

INTRODUCTION

- Residents are expected to participate in quality improver (QI) activities during training.
- QI activities should involve didactic & experiential training.
- MRSA is an important cause of infections in the ICU.
- CDC lists MRSA as a significant threat in the U.S.
- Integration of residents into hospital QI activities provides opportunities to align resident-led QI initiatives with institutional goals.

PURPOSE

To report resident executed QI processes contributing toward a systematic institutional change in vancomycin usage in the ICU.

METHODS

Overview: Internal Medicine Resident QI Team addressing MRSA screening in the ICU at an academic teaching hospital.

Time Period: 2017-2018 Academic Year

Project Goal: Decrease vancomycin usage in the ICU

Curriculum Goal: Involve residents in all aspects of project

Intervention: Change MRSA screening from culture to PCR testing, so clinicians can know negative results sooner and discontinue vancomycin when appropriate.

Engaging Quality Improvement Education Through In-Depth Resident Experiential Learning

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METHODS

Primary Objective: Change MRSA screening from culture to PCR testing.

Outcome Measure: Percentage of screenings performed using PCR in a historic 60 day period versus comparable 60 day period.

Curriculum Measure: Documentation of all major project steps and resident involvement in these actions.

Institutional Review Board approval granted for project.

RESULTS

Resident Action Steps:

- Met with: ICU Nurses; Pharmacy Leaders; ID and Critical Care Specialists; Research Faculty; Hospital Informatics; Billing and Laboratory Staff.
- Acquired & reviewed historic data
- Presented requested change in MRSA screening to Hospital Critical Care & Policy Committees
- Educated nurses on screening change
- Implemented change (MRSA screening by PCR)
- Acquired & collected post-data
- Disseminated results at Medical Education conference and discussed next cycles of change







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