

# Safe Journey

at

## The Queen Elizabeth Hospital

**STAMINALIFT**

Manual handling solutions  
for your environment

# TQEH

➤ **340 bed Public Hospital**

➤ **Services:**

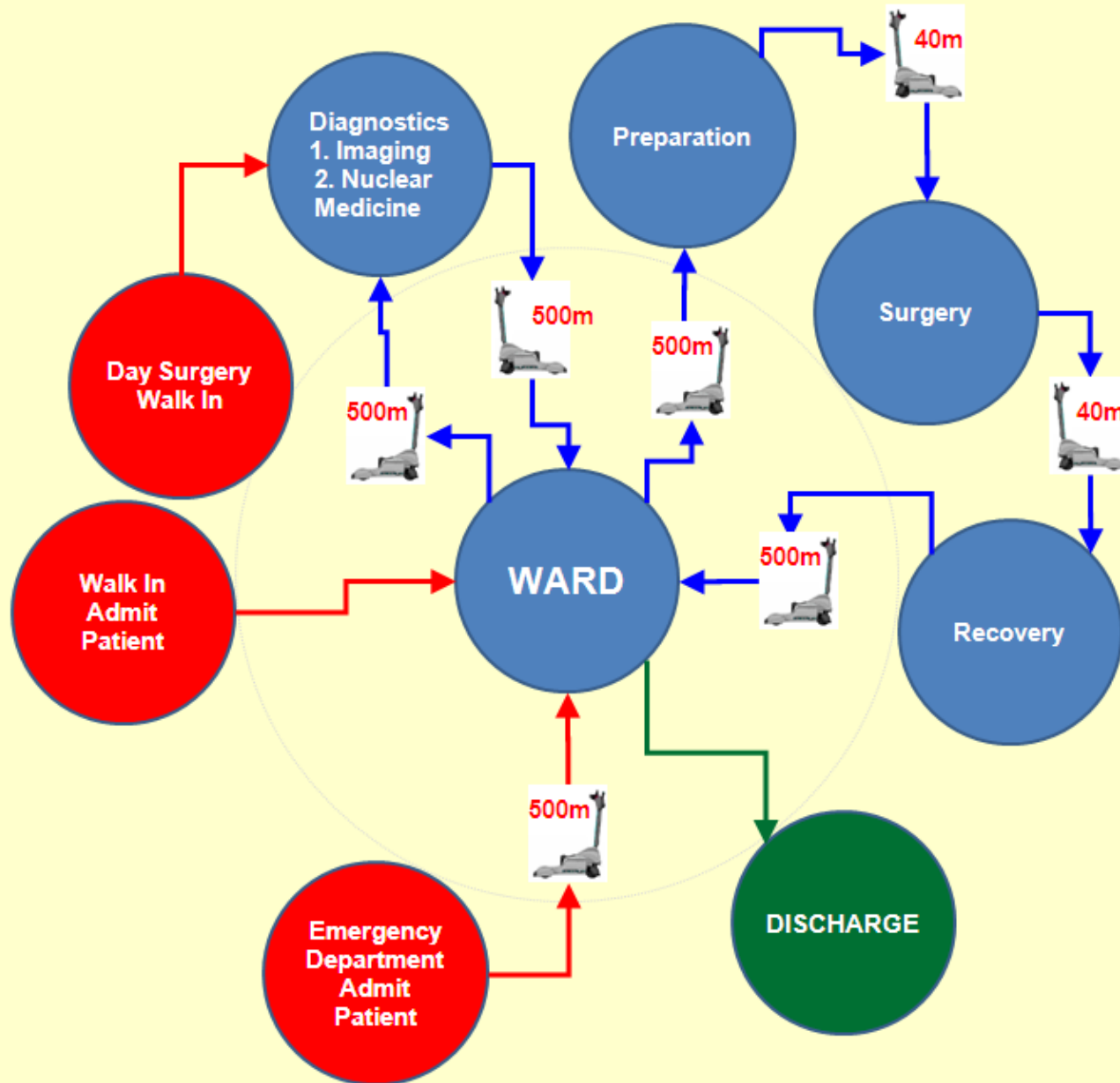
➤ **Surgery**

➤ **Medicine**

➤ **Critical care**

➤ **Emergency**

# Patient Flow



# Factors involved in moving a patient

## Average Weight to be moved

- Patient = 50 to 300kg plus
- Bed = 140 to 280kg

**Total Weight**

**190 to 580kg plus**

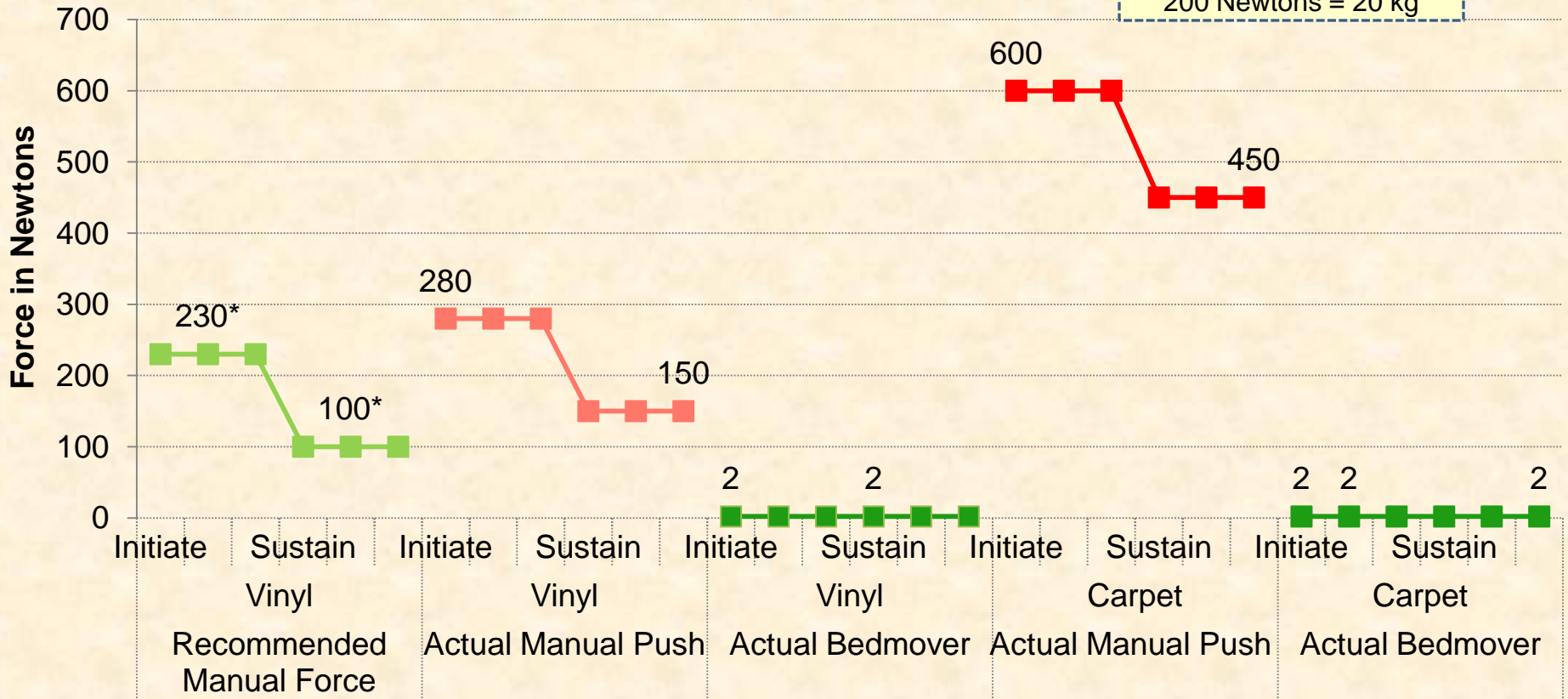
## Multiplying factors for Injury Causation

- ✓ Manual Push
- ✓ Turning corners
- ✓ Occasional sudden stops
- ✓ Frequency
- ✓ Distance
- ✓ Easier on Vinyl, difficult on Carpet
- ✓ Ramps / Slopes

**People come with finite energy to do the job**

# Forces required to Initiate and Sustain Bed Movement

\*Source: Liberty Mutual  
 200 Newtons = 20 kg



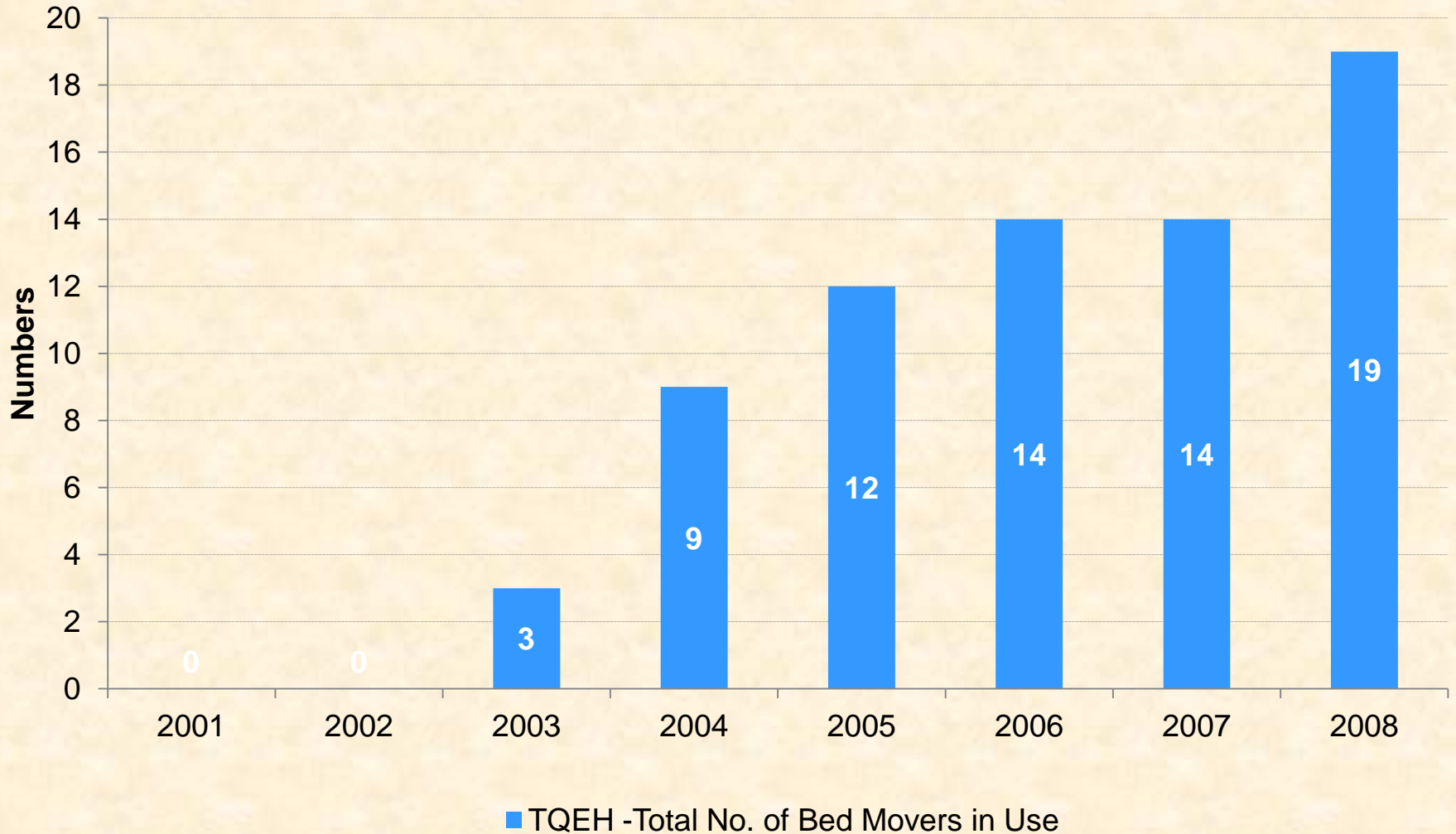
- Recommended Manual Forces
- Actual Manual Push Forces - Vinyl
- Actual Manual Push Forces - Carpet
- Actual Bedmover Forces

# Force

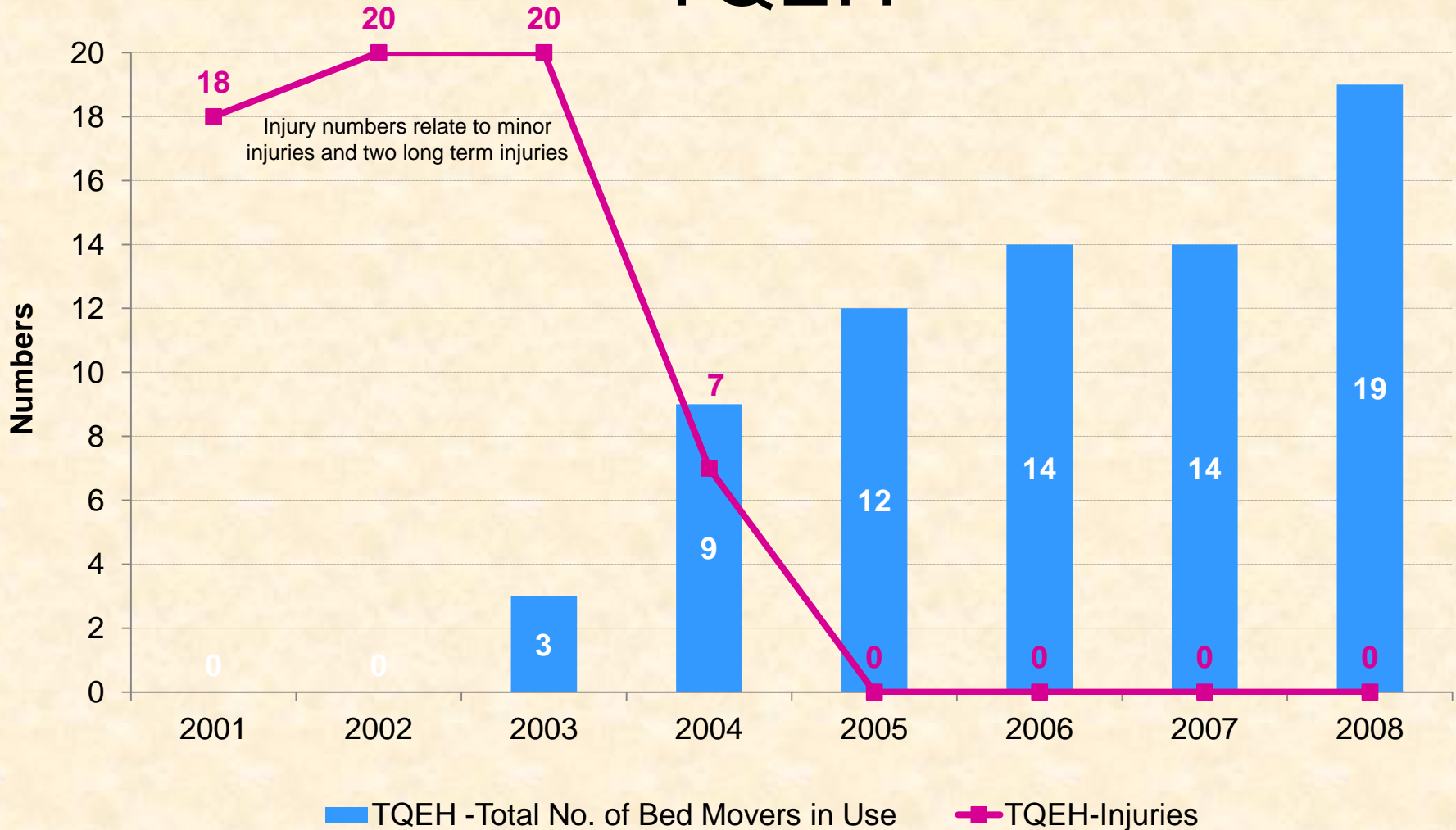
## Sustained



# Total Number of Bed Movers in use in TQEH



# Comparison of Injury figures and Total Number of Bed Movers in use in TQEH





# Comparison of Transport methods

## Manual Transport

### Human push

- Pull / turn / start / stop
- High Physical Forces required

## Battery Powered Transport

### StaminaLift driven

- ✓ One person operation
- ✓ Forward + Reverse + Turning movement
- ✓ Operates on all surfaces
- ✓ Variable speed
- ✓ Smooth ride

# Comparison of Transport methods

## Manual Transport

### Human push

- Orderlies get tired
- Regular Injuries
- WorkCover claims
- Transport delays due to Fatigue
- High Injury Cost

## Battery Powered Transport

### StaminaLift driven

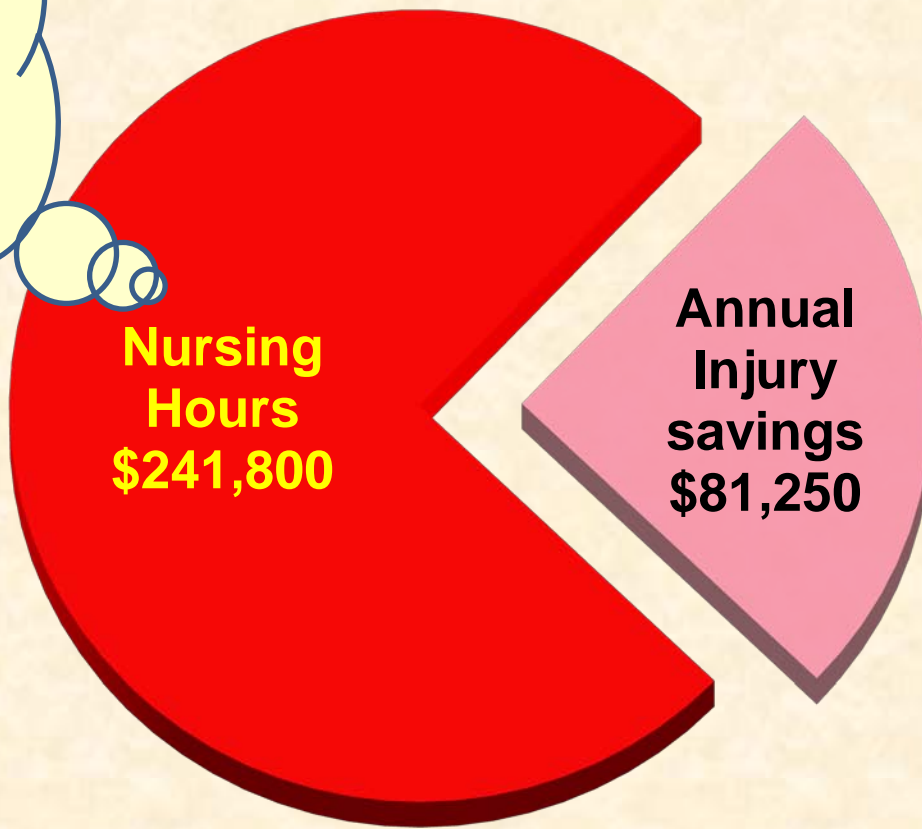
- ✓ Consistent output through the shift
- ✓ Safe and easy work
- ✓ No WorkCover claims
- ✓ High Efficiency
- ✓ Quick and reliable transport
- ✓ One off - Low Equipment cost

# Benefits of using Bed Movers at TQEH

**7800 Nursing hours saved annually and, returned to Patient care**

**Nursing Hours  
\$241,800**

**Annual Injury savings  
\$81,250**



# Point to Note

- These results can only be assured by using **StaminaLift Bedmover**

- **Why?**

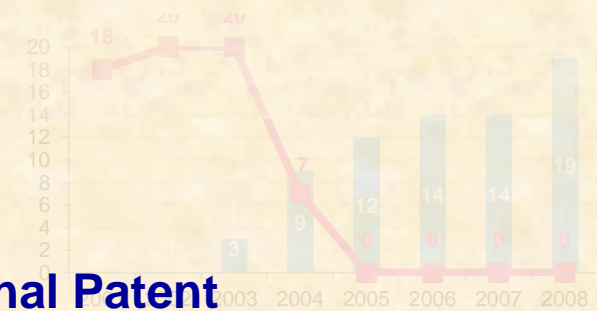


- It is “Custom Designed” to Eliminate Injuries
- Through Intensive Research and Field Trials

- ✓ Net Present Value = \$1,646,882
- ✓ Internal Rate of Return = 10.5%
- ✓ Payback = in Year 1
- ✓ Annual savings = \$100,000
- ✓ Nursing hours = \$241,800
- ✓ Injury cost = \$100,000

- Its performance and benefits are **NOW proven**

- Its design is protected by **National and International Patent**



Proposed on any surface

Manual Transports	
<u>Human push</u>	
• Pull / turn / start / stop	
• High Physical forces required	

StaminaLift driven	
✓ One person operation	
✓ Forward + Reverse + Turning movement	

