

**Hand Hygiene Education & Monitoring: Returning to the WHO “My Five Moments” Concept**  
**Dr. Hugo Sax, University of Geneva Hospitals, Switzerland**  
**Sponsored by WHO Patient Safety Challenge – Clean Care is Safer Care**



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### The hand hygiene mystery device

- Originally, ~70 different care situations listed as indications for hand hygiene
- Responded only to a specific care setting
- Danger of a '**mystery device**' between observers and the observed

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### Design specifications for a new hand hygiene concept

- Simple
- Intuitive
- Robust > application to a wide variety of situations
- Healthcare workers can easily become observers
- Useful for monitoring, teaching/training, reporting

Maeda J. The laws of simplicity. MIT Press, Cambridge MA. 2006

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### Design specifications for a new hand hygiene concept

- Microbiological effective
- Evidence based
- Economic: Just as much as needed
- Risk targeted

Maeda J. The laws of simplicity. MIT Press, Cambridge MA. 2006

6

### Transmission model

- What is the outcome to be prevented?

Pittet D, Allegranzi B, Sax H, et al. Evidence-based model for hand transmission during patient care and the role of improved practices. Lancet Infect Dis 2006;6:641-52.

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### Transmission model

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### Transmission model

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### Transmission model

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### Transmission model

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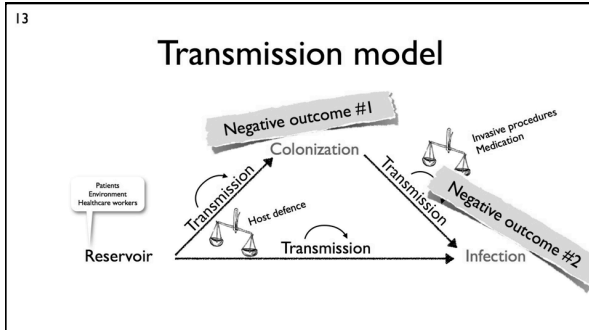
### Transmission model

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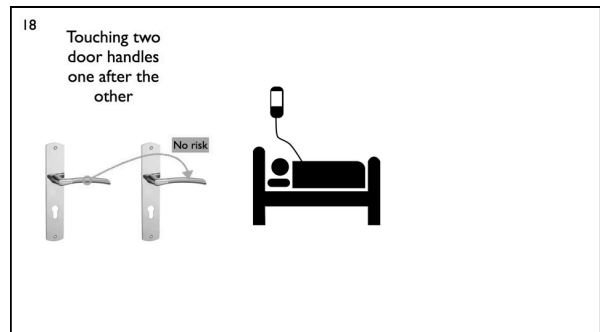
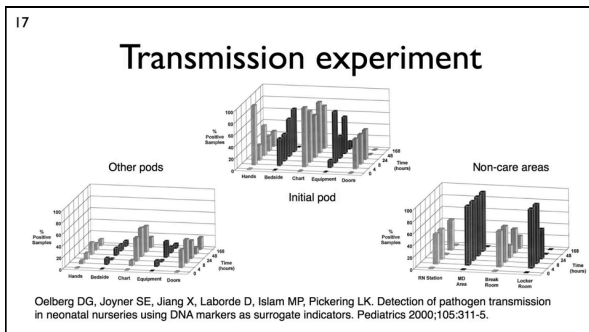
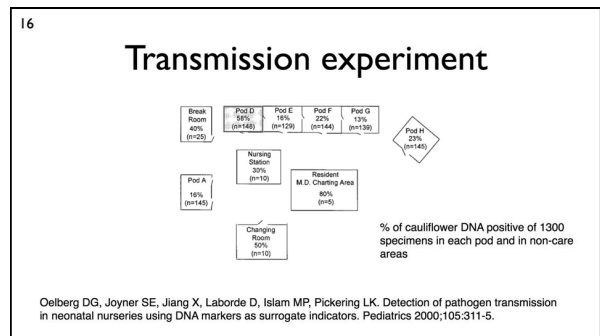
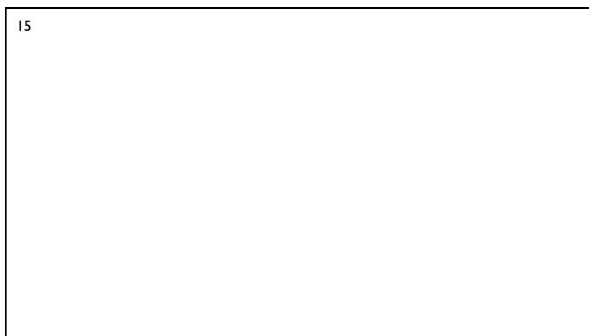
### Transmission model

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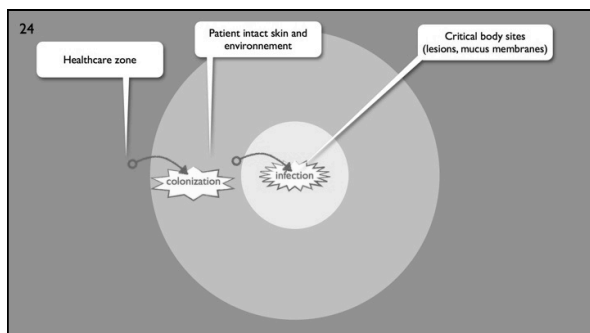
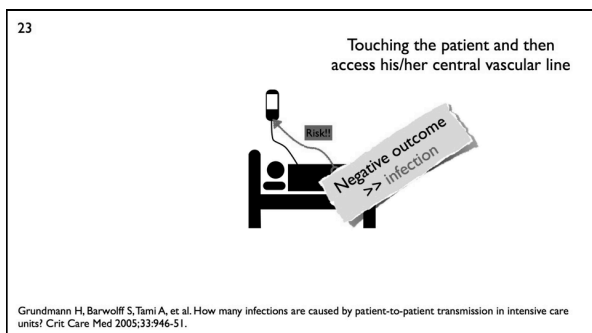
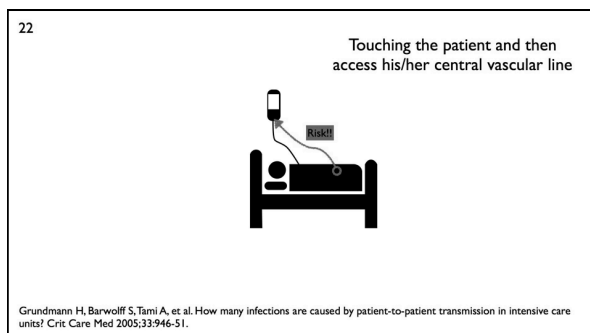
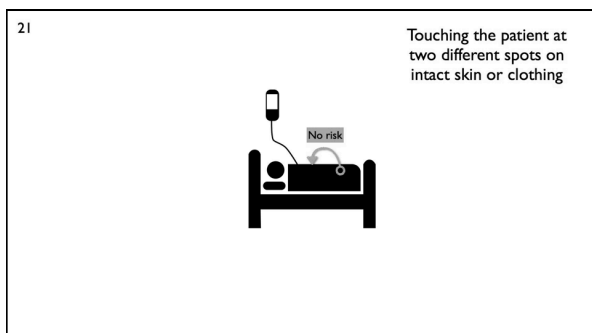
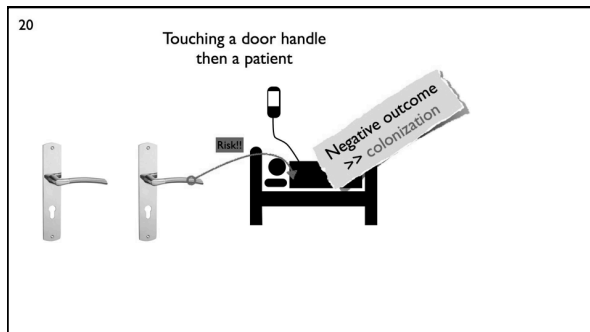
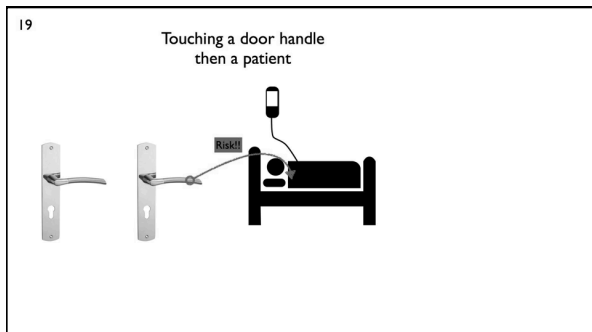


- 14
- ### The prevented outcomes
- Colonization with multiresistant pathogens
  - Healthcare-associated infection
- Two distinct mechanisms*



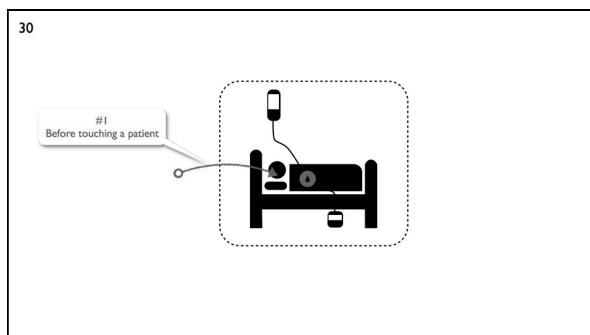
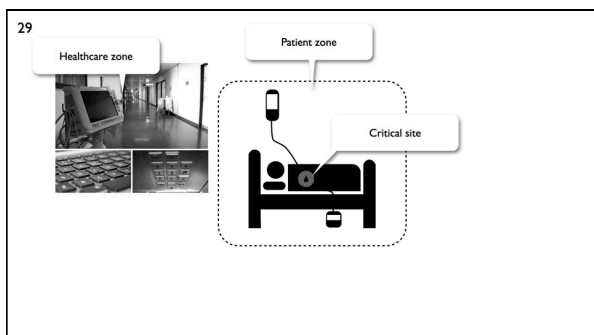
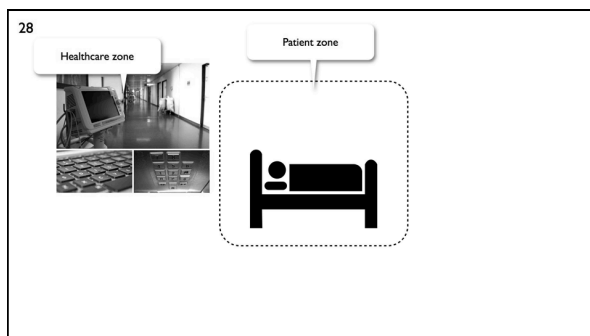
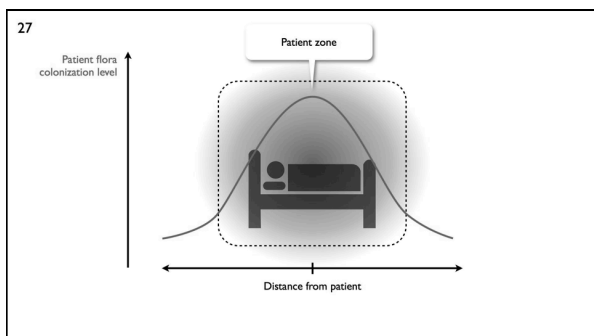
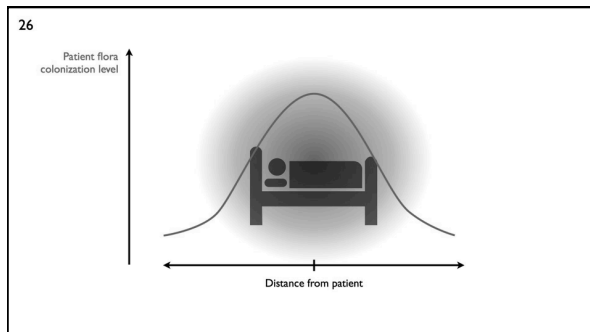
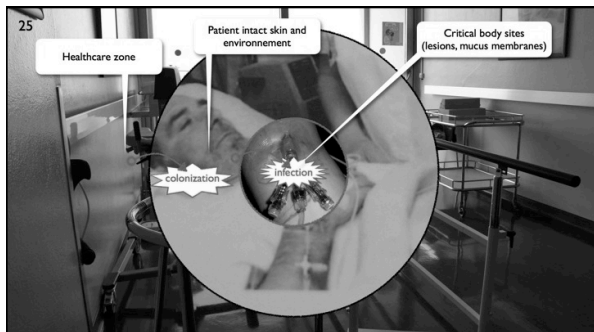
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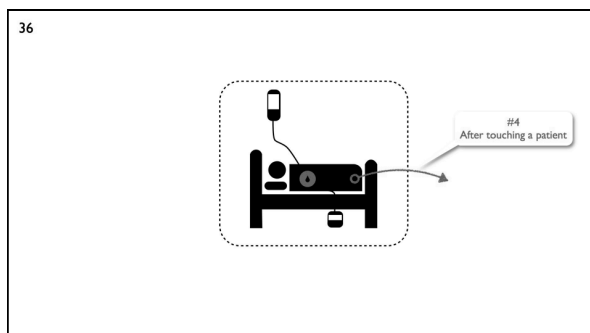
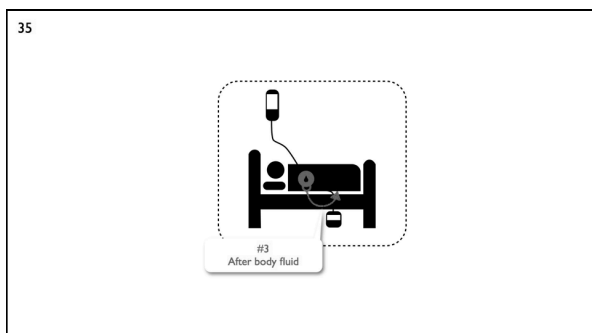
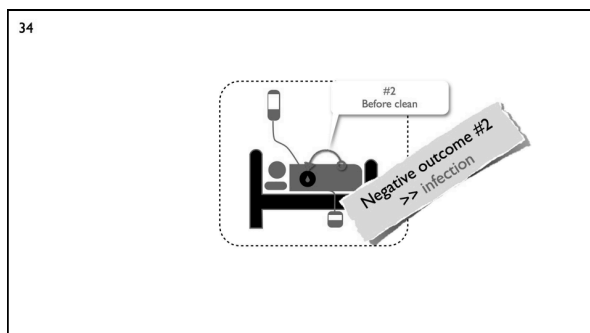
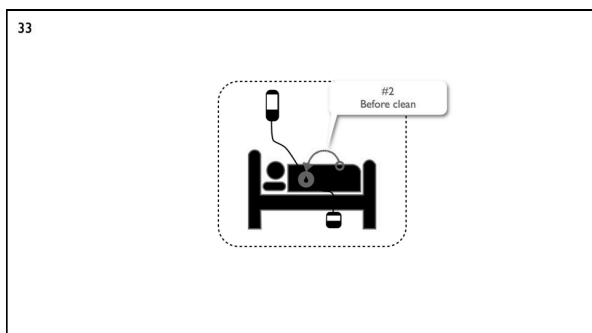
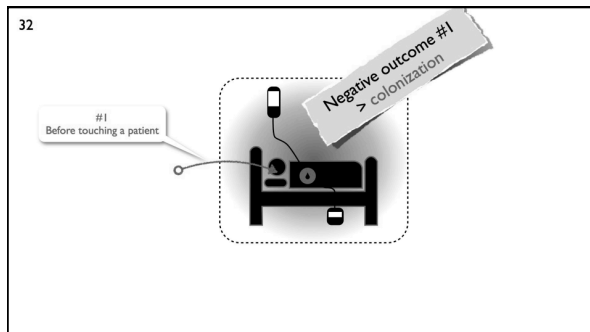
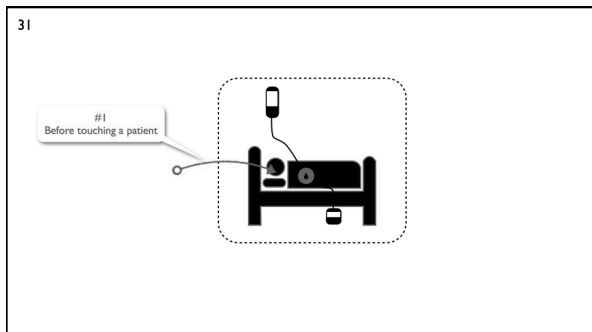
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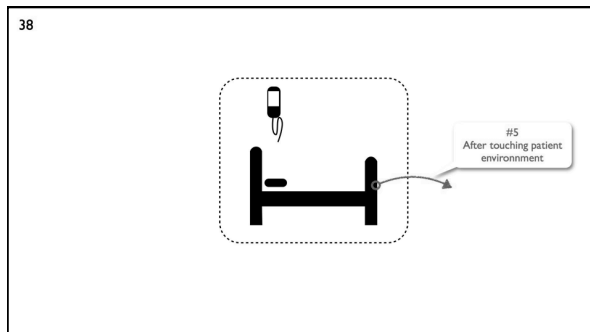
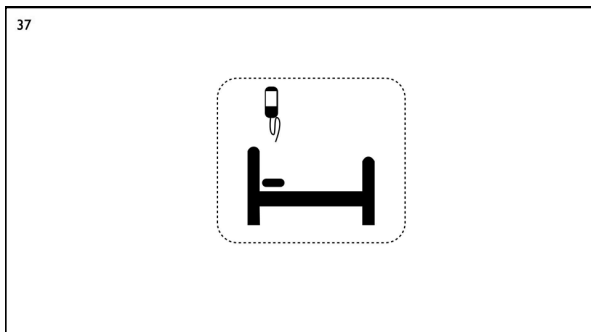
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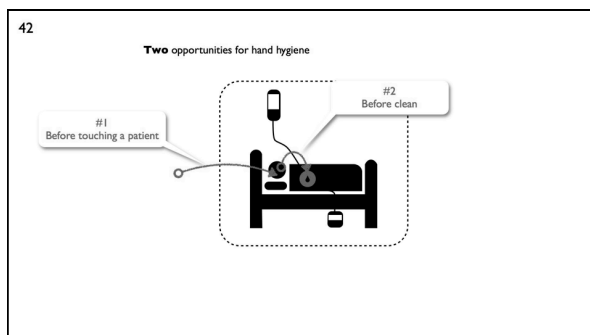
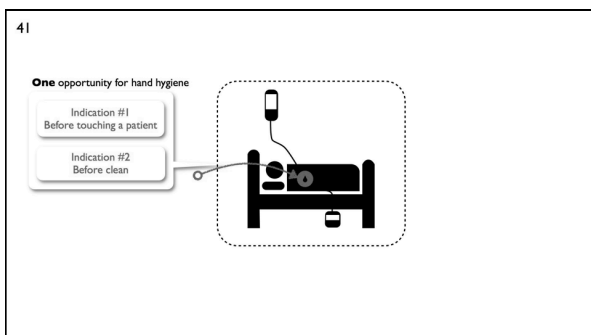
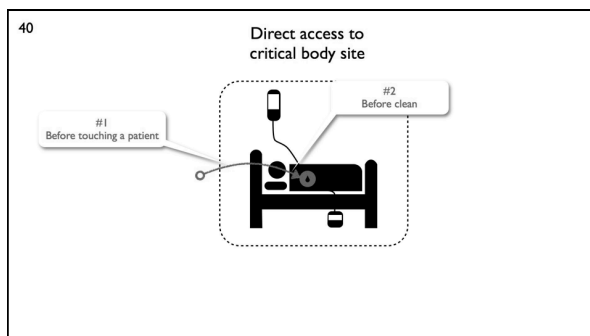


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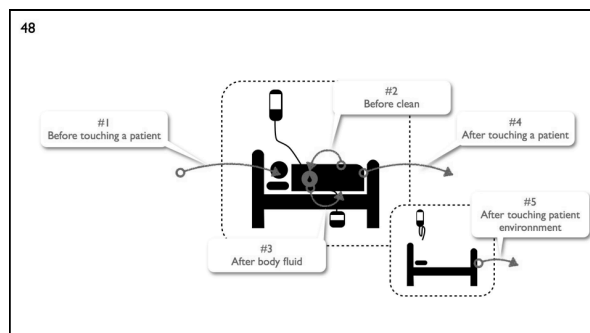
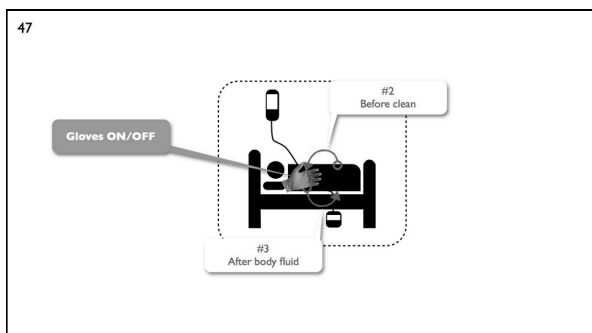
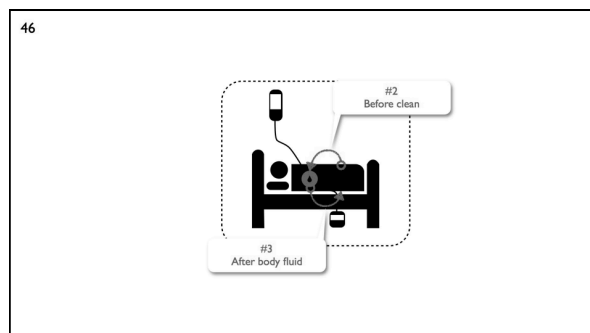
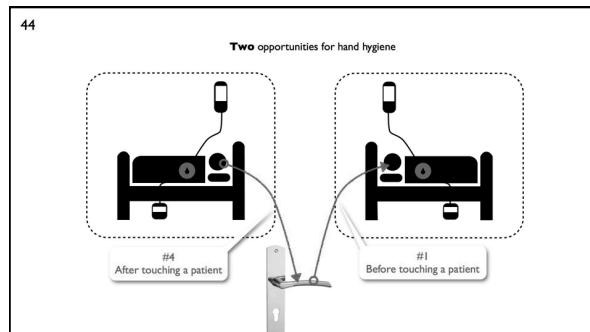
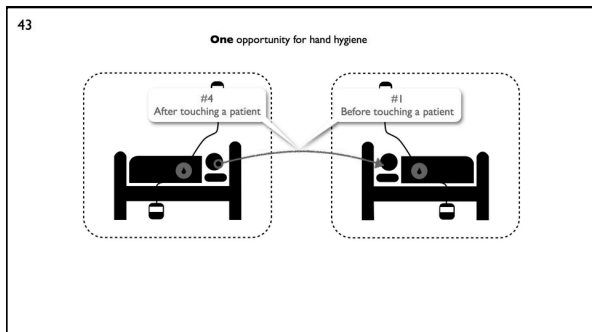


2 indications in 1 opportunity



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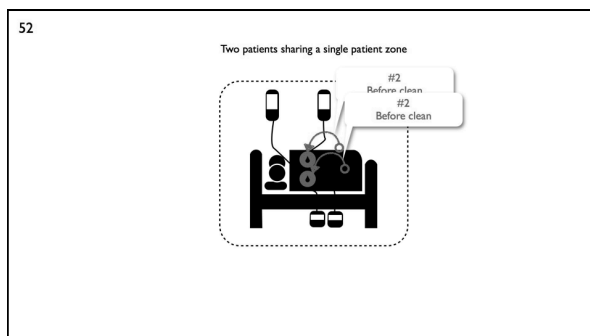
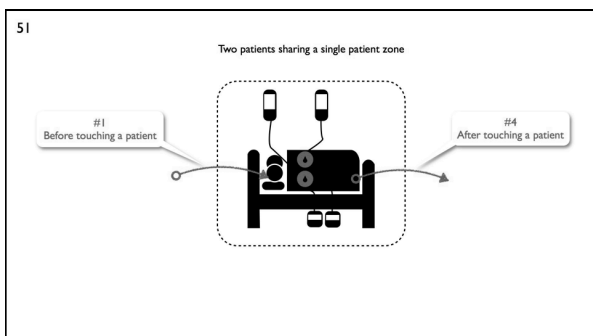
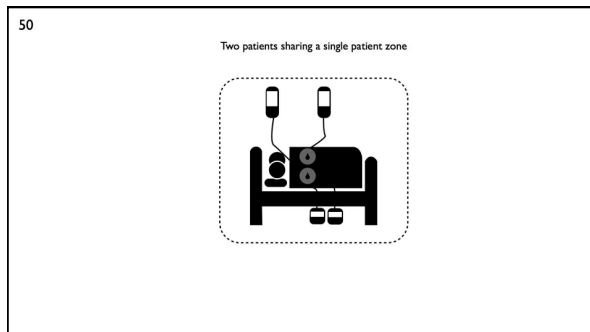


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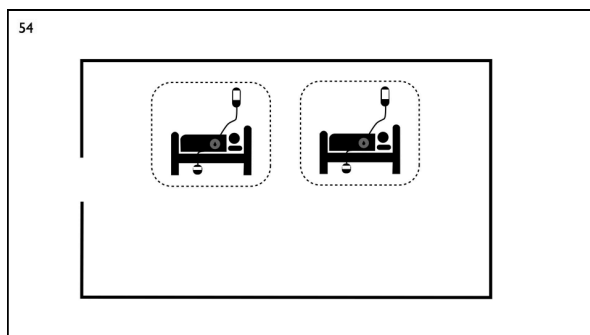


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And yet another case

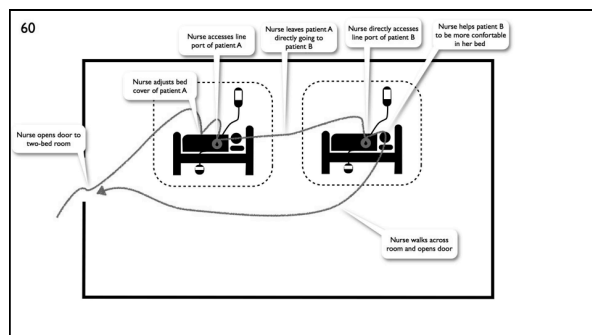
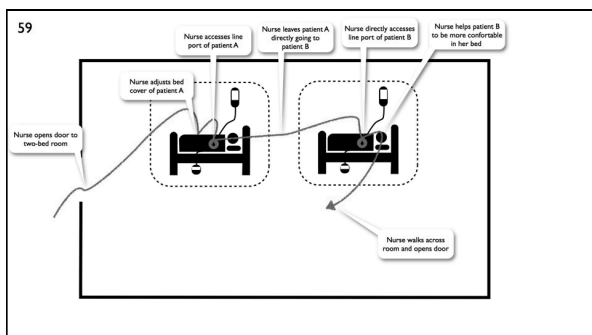
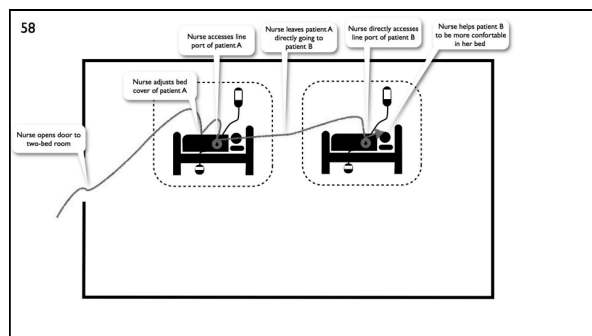
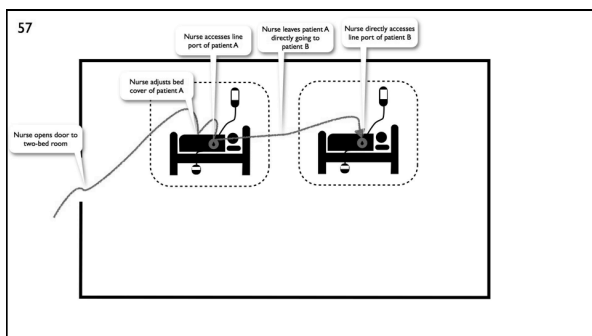
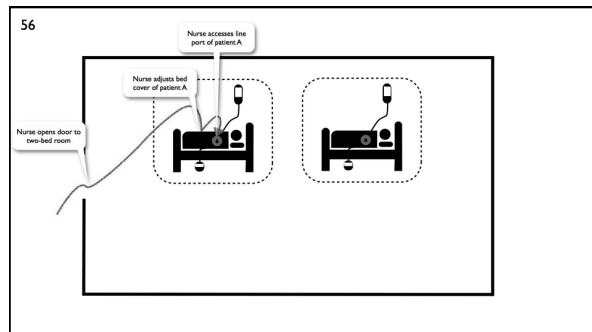
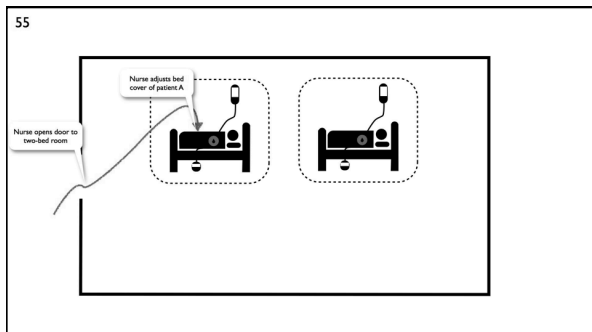


Scenario with 2 patients in one room



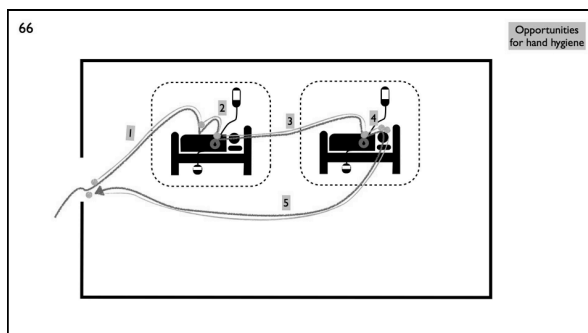
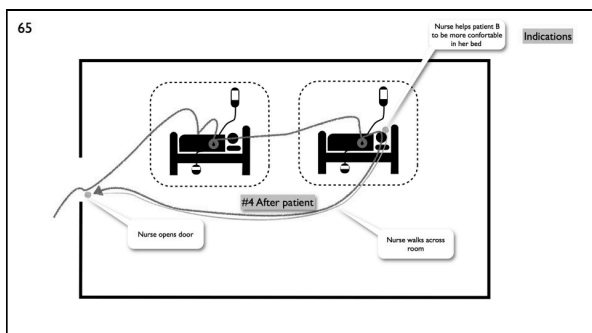
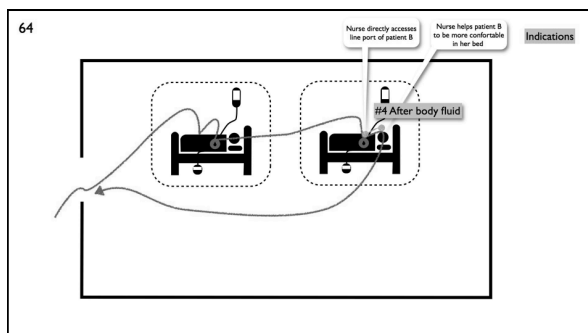
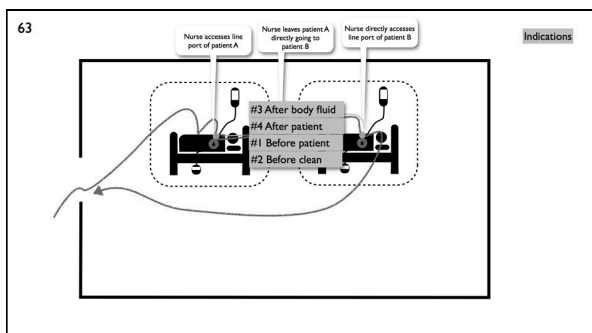
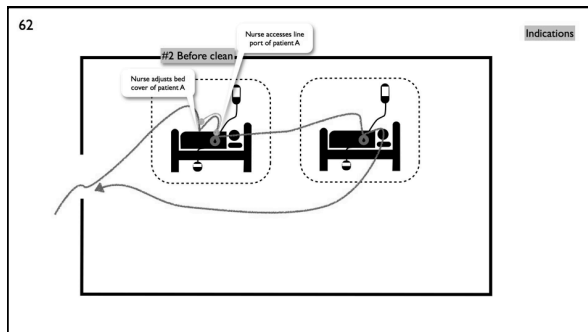
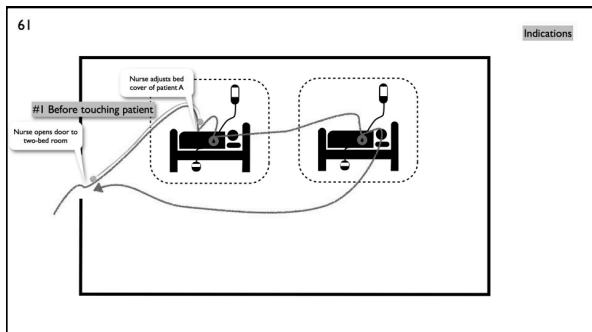
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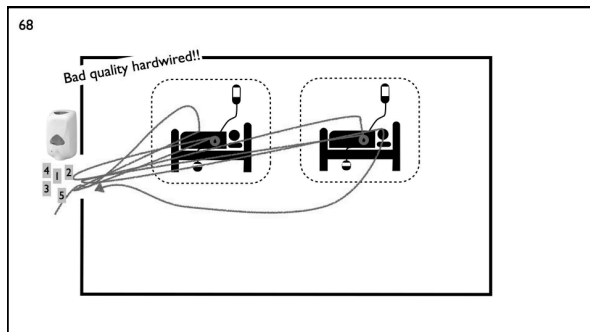
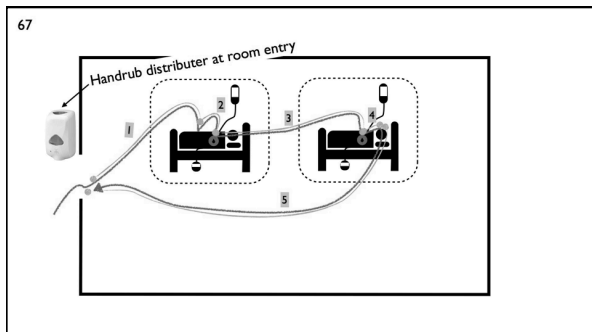
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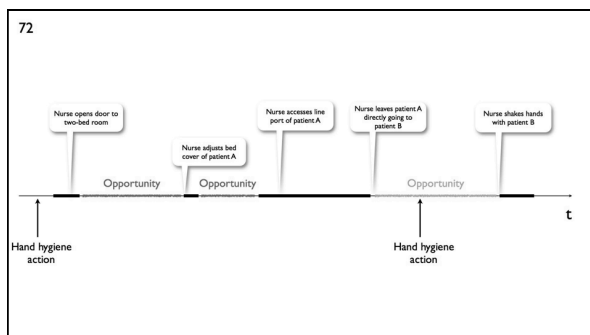
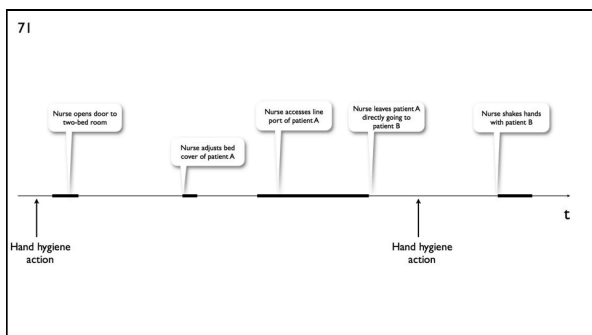
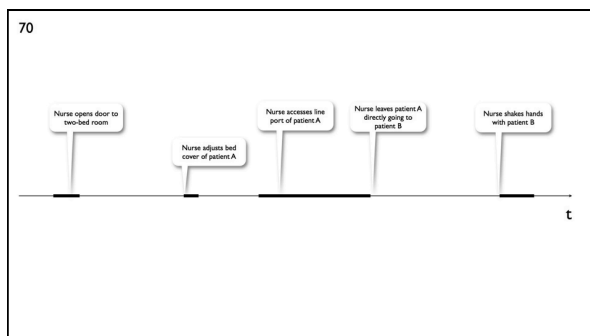


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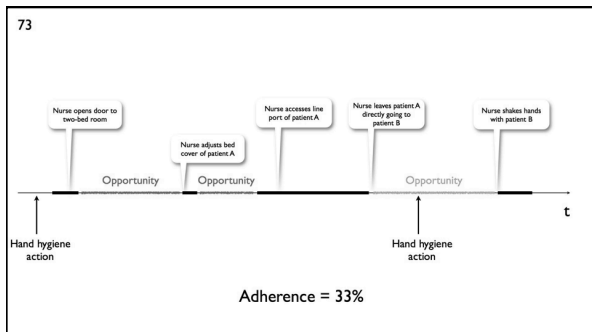


Adherence



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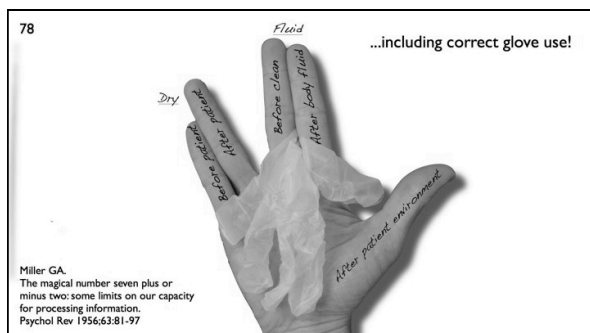
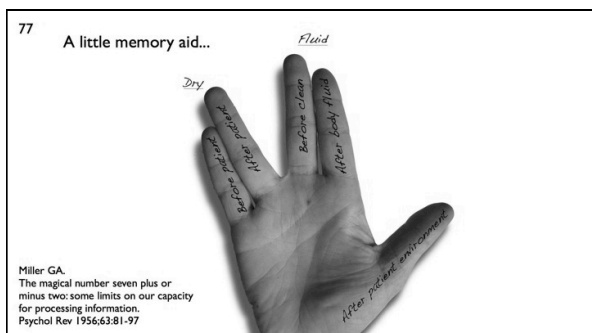
Hand hygiene training

75

**A good concept is not good enough**

1. Translation into specific environment
2. Definition of patient zones involving healthcare workers
3. Training (not only information)

- 76
- Before touching a patient
  - Before a clean/aseptic task
  - After exposure risk to body fluids
  - After touching a patient
  - After touching the immediate patient environment




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Future research

- 80
- Evidence for behavioral dimension >> implications for design
  - Evidence for implementation and sustainability
  
  - Evidence for in-detail transmission mechanisms
  - Comparative outcome research

81



Sax H, Allegranzi B, Uckay I, Larson E, Boyce J, Pittet D. 'My five moments for hand hygiene': a user-centred design approach to understand, train, monitor and report hand hygiene. *J Hosp Infect* 2007;67:9-21.

Sax H, Allegranzi B, Chiraiti MN, Boyce J, Larson E, Pittet D. The World Health Organization hand hygiene observation method. *Am J Infect Control* 2009;37:827-34.


Longtin Y\*, Sax H\*, Allegranzi B, Pittet D. Hand hygiene. *N Eng J Med* 2011. \*for authors

“Ô les mains” dance video @ [vigierme.org](http://vigierme.org)

Video just out now →


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**2011 Teleclass Series**

**February 1 - Quality Improvement in Infection Prevention and Control**  
**April 6 - Hand Hygiene Education and Monitoring: Returning to the WHO “My Five Moments” Concept**  
**May 5 - The Importance of Worldwide Hand Hygiene Events and Activities**  
**June 21 - Establishing an Infection Control Program for Acute Respiratory Infections and Ensuring Pandemic Preparation**  
**July 20 - Highlights and Results From May 5, 2011 Initiatives Around the World**  
**August 20 - Latest Update on *Clostridium difficile* Control**  
**October 4 - MRSA - Is Search & Destroy the Way To Go?**  
**December 7 - Best Practices for Cleaning, Disinfection and Sterilization in Healthcare**



**5 May, 2011**

SAVE LIVES: Clean Your Hands:  
 WHO's Global Annual Campaign



Action for sustained hand hygiene!

Aiming for hand hygiene sustainability is the focus for SAVE LIVES: Clean Your Hands 5 May, 2011. Using the WHO Hand Hygiene Self Assessment Framework can help you ...

- Plan your own activities
- Undertake self-assessments
- Construct ways to highlight and share the 5 May message

Act on the WHO SAVE LIVES: Clean Your Hands messages ...

**REGISTER TODAY. [www.who.int/gpsc/5may/en](http://www.who.int/gpsc/5may/en)**

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