ch 27, 201

### Human Factors & Infection Prevention and Control

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Infection Prevention and Control

A facet of patient safety

## Human factors

A science at the intersection of psychology and engineering......

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Thought paper May 2013				



Why does infection prevention need to look outwards to other specialties/experts?



Using human factors engineering to improve the effectiveness of infection prevention and control lerson, MD; Laura Lin Gosbee, MASc; Mary Besses en, MD; Linda Williams, RN, MSI













7. Need for additional problem solving tools

Multidisciplinary, multifaceted approach

Not part of the everyday flow of work

'I can either practice infection control or I can treat the patients, you choose' (Ward D, 2012)



- 1. The number of actors involved
- 2. The explosion in processes, procedures, technologies
- 3. The throughput of patients
- 4. The ratio of nurses to patients
- 5. The dependency of patients
- 6. The layout of clinical care areas





On one level it could be argued that human factors have permeated a long way into the infection prevention mindset – if by human factors you simply think 'checklists'

But there is little, if any, evidence of human factors expertise or input to the design of for example checklists



Why are human factors experts so important?



Teamwork and learning together - one of the success factors in building cohesiveness, making sure key steps are taken during everyday workflow

Human factors expertise can reliably facilitate how we do this across teams and organisations



Do we need to change everything, forget everything we have been doing till now in healthcare to now stop infections?

- Look back and look forwards together
- Analyse structural and processrelated factors that contribute to unsafe care;
- (Re)design so that they improve, and the performance of healthcare workers and outcomes also improve

Refocusing on the prevention and control of infection through a human factors lens offers us a **new way of looking at an old problem** 

The opportunity to assess if the problems we think exist are the real problems and to focus energy on the right approaches

# A sense of urgency and importance

Increase efficiency and remove unhelpful redundancy, overuse, underuse and misuse of current interventions

Do you have a call to action to infection preventionists and others now?



### Two

Recognize our strengths and limitations - reach out to identify areas most amenable to human factors approaches.

### Three

The patient safety and infection prevention communities – ignite research

#### Four

More use of safety culture assessments prior to implementation

### Five

Become evangelists – there is a burning imperative for action now

?

Who can help infection prevention take this leap forward in working with other specialists/ human factor experts for the future of patient safety? Policy makers, national organizations with a remit for quality and patient safety, academics, as well as leaders within healthcare organizations, explore and facilitate the change alongside infection preventionists

Critical to translate evidence into practice







