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#### **Chloraprep Dry Time**

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## Chloraprep Dry Time

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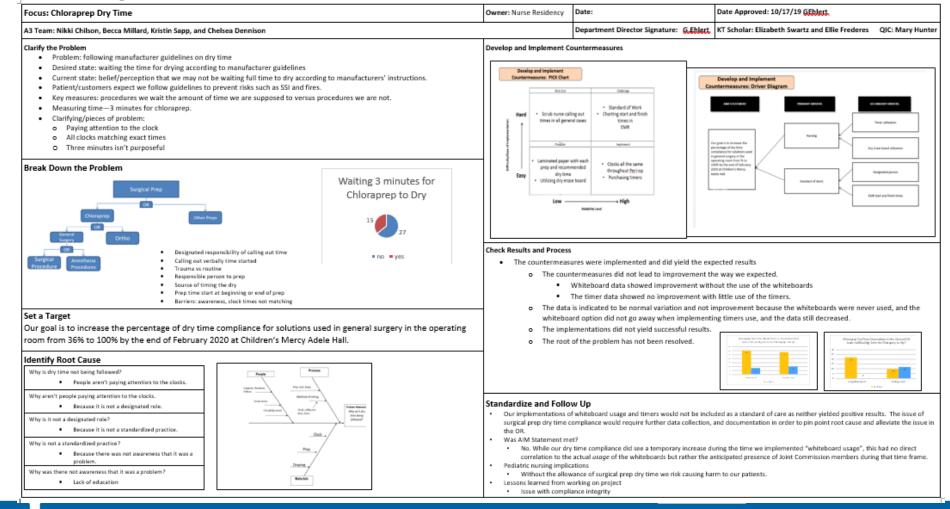
### Acknowledgements

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- QIC Mary Hunter, BSN, RN
- General Surgery Team



#### A3 Overview

#### ,A3 for Problem Solving



### Clarify the Problem

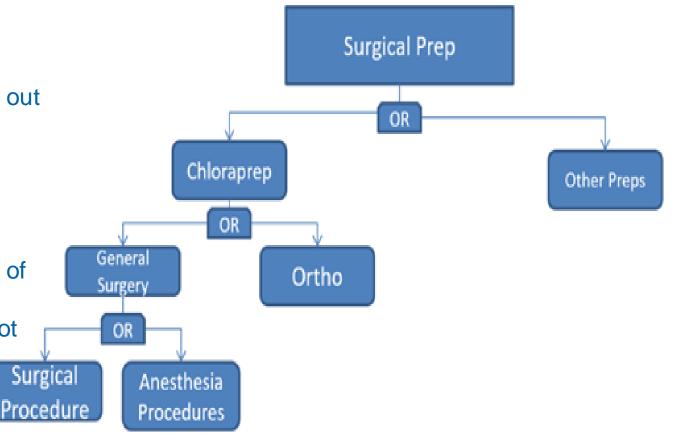
- · Problem: following manufacturer guidelines on dry time
- Desired state: waiting the time for drying according to manufacturer guidelines
- Current state: belief/perception that we may not be waiting full time to dry according to manufacturers' instructions.
- Patient/customers expect we follow guidelines to prevent risks such as SSI and fires.
- Key measures: procedures we wait the amount of time we are supposed to versus procedures we are not.
- Measuring time—3 minutes of dry time for Chloraprep.
- Clarifying/Pieces of problem:
  - Paying attention to the clock
  - All clocks matching exact times
  - Three minutes isn't purposeful



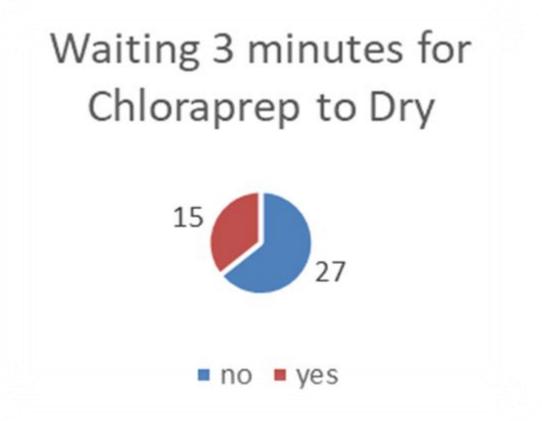
#### **Breakdown the Problem**

 Designated responsibility of calling out time

- Calling out verbally time started
- Trauma vs routine
- Responsible person to prep
- Source of timing the dry
- Prep time start at beginning or end of prep
- Barriers: awareness, clock times not matching



#### **Initial Data**



### Set a Target

 Our goal is to increase the percentage of dry time compliance for chloraprep used in general surgery in the operating room from 36% to 75% by the end of February 2020 at Children's Mercy Adele Hall.

### **Identify Root Cause**

Why is dry time not being followed?

People aren't paying attention to the clocks.

Why aren't people paying attention to the clocks.

Because it is not a designated role.

Why is it not a designated role?

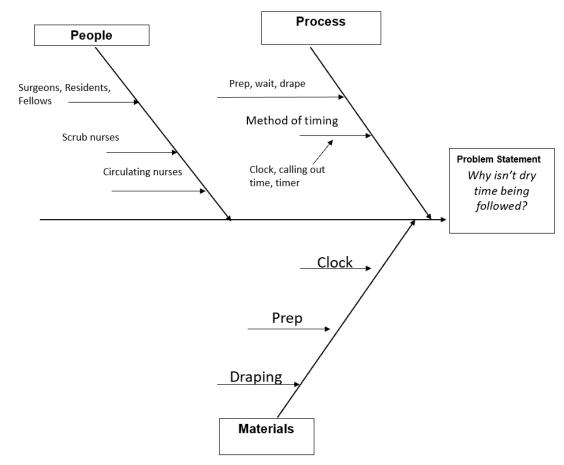
Because it is not a standardized practice.

Why is not a standardized practice?

Because there was not awareness that it was a problem.

Why was there not awareness that it was a problem?

Lack of education



# Develop and Implement Countermeasures

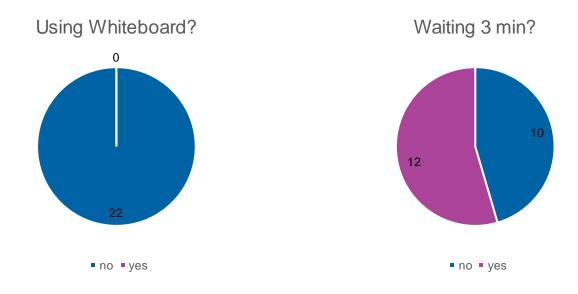
AIM STATEMENT

Our goal is to increase dry time compliance of surgical prep (Chloraprep) within General Surgery from 36% to 75% by February 2020 at Childrens Mercy Hospital, Adele Hall Campus

PRIMARY DRIVERS SECONDARY DRIVERS **Timer Utilization** Nursing Whiteboard Usage **Designated Person** Standard of Work EMR Start/Stop Times

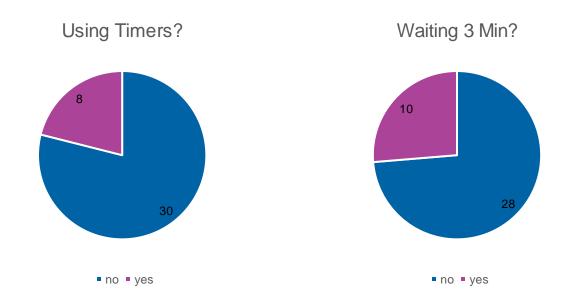
#### **Check Results and Process**

 After implementing whiteboard use, data shows there was an increase in compliance to manufacturer guidelines on waiting 3 minutes for Chloraprep to dry from 30% to 54.5%. Chloraprep Dry Time Observations: is the General OR team staff waiting 3 min for Chloraprep to Dry?



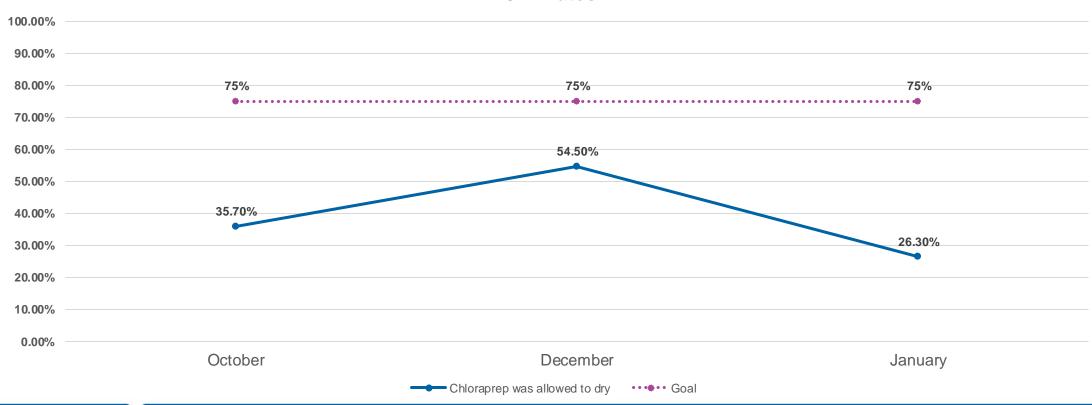
#### **Check Results and Process**

 After implementing the use of timers, data shows there was a decrease in compliance to manufacturer guidelines on waiting 3 minutes for Chloraprep to dry from 30% to 26.3%. Chloraprep Dry Time Observations: is the General OR team staff waiting 3 min for Chloraprep to Dry?



#### **Check Results and Processes Cont.**

Observation Percentage: Number of observations where Chloraprep was allowed to Dry for 3 Minutes





### Standardize and Follow Up

• Our implementations of whiteboard usage and timers would not be included as a standard of care as neither yielded positive results. The issue of surgical prep dry time compliance would require further data collection, and documentation in order to pin point root cause and alleviate the issue in the OR.

#### Conclusion

- Was AIM Statement met?
  - No. While our dry time compliance did see a temporary increase during the time we implemented "whiteboard usage", this had no direct correlation to the actual *usage* of the whiteboards but rather the anticipated presence of Joint Commission members during that time frame.
- Pediatric nursing implications
  - Without the allowance of surgical prep dry time we risk causing harm to our patients.
- Lessons learned from working on project
  - Issue with compliance integrity



#### References

- Jones, E. L., Overbey, D. M., Chapman, B. C., Jones, T. S., Hilton, S. A., Moore, J. T., & Robinson, T. N. (2017). Operating Room Fires and Surgical Skin Preparation. *J Am Coll Surg*, 225(1), 160-165. doi:10.1016/j.jamcollsurg.2017.01.058
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