

Andrew Cantos, MD • Melinda Lim, BSN, RN • Erin Panter, BSRT • Kaitlyn Boor, MHA • Allison Schill, RT • Lindsay Marchetti, MS PA-C • Katerine Sheppard, MS, RN  
Department of Imaging Sciences, University of Rochester Medical Center, Rochester, New York

## BACKGROUND

Strong Memorial Hospital is the flagship hospital for University of Rochester.

- Academic teaching hospital
- Level 1 trauma center
- Largest comprehensive transplant center in Upstate NY.
- 890 beds, >39,000 admissions annually.

**Problem:** The first case start time (FCST) is a key determinant of daily operational efficiency. Delays FCST create cascading and compounding impacts on productivity.

**Starting point:** March 2025, only 42% of first cases started within 15min of scheduled time

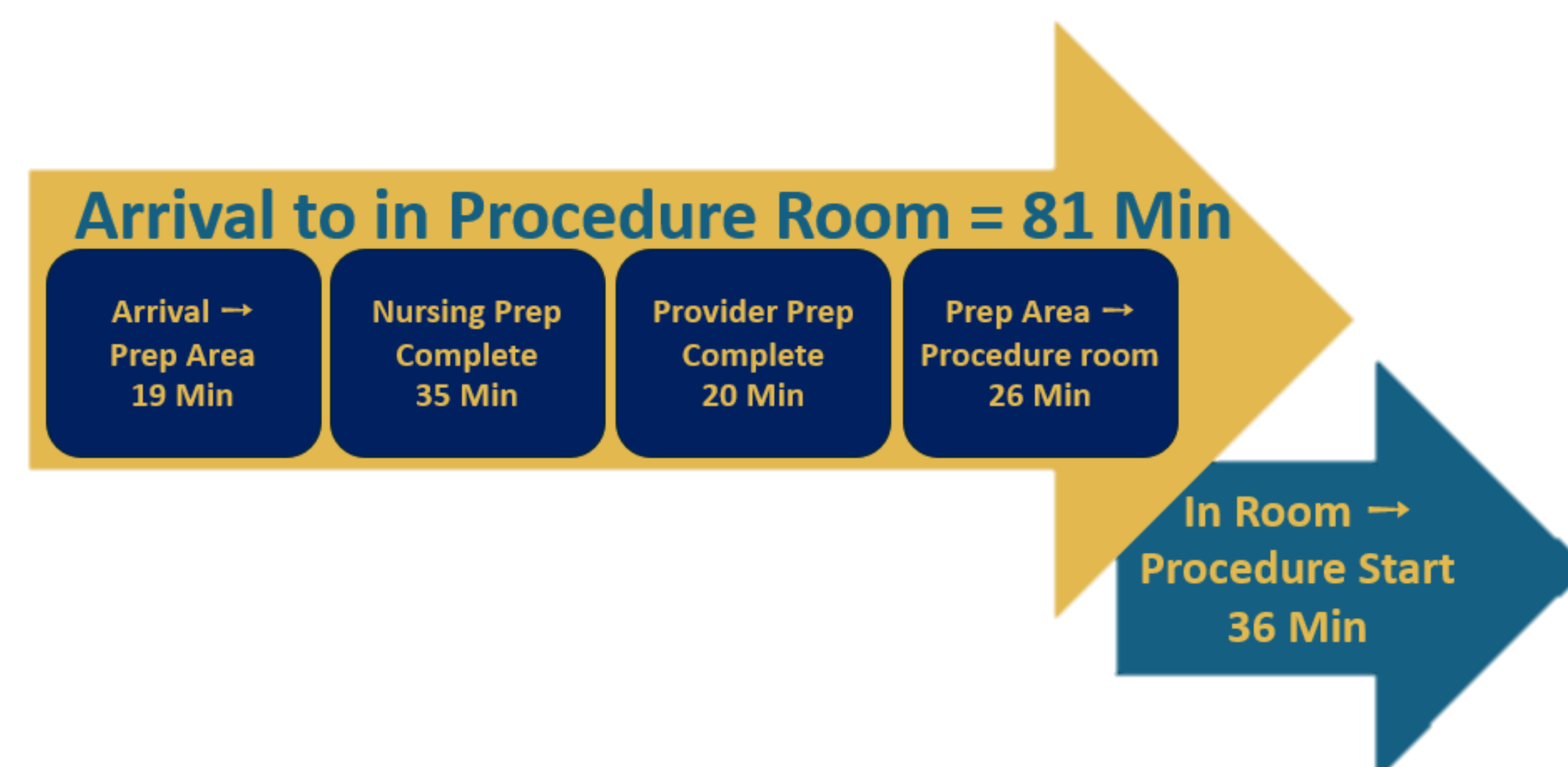
## OBJECTIVE

Improve FCST from 42% to 75% in 6 months through multidisciplinary process improvement

## METHODS

Evidence based A3 performance improvement methodology to guide multidisciplinary thinking, from problem definition to root cause analysis, countermeasures, and sustained improvement, using iterative PDSA (Plan-Do-Study-Act) cycles.

## CURRENT STATE ANALYSIS



## PROJECT TIMELINE

### Phase 1 BASELINE

Mar – Apr 2025

Manual data collection across 8 procedure rooms. Multiple time points recorded from patient arrival through procedure completion timestamps.

### Phase 2 AWARENESS

May – Jun 2025

Project launch and staff engagement. Increased team awareness of FCST performance metrics.

### Phase 3 INTERVENTIONS

Jul – Sep 2025

Root causes identified via A3 fishbone. Key drivers established. PDSA interventions tested and implemented.

## KEY DRIVERS

**01 Communication Gaps**

- EMR status board utilization inconsistent
- Geographically separated prep & procedural area

**02 Outpatient Prep Variability**

- Inconsistent prep order placement
- Location within facility far & difficult to find

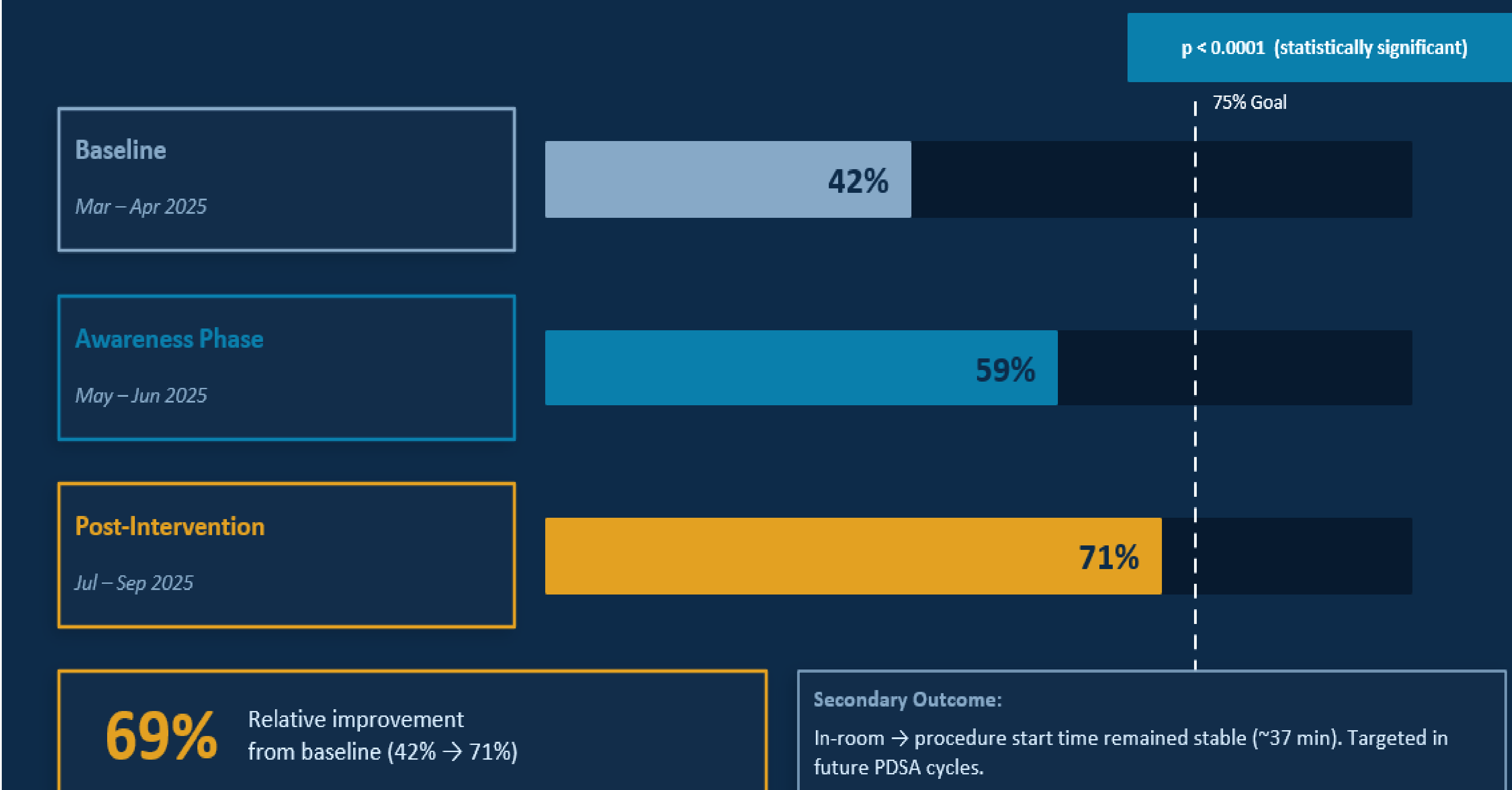
**03 Workflow & Process Gaps**

- Long A.M. sing-out delays consent process
- Unclear provider room assignments

**04 Data Transparency**

- EMR dashboard inaccurate
- Ontime performance not reliably shared

## RESULTS



## Interventions

### Restructured A.M. Huddle

- Morning hand-off was delayed 15min
- Outpatient consents obtained before huddle so patients could be moved into procedural rooms as soon as nursing completed their work-up.
- Provider room assignments communicated immediately to all staff & assigned within EMR.

### Revised Prep Instructions

- Patient arrival times were moved up 15min to account for departmental distance from parking garage
- Nursing schedule adjustments made to reflect arrival time changes

### Pre-Procedure Checklist

- EMR optimization was not achievable in our timeframe
- Reverted to a standardized paper checklist
- Specific attention was given to confirming initial “hard stop” information (NPO Status, Anticoagulation holds, adequate labs & driver information) & completion of H & P and MD Assess.

### Data Transparency:

- Weekly Kanban board to display on-time start data transparently
- Regularly scheduled team meetings to drive accountability and identify ongoing barriers.

## CONCLUSION

A structured, multidisciplinary performance improvement initiative using A3 methodology significantly improved first case on-time starts in our IR division