequent admission, or Labor and Delivery/ Mother Baby units		
		1. 2.	



A PARP was an effective method to perform penicillin allergy reconciliations and interventions, even in the presence of an ID consult. Reconciliations and interventions are not routinely being performed without a formalized program.

Reconciliations at Candler were done by pharmacy (n=118; 100%), and reconciliations at St. Joseph's were done by pharmacy (n=10, 66.7%) and nursing (n=5, 33.3%). The ID consult population had a similar percentage of patients with a listed PCN allergy as all inpatients in 2019.

Future research: Percentage of PCN allergies that are re-added

References

Jones BM, Bland CM. "Penicillin Skin Testing an Antimicrobial Stewardship Initiative". Am J Health Syst Pharm. Feb 2017, 74 (4) 232-237. Lee CE, Zembower TR, Fotis MA, Postelnick MJ, Greenberger PA, Peterson LR, Noskin GA. The incidence of antimicrobial allergies in hospitalized patients: implications regarding prescribing patterns and emerging bacterial resistance. Arch Intern Med. 2000;160(18):2819-22.



Contact: Bruce Jones jonesbru@sjchs.org

Results

<section-header></section-header>	<section-header></section-header>		
Verbal (n=97)	Verbal (n=13)		
Skin test (n=10)			
	Skin test (n=1)		
Re-challenge (n=6) Re-challenge (n=1)			
Graded challenge (n=5)			
Percentage of patients admitted in 2019 with a PCN allergy			
Candler	12.0% (1209/10071)		
St. Joseph's	14.0% (1512/10797)		
Health System	13.1% (2721/20868)		
Percentage of ID consultation patients in 2019 with a PCN allergy			
Candler	13.2% (149/1132)		
St. Joseph's	11.9% (132/1108)		
Health System	12.5% (281/2240)		
Discussion			