Improving Hand Hygiene in Health-Care Settings Around the World
Dr. Cyrus Engineer, World Health Organization
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WHO First Global Patient Safety Challenge
Improving Hand Hygiene in Health-Care Settings Around the World – A Global Challenge With a Global Solution

Dr. Cyrus Engineer
World Health Organization

Presentation Overview
- The challenge
  Health care-associated infections – a ongoing global issue
- The evidence & the solution
  WHO Guidelines on Hand Hygiene in Health Care, Multimodal Hand Hygiene Improvement Strategy
- The action
  The important work of countries and health-care settings around the globe
- WHO SAVE LIVES: Clean Your Hands global annual initiative
  Keeping hand hygiene on the agenda

WHO First Global Patient Safety Challenge
Health care-associated infections affect hundreds of millions of patients worldwide every year
- In developed countries, it impacts on 5-15% of hospitalized patients
- The burden in developing countries is likely to be several times higher

Prevalence of HAI in developed countries

Known prevalence of HAI in low and middle income countries

Estimates of the global burden of health care-associated infection are hampered by limited availability of reliable data

The First Challenge are working on presentation of the burden of health care-associated infection: understanding the magnitude of the problem

Prevalence of HAI in developed countries

Known prevalence of HAI in low and middle income countries

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Through the promotion of hand hygiene and infection control best practice, the First Global Patient Safety Challenge aims to support the reduction of healthcare-associated infection worldwide.

Evidence from the WHO Guidelines on Hand Hygiene in Health Care (2009), 5 core components, to improve hand hygiene in healthcare settings.

WHO Multimodal Hand Hygiene Improvement Strategy and Implementation Toolkit

- System change
- Training and education
- Evaluation and feedback
- Reminders in the workplace
- Institutional safety climate

Using the Multimodal Strategy and the Toolkit

- Highlighting five important tools
  - Alcohol-based Handrub Planning & Costing tool
  - System change tool
  - Hand Hygiene-Why, How and When brochure
  - Training/education tool
  - Observation form
  - Evaluation and feedback tool
  - Your five moments for hand hygiene poster
  - Reminders in the workplace tool
  - Sustaining improvement-additional activities for consideration by healthcare facilities
  - Institutional safety climate tool

- WHO Guide to Implementation
- Self Assessment Framework

“My 5 Moments for Hand Hygiene”

Hand hygiene compliance improvement in pilot sites

The Action…….
It’s not a problem it’s a puzzle

- A problem is something that might have many different routes to take before being solved
- A puzzle is something that already has an answer that needs to be applied appropriately

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A 2009 survey examining promotion of hand hygiene in health care through campaigns and programmes coordinated at a national/sub-national level

- **Aim:**
  
  To gather information on the current status of campaigns/programmes worldwide
  
  To generate information on factors contributing to success and barriers to success

(Previous survey conducted in 2007)

**Summary of survey**

- 38 campaigns/programmes identified – 29 currently active
  
  Most have clear objectives and measurable indicators
  
  Wider HAI prevention programmes more common than hand hygiene specific
  
  Differences in coverage and mechanisms for funding
  
  Barriers related to commitment (priority, support) and resources similar to all

**Year of initiating campaign/initiative**

- Barriers related to commitment (priority, support) and resources similar to all
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Characteristics of campaigns (n=29)

<table>
<thead>
<tr>
<th>Structure:</th>
<th>Value (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pledge acted as catalyst</td>
<td>19 (65.5%)</td>
</tr>
<tr>
<td>Govt initiated</td>
<td>25 (86.2%)</td>
</tr>
<tr>
<td>Run at national level</td>
<td>24 (82.8%)</td>
</tr>
<tr>
<td>Linked with official partners</td>
<td>18 (62.1%)</td>
</tr>
<tr>
<td>Part of wider HAI programme</td>
<td>25 (86.2%)</td>
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</table>

<table>
<thead>
<tr>
<th>Processes:</th>
<th>Value (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stated objectives measured</td>
<td>26 (89.7%)</td>
</tr>
<tr>
<td>HH part of quality assessment</td>
<td>17 (58.6%)</td>
</tr>
<tr>
<td>Used WHO Guidelines</td>
<td>27 (93.1%)</td>
</tr>
<tr>
<td>Used WHO Tools</td>
<td>23 (79.3%)</td>
</tr>
</tbody>
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The importance of networking and sharing

Starting a national or sub-national hand hygiene campaign

Outline action plan for getting started

If you are considering starting a national or sub-national campaign, the following list of actions might be useful in guiding you through the process. This list is based on current knowledge from existing campaigns and from published research on conducting an effective health care. You may need to adapt it to suit local conditions and resources.

1. Do you have a plan for the projected national/sub-national hand hygiene campaign? How will the objectives of the health care sector (priority, impact, benefits, costs) be met and monitored?
2. Have you considered the following national/sub-national health care goals?
3. If the goal of the campaign is not being coordinated through the ministry of health, is there a clear and approved scheme of hand hygiene objectives?
4. Are you currently applying or considering existing national/sub-national hand hygiene campaigns or initiatives?

Case Studies

An opportunity for health-care facilities across the world to share their initiatives and experiences

What was the situation at your facility with respect to hand hygiene and HAI before you initiated the hand hygiene initiatives?

‘Our trainings on prevention and control of infections associated with health care were fully informed by the WHO Guidelines on Hand Hygiene in Health Care. However, other aspects and staff resistance were always known as major barriers in promoting any hand hygiene programme.’

What were the goals of your initiative?

‘Our main goals were promoting theoretical and technical knowledge about the importance and practice of hand hygiene through demonstrations and guidelines among all network staff and patients. Increasing compliance with hand hygiene among health care workers and a general call to action highlighting the risks of noncompliance with hand hygiene were other aims.’

Targeted activities

2009

‘Over 80 health-care settings shared their activities for 5 May with WHO.

2010...

‘A hand hygiene detector will be used to show hand contamination and keep health care workers aware of vigilance in infection control and safer patient care. A quiz will be used to evaluate health care workers knowledge in regard to hand hygiene practices. An exhibition will demonstrate the last developments in hand hygiene products. Educational posters will be placed in most areas of the hospital and educational brochures will be distributed to health care workers, patients and visitors. Infection control nurses will be visiting the wards and departments to demonstrate the correct technique of hand hygiene to health care workers, patients and visitors. Finally, there will be distribution of evaluation cards to patients, staff and visitors on the hand hygiene practices for recommendations and feedback.’

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SAVE LIVES: Clean Your Hands
global annual initiative – 5 May

- ‘Calling for all health-care workers, facilities and organisations throughout the world to actively campaign for improved hand hygiene at the point of care to reduce health care-associated infections and to demonstrate their commitment to this priority global movement.’
- Demonstration of commitment is still essential
  - registrations from health-care facilities
  - sharing of planned activities
  - use of the tools and feedback to WHO
- Multimodal strategy implementation toolkit
- Hand Hygiene One Moment Observation Tool
- Hand Hygiene Self Assessment Framework

So what’s next?

- The ‘puzzle’ is still being solved
- The solutions exist – more so than ever before
  - Are you prepared to challenge and find new solutions to sustain hand hygiene in your settings?
  - Do you have new innovative solutions to share?
- There are still gaps in the evidence (WHO Guidelines)

Patient Safety

What does success look like for you?

- “I dreamt we won the Nobel Prize for hand-washing”

WHO First Global Patient Safety Challenge

www.who.int/gpsc/5may/en
- Register now & encourage others
- Share your activities
- Join the special WHO hand hygiene webinar series on 3rd, 5th and 7th May
- Find out if there is an existing hand hygiene campaign in your country and support it

Thank you for your ongoing support

savelives@who.int

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### The Next Few Teleclasses

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Speaker/Details</th>
</tr>
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</table>
| 15 Apr. 10 | HPV Infection and Newer Vaccines: An Update  
Speaker: Dr. Sotiris Tsiodras, University of Athens Medical School, Greece |                                                                                              |
| 20 Apr. 10 | (Free Teleclass) Voices of the IPS  
Speaker: Infection Prevention Society Board Members & Guests |                                                                                              |
| 21 Apr. 10 | (South Pacific Teleclass) MRSA – The Patient Experience  
Dr. Ruth Barratt, New Zealand |                                                                                              |
| 22 Apr. 10 | Influenza in the Hospital – Who Gets It From Whom  
Speaker: Dr. Allison McGear, Mount Sinai Hospital, Toronto |                                                                                              |
| 27 Apr. 10 | (British Teleclass) The Value of Effective Leadership  
Speaker: Dr. Rosemary Kennedy, UK |                                                                                              |
| 29 Apr. 10 | Simple Precautions – Simplifying Infection Control  
Speaker: Dr. Jim Hutchinson, Health Care Corporation of St. John's |                                                                                              |
| 6 May 10  | Disinfection and Sterilization: Special Emphasis on Pediatric Issues  
Speaker: Dr. William Rutala, University of North Carolina |                                                                                              |

![Schedule Link](www.webbertraining.com.schedulep1.php)