Use of Predictor Tool To Fast track and Reduce

post TKR Length of Stay in Acute Hospital

In Acute Hospital

Dr Jasper Tong, SingHealth

Tang Wen Han, SingHealth

Dr Darren Tay, Singapore General Hospital

Eleanor Chew, Singapore General Hospital

Grace Lim, Singapore General Hospital

Nur Raudhah Binte Azimat, Singapore General Hospital

May Kyawt Aung, Singapore General Hospital

Christopher Teo, Bright Vision Hospital

Prof Lee Kheng Hock, Bright Vision Hospital



INTRODUCTION

To reduce the length of stay in Singapore General Hospital for post surgical Total Knee Replacement (TKR) Patients requiring intensive therapy, using a predictive tool to identify them at pre-operation day. Patients are fast tracked from acute to community hospital for longer term rehabilitation needs. 272 out of 1900 TKR cases were discharged to the community hospital in 2015

PROBLEM

The average LOS of patients discharged to community hospitals is 8.6, which is longer than the average LOS for TKR patients at 5.4.

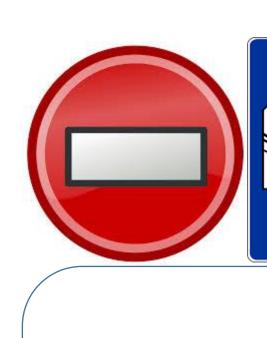
2 main reasons for the delay

(1) referral processing delay and (2) bed availability



required for referral submission

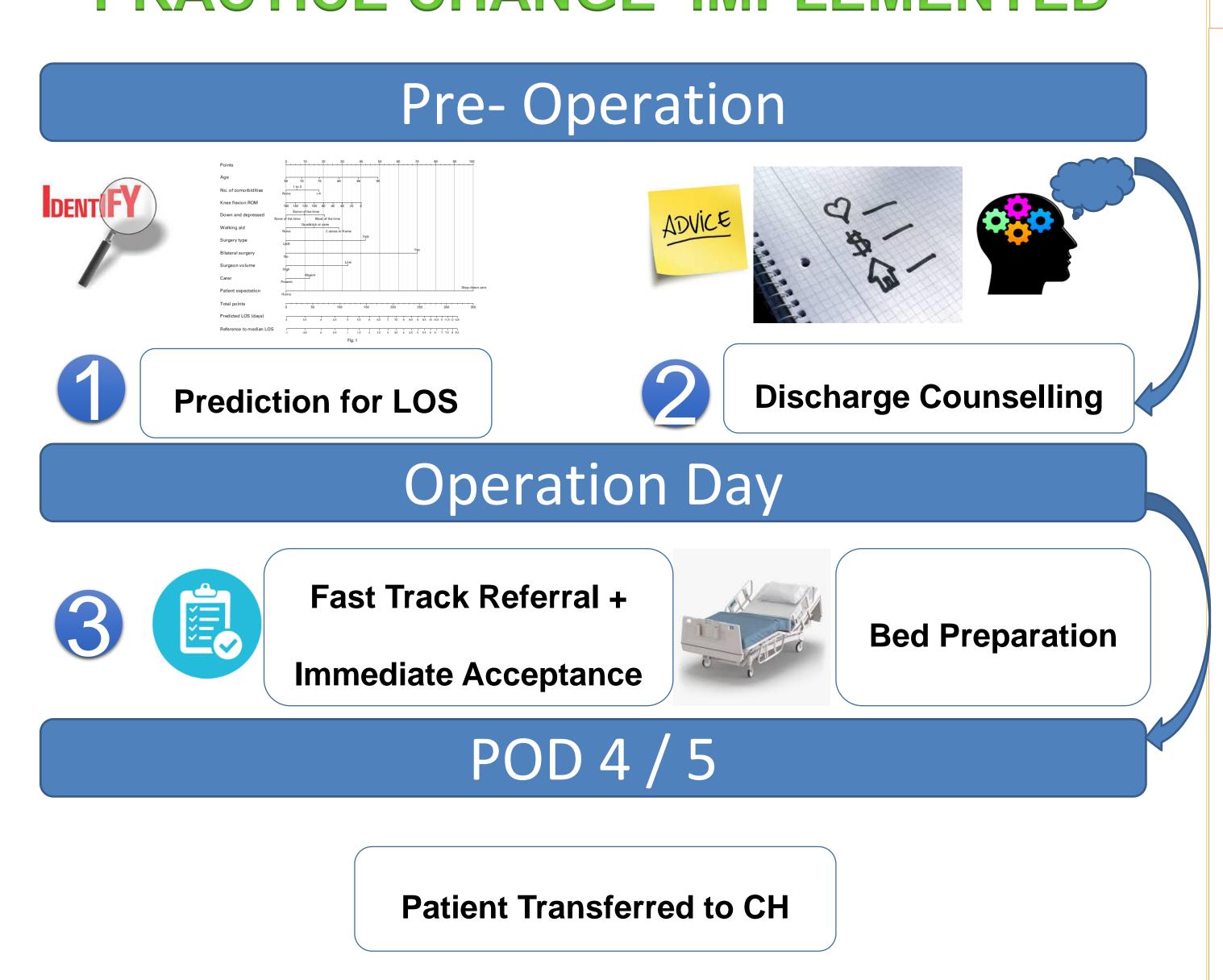
Completed only on POD 4





Subsequent delay in bed preparation and patient transfer

PRACTICE CHANGE IMPLEMENTED







Between

April 2016

Feb 2017

Fast Track LOS

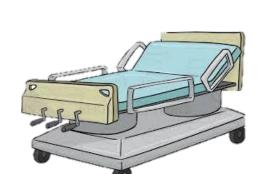
Prof Celia Tan, SingHealth

LENGTH OF STAY

Average LOS for CH placement

3.1
Days Saved

COST SAVINGS







Bed, Physiotherapy

72 patients, 223.2 bed days

\$662 per day

\$147,758 saved

CONCLUSION

Using the predictive tool to identify patients requiring longer rehabilitation has allowed us to successfully reduce the LOS in an acute hospital by fast tracking or arranging for early discharge to a community hospital.

Early identification of patients is a useful method to help stratify patient's needs, reduce cost for the patient and optimise hospital resources for appropriate care. We have successfully reduced the length of stay for those fast tracked.

The fast track has been implemented in 3 partner community hospitals (Bright Vision Hospital, Jurong Community Hospital and Yishun Community Hospital), and will be extended to more community hospitals.

SingHealth Duke-NUS Academic Medical Centre

Singapore National Polyclinics



















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