



IPC & human behaviour

- Abundant research on effective IPC interventions
 - We know what works and what we need to do, yet ...
- Publications continue to highlight suboptimal compliance
 - · Hand hygiene, antibiotic use, device management etc
- Research and knowledge about effective IPC processes are meaningless if we cannot integrate them into day to day activities (behaviour) of HCWs

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Critical Care Medicine 2004; 32:10

Eliminating catheter-related bloodstream infections in the intensive care unit*

Sean M. Berenholtz, MD, MHS; Peter J. Pronovost, MD, PhD; Pamela A. Lipsett, MD; Deborah Hobson, BSN; Karen Earsing, RN, MS; Jason E. Farley, MSN, MPH, CRNP; Shelley Millanovich, RN, MSN, ACNP; Etizabeth Garrett-Mayer, PhD; Bradford D. Winters, MD, PhD; Haya R. Rubin, MD, PhD; Todd Dorman, MD; Trish M. Perl, MD, MSc

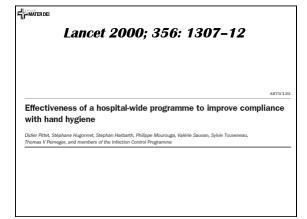


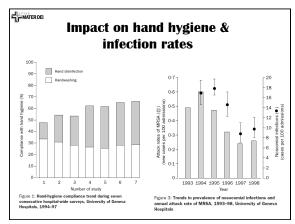
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Addressed central line related bloodstream infection through:

- · Educating staff;
- Critical Care Medicine 2004; 32:10
- Creating a catheter insertion cart;
- Daily assessment if catheters could be removed;
- Implementing a checklist to ensure adherence to evidence-based guidelines
- Empowering nurses to stop the catheter insertion procedure if a violation was observed



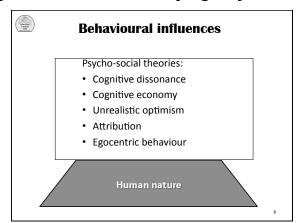


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Interventions

- Staff awareness
 - A3-size colour posters
- Most prominent component
- · Greater availability of alcohol hand rub
 - Individual bottles provided
- Clinical support for the programme
 - Extra funding
 - Involvement of senior staff





Cognitive dissonance

- In the most part humans are not rational but they rationalise (Festinger).
- Attempt to appease personal conflict by generating an excuse or justification
- Make consistent two or more things that are exclusive to one another
 - "Why are you on my back about hand hygiene? Why don't you see the problems we have with..."



Cognitive economy

- Attempt to gain maximum output for minimum effort (Roth & Frisby, 1992)
- · Become context specific or tunnel visioned
- Fail to take account of the wider implications of their behaviour
 - "Don't talk to me about resistance! My only concern is the patient in front of me and giving him antibiotics to covering all possible microbes"

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Unrealistic optimism

- Unrealistic optimism of risk behaviour (Ogden 2007)
- Perception that behaviour is of no consequence to others or to themselves
 - —"There is no way my 'occasional' lapses in hand hygiene could be responsible for our high MRSA levels."

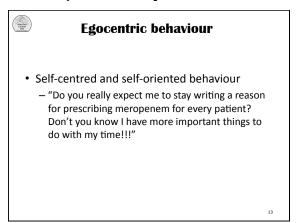


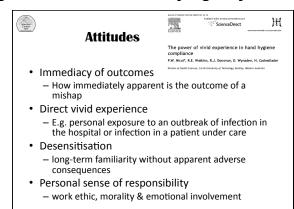
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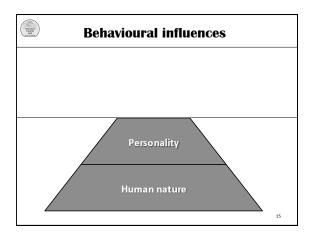
- Making judgements of other's behaviours based upon minimal and dubious evidence.
 - "Of course this patient got an MRSA bacteraemia. He is diabetic and on dialysis. It was unavoidable!"

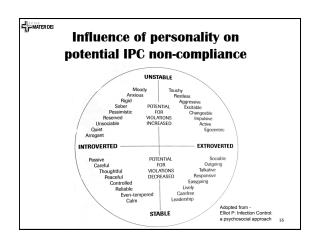
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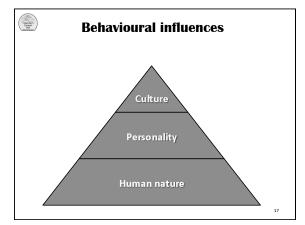
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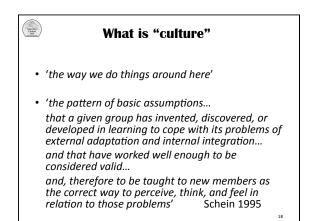




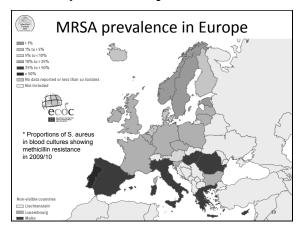




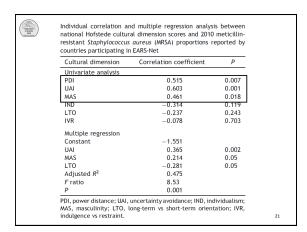


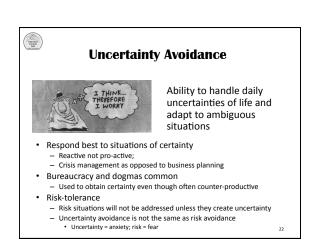


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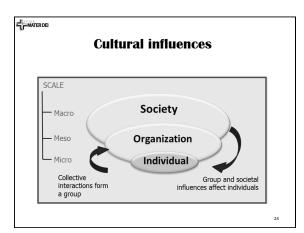




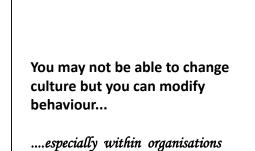








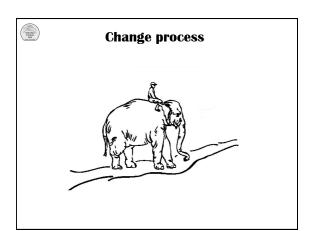
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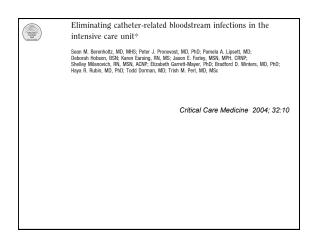


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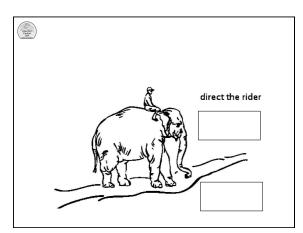


Eliminating catheter-related bloodstream infections in the intensive care unit $\!\!\!\!^*$

Sean M. Berenholtz, MD, MHS; Peter J. Pronovost, MD, PhD; Pamela A. Lipsett, MD; Deborah Hobson, BSN; Karen Earsing, RN, MS; Jason E. Farley, MSN, MPH, CRINP; Shelley Milanovich, RN, MSN, ACNP; Elizabeth Garrett Mawyer, PhD; Bradford D. Winters, MD, PhD; Haya R. Rubin, MD, PhD; Todd Dorman, MD; Trish M. Pert, MD, MSc

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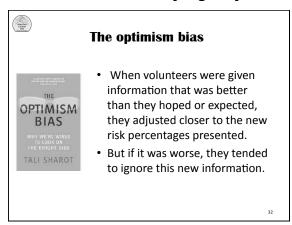
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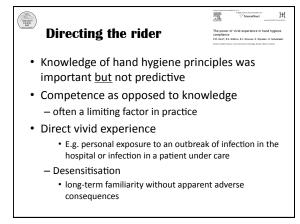


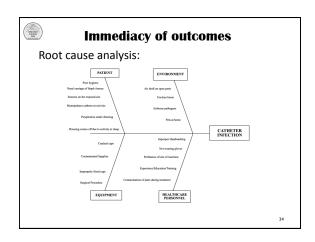
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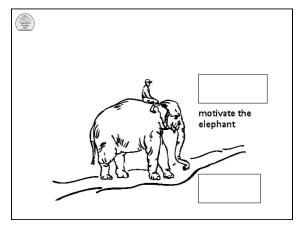


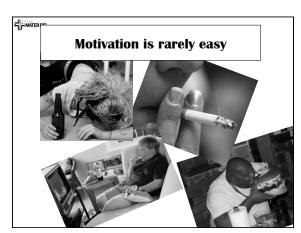
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Opinion leaders

- Opinion leaders identified by peers using a simple scoring method
- involved in the development of intervention and in undertaking the adu

	Change in practice score (n)*	Direct observation: Correct practices (n)†
Group A (OL and lecture)	5.63 (n = 27)	50% (n = 120)
Group B (OL)	4.96 (n = 26)	35% (n = 116)
Group C (lecture)	3.29 (n = 25)	38% (n = 210)



Personalities

- Impact of opinion leaders depends on:
 - The degree to which some or all formal and informal leaders are able and committed to make change happen
 - The strength of social control
- Influential personalities can disrupt initiatives and interventions

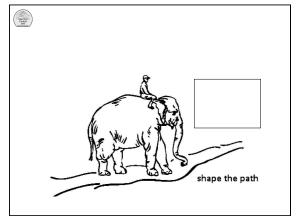


The Joint Commission Journal on Quality and Patient Safety

How Active Resisters and Organizational Constipators Affect Health Care-Acquired Infection Prevention Efforts

Sanjay Sains, M.D., M.P.H.; Christine P. Kowalski, M.P.H.; Jane Banaszak-Holl, Ph.D.; Jane Forman, Sc.D., M.H.S.; Laura Damichroder, M.S., M.P.H.; Saruh L. Krein, Ph.D., R.N.

- "Active resistors"
 - Personnel who vigorously and openly opposed change
- "Organisational constipators"
 - Mid to high level executives who prevent or delay change without active resistance
- Insidious barriers that increase work required to achieve effective implementation.





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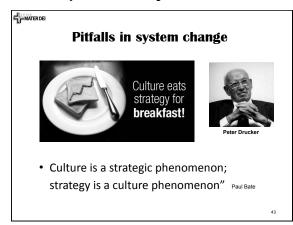
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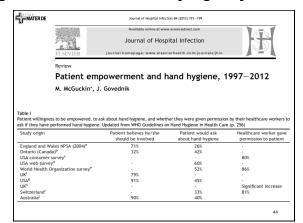
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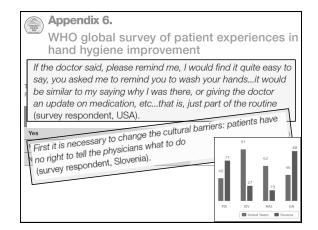
evidence-based guidelines

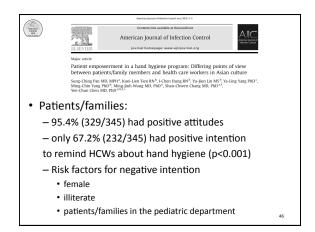
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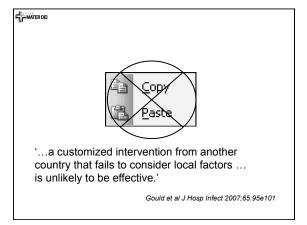
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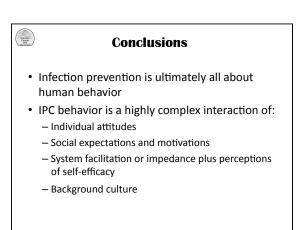










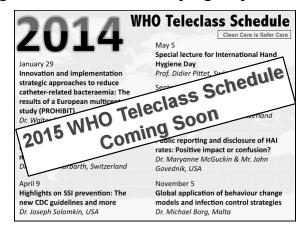


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Conclusions II

- Behavior change can be achieved through effective:
 - Education and competence training
 - Motivation
 - System change
- No two organisations are the same...
 - IPC professionals need to understand local culture
 - National / organisational
 - Interventions need to be adapted according to local situation / culture / circumstances.





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