

The SKH Continuous Hip **Fracture Improvement Project**



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Background/Aim

Early surgery (within 48 hrs) in hip fracture patients confers lower mortality risk, fewer complications and shorter hospital stays.

Causes for delays include:





Sengkang General Hospital

SingHealth

- Patient conditions 1)
- Surgical/anaesthetic processes 2)
- Available hospital facilities 3)



July 2021

CHIP aims to improve key metrics like inpatient length of stay and time to surgery.

Methods

Analysis for causes of delays in surgery was performed and were found to cluster around specific patient groups.

A series of quality improvement initiatives was introduced by the orthopaedic surgical team, anaesthesiology and geriatric medicine in a coordinated fashion.

CARE TEAM

The initiatives were conducted over **3 PDSA cycles** from 2021 to 2023.

Incorporating earlier preoperative anaesthesia assessment into surgical pathway enabled longer lead times to conduct medical **PDSA Cycle 1** optimisation and specialist review/risk stratifications before surgery.

Regular broadcast of a curated patient list, statistics & commentary designed to confer situational awareness and sense of urgency in PDSA Cycle 2 teams. **March 2023**

Physical cohorting of hip fracture patients to standardise, streamline and co-locate care processes and personnel, including timely post-PDSA Cycle 3 operative patient right siting. July 2023



Results

Patients undergoing hip fracture surgeries within 48 hours **improved by 90.4%**, from pre-implementation of median of 35.4% to 67.4% post-implementation.

Significant improvement (31%) in the proportion of patients with hospital length of stay of less than 10 days was also reported, from pre-implementation of median 50% to post-implementation of 65.5%.





perioperative care outcomes and early discharge, and reduces overall healthcare costs.