Project Title
Reduced Length of Stay for Lower Limbs Arthroplasties Patients with Enhanced In-Patient Physiotherapy Program

Chan SM(1), Lee S(1), Phang YW(1), Chung KY(2), Ho KW(2), Chiu KH(2)

(1) Physiotherapy Department; (2) Orthopaedic & Traumatology Department
Prince of Wales Hospital, NTEC

Early safe discharge with shorten length of stay

Enhanced In-patient Physiotherapy Program
Project Title
Reduced Length of Stay for Lower Limbs Arthroplasties
Patients with Enhanced In-Patient Physiotherapy Program

Objective
To study the LOS of patients underwent lower limb arthroplasties before and after enhanced in-patient PT services

Methodology
• To study the LOS of patients underwent lower limb arthroplasties before and after enhanced in-patient PT services.
  • Lower limb arthroplasties – elective primary and revision knee and hips replacement.
  • Under care of Department of Orthopaedic and Traumatology, PWH
• LOS 1 year before and and 1 year after commencement of enhanced PT services was compared and evaluated
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- More intensive training
- Coordinated pre-charge plan
- Early identification of potential discharge problems
- Management & Discharge Plan
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### Result & Outcome

<table>
<thead>
<tr>
<th></th>
<th>Before enhancement Oct 16 – Sep 17</th>
<th>After enhancement Oct 17 – Sep 18</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of arthroplasties</td>
<td>143</td>
<td>152</td>
</tr>
<tr>
<td>Total knee replacement</td>
<td>109 (76%)</td>
<td>120 (79%)</td>
</tr>
<tr>
<td>LOS range (days)</td>
<td>4–42</td>
<td>3–34</td>
</tr>
<tr>
<td>LOS mean overall (days)</td>
<td>8.37</td>
<td>6.99</td>
</tr>
<tr>
<td>LOS mean <strong>TKR</strong> (days)</td>
<td>8.06</td>
<td>5.59</td>
</tr>
</tbody>
</table>

Reduced by 16.5%

Reduced by 30.6%
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Implication / Conclusion
• Total bed saved – 204 days after enhanced PT program
• ~ $1M current cost of hospital bed
• NO significant difference in complication rate & unplanned readmission before and after the program period