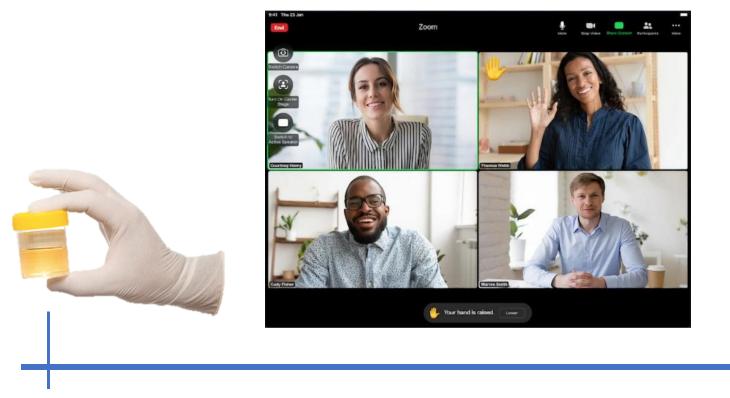


#### 17 May 2022

#### Reducing Rates of Diagnosis and Treatment of Asymptomatic Bacteriuria at HMC

Alyssa Castillo, MD

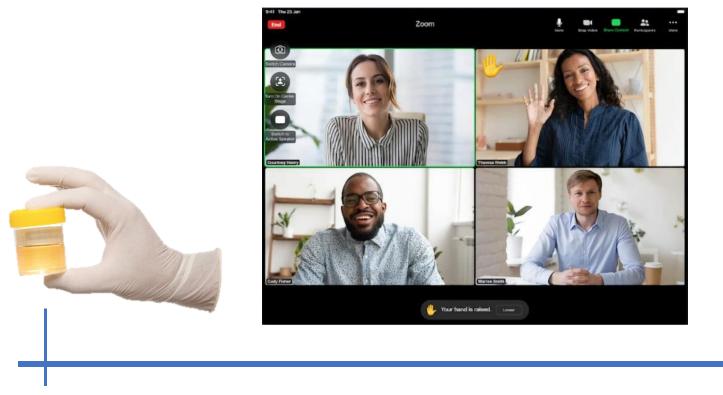
# Why this project?



Aug 2021



## **The First Step**



Aug 2021



# Lofty Goals...

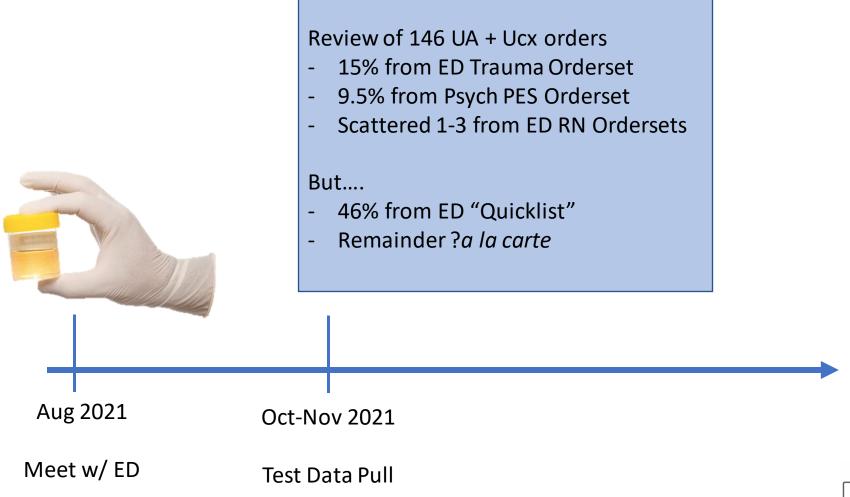
#### **Aim Statement**

By March 1, 2022, we aim to reduce the percentage of urine cultures obtained in adult patients who are seen in the HMC Emergency Department without coinciding urinary symptoms by 25%.



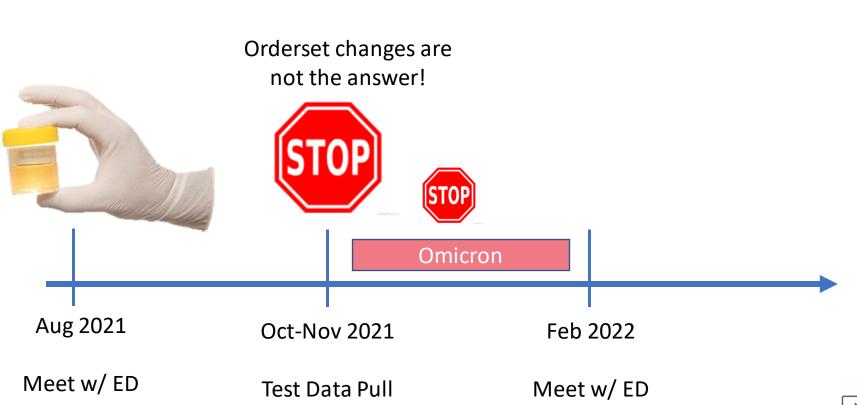


## **The First Surprise**





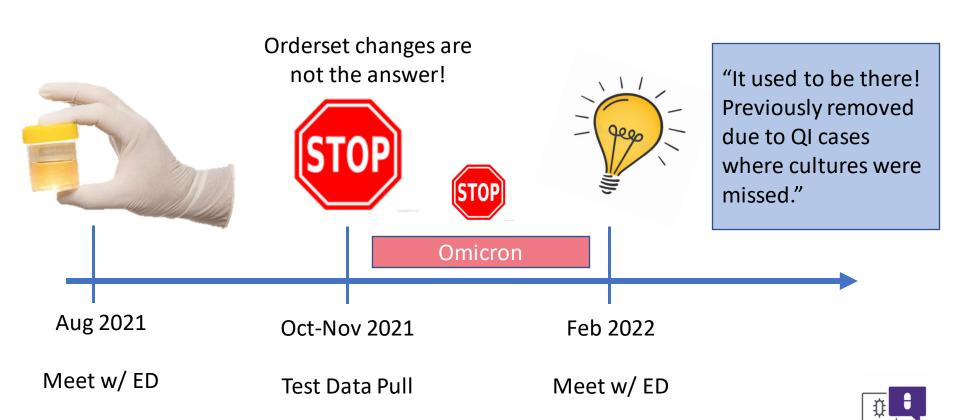
#### **Unexpected Setbacks...**



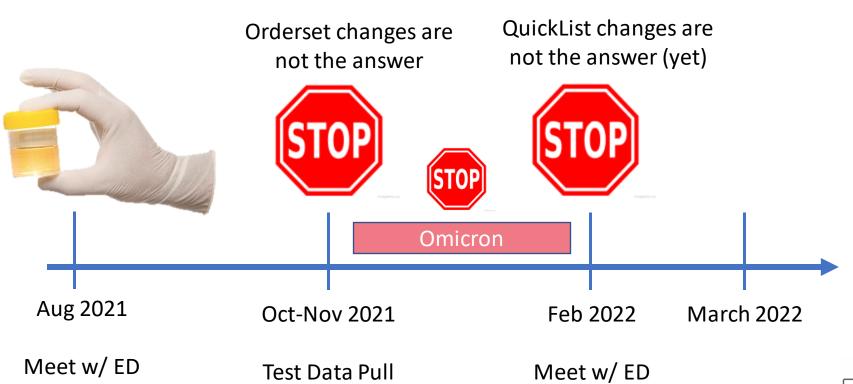


Orders	
Quick List All Orders Cosign Orders	
Order Sets	
Favorites (1) UWM LEFT WITHOUT BEING SEEN	
Quick Orders     Imaging     Meds     Nursing     Labs     POCUS	
Hematology	
CBC with Diff	ID Labs
Псвс	Blood Cultures x 2
Prothrombin Time	Enteric Pathogens Panel
Partial Thromboplastin Time Move UCx?	C-Reactive Protein
D-Dimer, Quant	Erythrocyte Sedimentation Rate
Chemistry	Mononucleosis Test
Basic Metabolic Panel	Group A Strep, Rapid Detection
Comprehensive Metabolic Panel	Culture CSF w/Gram
	Culture Body Fluid, Bacterial w/ Stain
POC Glucose, Whole Blood - Docked	Diagnostics Other
L Lactate, Venous Plasma (To U/H Lab > 30 Min)	EKG 12-Lead
Hepatic Function Panel	
Lipase Add simple UA?	Public Health Screening
Urinalysis with Reflex Culture	HIV Antigen and Antibody Screen

#### **Back to Square One**



#### **Another Unexpected Setback**





#### **Feeling Deflated?**





## Let's Reframe This!

#### "I haven't failed. I've just found 10,000 ways that don't work."

- Thomas Jefferson





#### PDSA Cycle 1

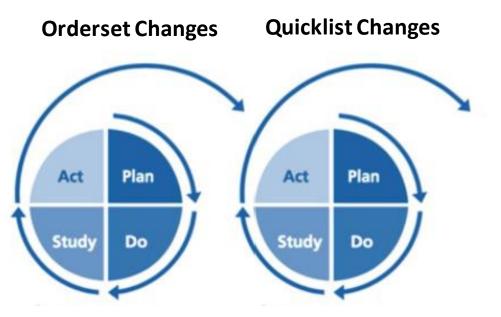
#### **Orderset Changes**



P: Remove reflex Ucx
from Trauma orderset
D: Evaluate the data
S: This is not a driving contributor!
A: Do not implement – low-yield intervention



#### PDSA Cycle 2

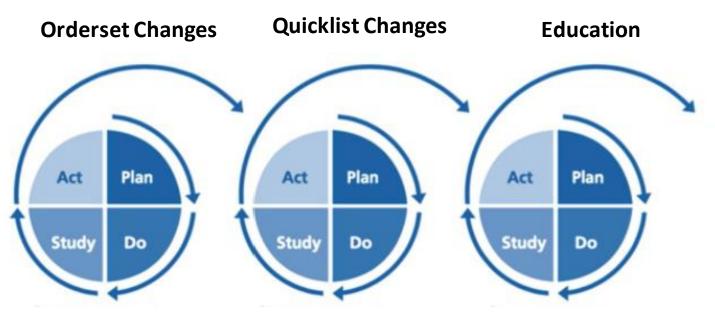


P: Remove reflex Ucx
from Trauma orderset
D: Evaluate the data
S: This is not a driving contributor!
A: Do not implement – low-yield intervention

P: Add a simple UA to
Quicklist
D: Discuss w/ ED
colleagues
S: Significant
resistance!
A: Do not implement –
insufficient buy-in



## PDSA Cycle 3



P: Remove reflex Ucx
from Trauma orderset
D: Evaluate the data
S: This is not a driving contributor!
A: Do not implement – low-yield intervention

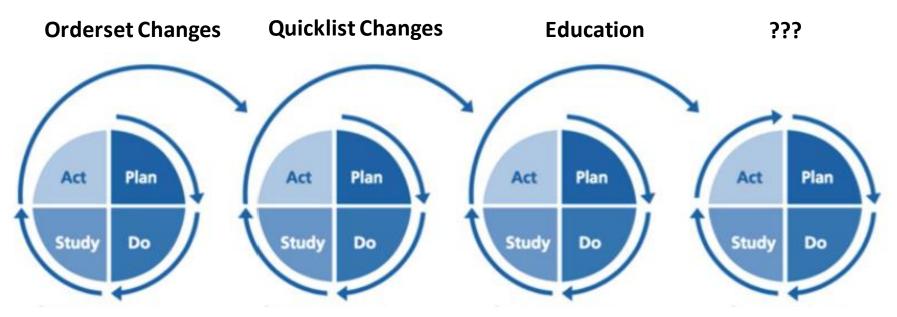
P: Add a simple UA to
Quicklist
D: Discuss w/ ED
colleagues
S: Significant
resistance!
A: Do not implement –

insufficient buy-in

P: Intensive education re: harms of ASB diagnosis and treatment in high-utilization groupD: Evaluate the data!



## PDSA Cycle 4 and beyond!



P: Remove reflex Ucx
from Trauma orderset
D: Evaluate the data
S: This is not a driving contributor!
A: Do not implement – low-yield intervention

P: Add a simple UA to
Quicklist
D: Discuss w/ ED
colleagues
S: Significant
resistance!
A: Do not implement –

insufficient buy-in

P: Intensive education re: harms of ASB diagnosis and treatment in high-utilization group
D: Evaluate the data!



#### **My Lessons Learned**

- Prioritize understanding the problem and the process as fully as you can—keep asking questions!
- Nothing can replace knowing and exploring the data
  - It's time-consuming but will save time in the long-run!
- Give yourself credit for the knowledge learned even if through trial-and-error

