Allison Whalen, PharmD, MHA, CPPS, Medication Safety Officer OhioHealth Pharmacy Services, Columbus, Ohio Contact: ashraf.kittaneh@ohiohealth.com

LEARNING OBJECTIVES

- Describe the characteristics of an ideal calculator to utilize for AUC:MIC monitoring of vancomycin therapy.
- List the key steps needed to implement a Bayesian AUC:MIC calculator within a large health system.

PROJECT PURPOSE

To optimize patient care through AUC:MIC monitoring of vancomycin via EMR integration of a Bayesian calculator. Advantages to patient care focused on increasing efficacy of vancomycin dosing and decreasing toxicity in a 12 hospital Health System with a large free standing Emergency Department and Home Infusion pharmacy services

BACKGROUND

- AUC:MIC is the ideal way to monitor vancomycin to optimize both safety and efficacy
- 2020 IDSA guidelines recommend a target AUC:MIC of 400-600 for severe MRSA infections
- Advantages of Bayesian kinetics vs conventional first order kinetic monitoring includes early level attainment, single level capabilities and populationbased predictions.

Internal Evaluation

Baseline vancomycin TDM practices

Defining "Ideal" state

Internal Calculator

Development of internal calculator Internal pilot and validation

Critical step to understand practice barriers

Re-define "Ideal" state

Phase 1 (2019)

Phase 2 (2020)

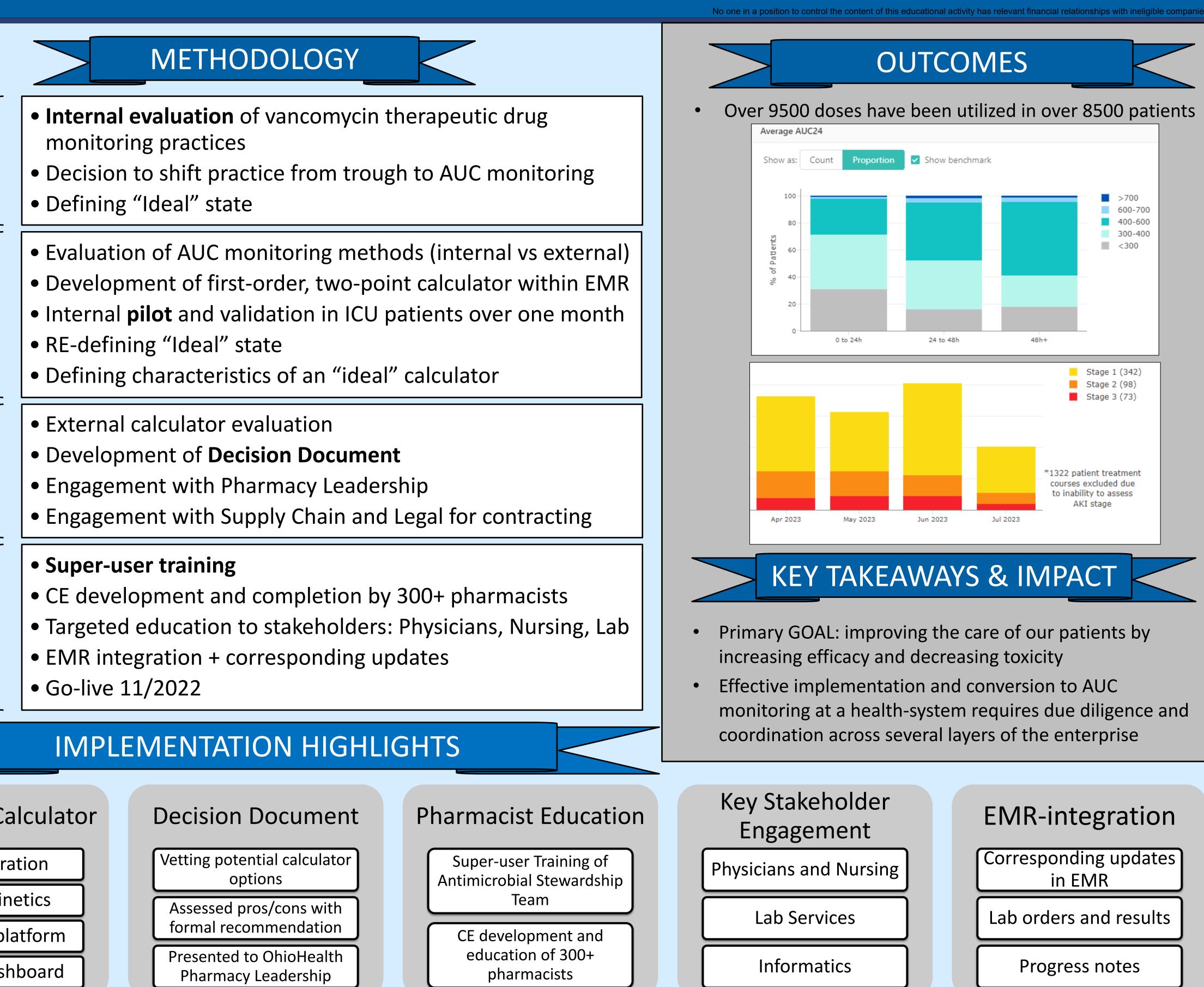
Phase 3 (2021)

Phase 4 (2022)

The "Id



Take It to the Vanc — Implementing AUC:MIC at a Large Health System Ashraf Kittaneh, PharmD, Medication Utilization Pharmacist; Tara Counts, PharmD, BCIDP, Antimicrobial Stewardship Pharmacist;



eal" Calculator	D
R-integration	ſ

Bayesian kinetics

Web-based platform

Analytics dashboard

#해는 OhioHealth