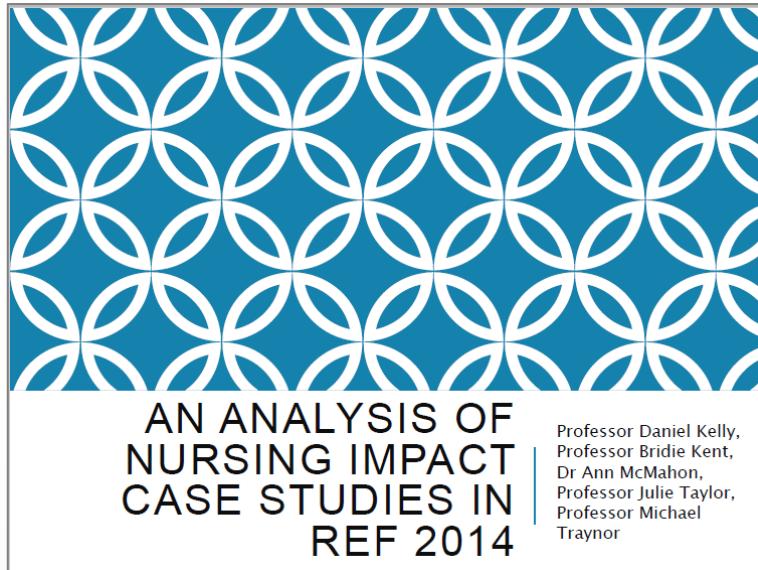


The research-policy interface: ‘safe-staffing’ as an example

RCN International Research Conference
Oxford

Jane Ball
6th April 2017

Research-policy interface...?



Research Excellence Framework – ‘Impact’

“an effect on, change or benefit to the economy, society, culture, public policy or services, health, the environment or quality of life, beyond academia” (HEFCE 2012)

<http://www.hefce.ac.uk/rsrch/REFimpact/>

“Incorporating relevant research findings into policy & practice decisions should be central”

WHITTY, C. J. 2015. What makes an academic paper useful for health policy? *BMC Medicine*, 13, 1.

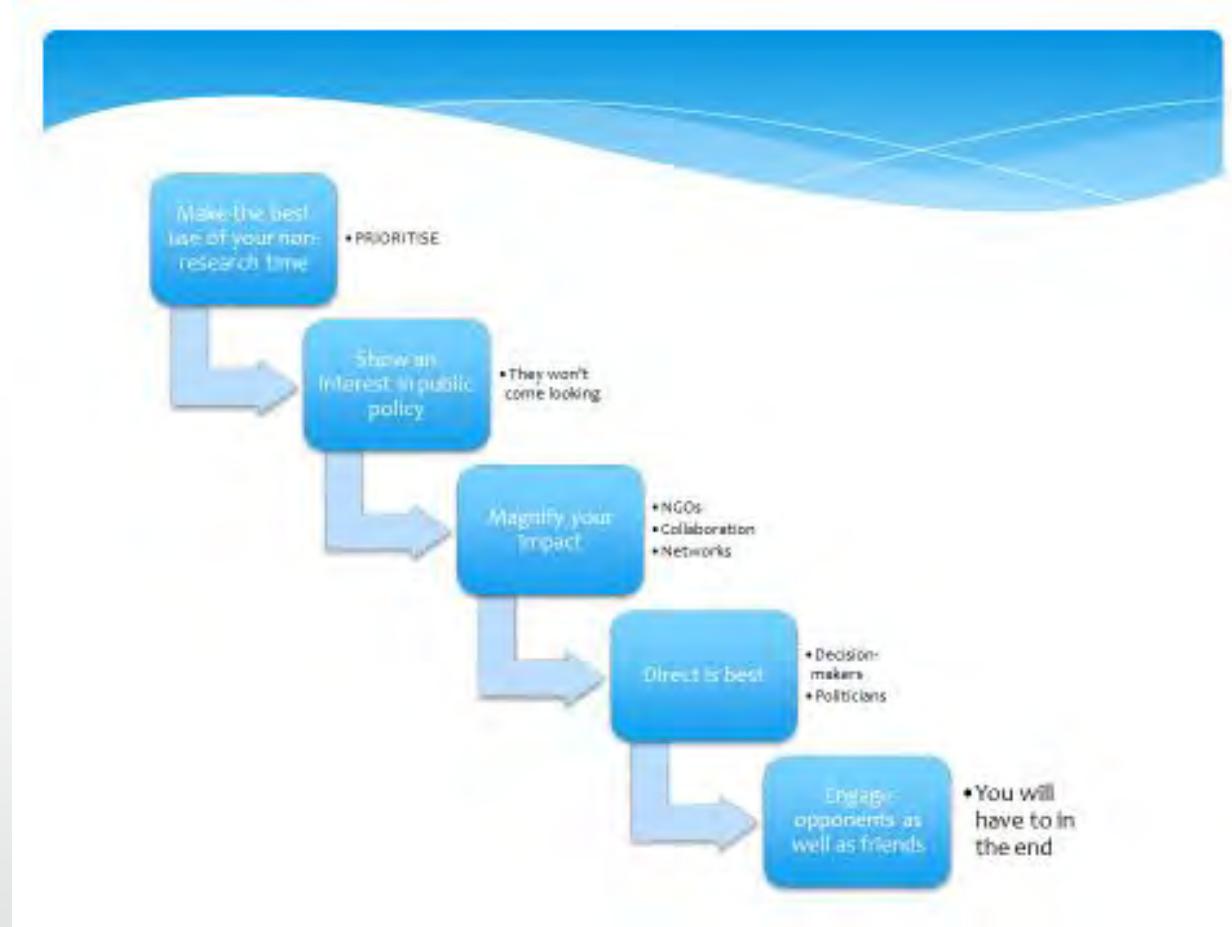


What gets in the way of impact?

1. Wrong research
 - Not addressing key questions for policy makers
 - Right question, wrong design/poor execution
2. Right research – wrong output: potentially useful research but findings not presented in a way that is useful to policy
3. Policy makers ‘unwilling or unable to take account of good existing evidence’

WHITTY, C. J. 2015. What makes an academic paper useful for health policy? *BMC Medicine*, 13, 1.

“Real-world impact” Policy maker’s perspective



Policy master class with John Denham ‘Real-world Impact’ – a simple toolkit.
Public Policy, University of Southampton. 2016.

“Real-world impact” Policy maker’s perspective



Research-policy interface?



Research-policy interface?

 HOUSES OF PARLIAMENT www.parliament.uk/universities

Research, Impact and the UK Parliament

Wifi network:
Username:
Password:

Gavin Costigan: Public Policy | Southampton
Naomi Saint: UK Parliament Universities Programme
Chris Shaw: Clerk, Business, Energy and Industrial Strategy Select Committee

#RIUKP @



House of Commons Health Committee

Workforce Planning

Fourth Report of Session 2006–07

Volume I

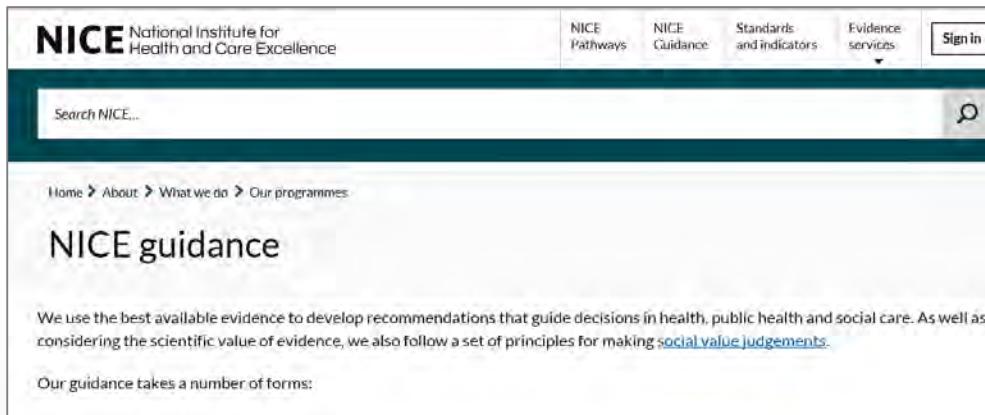
Who makes & shapes nursing workforce policy in England?

- Secretary of State for Health
- Department of Health (Nursing advisory unit?)
- NHS England
- Chief Nursing officer
- NHS improvement
- Health Education England

Who reviews/scrutinises nursing workforce policy?

- National Audit Office (NAO)
- Migration Advisory Committee (MAC)
- Health Select committees
- Regulators: Care Quality Commission / (Monitor)
- Efficiency reviews: eg. Carter review

Research-policy interface: NICE - using evidence to develop guidelines



“We use the best available evidence to develop recommendations that guide decisions in health, public health and social care. As well as considering the scientific value of evidence, we also follow a set of principles for making social value judgements.”

Research evidence base

- In the 1980's... eg.
 - Hinshaw et al (1981) 'Staff, patient and cost outcomes of all RN staffing'
 - Fagin (1982) 'Nursing as an alternative to high cost care' (review of 51 studies)
 - Hartz et al (1989). Hospital characteristics and mortality rates. *The New England Journal of Medicine*.
- Links to 'magnet' hospital research
 - Aiken, L. H., Smith, H. L., & Lake, E. T. (1994). Lower Medicare mortality among a set of hospitals known for good nursing care. *Medical care*.
 - Scott, J., Sochalski, J., & Aiken, L. (1999). "Review of magnet hospital research: findings and implications for professional nursing practice." *J. of Nursing Administration*
- International Hospital Outcomes Study (5 countries)
 - Aiken, L. H., Clarke, S. P., & Sloane, D. M. (2002). Hospital staffing, organization, and quality of care: cross-national findings. *Nursing outlook*, 50(5), 187-194.
- Thirty years later: RN4Cast (15 countries)
 - Aiken, L. H., Sloane, D. M., Bruyneel, L., et al (2014). Nurse staffing and education and hospital mortality in nine European countries. *The Lancet*

Kane et al's systematic review

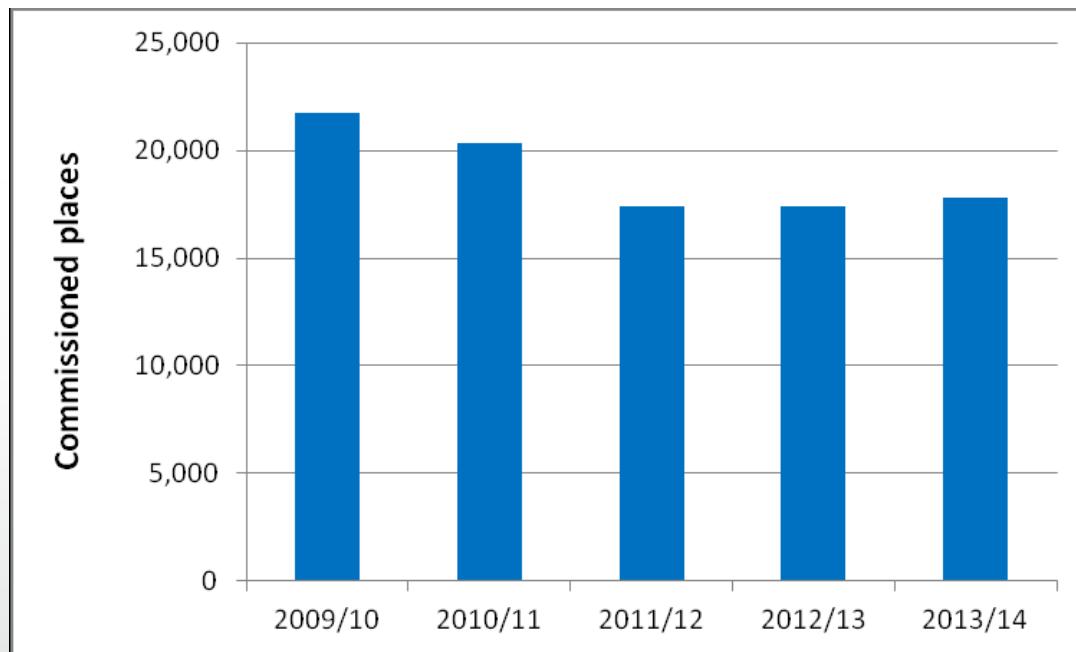
- 96 studies
- Meta-review of 28
- Increased RN staffing was associated with lower hospital related mortality
 - intensive care units (OR 0.91 CI 0.86–0.96)
 - surgical units (OR, 0.84; 95% CI, 0.80–0.89),
 - medical patients (OR, 0.94; 95% CI, 0.94–0.95)

*Lack of staff is often an excuse for poor care.... there is **no direct correlation** between number of staff and good or bad care*



Harry Cayton, CHRE regulator, HSJ March 2012

Nursing student places commissioned England - 2009/10 to 2013/14



Source: Nursing Standard, vol. 27, no. 39, May 29 2013, p12-13

Crisis in nursing care

The screenshot shows the homepage of the Mid Staffordshire NHS Foundation Trust website. The header features the trust's name and the NHS logo. A large banner image with the text "forward together" is displayed, showing two hospital buildings: Cannock Chase Hospital and Stafford Hospital. The left sidebar contains a search bar, a "go" button, and a menu with links to Home, For Patients, Visiting Us, Our Services, For GPs, Foundation Trust, Work for us, and About our Trust. The main content area includes sections for NHS Direct (phone number 0845 Direct 4647), NHS choices, and the NHS Counter Fraud Service. There are also links for For Patients (Inpatients, Infection Control, Mortality Rate, Wards) and Our Services (Clinical Services, Consultants, Accident and Emergency, Give us your Suggestions). The bottom right corner of the page has a red diagonal watermark reading "400-1200 excess deaths?".

Francis Inquiry found:

“There does not appear to have been an evidence base for the changes that were made.

The attraction of the advantages – the financial savings – discouraged proper attention being paid to the disadvantages”

Robert Francis:

*“So much of what goes **wrong in our hospitals is likely**, and indeed it was, in many regards, the case in Stafford, **due to there being inadequate numbers of staff**, either in terms of numbers or skills”*

Strengths & weaknesses of the evidence

The image shows a screenshot of a journal article from the International Journal of Nursing Studies. The article is titled "Nurse staffing and patient outcomes: Strengths and limitations of the evidence to inform policy and practice. A review and discussion paper based on evidence reviewed for the National Institute for Health and Care Excellence Safe Staffing guideline development". It features contributions from Peter Griffiths, Jane Ball, Jonathan Drennan, Chiara Dall'Ora, Jeremy Jones, Antonello Maruotti, Catherine Pope, Alejandra Recio Saucedo, and Michael Simon. The abstract discusses the relationship between low nurse staffing levels and adverse outcomes, mentioning the National Institute for Health and Care Excellence guideline on safe staffing in acute hospital wards. The article is published in the International Journal of Nursing Studies, volume 63, pages 213-225, in 2016.

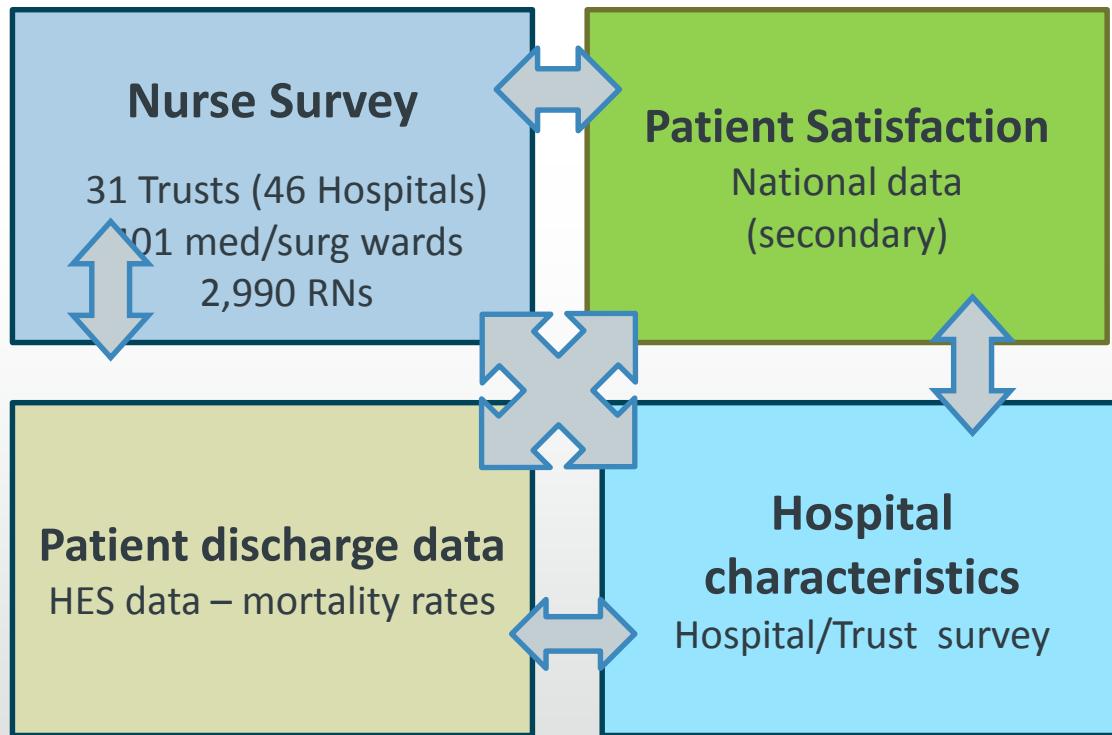
- Omitted variables
- Simultaneity
- Common-method variance

Griffiths P, Ball J, Drennan J, Dall'Ora C, et al. (2016) Nurse staffing and patient outcomes: strengths and limitations of the evidence to inform policy and practice. IJNS 63:213–25.

More research needed?

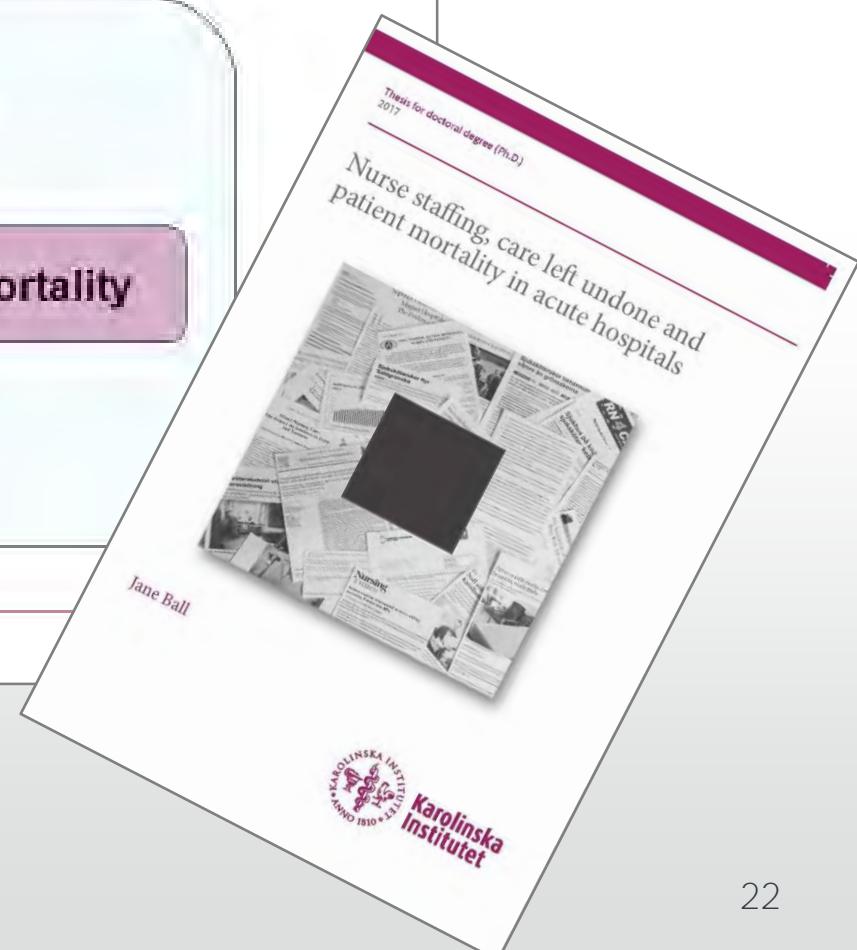
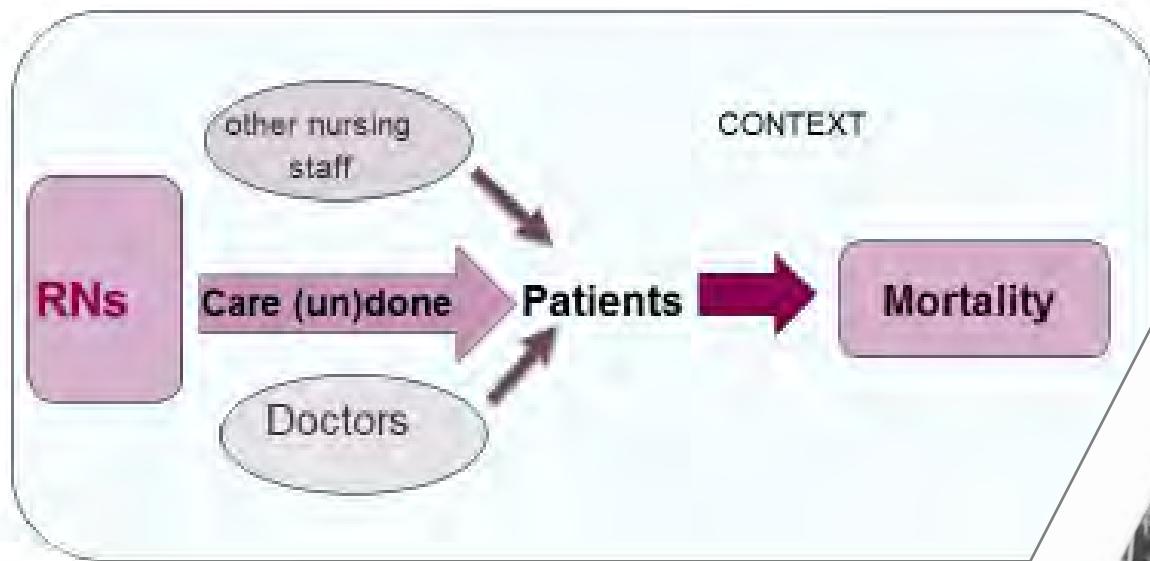
- Predominance of research from USA
- What about other staff? Possible confounding:
 - Medical staffing
 - Support worker staffing
- **What ‘dose’ of RN staffing is associated with effects on safety, quality, outcomes?**
- What difference does the context make?
- Correlation does not equal causation – what is the theoretical causal pathway?

3 year EU-funded study: 2009-2011



15 countries

Nurse staffing levels, care left undone & patient risk of death in hospital



Being proactive at the interface: presenting the evidence differently



“A ratio of more than 8 patients per RN significantly increases the risk of harm and constitutes a breach in patient safety”

May 2013

Reaction to research findings



'Care left undone' during nursing shifts: associations with workload and perceived quality of care

Jane E Ball,¹ Trevor Murrells,¹ Anne Marie Rafferty,² Elizabeth Morrow,¹ Peter Griffiths³

► Additional material is published online only. See <http://dx.doi.org/10.1136/medact-2012-000140>

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Accepted 10 December 2012
Received 3 June 2012
Accepted 6 June 2013

ABSTRACT

Background. There is strong evidence to show that lower nursing staffing levels in hospitals are associated with patient outcomes. One hypothesised mechanism is the limitation of necessary nursing care caused by time pressure ('missed care').

Aim. To examine the nature and prevalence of care left undone by nurses in English National Health Service (NHS) acute wards and to explore the association of missed care episodes associated with nurse staffing levels and nurse ratings of the quality of nursing care and patient safety environment.

Method. Multicentre secondary survey of 2017 registered nurses working in 401 general medical surgical wards in all general acute National Health Service hospitals in England.

Results. Most nurses (85%) reported that one or more care activities had been omitted because of time pressure. This was frequently left undone, least frequently due to time pressure, less frequently due to caring for patients (66%), educating patients (52%) and developing/ updating nursing care plans (47%). The number of patients per registered nurse was significantly associated with the frequency of care left undone ($p<0.001$). A higher proportion of nurses per shift were left undone on wards that rated their 'Safety on patient safety' compared with 2 where patient safety was rated as 'adequate' ($p<0.01$).

Conclusion. Missed care is frequently left undone. Careless, being delayed may be the reason for nurse staffing levels directly affects quality and safety. Hospitals could use a nurse-rated assessment of 'missed care' as an early warning measure to identify wards with inadequate nurse staffing.

INTRODUCTION
The National Health Service (NHS) in England, like many healthcare systems in the world, is facing intense pressure to maintain the quality and safety of care provided in hospitals at the same or less

cost than in previous years.¹ The quality of nursing care—and the potential for poor nursing care to do patients great harm—has been well documented in recent reports in England.^{2,3} Poor quality care is a source of significant increased cost internationally.⁴ The Francis Inquiry⁵ examined the reasons why hundreds of patients experienced poor care at The Royal Free Hospital NHS Foundation Trust between January 2005 and March 2009. The Inquiry was triggered when hospital standardised mortality ratios (case mix adjusted mortality rates) indicated that quality of care in 2005–2006 was worse than expected had been over a 2 year period. Numerous patient accounts were heard by the Inquiry including negative experiences of fundamental aspects of care delivery such as care and communication, respect, dignity, discharge planning and safety. Failure to ensure adequate nurse staffing was a central factor identified in the report.

There is also a growing concern about the role of potential problems in care delivery across the NHS and internationally. There is also a need to understand mechanisms which link nurse staffing to quality of safety outcomes, including the loss of human names and extent of care that might be being 'left undone'.⁶ The purpose of this study is to describe the nature and prevalence of care left undone (as reported by nurses) and explore the association of care left undone level and nurse ratings of the quality of care and patient safety environment.

BACKGROUND
The evidence demonstrating an association between patient outcomes and nurse staffing is substantial. A systematic

July 2013

Almost nine in ten nurses 'forced to ration care'

Monday 29 Jul 2013 11.30 pm

198 shares [Share on Facebook](#) [Share on Twitter](#)



Nurses say they are being forced to ration care (Picture: Getty)

theguardian

News | Sport | Comment | Culture | Business | Money | Life & style

News > Society > NHS

Time-poor NHS nurses forced to ration care, study finds

Study from 76 hospitals and 3,000 nurses shows nine in 10 staff are too busy to fulfil all care duties

Press Association
[theguardian.com](#), Tuesday 30 July 2013 08.58 BST

[Jump to comments \(27\)](#)



Nurses in NHS hospitals say there are often too few to deliver all care duties

MailOnline

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Two-thirds of nurses are 'too busy to talk to patients' and 80% admit to rationing care

- 80% 'forced to ration their care because they are too pressed for time'
- Aspect of role most likely to disappear is comforting patients
- Study questions 3,000 nurses working in more than 400 wards

By JENNY HOPE

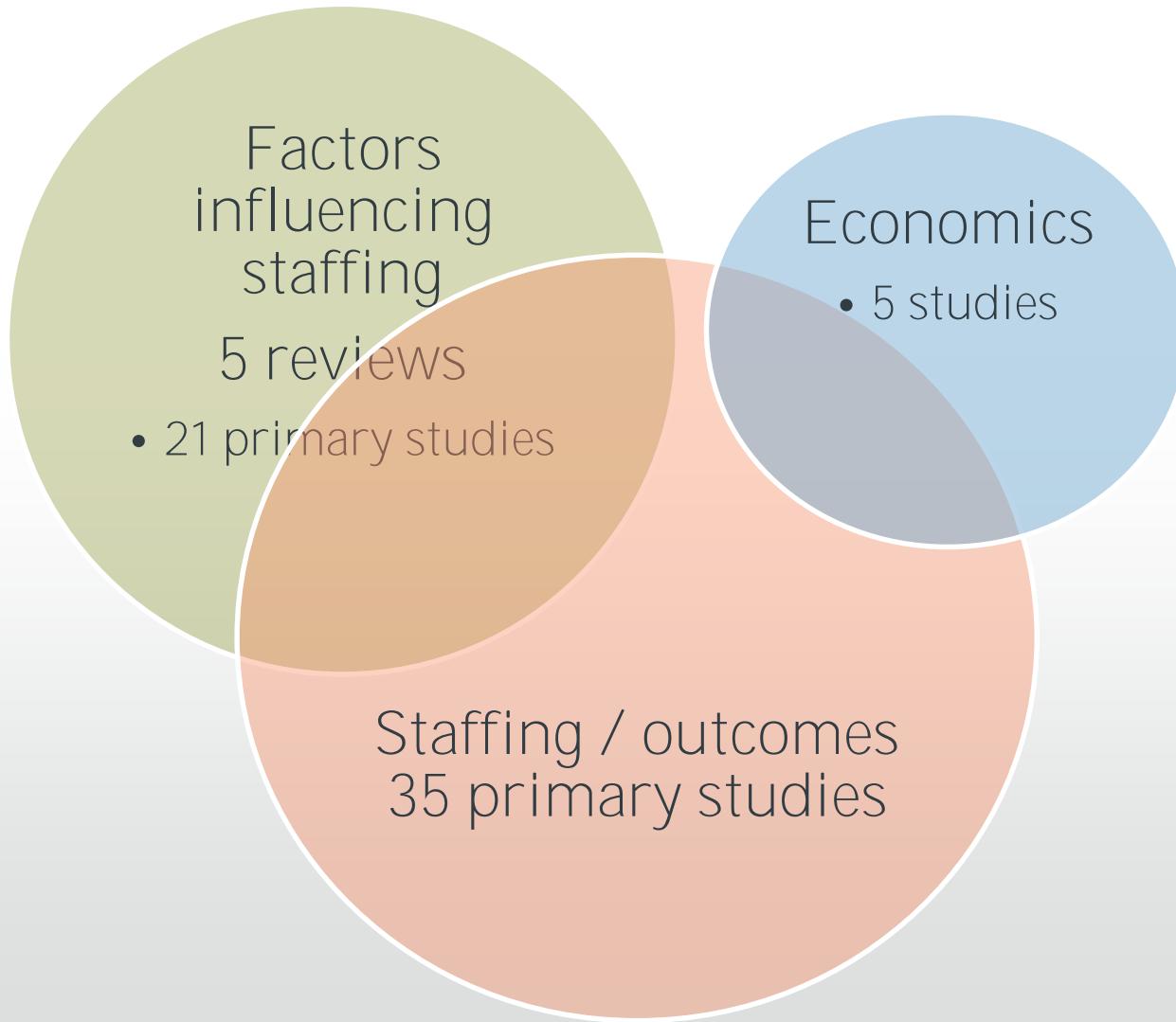
PUBLISHED: 00:59, 30 July 2013 | UPDATED: 09:26, 30 July 2013



Government response to Francis Report: Nov 2013

- NICE to undertake a review of the evidence and provide guidelines for safe staffing in each specialty (July 2014 – “**red flag**’ triggers for review)
- Staffing levels in each Trust to be published
- Nurse staffing on each ward to be made visible

Review of Evidence for NICE



Safe staffing policy post Francis

- Policies refer to ‘Safe staffing’
- National Quality Board guidelines
- Trust ‘fill-rates’ published
- NICE Guidelines published (2014)
- DH-PRP Study to examine the implementation of safe staffing policies post Francis



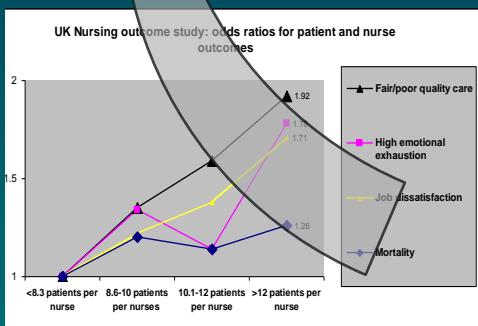
SAFE STAFFING ALLIANCE

Profile of evidence



Crisis

400-1200 excess deaths?



Existing evidence



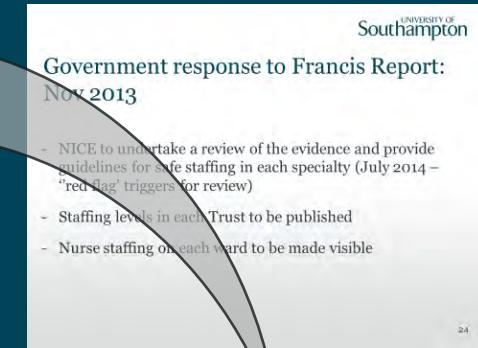
Each extra patient per RN, increased the risk a patient dying by 7%

UNIVERSITY OF Southampton
RN4CAST

Media/public awareness



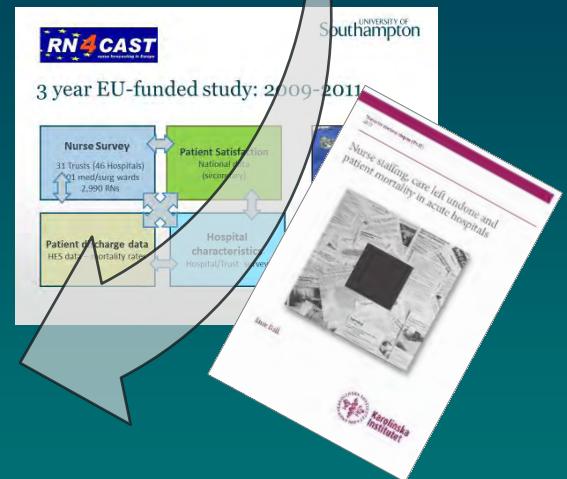
Evidence based guidelines



Government response to Francis Report: Nov 2013

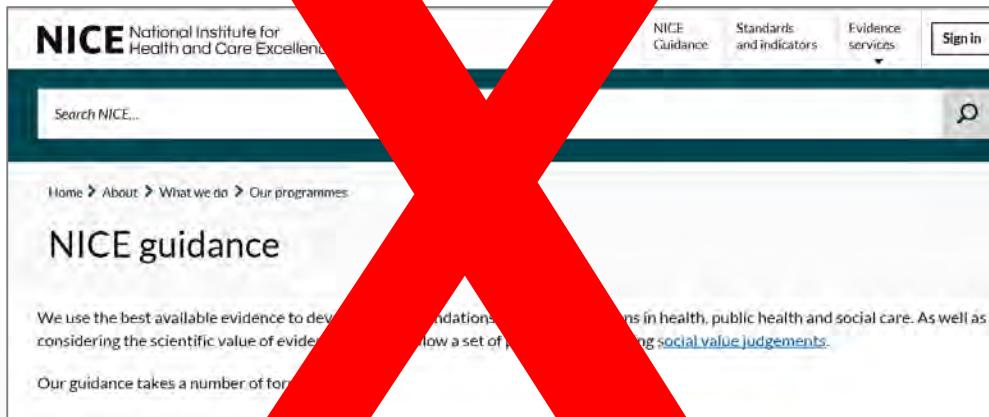
- NICE to undertake a review of the evidence and provide guidelines for safe staffing in each specialty (July 2014 – 'red flag' triggers for review)
- Staffing levels in each Trust to be published
- Nurse staffing on each ward to be made visible

Public inquiry & Policy Response



New research

NICE evidence based guidelines on Safe Nurse staffing levels



“We use the best available evidence to develop recommendations that guide decisions in health, public health and social care. As well as considering the scientific value of evidence, we also follow a set of principles for making social value judgements.”

Safe staffing in England – policy shifts?

- NICE guidance discontinued by NHS England (June 2015)
- Only fill ‘essential’ vacancies (Aug 2015)
- Trusts told to ‘cap’ the amount spent on temporary staffing (Aug 2015)
- Health Education England commission 300 of the 3,000 extra RN training places needed (Dec 2015)
- Nursing Associates to “bridge the gap” (Dec 2015)
- Migration Advisory Committee: shortage of nurses is NHS own making
- Care Hours per Patient Day - CHPPD (April 2016)
- NHS Improvement guidance: “Safe SUSTAINABLE staffing” (Dec 2016)
- Ban on nurses working agency (March 2017)

Decision making on nurse staffing levels –
in the ‘real’ world

“Safety at all costs” ?

VS.

“Finance trumps quality” ?

Bigger messier picture

- Its not linear: Research -> “Evidence” -> Policy
- Other factors shape policy
- Context – the politics of policy development
- Direct and indirect lever for policy change (public, media)
- Active policy formation vs policy evolution
- Multiple interfaces

Conclusion:

Has research on nurse staffing impacted on Policy?

What's the role of research and researchers?

Thank you!

Any questions?

jane.ball@soton.ac.uk



@janeEball