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IMPROVING OPERATING ROOM EFFICIENCY IN ROBOTIC CASES

PURPOSE

The purpose of the quality improvement project was to provide a study was to improve operating room efficiency by implementing a turnover model that would decrease time in between surgical cases. The prolonged turnover time has led to delayed case starts, increased wait time for patients, decreased operating room viability.

BACKGROUND

The operating room is one of the most profitable areas of the hospital. Delays in surgical intervention can negatively affect patient satisfaction, financial outcomes, and operating room efficiency. Surgical services will decrease the robotic-assisted surgery room TOT by 10% of baseline (45 minutes to 41.5 minutes) within 6 months.

METHODOLOGY

A swim lane model was created to contrast the current and future tasks that focused on standardizing tasks to reduce time. The use

of lean the swim lane future state model will assist perioperative leadership with key time factors that alleviate nonvalue added tasks. The outcome measure that the future state model solely impacts is the patient in room and turnover time outcome measures

RESULTS

The mean turnover time for preintervention was 39.9. Only a .3 second time saving decreased the post-intervention data set to 39.6. The mean turnover time did not reveal much of a decrease in turnover.

IMPLICATIONS

The knowledge gained from this study will assist perioperative leaders with running more effective daily operations. Improving daily operations will allow more access to robotic surgical interventions and increase outcomes.