

Project Title

Transforming Knee-Arthroplasty to Day-Surgery Enhanced-Recovery Model Via Care Redesign

Project Lead and Members

Project leads: Mr Ashton Neoh Eng Chuan (Principal Physiotherapist); Dr Kelvin Tan Guoping (Senior Consultant, Orthopaedic Department)

Project members:

- Ms Yap Yan Mei, Senior Physiotherapist
- Ms Clara Wong Xiu Qing, Principal Physiotherapist
- Ms Justina Wong, Nurse Clinician
- Ms Adeline Tang Lai San, Nurse Manager
- Ms Tok Xue Hui, Senior Occupational Therapist
- Ms Joelle Yong Xinni, Coordinator

Organisation(s) Involved

Tan Tock Seng Hospital

Healthcare Family Group(s) Involved in this Project

Allied Health, Nursing

Applicable Specialty or Discipline

Physiotherapy, Orthopaedic, Occupational Therapy

Project Period

Start date: Mar 2019

Completed date: On-going

Aims

- To review practices in TTSH and redesign the model of care to bring about systemic change in managing patients undergoing uni-compartmental knee arthroplasty (UKA).
- To safely reduce the average length of stay (ALOS) post-UKA, improve bed availability, reduce costs, and improved patient outcomes

Background

See poster appended/ below

Methods

See poster appended/ below

Results

See poster appended/ below

Lessons Learnt

Patient receptiveness is crucial in determining the success of the project. Previously, KA patients and their family members remained sceptical on whether early discharge after surgery was possible. We listened to patients to better understand their perspectives and concerns. With all involved healthcare professionals reinforcing the discharge end-point and the implementation of pre-operative 1-to-1 personalised care planning session, patients were more receptive to the idea of early discharge.

We learnt that early patient engagement and adequate reinforcements are important to increase self-efficacy and build trust in patients and their family members to adopt new changes.

Conclusion

See poster appended/ below

Additional Information

Since Jan-20, the UKA DSER model was integrated into routine clinical workflows and demonstrated a sustained outcome of reduction in ALOS, costs savings and positive patients' feedback. The model scaled to TKA patients in Jul-21 and has become routine clinical practice for eligible TKA patients.

Project Category

Care & Process Redesign

Quality Improvement, Clinical Practice Improvement, Workflow Redesign, Value Based Care, Discharge Planning

Keywords

Enhanced Recovery After Surgery Model, Day Surgery Enhanced Recovery Model

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