



Albert Einstein College of Medicine

# Self-Stewardship of *Clostridium difficile* testing: An Interdisciplinary Change



Division of Hospital Medicine

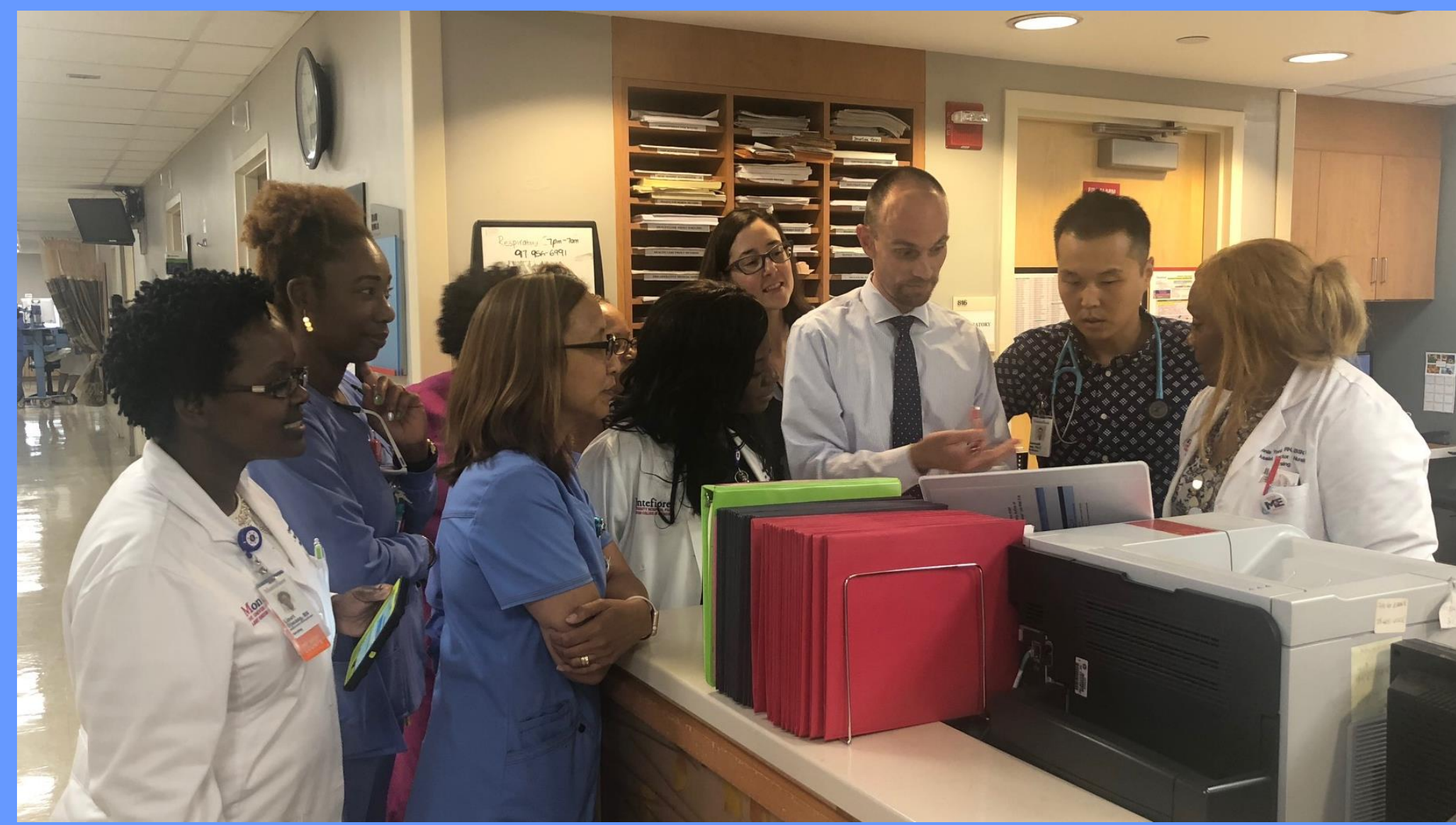
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Montefiore Medical Center

## Background

There are over 400,000 cases and almost 30,000 deaths from *Clostridium difficile* (*C. diff*) each year in the United States. Because of the associated morbidity and mortality, rates of Hospital Onset *C. diff* are reported at the state and national level as an indicator of safety in a hospital system.

This project occurred within the context of a larger project designed to decrease rates of Hospital Onset *C. diff* within the Montefiore Medical Center and within all of the patients in the Bronx.

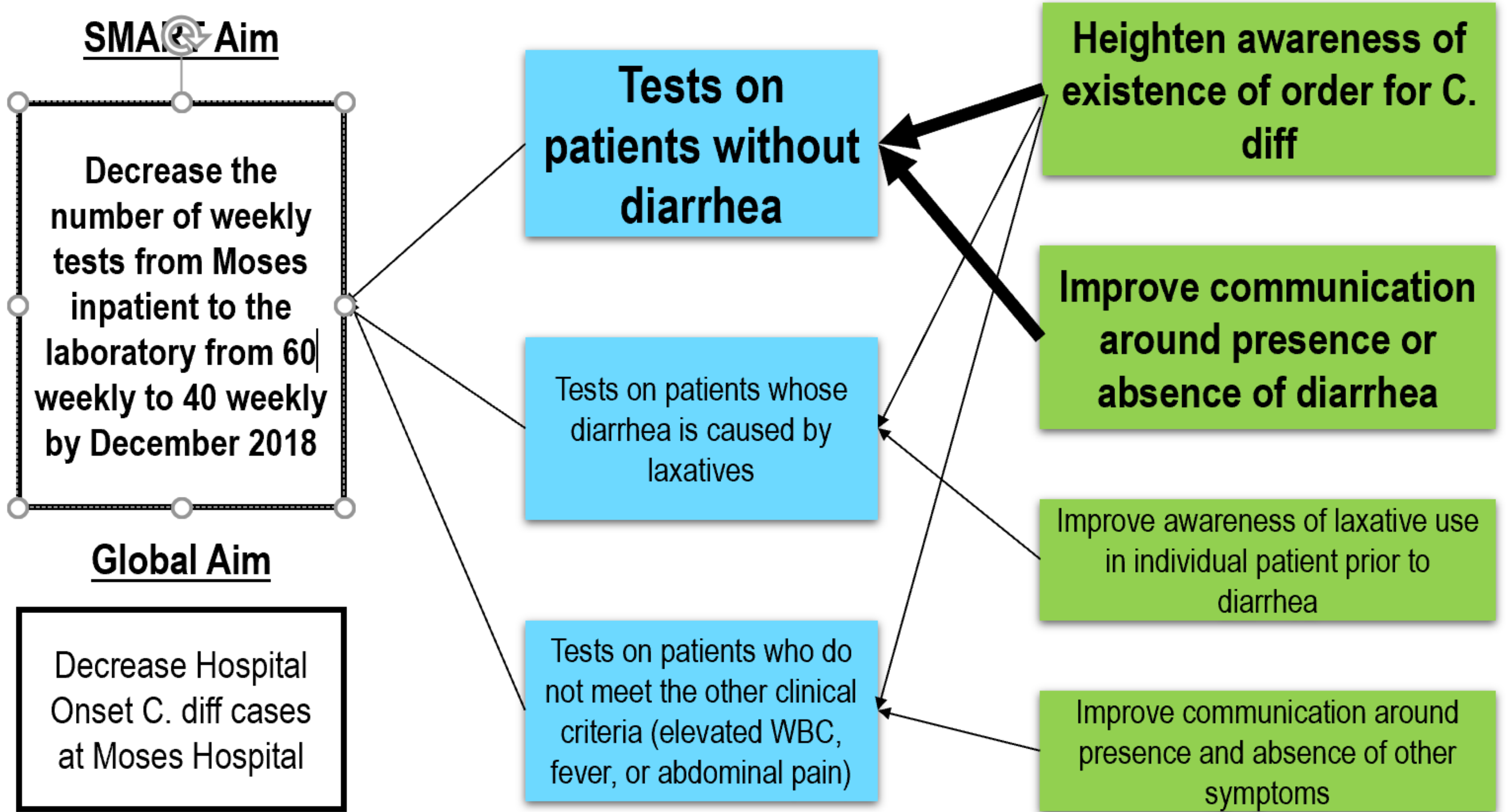


Interdisciplinary Self-Stewardship Team comprised of Staff nurses, Nursing leadership, Unit Secretaries, Physicians, Physician Assistants, Physician leadership, Infection Preventionists, and Environmental Service workers.

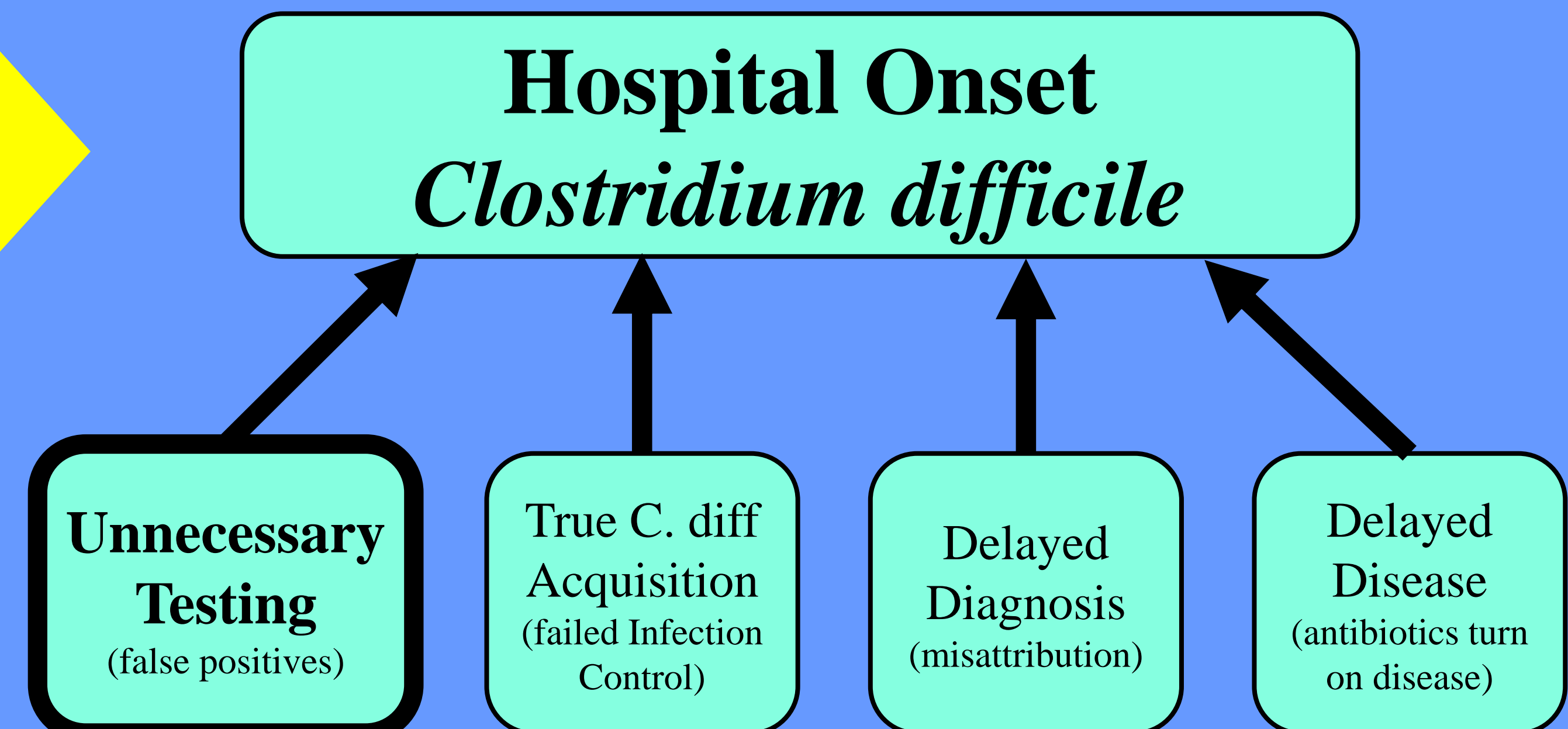
## Key Driver Diagram: REDUCING UNNECESSARY *C DIFF* TESTING

### Key Drivers

### Interventions



## Conceptual Model



## Daily report of uncollected *C. diff* tests

| IP Patients with only Active or Collected Clostridium Difficile Panel Orders - MOSES | Order Description           | Age of Order (Days) | PLCS Order Date | Collection Date | Collection Time |
|--|-----------------------------|---------------------|-----------------|-----------------|-----------------|
| MOSES CSICU / CSI 17 / 17-A  | CLOSTRIDIUM DIFFICILE PANEL | 7h 53m              | 22 07/27/2018   | 07/27/2018      | 0920            |
| MOSES CSICU / CSI 17 / 17-A  | CLOSTRIDIUM DIFFICILE PANEL | 4h 14m              | 22 07/27/2018   |                 |                 |
| MOSES EMERGENCY DEPARTMENT / W-14 / W-14   | CLOSTRIDIUM DIFFICILE PANEL | 8m                  | 0 07/27/2018    |                 |                 |
| MOSES FOREMAN 6AW / F674 / F674-A  | CLOSTRIDIUM DIFFICILE PANEL | 2d 16h 47m          | 3 07/24/2018    |                 |                 |
| MOSES FOREMAN 6C / CCU / 6CCU 12 / 6CCL-12   | CLOSTRIDIUM DIFFICILE PANEL | 4h 9m               | 14 07/27/2018   |                 |                 |
| MOSES FOREMAN 7AE / F755 / F755-A  | CLOSTRIDIUM DIFFICILE PANEL | 21h 43m             | 2 07/26/2018    |                 |                 |

## Standard work for Self-Stewardship Communication

***Clostridium difficile* Guideline:**

- Each morning, when printing the list of patients with Foley catheters, the Unit Secretary prints the EPIC report of patients with an active Clostridium difficile order:
  - "IP Patients with only Active or Collected Clostridium Difficile Panel Orders - Moses"
- Unit Secretary hands the list to the charge nurse for initial review during huddle and to clarify before IDT rounds if the patient is having diarrhea.
- The Charge nurse (or leader of IDT) will use the following script for each patient on the report for IDT rounds:
  - This patient had a *C diff* test ordered      days/hours ago.
  - Question to RN: Is this patient having diarrhea?
  - Question to Physician/PA team: Do you still want a stool sample to be collected? (If Yes: RN/NA team to focus on collection and tubing to lab ASAP) (If No: Team to be instructed to cancel order in EPIC ASAP)

## Lessons Learned and Next Steps

**The Value of an Interdisciplinary Team:** Our interdisciplinary plan increased awareness of *C. diff* tests ordered and communication of diarrhea with minimal disruption to team functioning which was only possible because of the non-MD, non-RN members of the team.

**Setbacks are Inevitable:** Our data source was permanently interrupted in Week 32 requiring the team to locate an alternative source.

**Finding common waste:** Nursing teams were especially sensitive to wasted specimen collection and isolation.

**Hearing from successful floors helps with spread:** New floors were more willing to attempt intervention after hearing from successful nursing teams

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## Process Measure

### Number of *C diff* tests that arrived at the Microbiology Lab

