Development of a Penicillin Allergy Electronic Decision Support Pathway for Pediatric Inpatient Admissions

Kelsey Leccer MD1, Juan Chaparro MD1,2, Jessica Hehmeyer MHA1,3, Cory Hassan MD1,2, Charlie Macias MHA1,4, Maria Vegh MSN RN CPNP1,2, Joshua Watson MD1,2 and David Stukus MD1,5

(Nationwide Children's Hospital, Columbus, OH) 1Division of Infectious Disease, 2Information Support Services, 3Quality Improvement Service Line Coordinator, 4Division of Allergy and Immunology

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BACKGROUND

- Penicillin allergy delabeling is increasingly being implemented in a variety of clinical settings, including inpatient units, outpatient visits, emergency departments, and surgical offices.
- Oral graded dose challenges without prior skin testing have been shown in departments, and surgical offices.

OBJECTIVES

Figure 1. Key Driver Diagram

Patient Admitted to ID Service with Reported Penicillin Allergy

Nurse Prompted to Ask Directed Questions

Physician prompted to remove allergy from EMR

Avoidance due to family history or received again without problems

History of anaphylaxis or severe delayed drug reaction/Streptococcal ARF (GAS)

Percentage of Eligible Patients Who Had Penicillin Allergies Removed from EMR

- Between May 1, 2018-Feb 1, 2020, 272 (5%) patients had a reported penicillin allergy.
- The nursing questionnaire was completed for 173 (63.6%), with 96 patients (55%) eligible for dose-graded challenge.

RESULTS

Figure 2. Nursing Intake Questionnaire to Clarify Penicillin Allergy

- At the time of discharge, 39 patients completed a dose-graded challenge.

Figure 3. Graded Dose Challenge Best Practice Alert

- Nineteen patients completed a dose-graded challenge.
- Thirty-five patients (12.9%) had their penicillin allergy removed from the EMR at time of discharge.

REFERENCES

