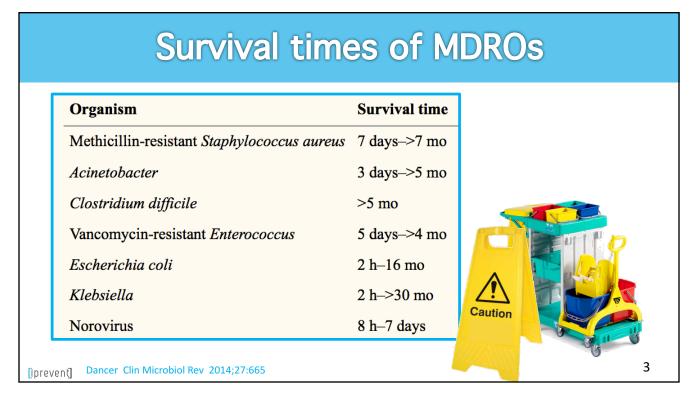
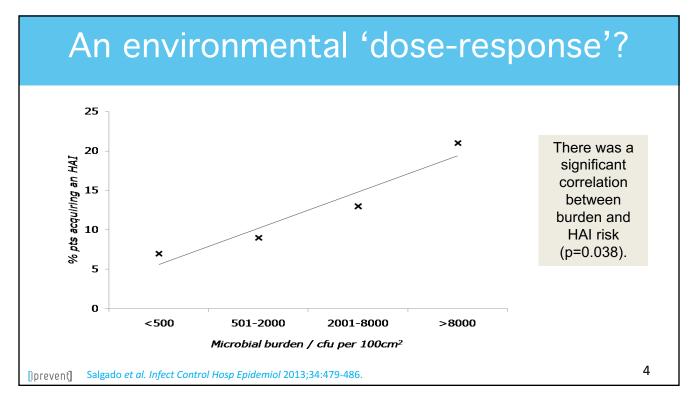
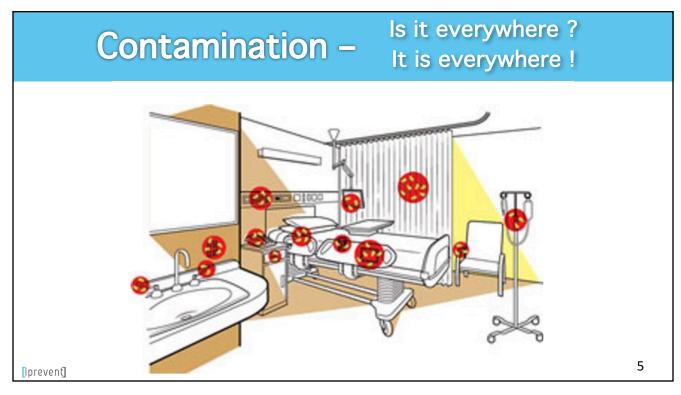
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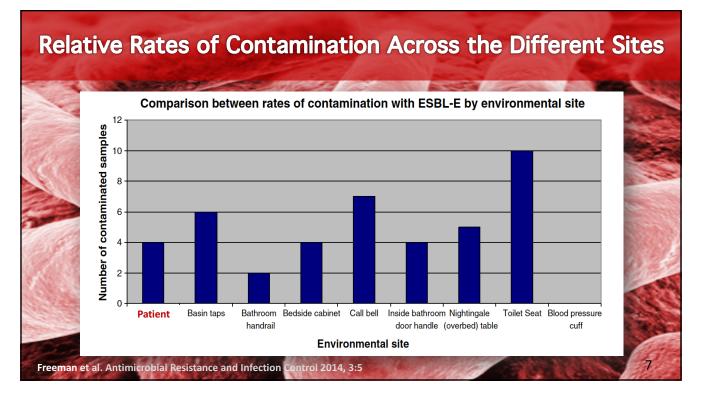


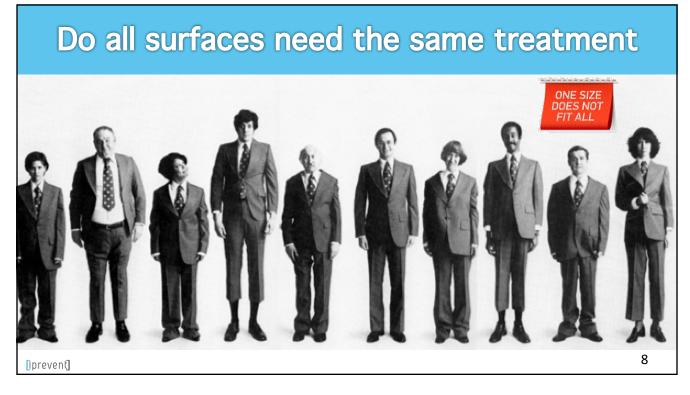


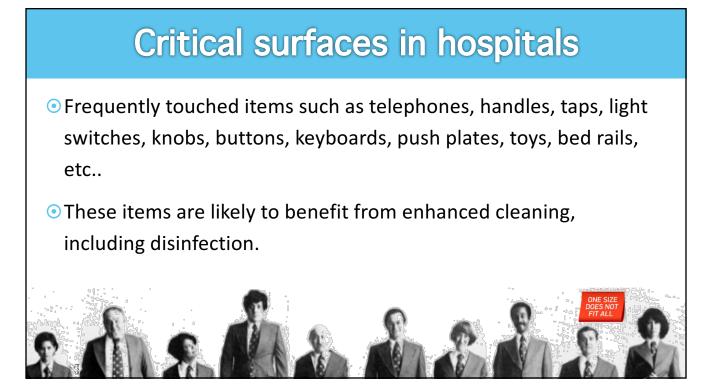


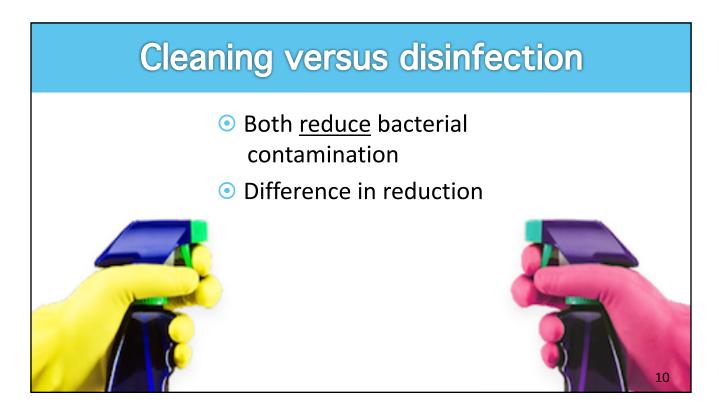


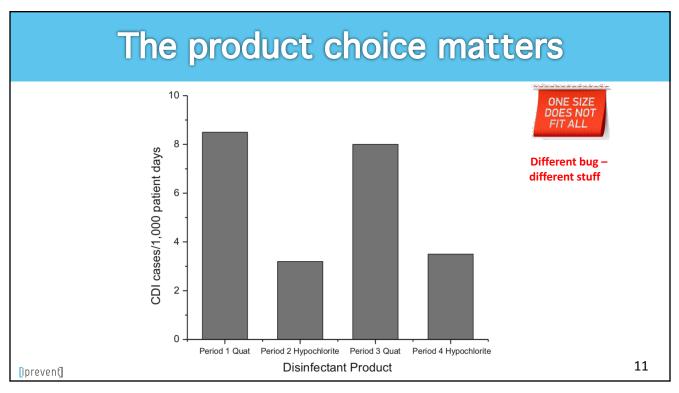




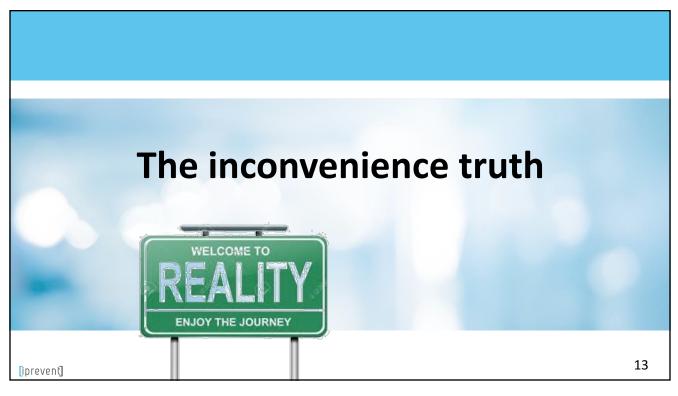














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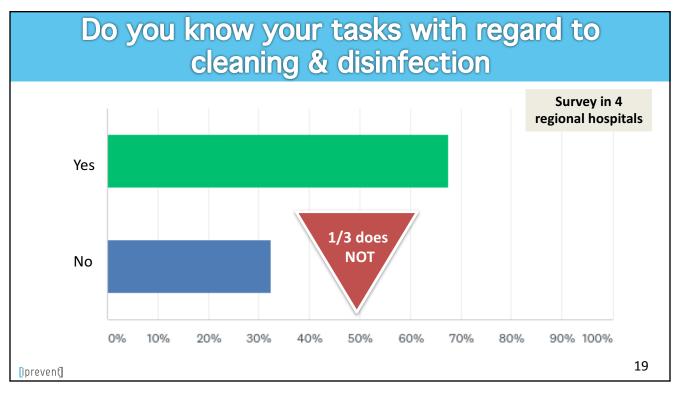
The following pictures may contain shocking details on infection control in The Netherlands<br/>that completely contradict our good reputation15



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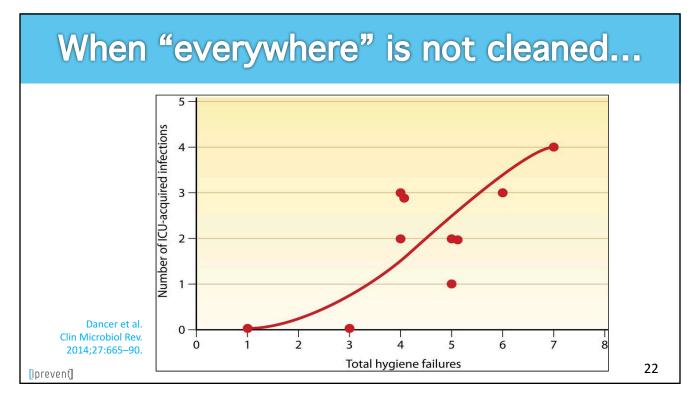
Responsibilities		
Responsibilities	<ul> <li>Roomservice</li> <li>Roomservice-plus</li> <li>Registered nurse</li> <li>Nurse assistant</li> <li>Cleaning</li> </ul>	
[iprevent]	18	•

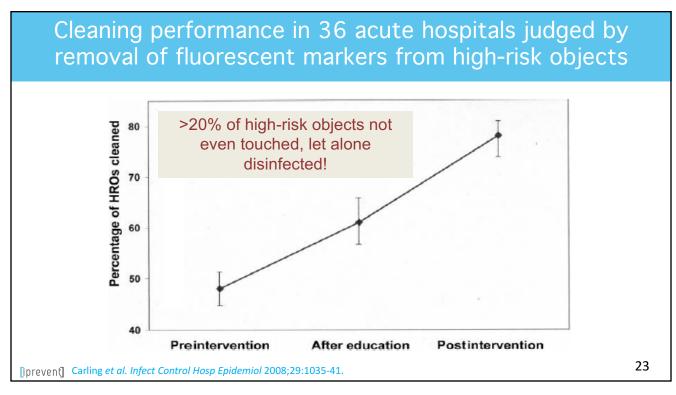


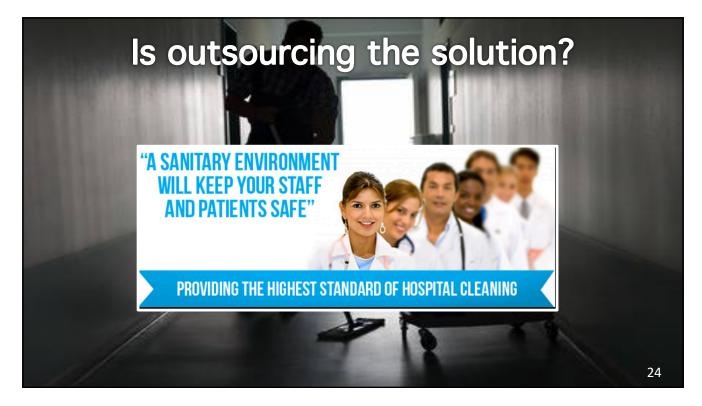


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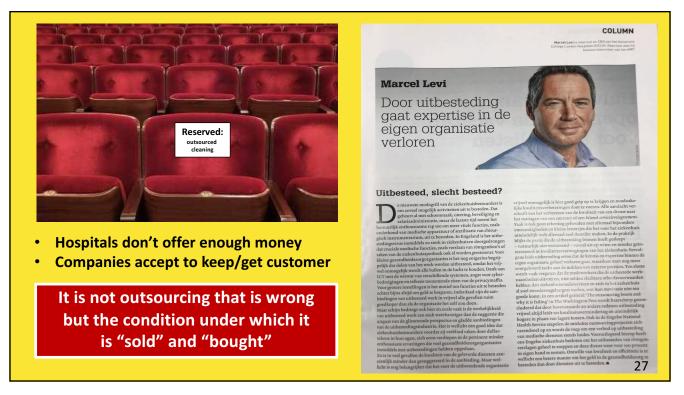




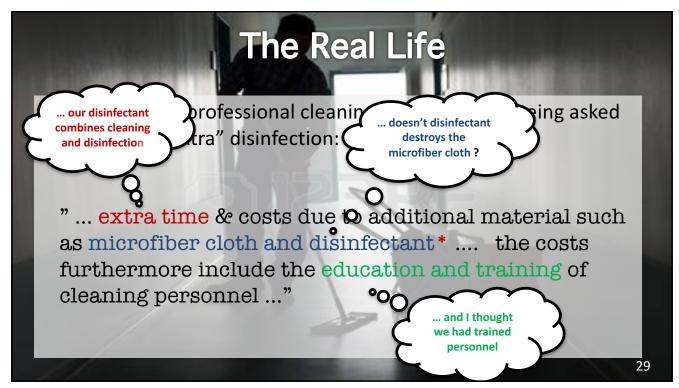


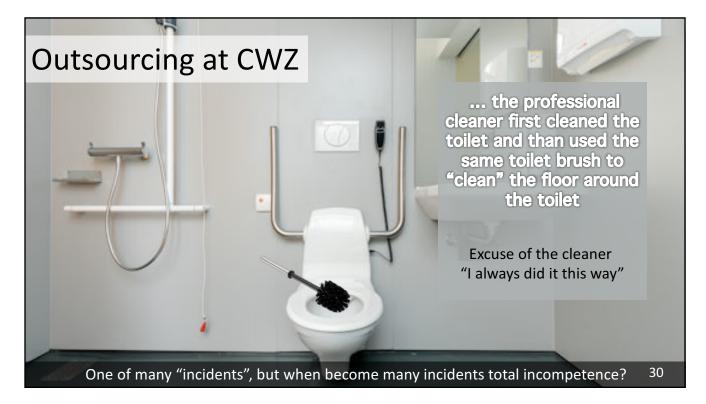


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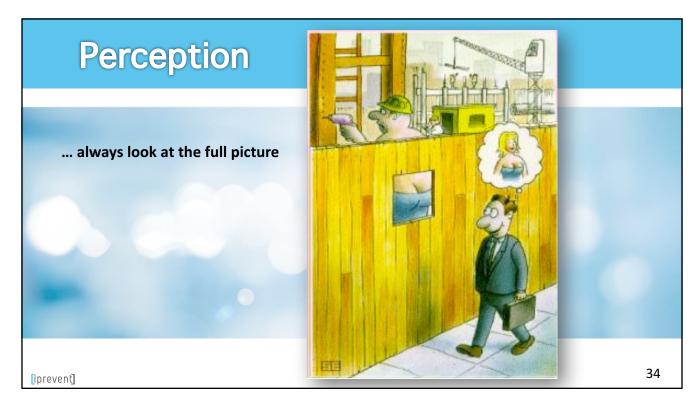






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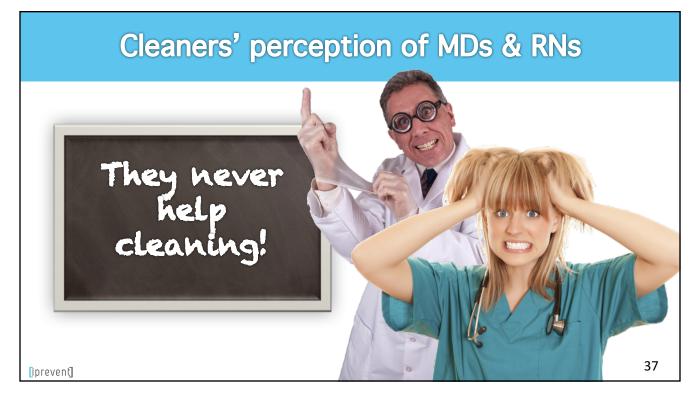






# The Story of Dirty (Dutch) Hospitals

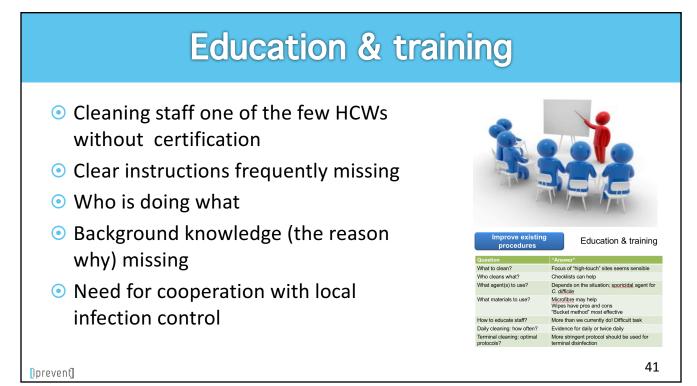


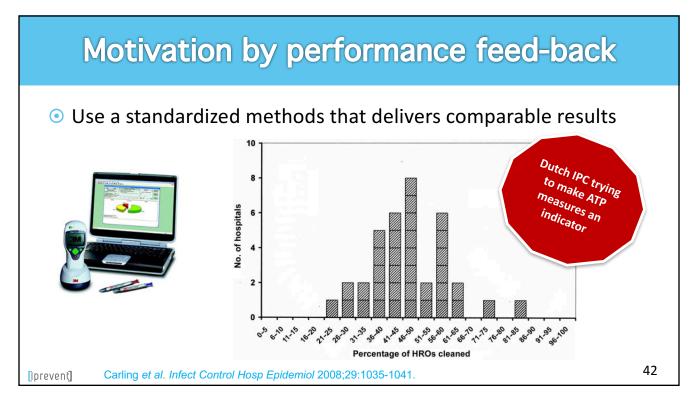








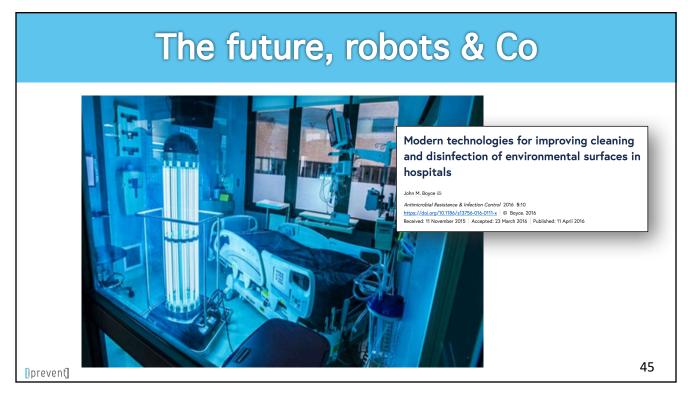




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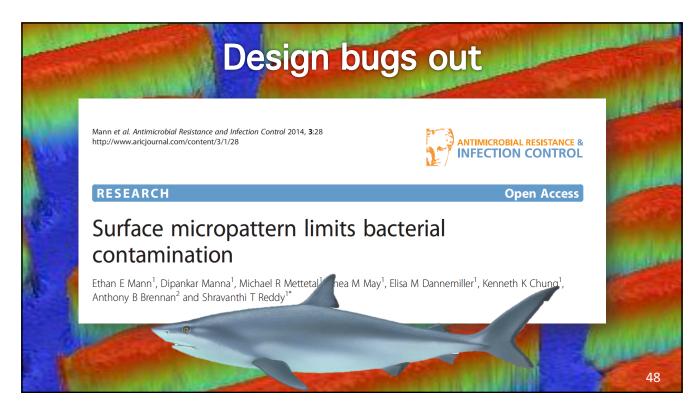


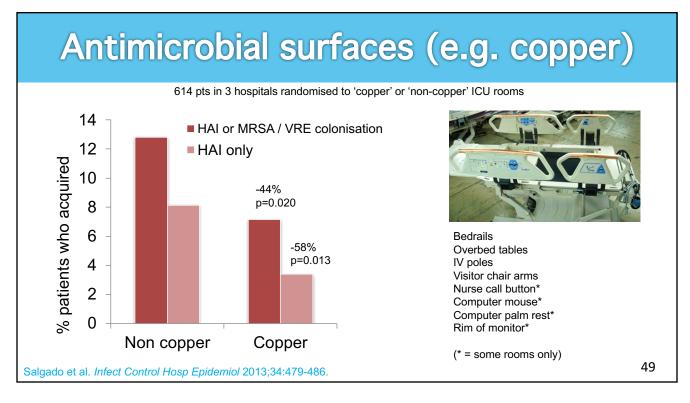






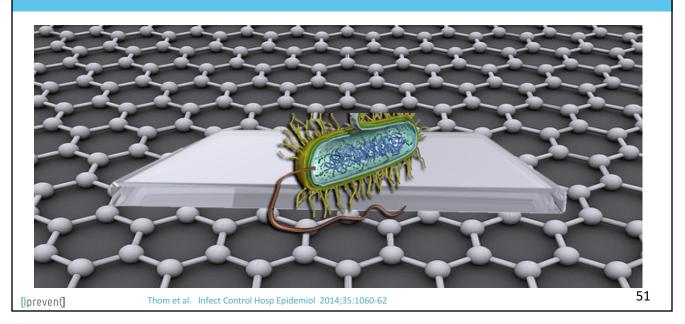


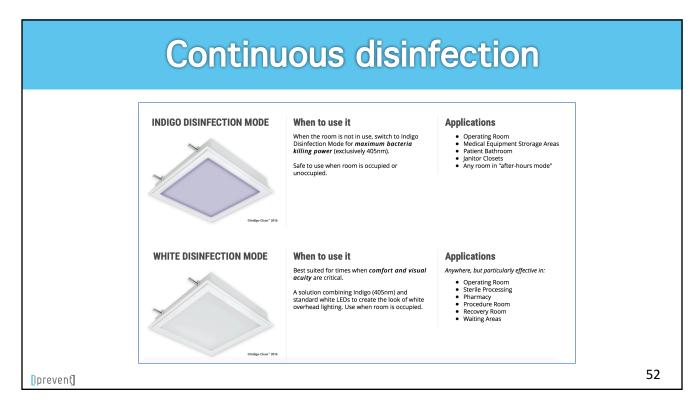


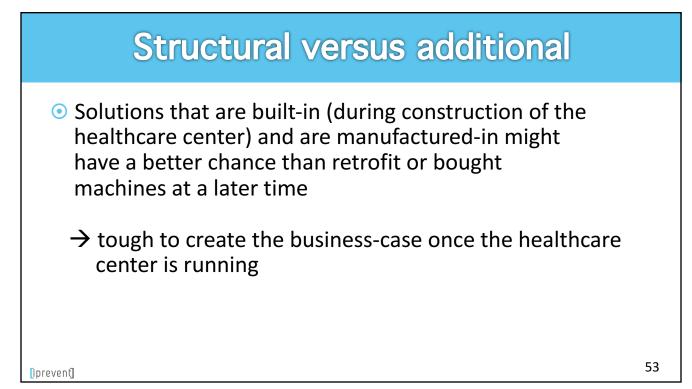


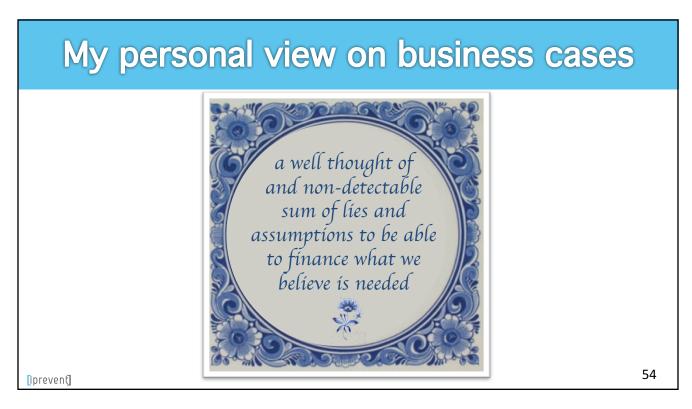
Candidate	Application	Pros	Cons		
Metals					
Copper	Manufactured in / liquid disinfectant	Rapidly microbicidal; large evidence-base; evidence of reduced acquisition.	Sporicidal activity equivocal; cost, acceptability and durability may be questionable.		
Silver	Manufactured in / liquid disinfectant	Broadly microbicidal.	? sporicidal; tolerance development; relies on leaching so surface loses efficacy over time.		
		Chemicals			
Organosilane	Liquid disinfectant	Easy to apply.	Limited microbicidal activity; questionable "real-world" efficacy.		
Light-activated (e.g. titanium dioxide or photosensitisers)	Manufactured in / liquid disinfectant	Broadly microbicidal; can be activated by natural light.	? sporicidal; requires light source for photoactivation (some require UV light); may lose activity over time.		
	Physical alteration of surface properties				
"Liquid glass" (silicon dioxide)	Liquid application	Reduces deposition; improves 'cleanability'.	Not microbicidal; some evidence of reduced contamination; unknown required frequency of application.		
Sharklet pattern	Manufactured-in	Reduces deposition; reduced. biofilms.	Not microbicidal; not feasible to retrofit.		
Advanced polymer coatings (e.g. PEG)	Manufactured-in	Reduces deposition; some can be 'doped' with copper or silver.	Not microbicidal; may be expensive; scale up to large surfaces questionable; not feasible to retrofit.		
Diamond-like carbon (DLC) films	Manufactured-in	Reduces deposition; can be 'doped' with copper or silver.	Not microbicidal; likely to be expensive; feasibility of scale up to large surfaces questionable; not feasible to retrofit. 50		

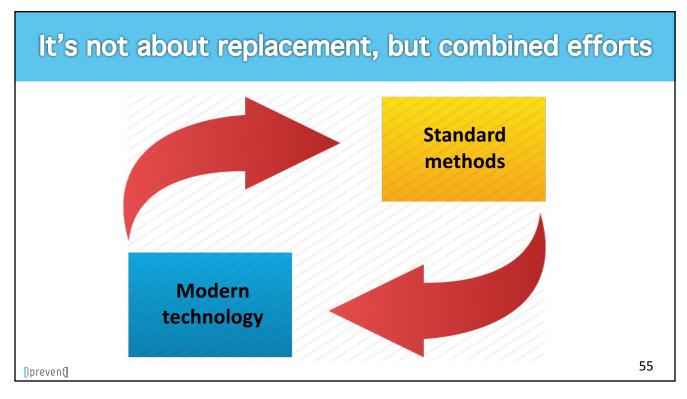
### Effectiveness of Antimicrobial Polymer to Decrease Contamination of Environmental Surfaces



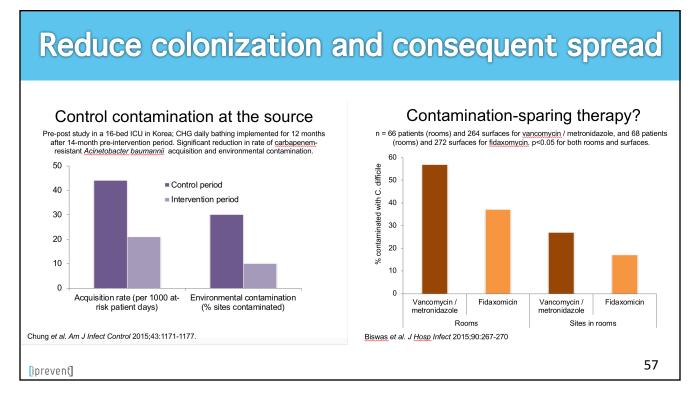




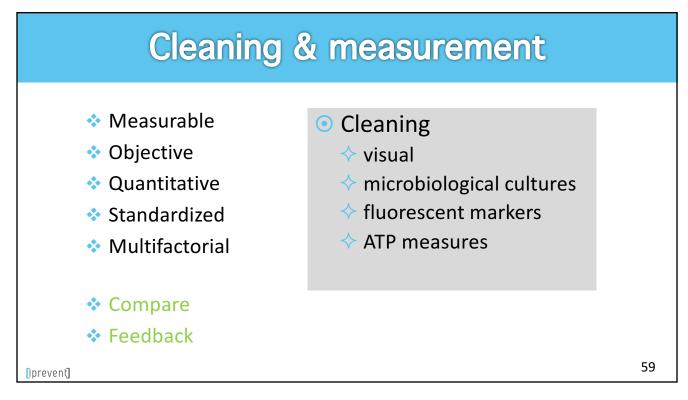


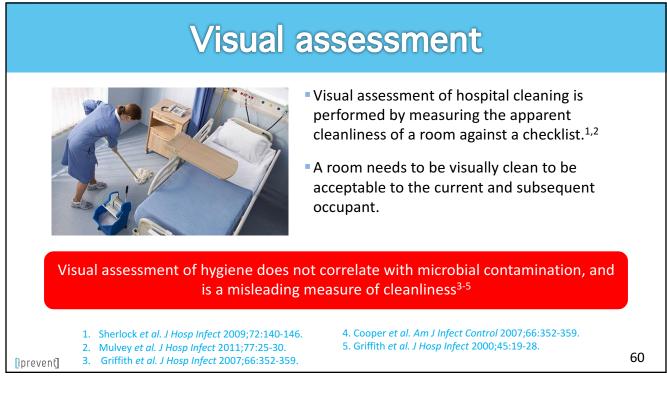


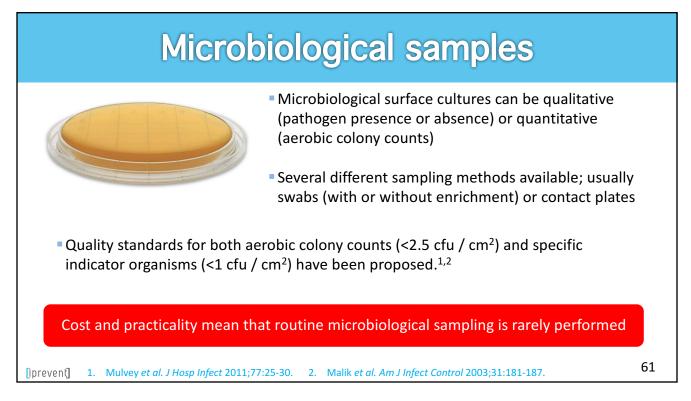


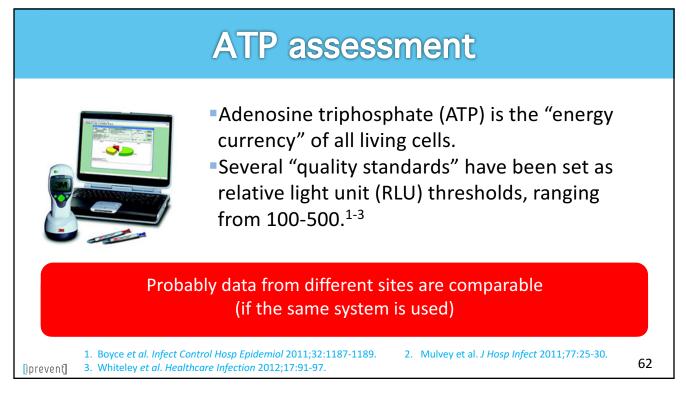












## **Fluorescent markers**



- Fluorescent material can be applied to a surface and its removal assessed by a 'black light'
- The % removal of the spots is used to evaluate cleaning performance.<sup>1,2</sup>
- Educational interventions can improve significantly the removal of the market spots.<sup>2-3</sup>

The removal of marked spots has been shown to correlate with microbial contamination in some studies;<sup>2-3</sup> cleaning staff may "get wise" to the location of the spots and preferentially target them<sup>4</sup>

 1. Boyce et al. Infect Control Hosp Epidemiol 2011;32:1187-1189.
 2. Carling et al. ICHE
 2008; 29:1035-1041.

 []prevent]
 2. Munoz-Price et al. Infect Control Hosp Epidemiol 2012;33:897-904.
 4. Rutala et al. ICHE
 2011;32:743-747.

63

I Micro Low-Moderate Moderate Accurate	ATP High Yes Indirect	Fluorescent High Yes Indirect
Moderate	Yes	Yes
Accurate	Indirect	Indirect
Yes/No	No	No
Low	Low	Moderate
No	Yes	No
Yes	Some	Some
	No	No Yes









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January 7, 2020	SOCIAL MEDIA IMPACT ON INFECTION PREVENTION AND CONTROL Speaker: Prof. Didier Pittet, University of Geneva Hospitals, Switzerland	
January 23, 2020	(FREE Teleclass) A ONE HEALTH PERSPECTIVE ON FOOD SECURITY Speaker: Prof. Laura Kahn, Woodrow Wilson School of Public and International AffairsPrinceton University	
January 30, 2020	POSITIVE DEVIANCE AND HAND HYGIENE: WHAT CAN WE LEARN FROM THE BEST? Speaker: Josiane Létourneau, Univeristy of Montreal	
February 13, 2020	MALNUTRITION RISK AND HEALTHCARE INFECTION – A MUST DO Speaker: Dr. Fidelma Fitzpatrick, Royal College of Surgeons in Ireland	
February 18, 2020	(FREE European Teleclass Denver Russell Memorial Teleclass Lecture) ANTIMICROBIAL RESISTANCE – A GLOBAL ONE HEALTH CHALLENGE Speaker: Prof. Séamus Fanning, University College Dublin, Ireland	

