Multi-modal Strategy for Improving Hand Hygiene Compliance In ICU

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INTRODUCTION

Hand hygiene has been considered the single most important measure to prevent nosocomial infections

Rotter ML 1997...
Before 2009 1Q......
Poor compliance in our ICU →

**Overall Hand Hygiene Compliance Rate in QEH ICU**
*(2009 1Q to 2010 1Q)*

Deserve a serious improvement strategy
What is the Strategy

OBJECTIVES

To improve HHC by using Multi-Modal Campaign

To develop strategy that can keep a sustained HHC
From the 2nd half of 2010…

We adopted a Multi-Modal Campaign
Improve our hand hygiene compliance (HHC)

- Access washing facilities
- Role modeling by senior staff
- Training the valid observers
- Structural & Standardized protocol
- Real-Time Correction & Feedback
METHODOLOGY

Access Washing Facilities

Made hand hygiene possible & convenient

Put alcohol hand rubs at bedside & room entrances
METHODOLOGY

Role Model by Senior Staff

Motivate all ICU staff to comply with HH measures
METHODOLOGY

41 Nos. of Train-the-Trainer for Valid Observers

Direct observation & feedback on staff’s HHC

Monitor the HHC with the method as proposed by WHO

Use 5 MOMENT for HH Indicators

Observe several HCWs for 15mins sessions

Provide real-time correction & feedback on proper HH
Sustain the Compliance with Hand Hygiene

Internal HHC monitoring
Bimonthly

External HHC monitoring by ICT
Quarter of year

Monitoring Reports Post up in ICU Staff Notice Board
Result & Outcome

Internal Monitoring

Average HH Compliance Rate & Overall Trend of Compliance
B6 & D6 ICU QEH
4Q 2010 - 4Q 2012

<table>
<thead>
<tr>
<th>4Q 2010</th>
<th>1Q 2011</th>
<th>2Q-3Q 2011</th>
<th>3Q-4Q 2011</th>
<th>1Q 2012</th>
<th>2Q-3Q 2012</th>
<th>3Q-4Q 2012</th>
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<tbody>
<tr>
<td>Nov-Dec</td>
<td>Jan-Mar</td>
<td>May-Jul</td>
<td>Sep-Nov</td>
<td>Jan-Mar</td>
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<td>67.0%</td>
<td>54.9%</td>
<td>64.2%</td>
<td>68.9%</td>
<td>62.2%</td>
<td>71.0%</td>
<td>68.2%</td>
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Overall Trend of Compliance
Average Compliance Rate
-0.5%  9.3%  4.7%  -6.7%  8.8%  -2.8%
Result & Outcome

Average Internal and External Monitoring on HH Compliance 2010 - 2012

- Internal Monitoring:
  - 2010: 51.7%
  - 2011: 62.7%
  - 2012: 67.1%

- External Monitoring:
  - 2010: 67.0%
  - 2011: 70.0%
  - 2012: 76.6%
Result & Outcome

Multi-Modal Hand Hygiene Improvement Strategy

- Effectively Improved HH Compliance
- Produced a Sustained HH Improvement
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Colleagues of ICT QEH
Colleagues of ICU QEH