

## Background

- Turnover time (TOT) is the time between the end of one surgical case and the start of the next in the same operating room (Association of periOperative Registered Nurses Foundation, 2016)
- Robotics cases take longer than other specialty areas increasing turnover time and costs (Cohen, 2022)
- Improved efficiency in the operating room improves patient safety, surgical satisfaction, and decreases operating room costs (Divatia & Ranganathan, 2015)

### Purpose

- Improve TOTs to 25 minutes or less in robotics cases at a Pacific Northwest acute care setting
- Standardize the robotics turnover process to improve staff, patient, and surgeon satisfaction



# **Doctor of Nursing Practice Project** Improving Turnover Times in the Operating Room Robotic Cases Ashley Causey, MSN, RN Project Advisor: Rhonda Oldham, DNP, RN

- Documented pre average of 30-45
- Developed stand
- Evaluated the rev workflow with te
- Revised staff rol
- Added float pers
- Assigned zones phase
- Nurse transferred next patient, & r assist with set-up
- Collected post in 19 days in 37 rol

# **Post Implementation TOTs**

Cases
8
8
5
8
5
1
1
1

# Method

e-implementation TOT
5 minutes
dardized workflow
evised standardized
team
les and responsibilities
rson
during the cleaning
ed patient, interviewed returned to room to
mplementation data for obotics surgical cases

# Results

- TOTS



### Discussion

of 25 minutes or less was not met in all cases • TOT decreased to 20-24 minutes in 8 of 37 cases (21.6 %) • Limitations to decreasing TOTs: ✓ Pre-operative staff, surgeon & anesthesia late arrival ✓ Missing staff  $\checkmark$  Extra room set-up time due to: o Obese patients o Instrument sterility o Missing equipment • Room cleaning o COVID protocol

### Conclusion

Project changes will continue in the robotics operating room • Second robotics operating room will implement workflow improvements • No current plan to implement changes in other operating rooms • Robotics charge nurse will monitor

• Operating room staff education and TOT progress update scheduled for monthly staff meetings