

Reducing and Preventing Infections through Antimicrobial Stewardship

Project Aim and Interventions

- By June 30, 2024, Logan County Health Services will expand the Antimicrobial Stewardship Program by:
 - Providing targeted in-person or web-based educational presentations and messages to provider, pharmacist and nursing groups at least annually.
 - Incorporating antimicrobial stewardship education into orientation for new medical and nursing staff and required annual nursing educational programs.
 - Collaborating with the PFAC for input on patient education materials.
 - Including information on antimicrobials in patient education materials.
 - Educating providers, pharmacists, and nurses through activities available online through the CDC, Medscape, CareLearning and other providers.

Results

- At the initiation of the project, only 45% of expected cultures were obtained prior to initiation of antimicrobial therapy.
- Following nursing and provider education and buy-in, cultures have exceeded the goal of 90%
 - 17 months the average has been 88%
 - 6 months greater than 90%
- At the initiation of the project, an average of 0.5% of orders were changed due to drug resistance.
 - As a result of timely cultures, this change has been reduced to less than 0.1% change required due to resistance.
- At the initiation of the project, an average of 15% of antimicrobials were ordered with subsequent negative cultures.
 - This resulted in providers electing to wait for culture results in many cases and not prescribing an antimicrobial until infection status was known, decreasing over-prescribing and potentially increasing resistance.

Lessons Learned

- We are extremely pleased to have significantly decreased the omission of cultures and antimicrobial change orders.
- We believe that we were successful in our Antimicrobial Stewardship Program development and monitoring of the effectiveness of antimicrobials hospital-wide.
- We have placed a heightened priority on the importance of antimicrobial safety as we track daily the appropriate use of these medications.

Next Steps

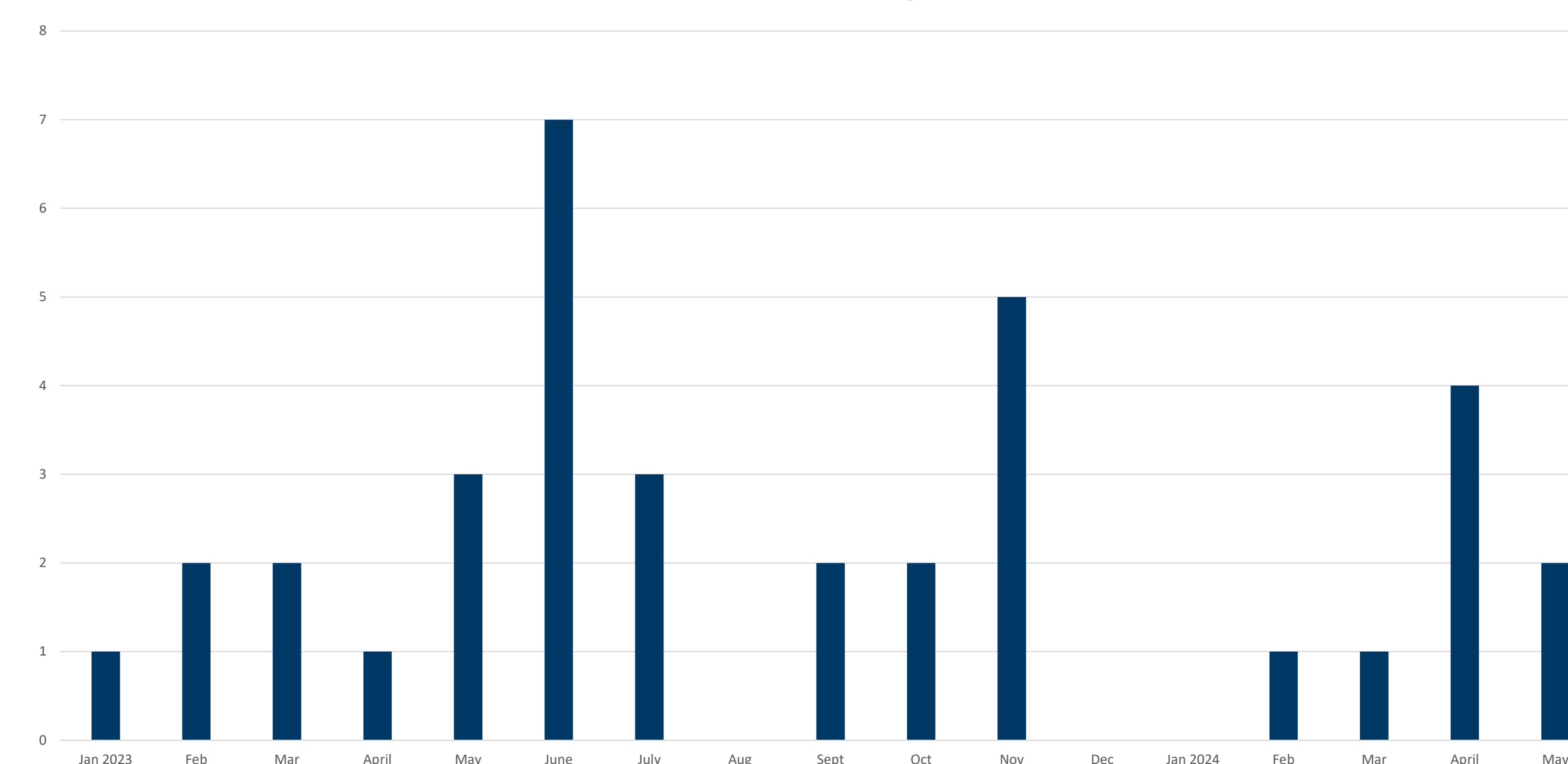
- We will continue to perform monthly Antimicrobial utilization throughout the hospital to ensure minimal risk of antimicrobial resistant organisms.
- We identified the need to monitor culture results and antibiotic response at New Frontiers Health Services (RHC) and the Urgent Care Clinic to further enhance the appropriate use of antimicrobials.

Team Members

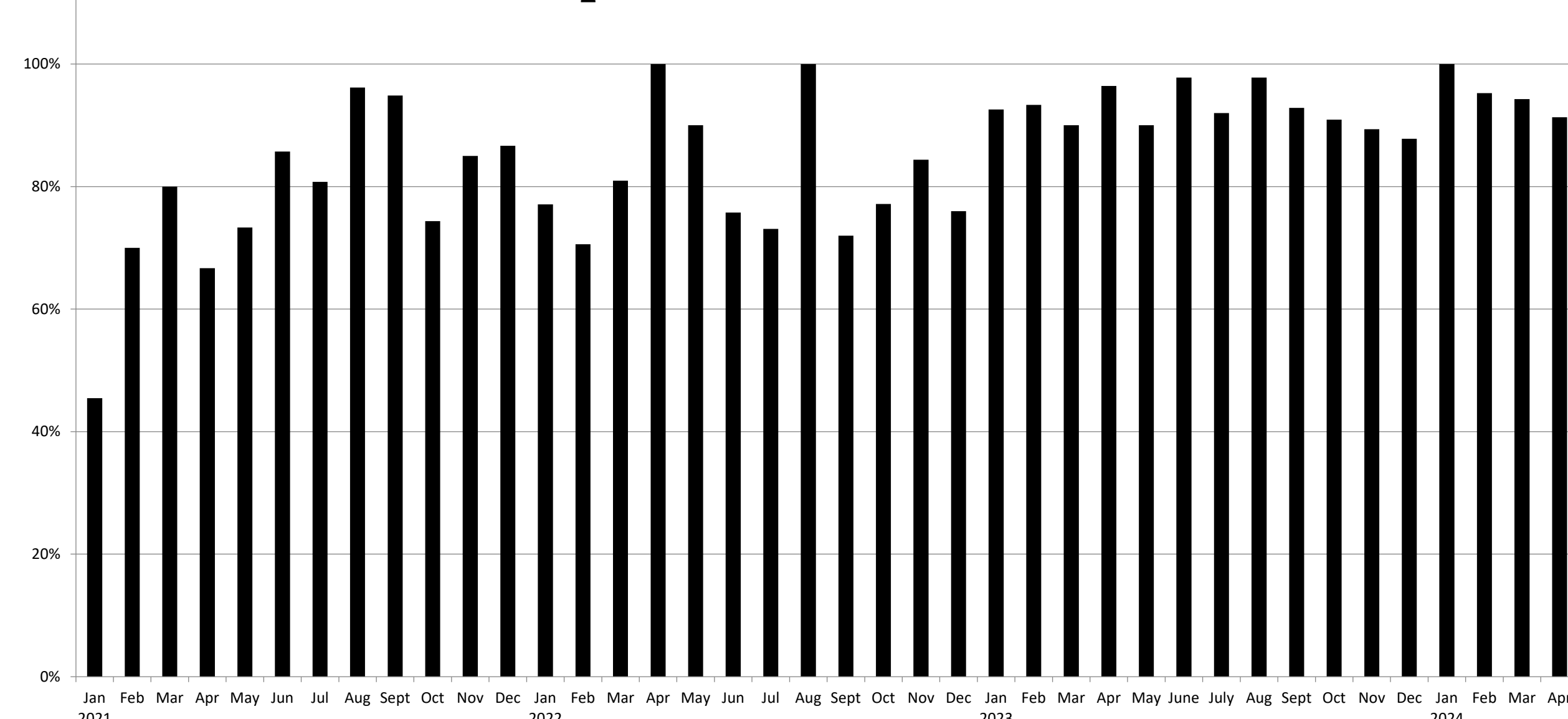
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Change in Order Resistant Organism



% of Expected Cultures Obtained



**Logan County
 Health Services
 Oakley, Kansas**