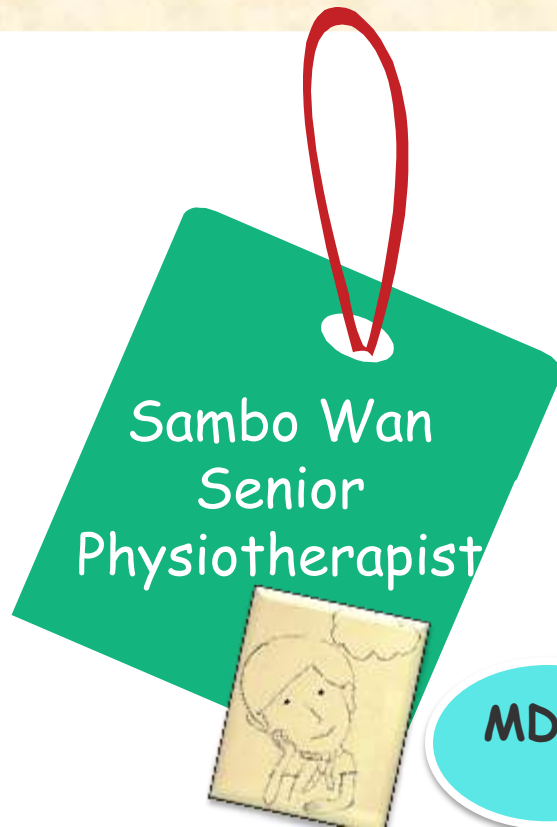
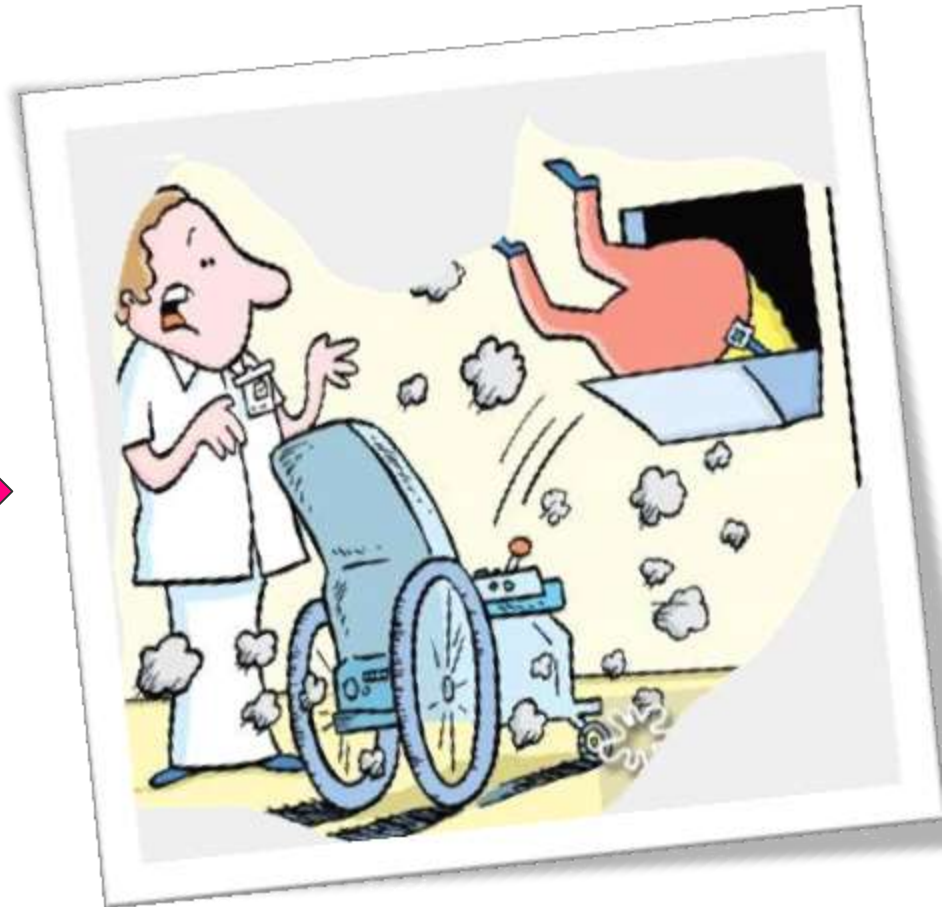
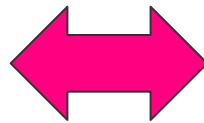


The Multidisciplinary Collaborative Rehabilitation Service Models in Pamela Youde Nethersole Eastern Hospital





Hospital stay



Safe Discharge



Aim.....

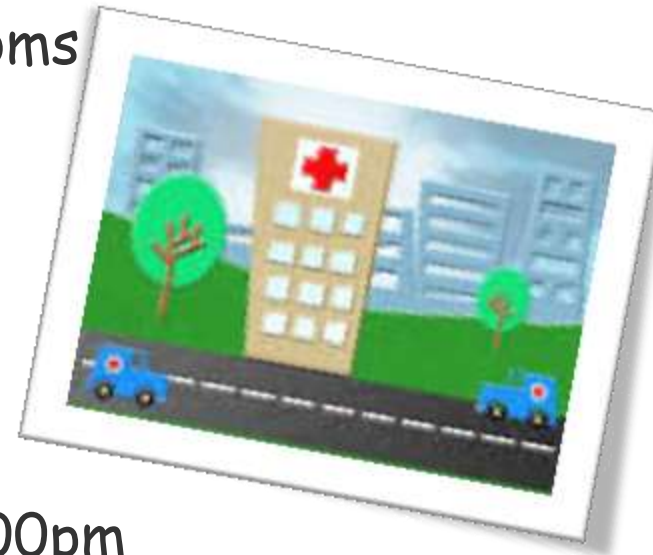
To shorten the length of stay (LOS) of patients in acute orthopaedic and medical wards

without sacrifice the rehabilitation outcome of patients



Multidisciplinary Day Ward(MDW)

- Venue: Physiotherapy Gym 8
- Ward setting: Doctors' consultation rooms
- Nursing station
- AH rehabilitation areas
- Patient education
- Support group activities
- Others: Transportation
- Lunch
- Operation hours : 5 days 8:45am to 5:00pm
(patients: till 2:30)
- Date of implementation : Oct 2009



Patient Journey



Patient Groups



Spine, Hand, Joint Replacement



CVA, Fall



One-stop Multidisciplinary

Ward round



Dietician



Carer training



P&O





Wound Mx



Edema control



Scar Mx



US scan
for DVT



Support Group Activities



Does MDW achieve the goals?

- Total Knee Replacement(TKR) patients journey before and after MDW implementation



Review Study Design-1

- Study Target: TKR cases with rehab in PYNEH physio. OPD with or without MDW
- Period: from June(2009) to Feb(2010)
- Study Groups: Non-MDW vs. MDW



Review Study Design-2

- Outcome indicator: Oxford knee score
(old version 60-12, Scale 1-5)
- Others: 1. length of stay in hospital (LOS)
2. total length of rehabilitation(LOR)
(counted from date of operation to discharge date from physio. OPD)



RESULTS

- Means:

	Non-MDW	MDW
Oxford Knee Score	20.9	20.3
Length of Hosp. stay (days)	15.62(vs HA 15.63)	12.01(vs HA 13.89)
Total Rehab period (days)	148.2 (~4.5 months)	84.1 (~2.5 months)



TKR-Rehab. Pathway

TKR cases
In-patient
rehabilitation
(Early discharge
LOS from
15.6 to 12.1 ds)

MDW immediate
and intensive
day rehabilitation
for
2 weeks (average
4 - 6 attendances)

OPD Physio
For continuity of
rehabilitation
4 - 7 weeks
rehabilitations
(4 - 7 attendances)

Total Rehabilitation Period
↓ from 4.5 to 2.5 months

No of attendances
In OPD physio.
↓ From 11.2 to 5.2



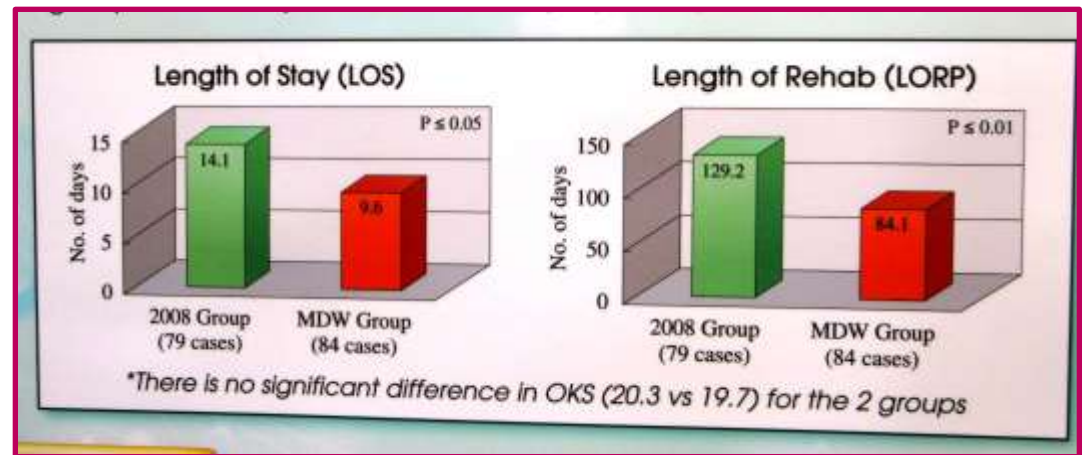
HKEC outstanding team 2010



International Society for Quality in Health Care (ISQua) Conference in Hong Kong 2011



ISQua 2011 HK



Outcome Measure: LOS ↓
LORP ↓



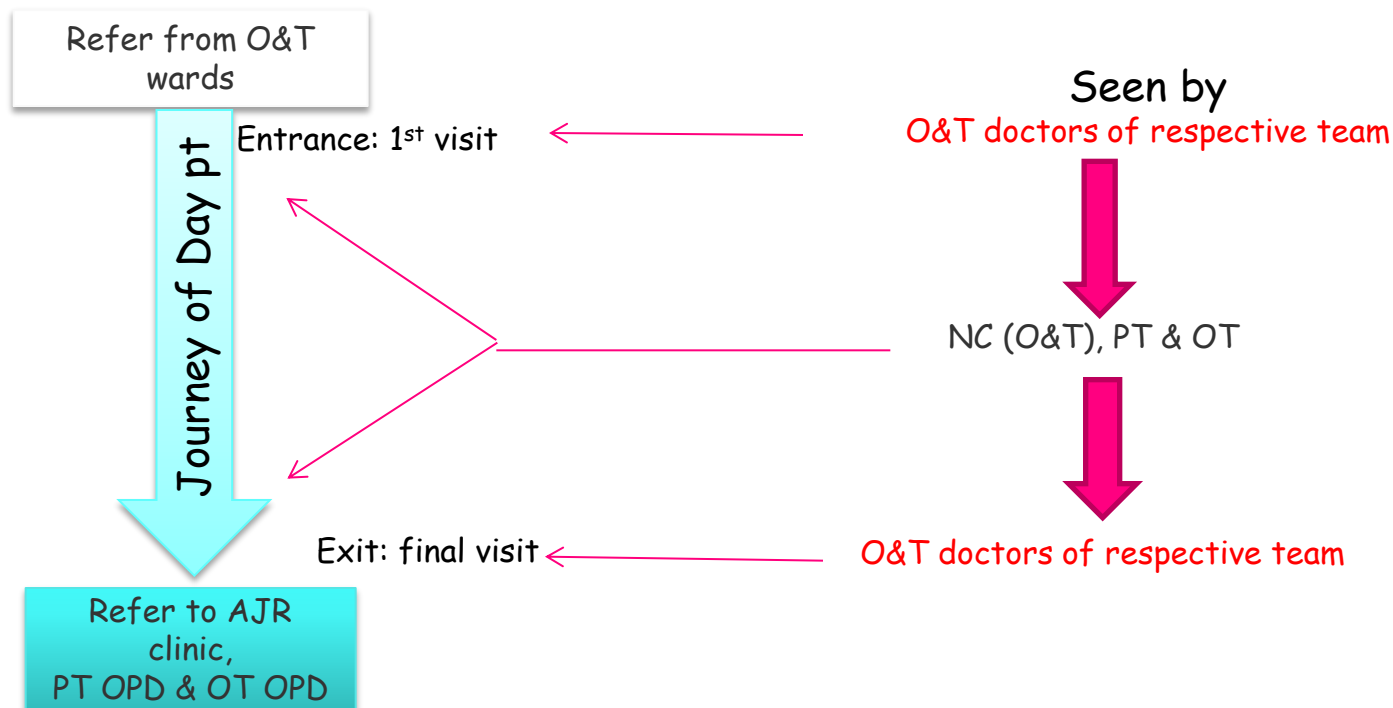
Some highlights

- **Early** acute one-stop multidisciplinary rehab
 - MDW within 3 days post discharge
(previously around ~ 2/52 for 1 st OPD physio.)
 - earlier gain in net AROM
- Early Multidisciplinary consultation : MSW, P & O, Diet.....
- Early detection of complications: wound infection, DVT
- Follow-up by the **same** team therapists in OPD
Continuity of management/ better use of resources



New initiative in 2014

- **Advanced** Collaborative Care Model for Total Knee Replacement (TKR) in Multi-disciplinary Day Ward (MDW)



Discharge criteria

Nursing

- ✓ Afebrile
- ✓ Wound without S/S of infection
- ✓ Wound without gapping after clips off
- ✓ No increase of knee swelling
- ✓ No increase of pain

Physiotherapy

- ✓ ROM not less than 10-80°
- ✓ Quadriceps strength not less than Gr3+
- ✓ Wean off frame, walk with stick / quadripod

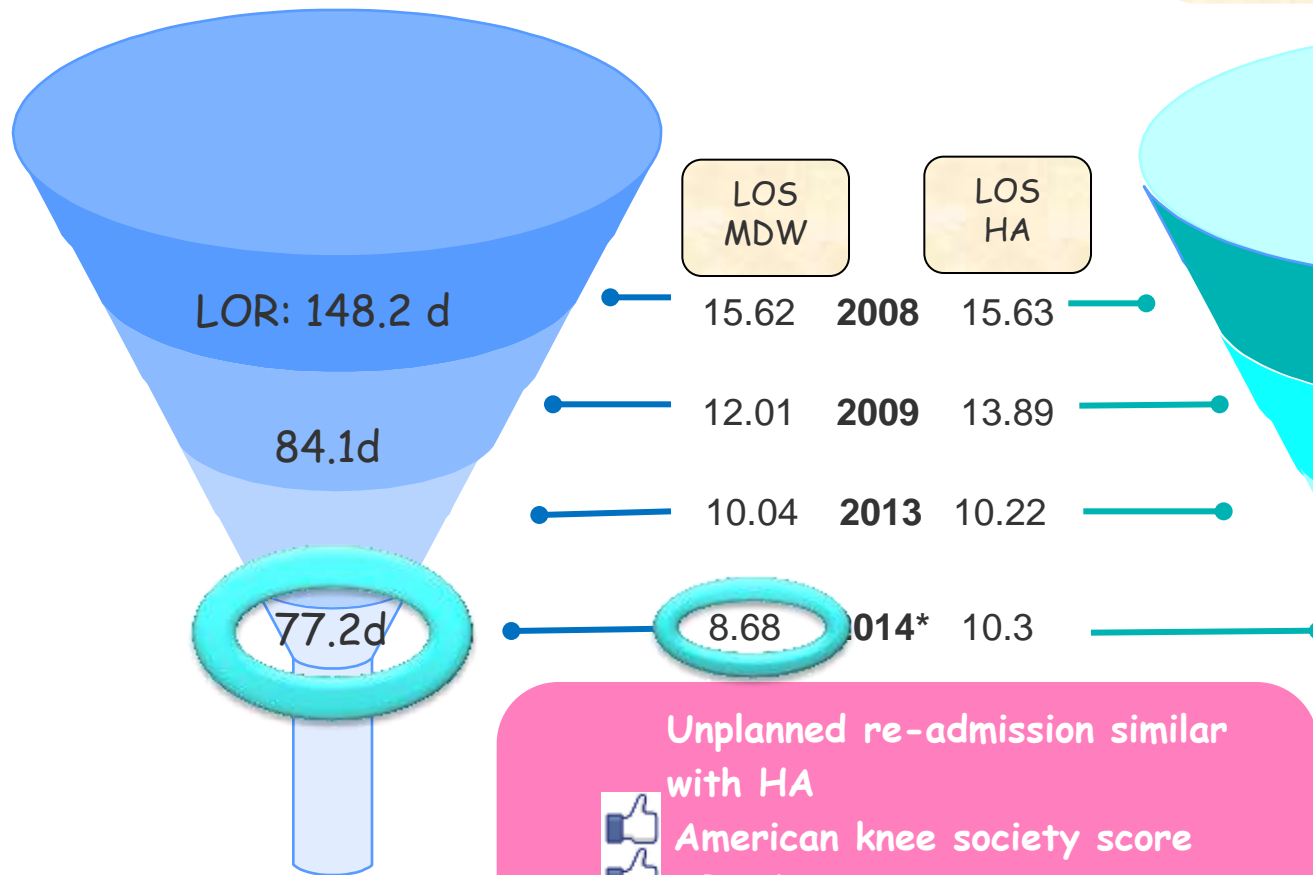
Occupational therapy

- ✓ Independent in transfer
- ✓ Independent in toileting
- ✓ Sufficient assistive device are available for ADL performance
- ✓ Home environment is safe



PYNEH

HA



Unplanned re-admission similar with HA



American knee society score

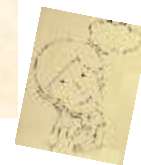
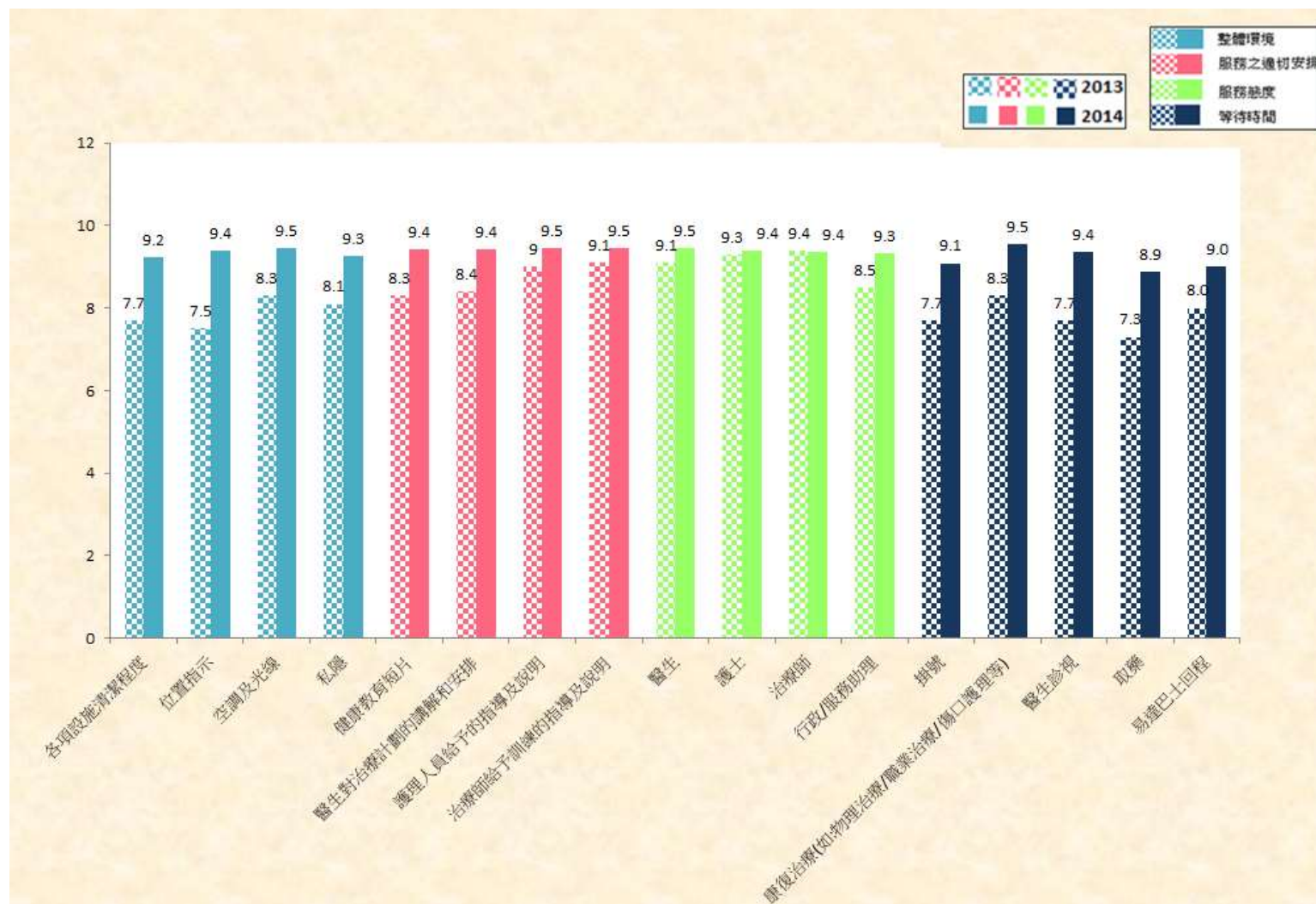
AROM

BI

Patient satisfaction survey



Collaborative Care Model for TKR Patient Satisfaction Survey 2013 & 2014





- If we can decrease LOS and LOR, can we decrease the admission rate???



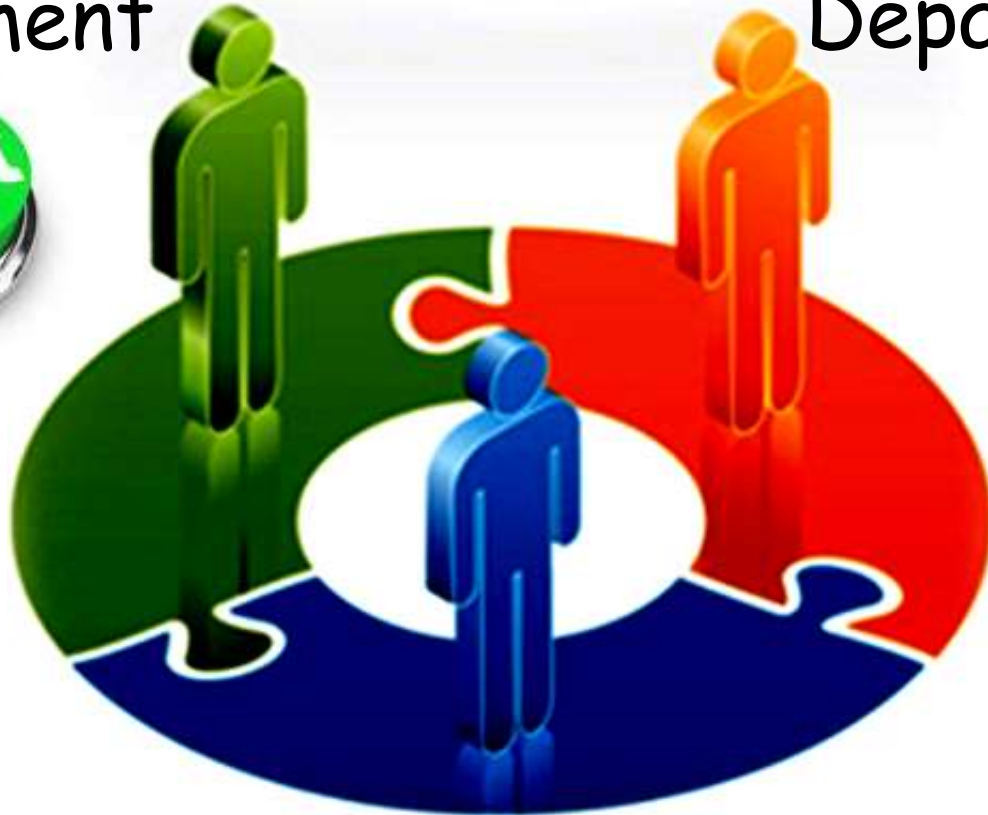
Emergency Orthopaedic Day Service (EODS)



Collaborated Parties

O & T
Department

A & E
Department



Allied Health
Service

New Model of Care

One-
Stop
Service

Multi-
Disciplinary
Approach

Integrated
Care

Early and
Safe
Discharge



- Prevent admission

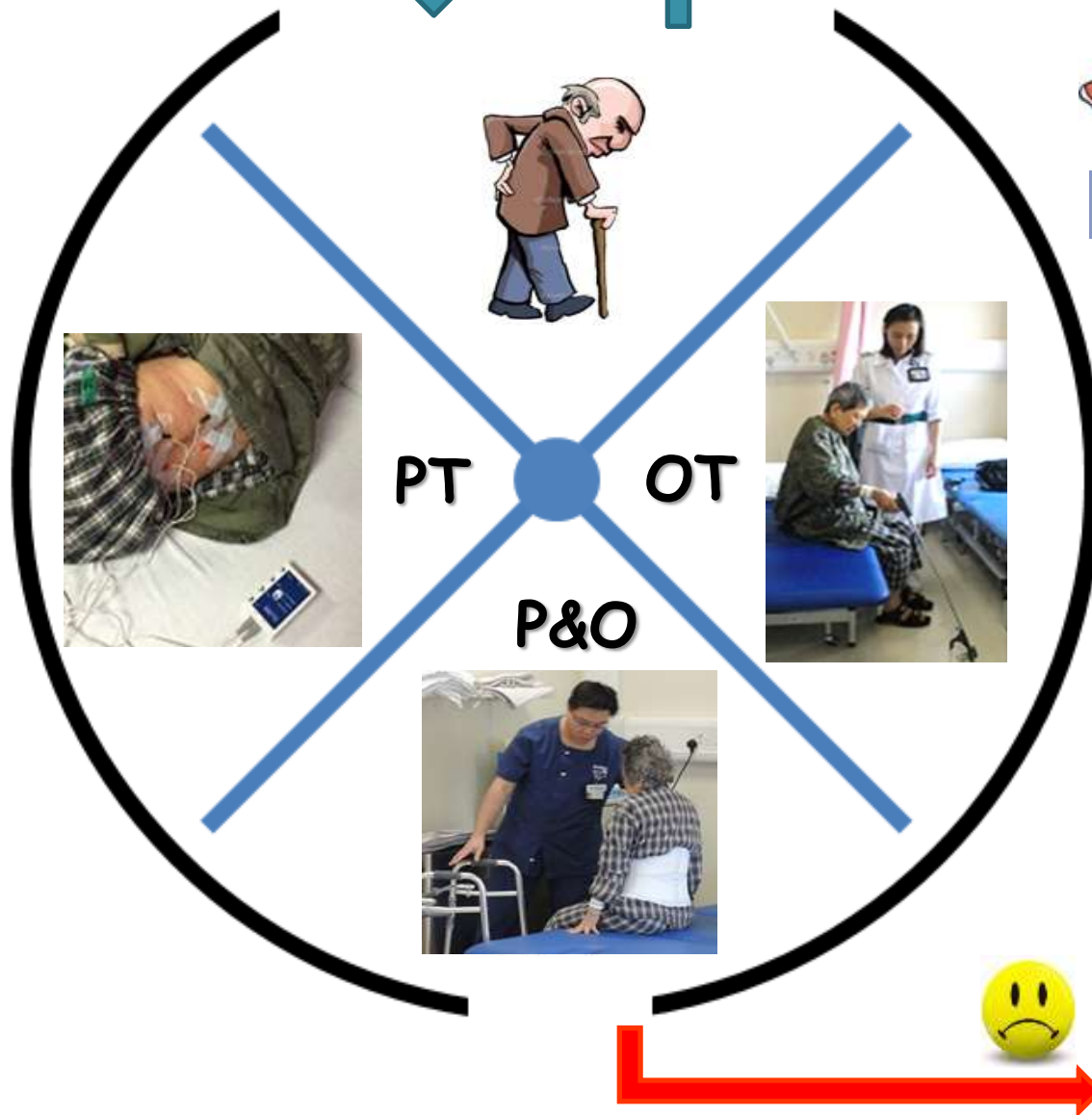




Quick In

Quick Out

Accident & Emergency



Same Day Discharge

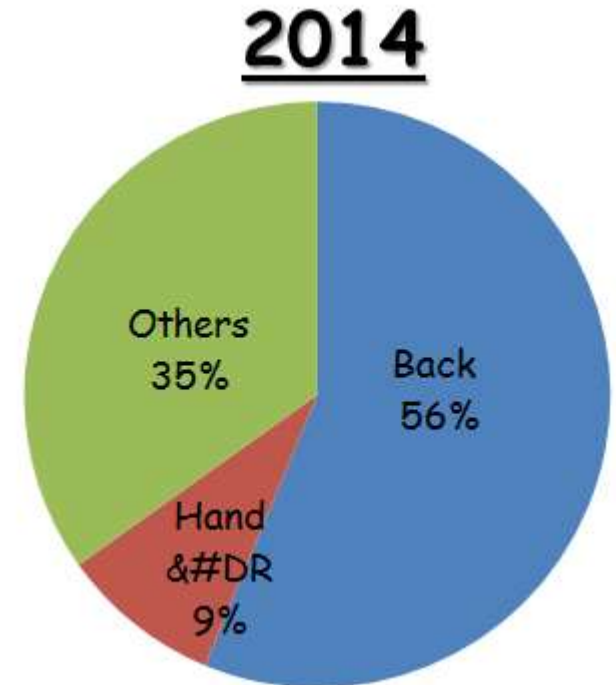


In-patient ward

Target groups for EODS

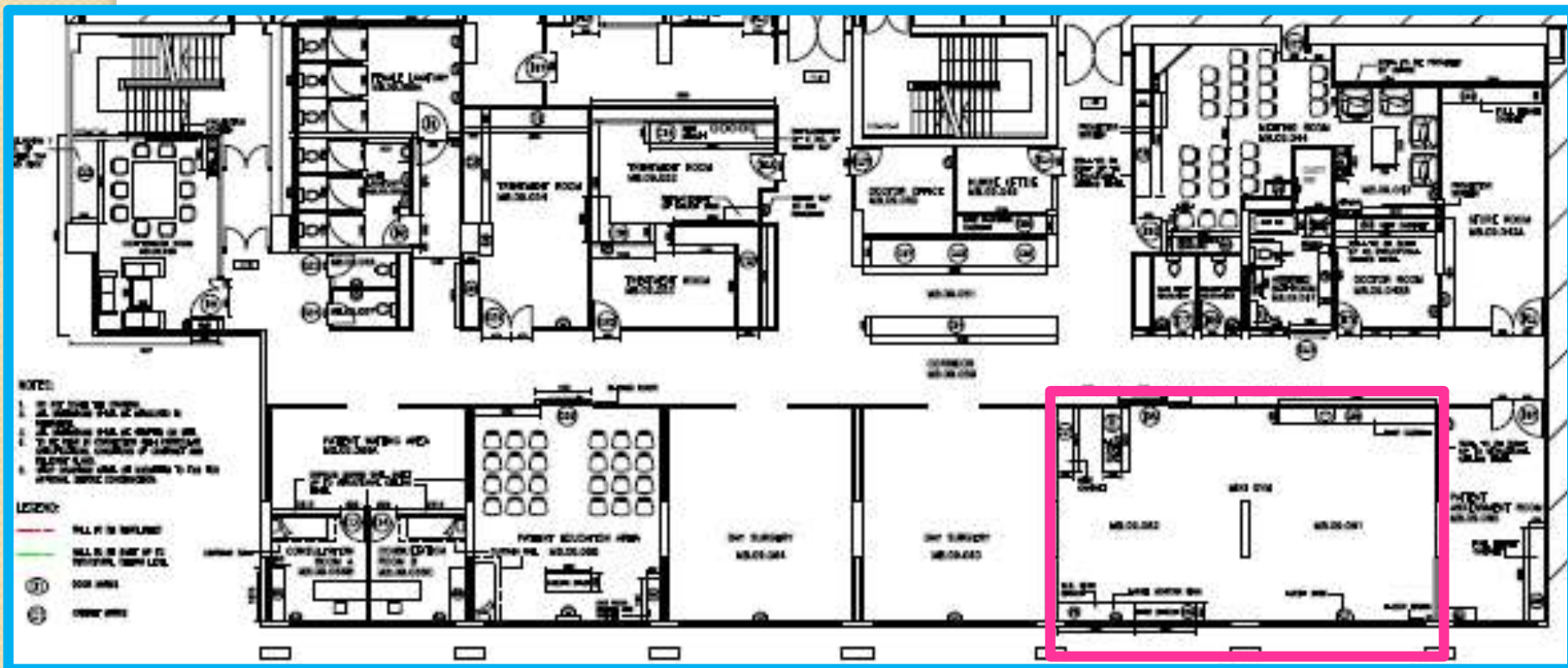


- Criteria:
 - Predictable progress
 - High level of self-care and cognitive functions
- Case types (n=766):
 - Back
 - Hand & #DR
 - Others
 - LL injury
 - shoulder/elbow injury



Emergency Orthopaedic Day Service

- Integrated Rehabilitation Centre
 - Mini gym



Challenge - Boundary



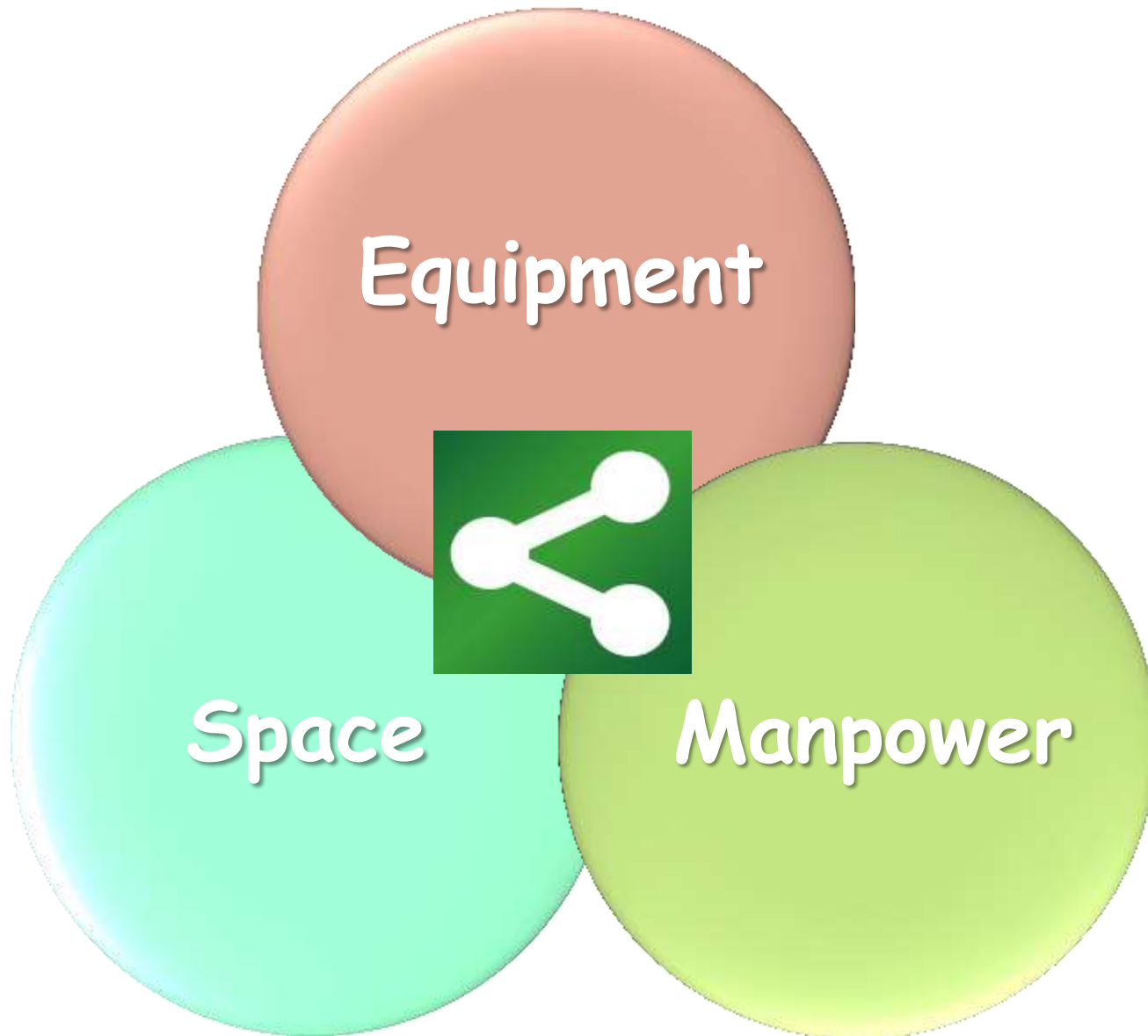
"Is **THIS** the line you're telling me not to cross?"

Seamless AH service



T Together
E Everyone
A Achieves
M More

Share of resources



Space



Equipment



Manpower



STAFF

Name: Chan Tai Man

Position: **ARTISAN**

OTA



Trans-disciplinary skills

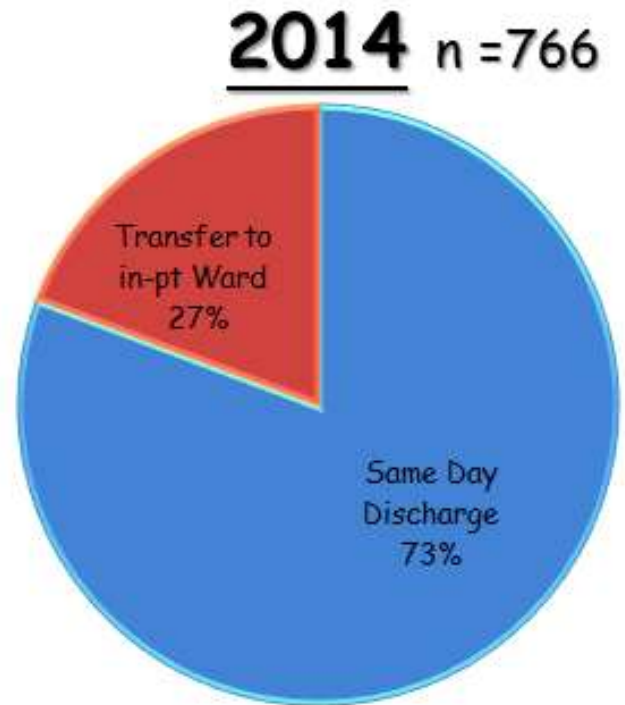


Cost-effectiveness

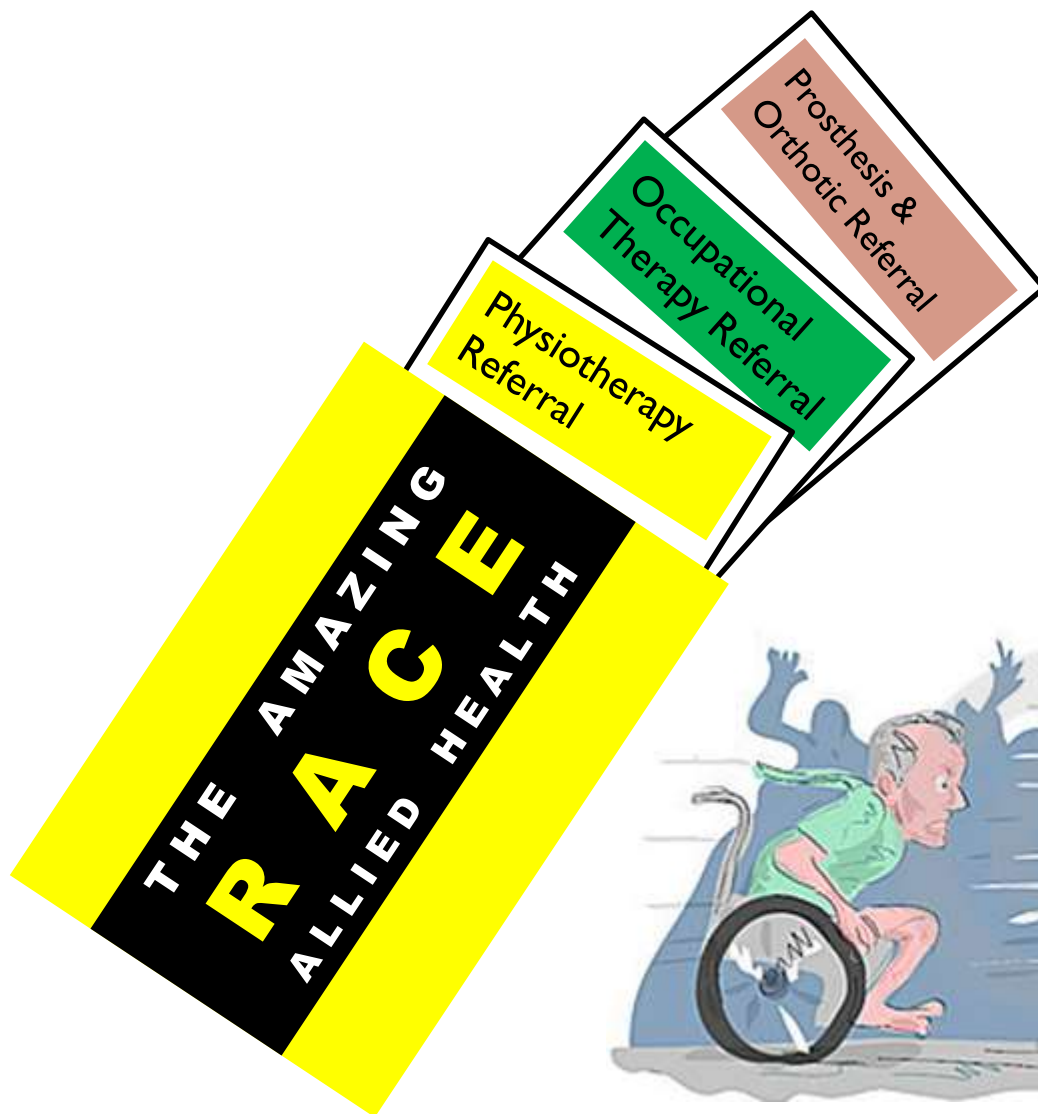
1. 73% of patients can achieve **Same/One Day Discharge** from EODS



Prevent In-pt admission



No Hurry



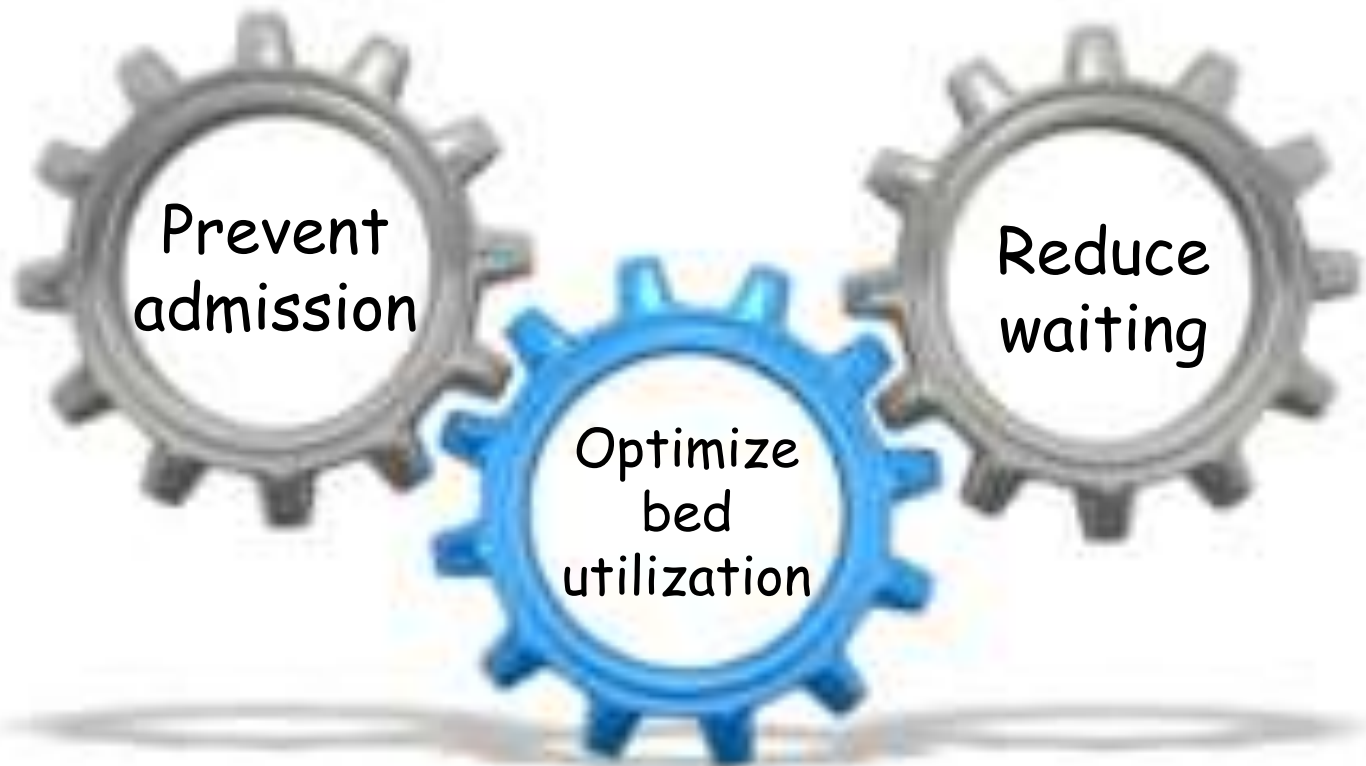
Wait within a day



- ✓ Doctor
- ✓ Nurse
- ✓ Physiotherapy
- ✓ Occupational therapy
- ✓ Prosthesis & Orthotic



Ultimate goal





Thank you