

## What we are trying to accomplish

**Global Aim:** To achieve first case on-time starts (FCOTS). Definition is patient in room by 0745 for 90% of the 10 Operating Rooms (OR).

**Project Aim:** Improve the FCOTS for the service line with the lowest on-time starts by 20% within three months from baseline.

## Background

**Setting:** Medium sized hospital in Northern California, 12 OR's, average weekly cases 600-700.

OR time is expensive, the average cost for a OR minute is \$15 to \$20 (Chua, et al., 2021). When rooms do not start on time there is waterfall of effects which lead to increased cost, decreased utilization of room, supplies and staffing. Also, dissatisfaction of patients, staff and physicians.

This facilities on time starts average 40-60%. Industry standard ranges from 10-65% (Allen, et al., 2019, Chua, et al., 2019, Matthews et al., 2015). Streamlined processes will improve patient flow and utilization of services.

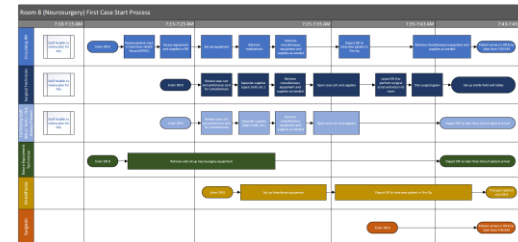
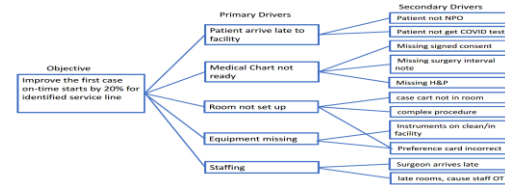


## How we will know there is improvement

### Measures

Measure	Data Source	Target
<b>Outcome</b>		
% minutes the is late patients in OR by 0745	Chart Review-Health connect [EPIC]	90%
<b>Process</b>		
Create OR FCOTS algorithm with team.	Chart Review-Health connect [EPIC]	Within next 4 weeks
Develop FCOTS template	Chart Review-Health connect [EPIC]	
Create standard room set up	Team input	Within next 4 weeks
<b>Balancing</b>		
Looking at the # missing consent	Chart Review-Health connect [EPIC]	During the implementation
Identifying # of missed H&P interval notes	Chart Review-Health connect [EPIC]	During the implementation

### Tools



### ROI

OR time averages \$20/minute.

- Aug delay: 279 mins, cost of \$5580.
- Sept. delay: 176 mins, cost of \$3520. Improvement of 36.9%.
- Oct delay: 189 min, cost of \$3780. Improvement of 32.3%.

## What changes can we make

### Interventions

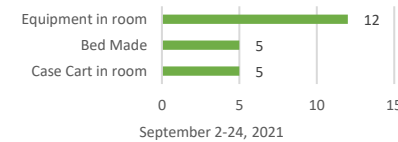
1. Create yes/no form indicating room set up from previous shift.
2. Standard room set up guide created.
3. Track/trend delay reasons.

### Worksheet

Date: \_\_\_\_\_

Was Case cart in room: Y/N Was Bed made: Y/N Was equipment in room: Y/N

### First case worksheet results



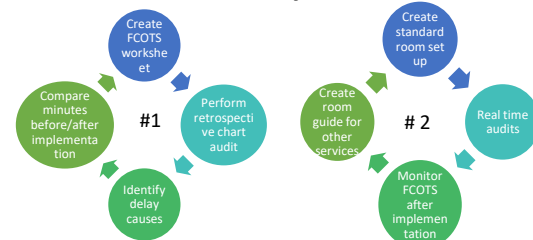
### Room Set-up Guide



Cranial Procedures

- Patient's left side/Cebral procedure, to right side
- Preop: if equipment will be placed side
- Head: headrest will support on neck/ears
- Stock: Microscope against the wall with patient entry
- Room: suction off computer floor outlet

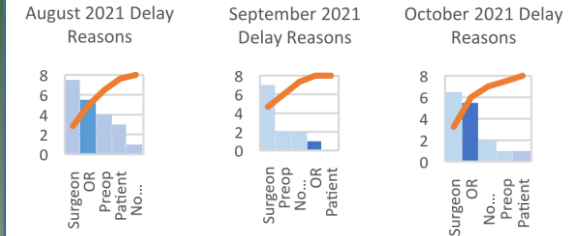
### PDSA Cycles



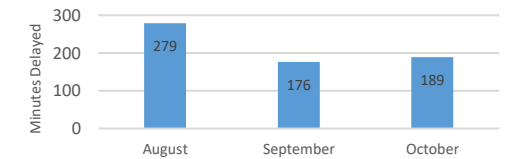
Each Cycle took 4 wks. to complete.

## Results

### Delay Reason Data



### Monthly Delay Minutes 2021



## Conclusion

Triaging causes affecting FCOTS is key to begin improvement, staff and leadership buy-in is required.

## Next steps

- Further breakdown the FCOTS by procedure and surgeon.
- Look at standardization of procedure packs.
- Increase additional staff comfort working in specialty.

## References

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