

Loyola's C diff Journey

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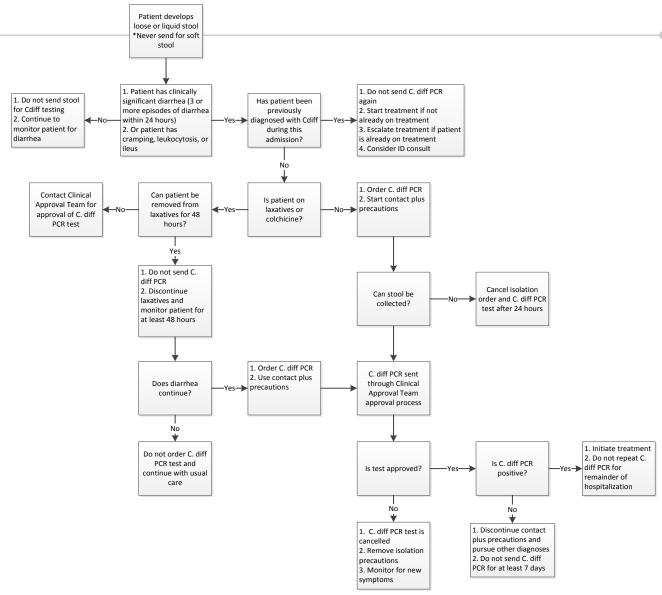
Background



- Loyola Medicine is on a path towards zero harm, including eliminating hospital acquired infections (HAIs)
- When we started our journey, we have a much higher than expected rate of hospital onset Clostridium difficile (C diff) infections
- We recognized that many patients diagnosed with hospital onset C diff actually either presented with infection or likely were colonized with C diff and had loose stools for non-infectious reasons
- Appropriately identifying patients as community onset/C diff colonization versus hospital onset C diff should allow us to:
 - Improve antibiotic stewardship for existing patients
 - Better decide which interventions can prevent the development of C diff colitis for future patients
- Success would require both technical and adaptive solutions

Technical Solution – C diff Testing Algorithm

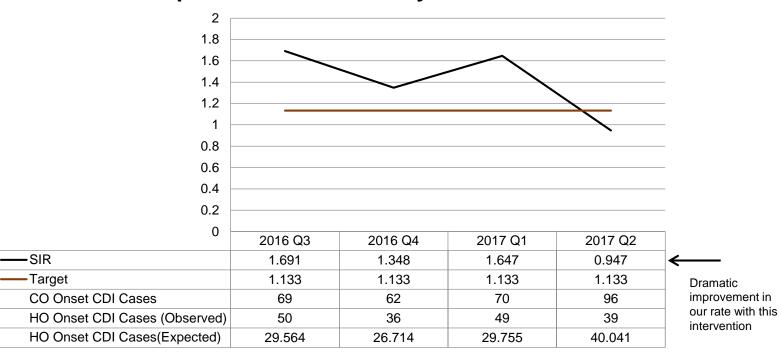




Testing Stewardship Works



Hospital Onset CDI SIR by Quarter



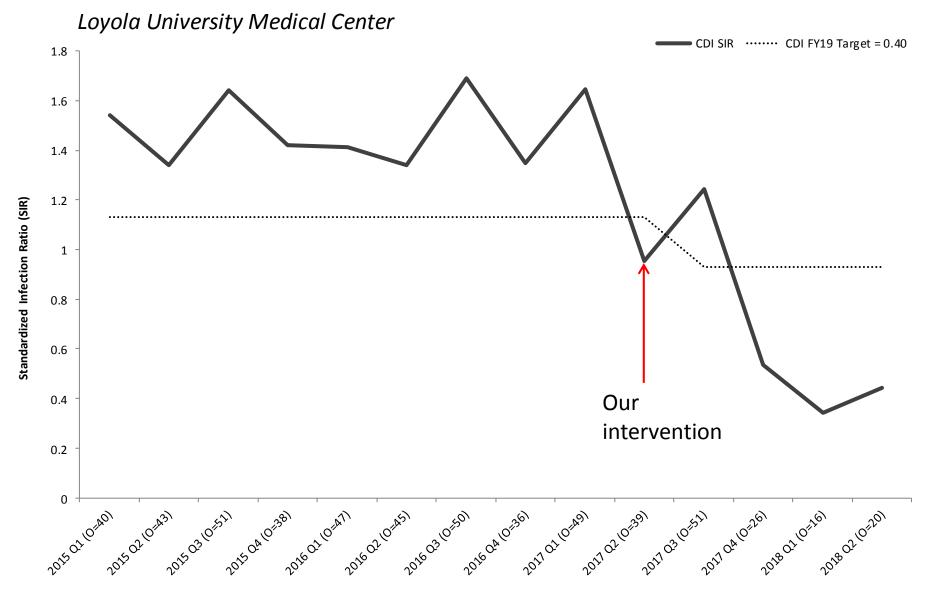
 Starting in 2017 Q2, one of our infection control practitioners proactively contacted nurses to collect loose stool, and physicians to cancel pending C. diff tests if inappropriate

Adaptive Solution

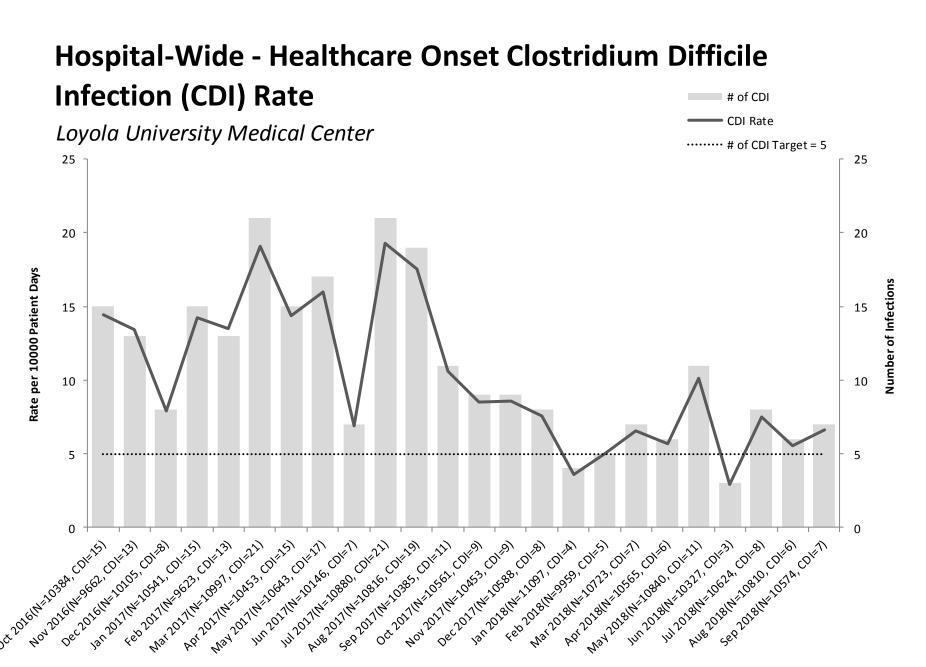


- Appropriate C diff testing became a drumbeat that we discussed as often as possible
 - Early testing of loose stool (within the first 3 days)
 - Appropriate testing of C diff (after first 3 days)
- Developed a Clinical Approval Team that reviewed all C diff tests after day 3 of hospitalization to evaluate the appropriateness
 - Also allowed real time education to our physicians
- Emphasizing C diff allowed consistent messaging and also innovation at the local unit level
- Nothing replaces countless hours of conversations, especially with doubters

Clostridium Difficile Infection (CDI) SIR - Hospital-Wide



Quarter (O=Number of Observed Infections)



Month (N=Patient Days, CDI=Number of Infections)

Summary



- Our hospital onset C diff rates Standardized Infection Ratio has decreased from 1.6 to 0.4 due to our interventions
- This improvement has significant implications for the safety of our patients as well as for our reputation and our value based payments
- We are discussing using the lessons we learned for this process to reducing other HAIs