

# Improving Efficiency in Labor Induction Processes: A PDSA-Based Quality Improvement Project



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## Background

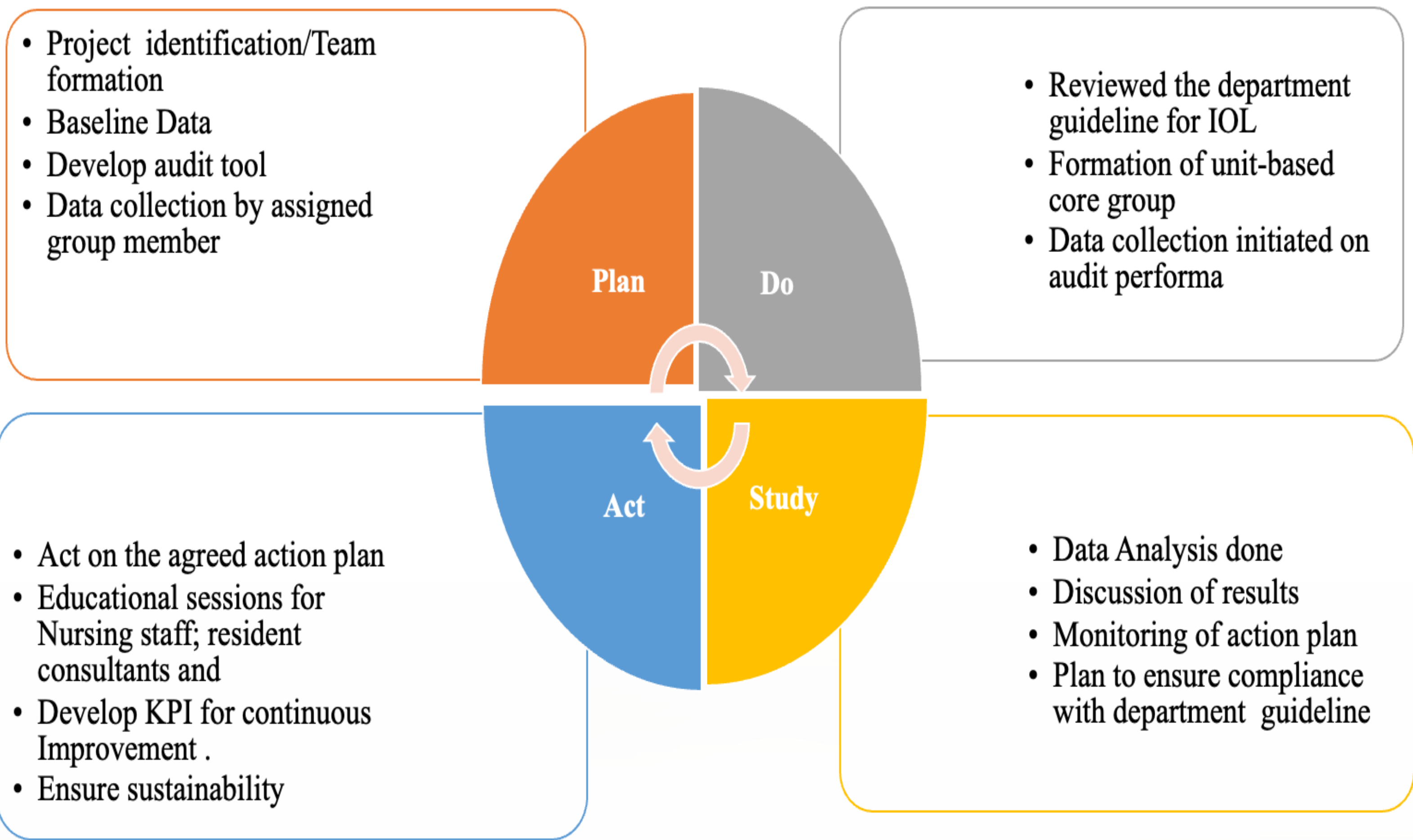
Labor induction is a crucial aspect of obstetric care, and inefficiencies in this process can lead to prolonged labor management, increased cesarean sections, and reduced patient satisfaction.

Initial data collection showed that delays were present in 31% of cases, primarily due to late initiation of mechanical induction. Delays were linked to factors such as late patient arrival and inefficient process flow. This quality improvement project aims at reducing delays in the labor induction process using the Plan-Do-Study-Act (PDSA) methodology.

## Objectives

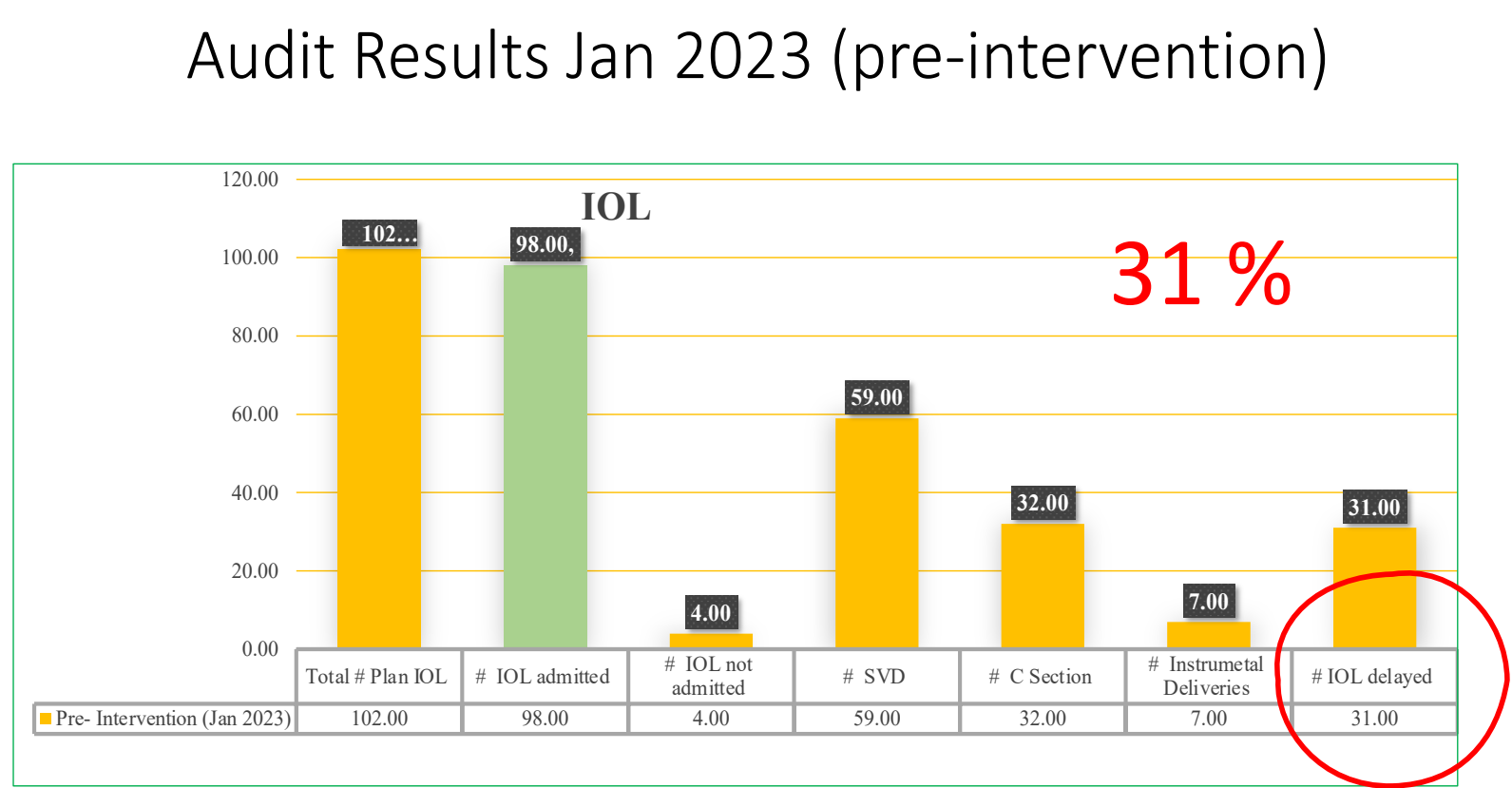
- To identify the reasons of delay in induction of labor processess
- To reduce the delays in the labor induction process, aiming for a delay rate of less than 15% by end of Q1, 2024

## Methodology



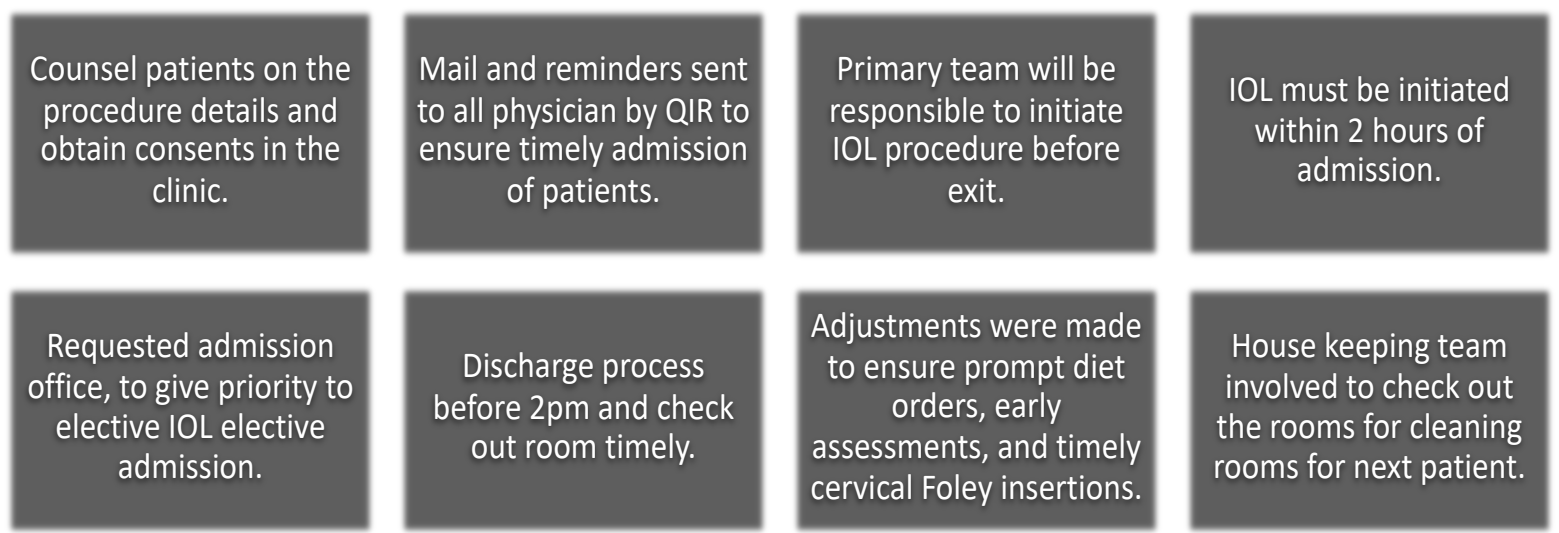
This diagram depicts the PDSA methodology for this project.

## Results



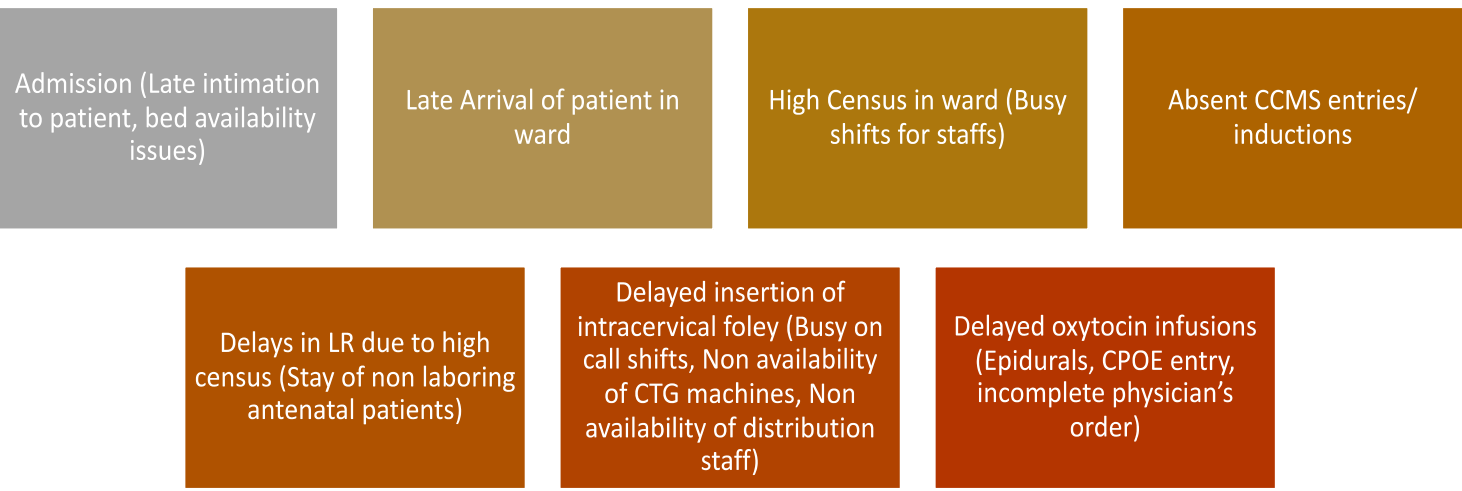
Graph 1 shows preintervention results with delay of 31%

Strategies to improve audit results to reduce delays



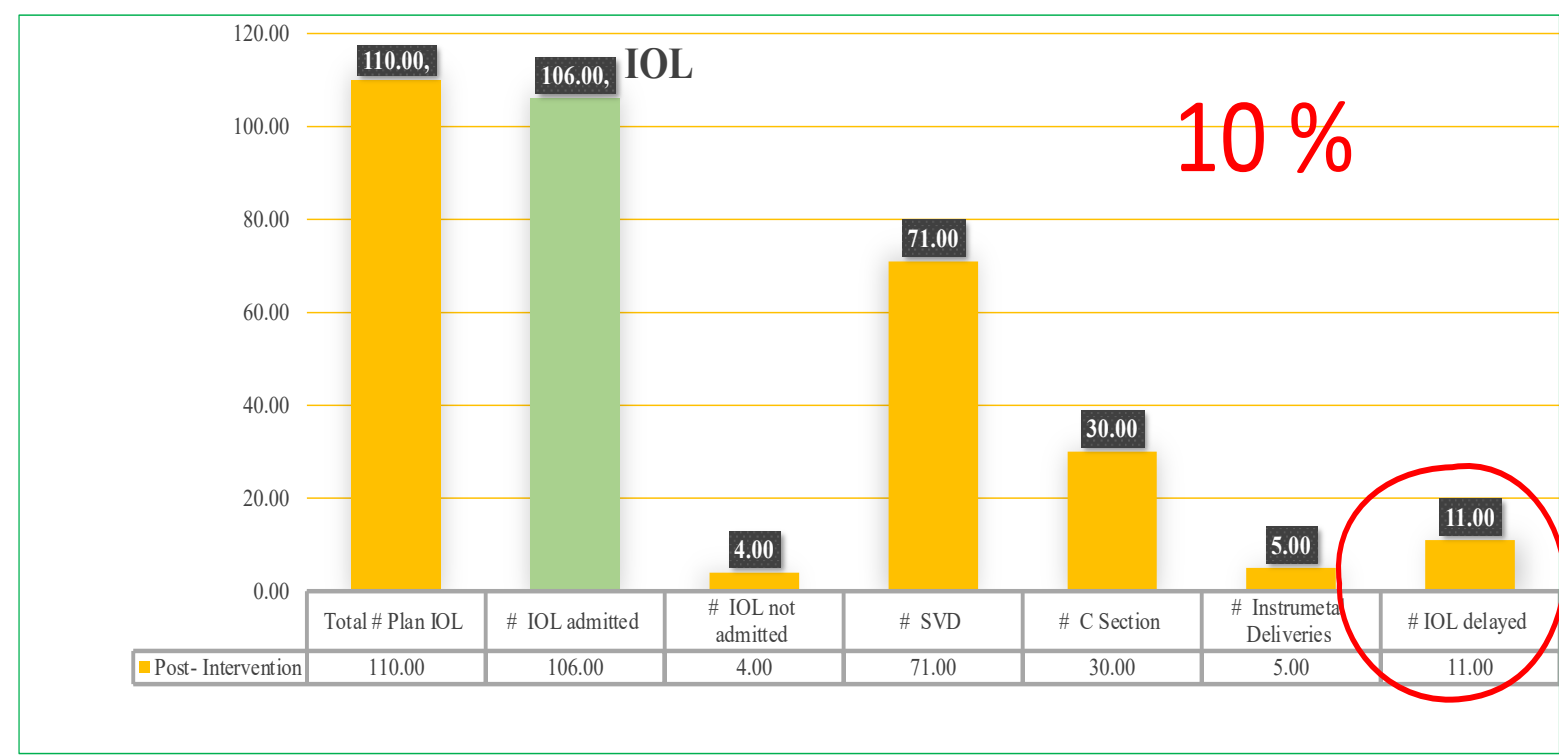
Slide 2 shows strategies to address the delays in the flow process

Reasons Identified for Delayed Induction



Slide 1 shows common reasons identified for delays in the flow process

Audit Results (post-intervention)



Graph 2 shows Post-intervention results with delay in 10% of cases

## Conclusion

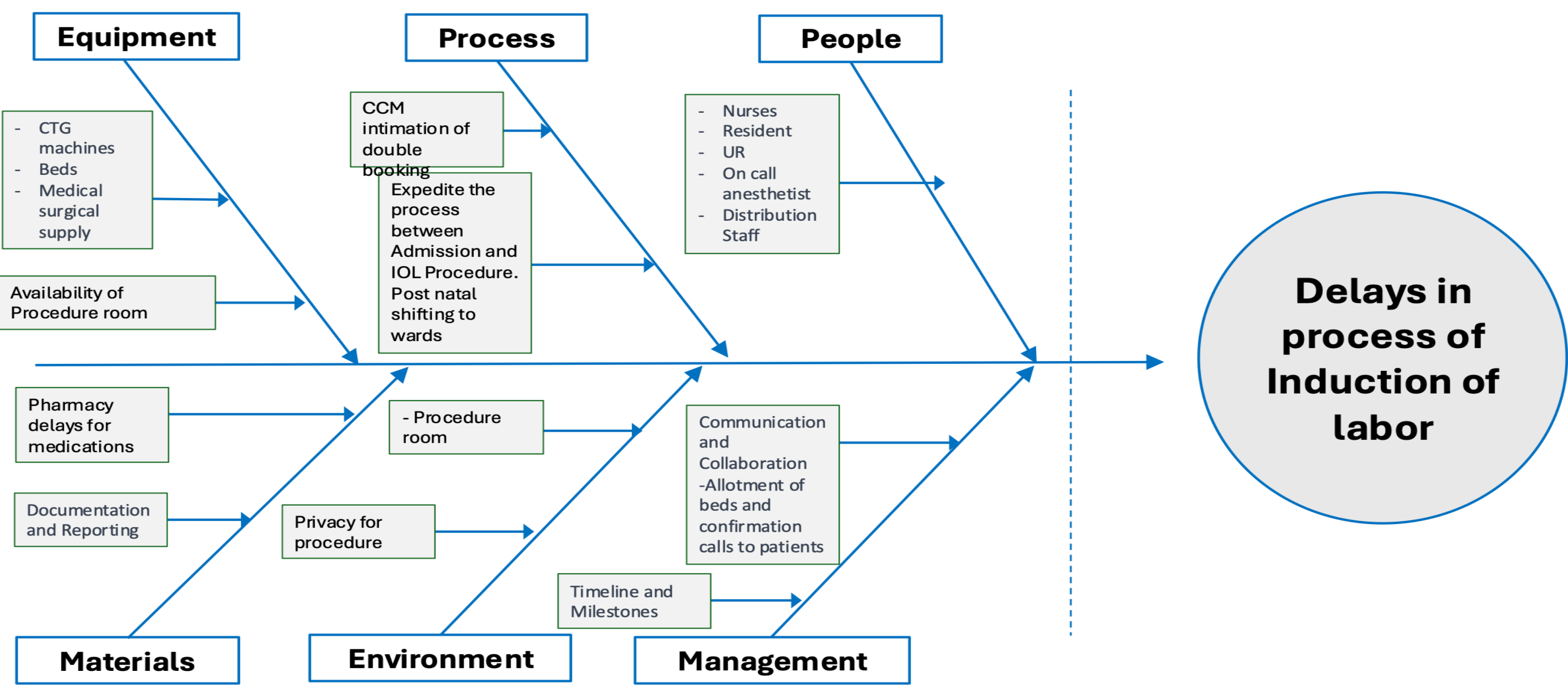
Using the PDSA methodology, we successfully reduced delays in the labor induction process at our tertiary care hospital.

**Standardization:** Based on the positive results, the new procedures were standardized and integrated into the routine workflow of the labor and delivery department.

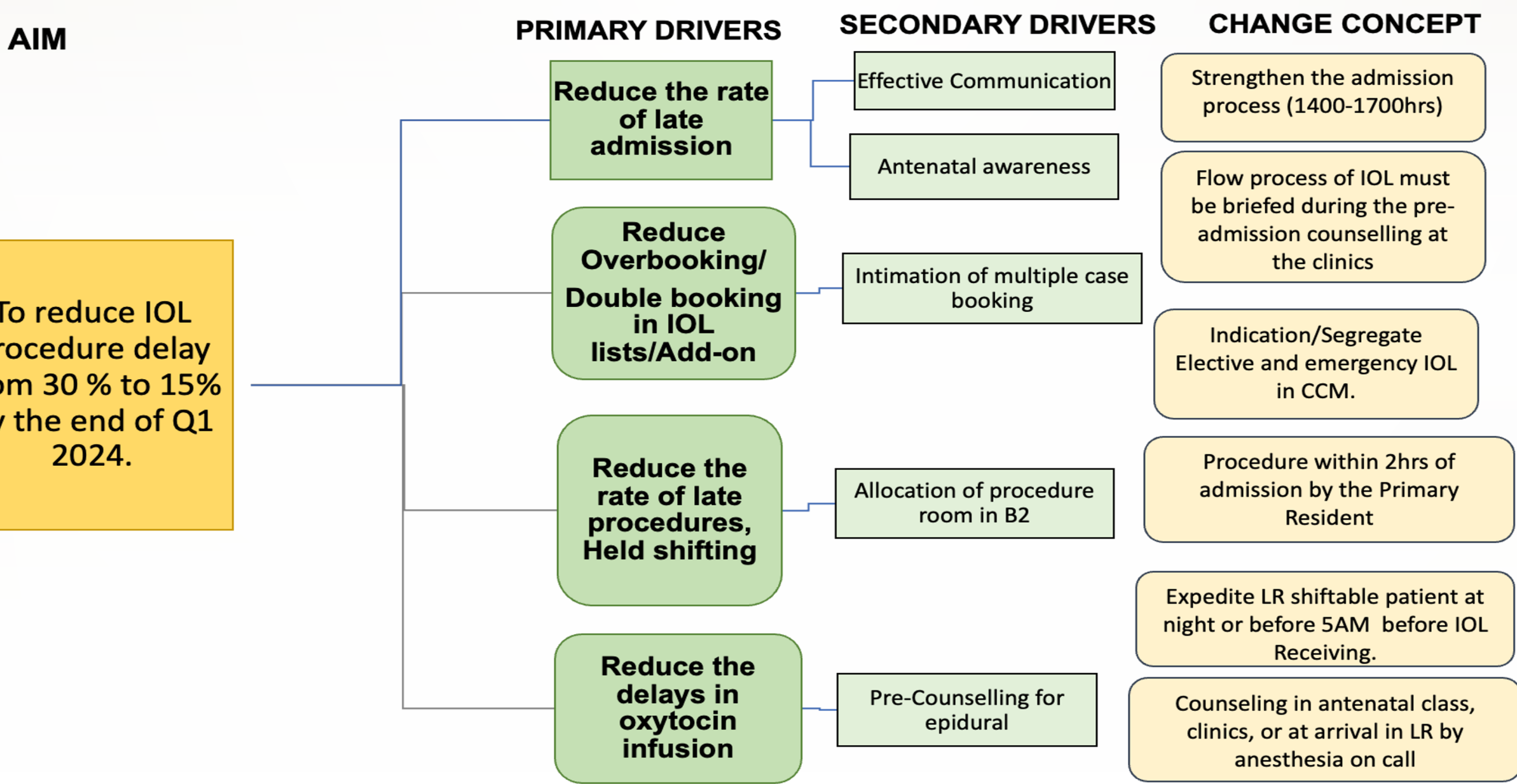
**Further Improvements/ Sustainability:** Continuous monitoring has been established to maintain the improvements and identify any new issues that might arise. Feedback from staff and patients will be used to make further refinements if necessary.

**Communication:** The success of the project was communicated to all stakeholders to reinforce the importance of the new processes and ensure continued adherence.

## Fishbone Diagram



This fishbone diagram represents the issues related to various factors leading to the delays



This Driver's diagram shows the primary and secondary drivers with change in concept and implementation