

# A qualitative perspective on staffing: Implementation of infection control programs

Dr Lisa Hall

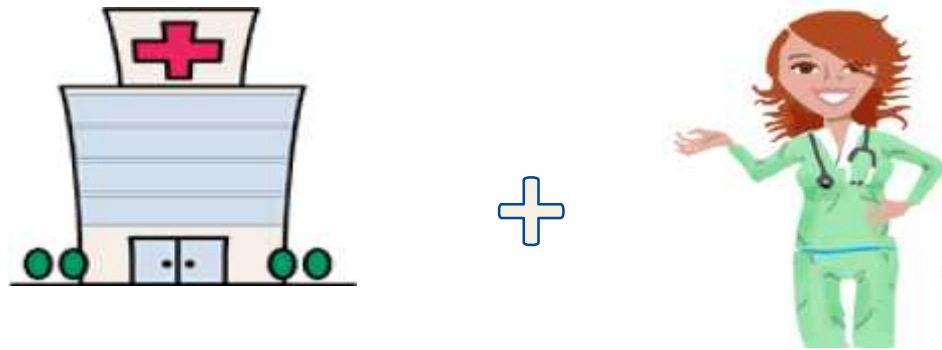
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# Scenario – how to prevent HAI...



= Infection control  
program

# What information do we really need to know?

What factors influence this process?

What works in terms of implementation, and what doesn't?

...and most importantly how does it work?

**Can't just look at staff numbers!!**

# Where can I find the information?



# What about a systematic review?



This review hopes to summarise existing evidence about the factors that promote or inhibit the implementation of infection prevention and control programs in hospitals.

We hope to better describe the dynamics and mechanisms of program implementation in infection control, highlighting what factors may lead to program success.

# The team

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# Three parts...

- Systematic search
  - Systematic way to read and critique articles
  - Systematic synthesis
- 
- Same applies for a qualitative review...can't just be a description of random papers

# The search (n=385)

Concepts...

- ✓ Implementation
- ✓ Infection prevention, HAI
- ✓ Hospital
- ✓ Qual methods

## Example Search Terms – Scopus

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((TITLE-ABS-KEY(routin* or normali* or integrat* or facilitat* or barrier* or implement* or adopt*) AND TITLE-ABS-KEY("infection prevention" or "infection control" or "healthcare associated infection*)) AND TITLE-ABS-KEY(hospital)) and ((TITLE-ABS-KEY((((("semi-structured" or semistructured or unstructured or informal or "in-depth" or indepth or "face-to-face" or structured or guide) w/3 (interview* or discussion* or questionnaire*)))) OR TITLE ABS KEY(focus group* or qualitative or ethnograph* or fieldwork or "field work" or "key informant")) AND PUBYEAR > 2004 AND (LIMIT-TO(LANGUAGE,"English")))
```



# Reviewing articles – a team effort!

- Remove duplicates
- Primary screen (title and abstract) – e.g. exclude studies not looking at implementation of hospital infection control programs, articles with no qual info
- Full text review(n=34)
- Directed content analysis – extract relevant information about process of implementation – treat results section as qualitative data
- CASP checklist to assess quality

# Eppi Reviewer – helps to keep track

	Authors	Title	Year
Go	Beckman Chantal ; Merck Patricia	Barriers and bridges to infection prevention and control on a surgical unit at a Netherlands hospital and a Canadian hospital: A comparative case study analysis	2014
Go	Conway Laurie J; Ravels Victoria	Tensions inherent in the evolving role of the infection preventionist	2013
Go	Danachroder L J; Banaszak-Hall	The role of the champion in infection prevention: results from a multisite qualitative study	2009
Go	Elder N C; Brungs E Ms; Nagy M J	Intensive care unit nurses' perceptions of safety after a highly specific safety intervention	2008
Go	Francgan Fandy E; Welsh Cathen	A national collaborative for reducing health care-associated infections: Current initiatives, challenges, and opportunities	2011
Go	Gagliardi A R; Bakoussis C ; Hahn	Identifying opportunities for quality improvement in surgical site infection prevention	2008
Go	Garcia-Williams A G; Miller L J; Is	beyond 80: lessons learned from implementation of the department of veterans affairs methicillin-resistant staphylococcus aureus prevention initiative	2010
Go	Harrod M ; Hanzelovich M ; Kawa	Unique factors rural veterans' affairs hospitals face when implementing health care-associated infection prevention initiatives	2014
Go	Klein S J; Danachroder L J; Kow	The influence of organizational context on quality improvement and patient safety efforts in infection prevention: a multi-center qualitative study	2010
Go	Klein S J; Kowalski C P; Harrod P	Barriers to reducing urinary catheter use: A qualitative assessment of a statewide initiative	2013
Go	Kyritsis Y ; Ahmad R ; Holmes A	Making sense of evidence in management decisions: The role of research-based knowledge on innovation adoption and implementation in healthcare: study protocol	2012
Go	LeMasler C H; Hoffman N ; Chafe	Implementing the central venous catheter-infection prevention bundle in the emergency department: Experiences among early adopters	2014
Go	Lloyd-Smith Elisa ; Curtis Jim ; C	Qualitative evaluation and economic estimates of an infection control champions program	2014
Go	Lyles R D; Moore N M; Weiner S I	Understanding staff perceptions about Klebsiella pneumoniae carbapenemase-producing Enterobacteriaceae control efforts in Chicago long-term acute care hospitals	2014
Go	McAisney Ann; Scheetz Helmer	Facilitating central line-associated bloodstream infection prevention: A qualitative study comparing perspectives of infection control professionals and frontline staff	2014
Go	Ranilla Jacqueline ; Clarke Mich	Infection control nurses' perceptions of the codes of hygiene	2011
Go	Ravels V H; Conway L J; Uchida I	Integrating infection control guidelines into practice: implementation process within a health care institution	2014
Go	Rende M J; Hesselbeck R ; Frey	Reduction of central line infections in Veterans Administration intensive care units: An observational cohort using a central infrastructure to support learning and improvement	2011
Go	Saint S ; Kowalski C P; Forman J	A multicenter qualitative study on preventing hospital-acquired urinary tract infection in US hospitals	2008
Go	Saint S ; Gimsher R N; Fahn M G	Treating health care-associated urinary tract infection prevention research into practice via the bladder bundle	2009
Go	Saint S ; Kowalski C P; Banaszak	How active resistors and organizational constraints affect health care-associated infection prevention efforts	2009
Go	Saint S ; Kowalski C P; Banaszak	The importance of leadership in preventing healthcare-associated infections: results of a multisite quantitative study	2010
Go	Saint-Senjay ; Fowler Karen E; S	Introducing the No Preventable Harms campaign: Creating the safest health care system in the world, starting with catheter-associated urinary tract infection prevention	2015
Go	Sax H ; Clack L ; Touvenou S ;	Implementation of infection control best practices in intensive care units throughout Europe: a mixed method evaluation study	2013
Go	Scheck McAisney ; Ann ; Hahn	Preventing Central Line-Associated Bloodstream Infections: A Qualitative Study of Management Practices	2015
Go	Shah N ; Castro-Sanchez E ; Uba	Towards changing healthcare workers' behaviours: a qualitative study exploring non-compliance through appraisals of infection prevention and control practices	2015
Go	Siegel Ben ; Kahn Katherine L;	Regional Interventions to Eliminate Health Care-associated Infections	2014
Go	Stone P W; Pogorzelska M ; Grah	California hospitals' response to state and federal policies related to health care-associated infections	2011

Important to have a theoretical  
framework to follow for extraction and  
synthesis

# NPT NORMALIZATION PROCESS THEORY

## What is NPT?

A way of thinking about implementation problems that focuses on:

- How interventions can become part of everyday practice.
- How different groups of people need to work together to achieve it.

## How do I use it?

Thinking of your intervention, use the four sets of questions on the right to identify possible barriers to successful implementation, and suggest solutions to improve the process.

[www.normalizationprocess.org](http://www.normalizationprocess.org)



Prof Carl May – University of Southampton

So far.....

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*How do people make sense of intervention as something "new" ?  
(eg. what it involves, why?)*

*How do people get involved and stay committed?  
Can they see how they contribute?*

*What work needs to be done?*

*How do people make it work in practice?  
What do they need to make it happen?*

*How do people assess whether it is worth the effort?  
Can improvements be made?*



# Where to from here?

- ✓ Finish data extraction and synthesis
- ✓ Disseminate results widely!

Questions?