



Introduction

Problem description

- Total hip and knee joint replacement patients needing unplanned care postop care increased due to more surgeries (CMS, 2023)
- Unexpected return to acute care within 30 days 55% of all orthopedic readmissions (Williams et al., 2022)
- National outpatient surgery readmission rates TKR 5.56%, THR - 2.95% (Williams et al., 2022)
- Ratio of patients expected to return to the emergency department postoperatively – THR – 2.69%, TKR – 2.84
- CY23 actual return rates to the ED postoperatively –THR 7.69%, TKR - 10.00%
- 5.95% 30-day readmission rate for same-day discharge lower extremity joint replacement (CY23)
- Decrease in patient satisfaction scores for discharge related questions

Literature Review

Postoperative discharge instructions

- Must consider patients ability to comprehend and retain when developing discharge education (Pugh et al., 2021)
- Elective outpatient joint replacement instructions can be extensive and confusing – leads to decreased compliance, insufficient follow-up, increased readmission, decreased patient satisfaction (Wray et al., 2021)

Patient comprehension

- AHRQ study 30% decrease in readmission & ED returns when d/c instructions are clearly understood (DeSai et al., 2021)
- Increased comprehension = decreased complications (DeSai et al., 2021)
- Multimodal means of d/c instruction improves comprehension (Wray et al., 2021)

Timing of d/c education

Crucial to move to preoperative period to improve comprehension and retention (Tanner & Morgan, 2022)

Enhancing Surgical Patient Outcomes Through Multimodal Discharge Education Bonita Conner, DNP, RN, CPHQ, CPAN, CAPA, NE-BC Amy Holloway, MBA, BSN, RN, CNOR, NE-BC Christina Anderson, BSN, RN

Specific Aims

- Include postoperative discharge instruction in the preoperative \bullet patient preparation for surgery.
- Design a multimedia format of discharge education material to facilitate greater understanding and retention of discharge instructions.
- Reduce preventable postoperative acute care readmissions and ED visits.

PICOT

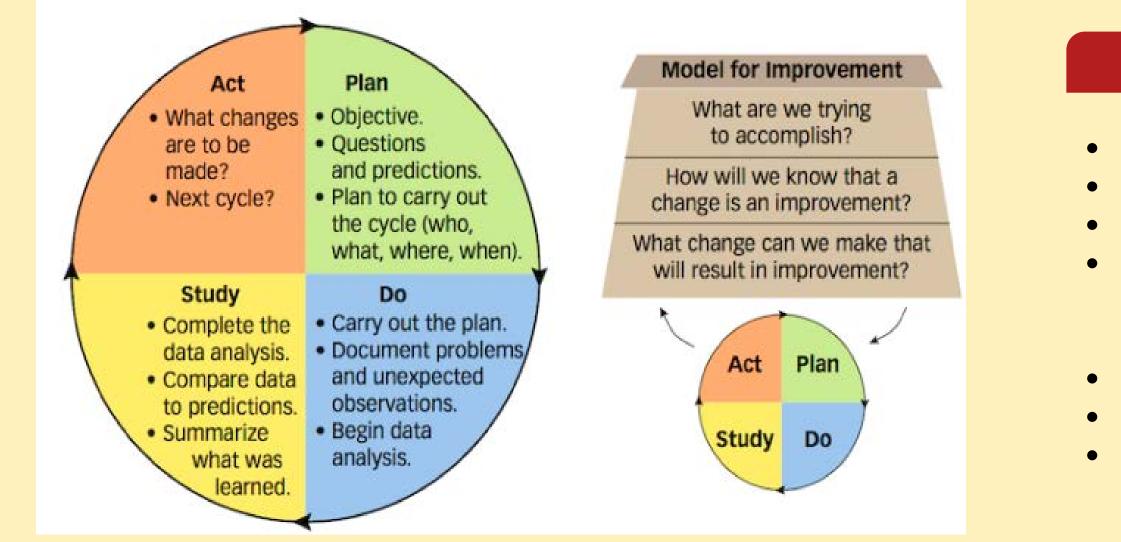
In outpatient elective hip and knee total joint replacement patients, does the implementation of multimodal discharge education, compared to the current outpatient surgery discharge process, affect the 30-day return visit rate and patient experience scores during a 1year time frame?

Theoretical Framework

Advancing Research and Clinical Practice through Close Collaboration Model (ARCC)

- Assesses organizational culture for EBP readiness
- Develops and utilizes EBP mentors
- Increases EBP implementation in healthcare organizations

Plan-Do-Study-Act (PDSA) Model

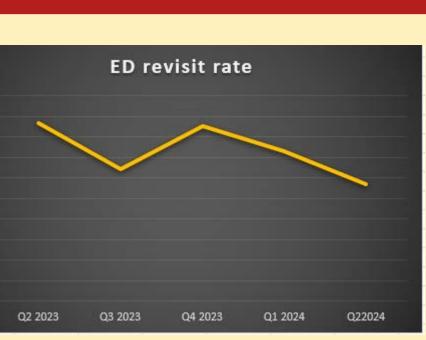


- Discharge educational video viewed by all outpatient elective total hip and knee replacement patients
- Video viewed in the preoperative area with questions answered by RN prior to surgery.
- Patient education booklet was developed to standardize all preoperative teaching material
- Developed scrolling education to be viewed on PACU phase II monitors to reinforce teaching included in video and booklet • Patients completed a 6-question survey after viewing video to

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Intervention

assess for comprehension.



Results

Readmissions decreased from 3.06% to 2.27% and ED returns from 17.35% to 11.36% in Q2 2024 from Q2 2023. An average of a 1.5% improvement in the discharge related patient experience scores.

s Ganey	Current	Current 12 Month Period	Previous 12 Month Period
ain	n	(2023)	(2022)
harge	132	97.8%	96.3%

Limitations

- Small n-size
- Limited budget for educational tool development Surgeon illness
- Lack of nurse buy-in to the process (improvement noted over time with dissemination and improved patient experience scores)
- Limited patient preparation time prior to the first case of the day Patient anxiety – focus on surgery/trouble concentrating
- Education not disease specific generalized topic does not catch patient attention

- access preoperatively
- Additional video development QR code give to patients to
- Expansion of new discharge process to all outpatient surgical patients
- Standardization over time
- Continual readmission & return analysis & dissemination to stakeholders
- Preoperative classes developed utilizing same content to promote repetition and retention

- Repetition of the key elements of postoperative care is vital in improving patient outcomes and experience.







Sustainability

 Video available online – patients view prior to day of surgery & at home postoperatively

Implications for Nursing Practice

- Continued commitment by nurse leadership to development of comprehensive & retainable discharge education &
- processes
- Optimization of patients preoperatively
- Determine post-discharge risk factors for noncompliance
- (Social Determinants of Health assessment)
- Ensure appropriate follow-up care to reassess
- understanding & compliance of provided postoperative instruction

Conclusion

Implementing multimodal discharge education is crucial to decrease preventable readmissions and ED returns postoperatively and improve patient engagement and experience. Continued work towards preventing postoperative readmissions and returns is key to decreasing poor outcomes and financial sustainability.



References

Scan QR code for references