Public Policies: Influence of regulators and targets

Dr J Richards,

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Past president, IFIC



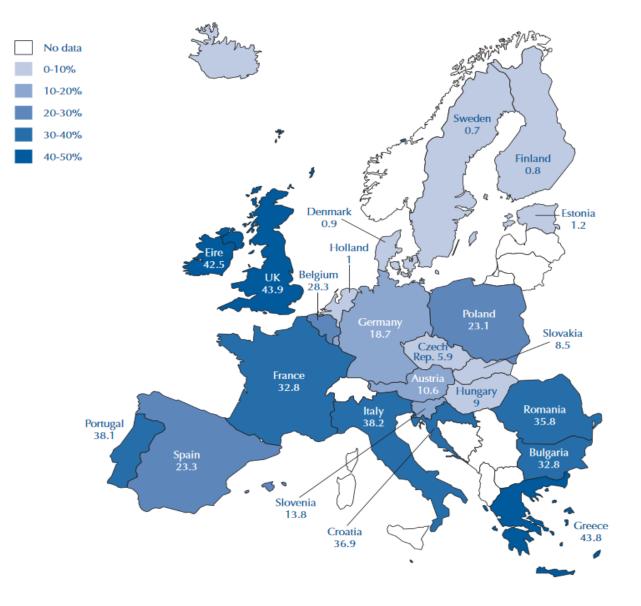








A brief look back...



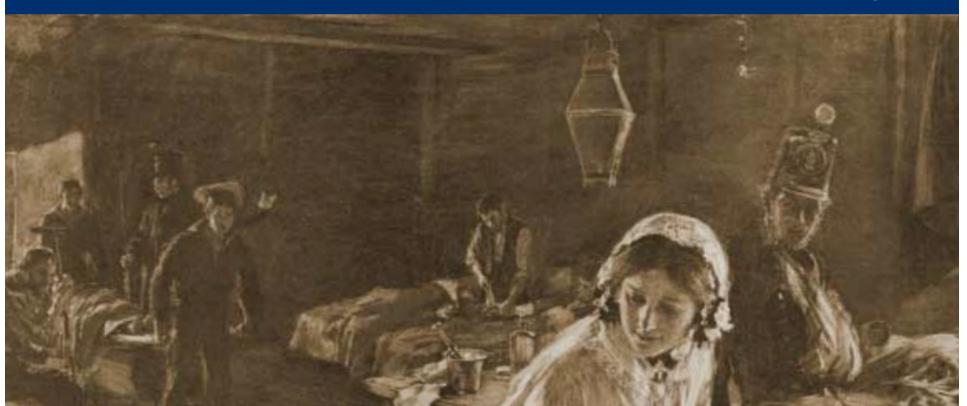
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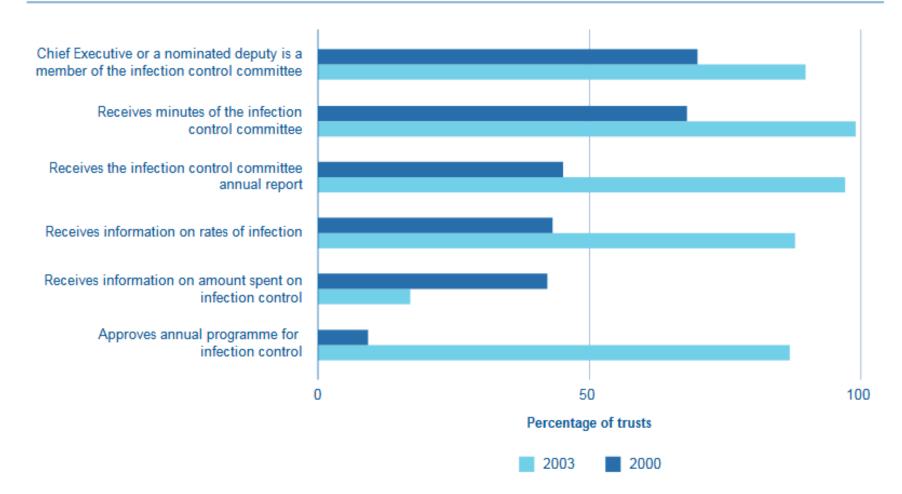
Data on levels of MRSA bloodstream infections as a proportion of all *Staphylococcus aureus* bloodstream infections show that the United Kingdom is amongst those with the highest levels in Europe.



Improving patient care by reducing the risk of hospital acquired infection: A progress report

REPORT BY THE COMPTROLLER AND AUDITOR GENERAL HC 876 Session 2003-2004: 14 July 2004





In general, the chief executives' awareness of infection control has increased in the last five years

Source: National Audit Office census of acute NHS trusts, - comparing the results presented in our 2000 report (based on our autumn 1998 survey) with the results from our summer 2003 survey

Media & Patient expectations



BBC

One-Minute World News

Last Updated: Friday, 5 November, 2004, 12:39 GMT

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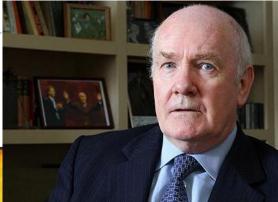
Hospital superbug must be halved

Bloodstream infections with the hospital superbug MRSA must be halved in three years, the government has said.

Health Secretary John Reid tasked NHS hospitals with achieving a year on year reduction up to and beyond March 2008.











Report from the Chief Medical Officer

Winning Ways

7 key action areas

- Active surveillance and investigation
- Reducing the infection risk from use of catheters, tubes, cannulae, instruments and other devices
- Reducing reservoirs of infection
- High standards of hygiene in clinical practice
- Prudent use of antibiotics
- Management and organisation
- Research and development

Winning Ways. DH/CMO. Dec 2003

Saving Lives: reducing infection, delivering clean and safe care



Reducing healthcare associated infections: from trust board to ward

A summary of best practice



Best practice

- Key Clinical Areas (Renal, Orthopds., Cardio vasc, ITU. etc)
- High Impact Interventions (CVCs, HD, surgery)
- Increased resources
- Management involvement
- Audit & Assessment tools



... should have asked what they exactly meant with "traditional management style"

Healthy Lives, people: Healthy People How to Guide 2 1000 LIVES OFYWYDAU Improving care, delivering quality (DH UK 5 Year Antimicrobial (Resistance (AMR) Strategy 12013-2018 Reducing Healthcare Associated Infections Annual progress report, 2015

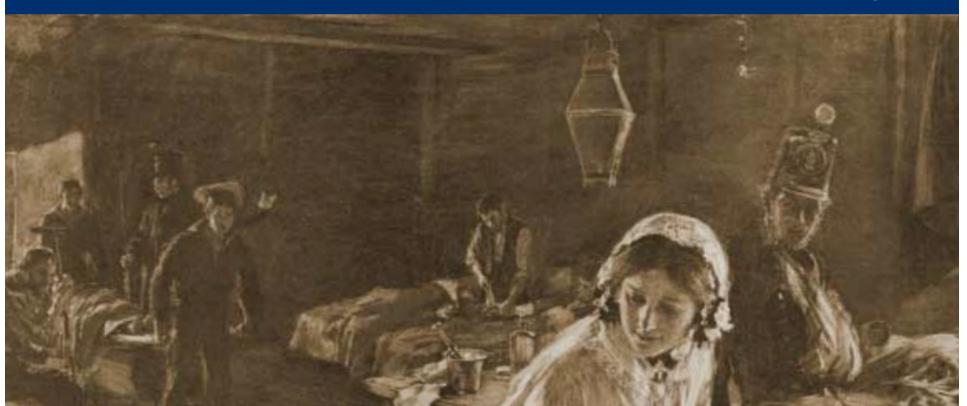
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Figure 5: Timeline of selected interventions to reduce HCAIs and improve IPC



Improving patient care by reducing the risk of hospital acquired infection: A progress report

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Hospital Acquired Infection is now a 9 National Health Service Priority Departmental Initiatives have raised the profile 9 and the priority of infection control There is a greater emphasis on 10 performance monitoring "Winning Ways" re-emphasises the need for 10 infection control to be given a high priority through a set of "must do" actions Other countries have developed strategies for 12 preventing hospital acquired infection in response to increased awareness of risks

Despite a higher profile at NHS trust 13 level, wider factors stand in the way of improving infection control

Infection control has generally had a higher 13 profile in most NHS trusts

Wider factors complicate prevention and control 19

Changing clinician and other staff behaviour in order to reduce risks requires multiple approaches to prevention

Better and more consistent information that is owned by NHS clinical staff is crucial to improving practice

Reducing risks requires multiple approaches to 34 prevention but barriers to effective practice remain

33

33

There is a need for improved awareness and 44 uptake of technological innovation to engineer out risks



Lou Atkins

RESEARCH ARTICLE

Use of an Innovative Personality-Mindset Profiling Tool to Guide Culture-Change Strategies among Different Healthcare Worker Groups

RESEARCH AR HULE

Use of an Innovative Personality-Mindset Profiling Tool to Guide Culture-Change Strategies among Different Healthcare Worker Groups

M. Lindsay Grayson^{1,2,3,4}*, Nenad Macesic¹, G. Khai Huang¹, Katherine Bond¹*, Jason Fletcher⁵, Gwendolyn L. Gilbert^{6,7}, David L. Gordon⁸, Jane F. Hellsten⁵, Jonathan Iredell^{6,7}, Caitlin Keighley⁶, Rhonda L. Stuart⁹, Charles S. Xuereb¹⁰, Marilyn Cruickshank¹¹





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Journal of Hospital Infection

journal homepage: www.elsevierhealth.com/journals/jhin



Lowbury Lecture 2013

Cultural determinants of infection control behaviour: understanding drivers and implementing effective change

M.A. Borg*

Mater Dei Hospital and University of Malta, Msida, Malta



Making the Case for Laws That Improve Health: A Framework for Public Health Law Research

Scott Burris, Alexander C Wagenaar, Jeffrey Swanson, Jennifer K Ibrahim, Jennifer Wood, and Michelle M Mello

- Law is a prominent intervention tool to achieve particular public health goals.
 - Regulation
 - Target setting
 - Expectations
- **BUT**.....Laws and their implementation also have <u>important</u> <u>unintended effects</u>, both positive and negative, on population health.

LUDDITE ?

An opponent of industrial change or innovation



The Kings Fund>

 Many of the <u>targets have been met</u> or seen considerable progress, but......

 Evidence of <u>unintended consequences</u> – for example, distortion of priorities or neglect of other non-targeted activities

Unintended consequences:

- The four-hour target for waiting times in accident and emergency (A&E) has led to distortions such as holding emergency patients in trolley waiting areas.
- Media reports based on internal ambulance service documents suggest that some patients have been held in ambulances outside emergency departments, to avoid 'starting the clock'
- Surgical targets have been blamed for distorting clinical priorities:

-clinicians felt that "attempts to meet maximum waiting times targets can clash with their own clinical judgments concerning when to admit patients from waiting lists"

Targets in Infection Control- success?

Infection control targets <u>have been successfully met</u>, but apply to a <u>limited range of infections and at-risk</u> <u>populations</u>

MRSA has been the focus of media attention was the first healthcare-acquired infection for which a target was set,

But..... <u>accounts for only 2 per cent</u> of healthcareacquired infections in the NHS (<u>Millar M 2009</u>).

Questions:

- Evidence base?
- Definitions?
- Non biased evidence of effectiveness?

Bare below elbows: Common sense or nonsense?

Epidemiologist makes the case for 'biological plausibility'



- Dearth of data to support the practice/requirement
- Relying on the "audacity of hope".....

LEADER

Pants, policies and paranoia...

S.J. Dancer



"Recent dress codes appear to have been **imposed more as a political gesture** than as *evidence-based strategies* likely to reduce HAIs."

"At best they can be described as 'informed common sense' - a level of **evidence** just above guesswork."

Journal of Hospital Infection (2010) 74, 10-15



Evidence scan: The impact of performance targets within the NHS and internationally

Central theme	Chosen targets
Creating and embedding targets	Improving Access to Psychological Therapies (IAPT)
When targets are successful and lead to quality improvement	Health care-associated infections (HCAIs)
Unintended consequences of performance targets	Accident and Emergency (A&E) (four-hour target)
When targets are ambitious and prove difficult to meet	Health inequalities

A&E WAITING TIMES

Clear guidelines are important

Some of those involved cited unclear guidance as a reason for failure to understand this target.

Both local and national factors must be considered

important to maintain a national and a local view; this should be done in such a way that lines of accountability are clear and there is no confusion over local or national responsibility

Using a range of metrics alongside a target can help to view it in context

Key metrics, alongside a performance target, will present a clearer picture The percentage target result should not be considered in isolation; other outcomes should be considered too. Learning and success cannot always be quantitatively measured, but can be gleaned if there is further exploration of the findings around a given target.

Performance targets can be a proxy for broader failure or success

important tool to trigger self-reflection and change and can also serve as proxies of system-wide performance

International case studies:

• Belgium:

- Targets seen as vague and not measurable
- Limited monitoring- poor development plans
- Limited ownership
- Germany:
 - Targets set collaboratively brought together all stakeholders
 - Concrete recommendations
 - Structured approach, with quality assurance

Internat. Case studies, ctd.

- Netherlands
 - Key indicator setting is outside government control.
 - All stakeholders are required to participate
 - Self-calculated performance indicator scores must be submitted to inspectorate
- New Zealand- A&E waiting times
 - Target improved visibility
 - Staff empowered to progress patients & escalate problems
 - Improved efficiency, improved learning, & brought in resources
 - Unintended consequences identified, balancing effectiveness

INFECTION CONTROL?

- Targets were successfully embedded within a change of organisational culture
- Monitoring progress helped to achieve the targets, as they created a degree of accountability for everyone involved in patient care and allowed changes to be made to achieve them.
- **Financial and other resources played a key role in achieving the targets** There was a sizeable increase in resources dedicated to tackling HCAIs through national initiatives, new equipment and cleaning staff
- Close involvement of management was important

NHS trusts that saw the greatest reductions in HCAIs were those that demonstrated strong leadership at board level as well as effective ward management.

• Close monitoring of performance was effective

The real-time reporting of relevant data enabled individual acute trusts to understand the pattern and prevalence of HCAIs at a local level, which NHS trusts used to concentrate their efforts.

Infection prevention and control: lessons from acute care in England

Towards a whole health economy approach



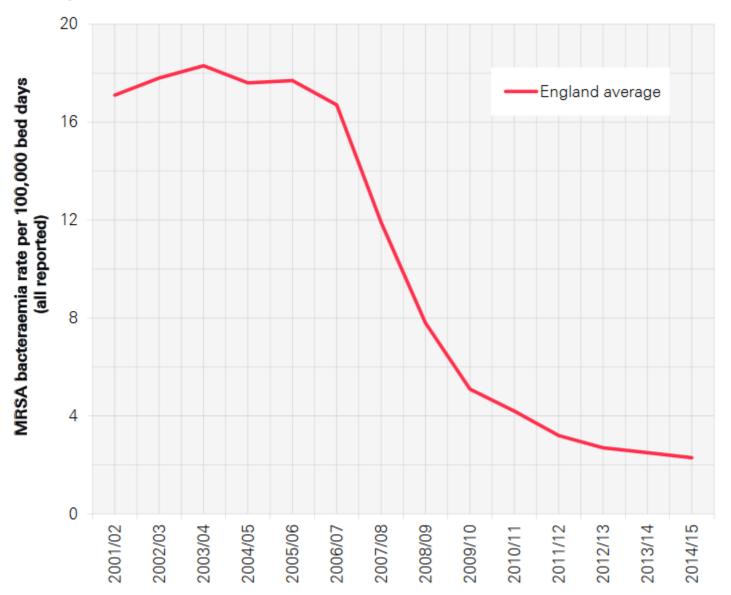
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Figure 5: Timeline of selected interventions to reduce HCAIs and improve IPC

2007	Introduction of bare below the elbows guidance ^{xiii}
	epic2: National evidence-based guidelines for preventing health care associated infections in NHS hospitals in England ^{xiv}
	Surveillance of <i>C. difficile</i> infection extended to all cases in patients aged two and over ^{***}
2008	Patient Safety First ^{xvi}
	Prime minister declared HCAIs a 'top priority' and ordered a programme of deep cleaning
	DH issued Clean, safe care: reducing infections and Saving Lives ^{wii}
	Health and Social Care Act 2008: required registration with the Care Quality Commission: duty to protect patients against HCAIs. New code of practice ^{xviii,xix}
	National target to reduce <i>C. difficle</i> infection by at least 30% by March 2011, compared to the 2007/08 baseline data ^{xx}
2009	Matching Michigan programme ^{∞i}
	Some NHS trusts participated in Commissioning for Quality and Innovation (CQUIN) schemes that made a percentage of their incomes dependent on demonstrating compliance ^{xxii}
2010	Robert Francis Inquiry Report into Mid Staffordshire NHS Foundation Trust (January 2005 – March 2009) ^{wdiii}
2011	Surveillance of <i>Methicillin sensitive S. aureus</i> (MSSA) BSI ^{xxiv}
	Surveillance of <i>Escherichia coli (E. coli)</i> BSI ^{xxx}
2013	Robert Francis Report of the Mid Staffordshire NHS Foundation Trust public inquiry****
	Post-infection reviews for all MRSA BSIs ^{xxvii}
2014	epic3: National evidence-based guidelines for preventing health care associated infections in NHS hospitals in England ^{ocviii}

For details of the references in this timeline, see www.health.org.uk/hcai

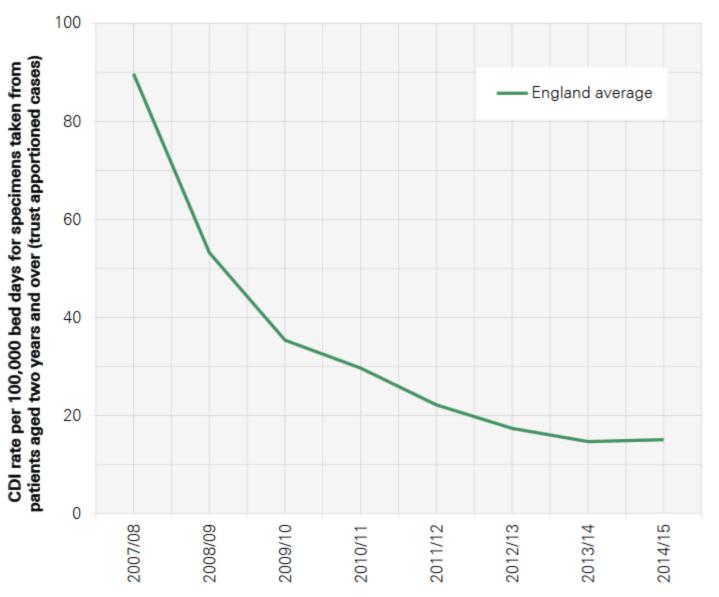
Figure 1: Annual rates of MRSA BSIs for NHS trusts in England per 100,000 bed days, 2001/02–2014/15^{17,18}



MRSA bacteraemia - England







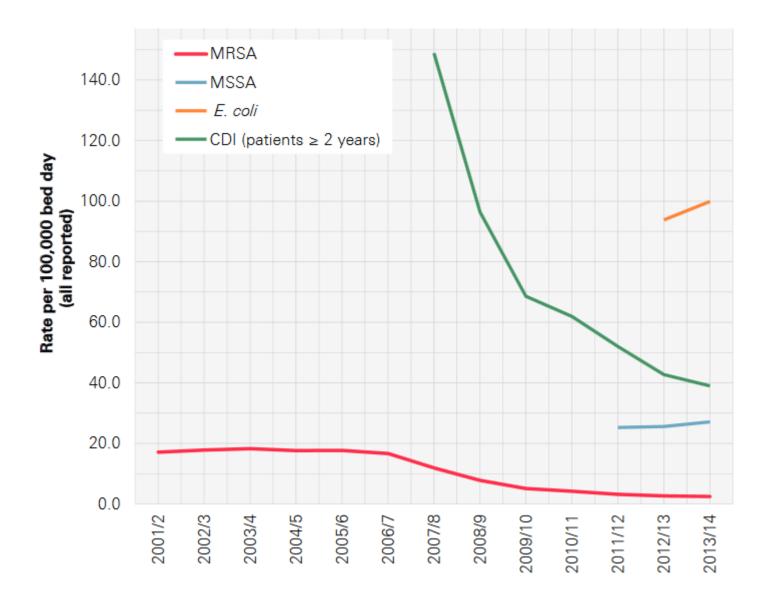


Table 1: Recommended organisational components for effective Infection prevention and control⁴⁰

- 1. Effective organisation of IPC at a hospital level.
- Effective bed occupancy, appropriate staffing and workload, minimal use of pool/ agency nurses.
- Sufficient availability of and easy access to materials and equipment, optimisation of ergonomics.
- 4. Use of guidelines in combination with practical education and training.
- 5. Education and training (involves front-line staff and is team- and task-oriented).
- Organising audits as a standardised and systematic review of practice with timely feedback.
- Participating in prospective surveillance and offering active feedback, preferably as part of a network.
- Implementing IPC programmes following a multimodal strategy, including tools such as bundles and checklists developed by multidisciplinary teams, and taking into account local conditions (and principles of behavioural change).
- 9. Identifying and engaging champions in the promotion of intervention strategies.
- Promoting positive organisational culture by fostering working relationships and communication across units and staff groups.



ASTHO CDC, 2012

States are experiencing reductions in HAI rates and, based on professional judgment, many stakeholders attribute these improvements to public reporting policies.

States conducting data validation expressed greater confidence in the value and accuracy of existing data than those from states without a validation system. While many individuals acknowledged that <u>reporting alone</u> <u>does not change behaviour</u>, stakeholders indicated that

Reporting of infections (surveillance-monitoringbenchmarking) -raised the awareness of facility leadership, &

-elevated the importance of HAI reduction and elimination to priority status for senior executives

- Ensuring a collaborative approach to preventing HAIs from the outset
- Mandating public reporting of HAI rates.
- Standardizing definitions, reporting processes, metrics and evaluation.
- Establishing a set of priority infections for initial focus.

Lessons learnt....

Measures for infection prevention and control need to be **appropriate and responsive**.

Infection prevention and control should remain central to inspection and regulation.

All **national-level campaigns** require an explicit framework underpinning how the campaign is intended to work and **must be accompanied by an evaluation strategy.**

Hospitals must have the **structural and cultural capacity** to deliver effective infection prevention and control and antibiotic usage.

Trusts need to ensure that the **goals** for infection prevention and control and patient safety are **integrated and aligned at the clinical front line**.

Targets and regulations: Conclusions

- Clarity of purpose is a must
- Collaboration and consensus
- Evidence Base
- Governance: clear lines of accountability, performance monitoring
- Wide set of metrics preferably to single measure of success/failure
- Implementation must take into account local & national socioeconomic, institutional and practice context

Journal of Hospital Infection 86 (2014) 1-6



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Review

Organizational culture and its implications for infection prevention and control in healthcare institutions

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Organizational Culture

How it impacts on IP&C related behaviour

Target for IP&C campaigns?





Using cultural approaches to introduce change

Customized OC approaches to ensure maximum impact when introducing changes

Managing crisis (outbreaks) as windows of opportunity

Avoidance of "copy and paste" approaches- Same guidelines may not be applicable to all settings!



Thank you

Any questions?







Last Updated: Friday, 5 November, 2004, 12:39 GMT

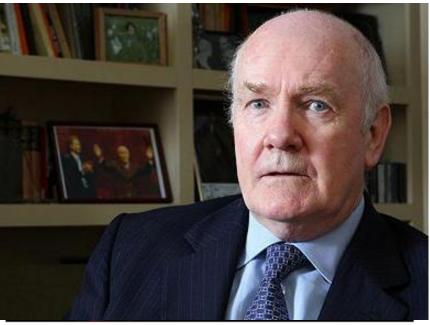
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Hospital superbug must be halved

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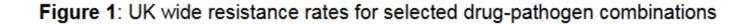
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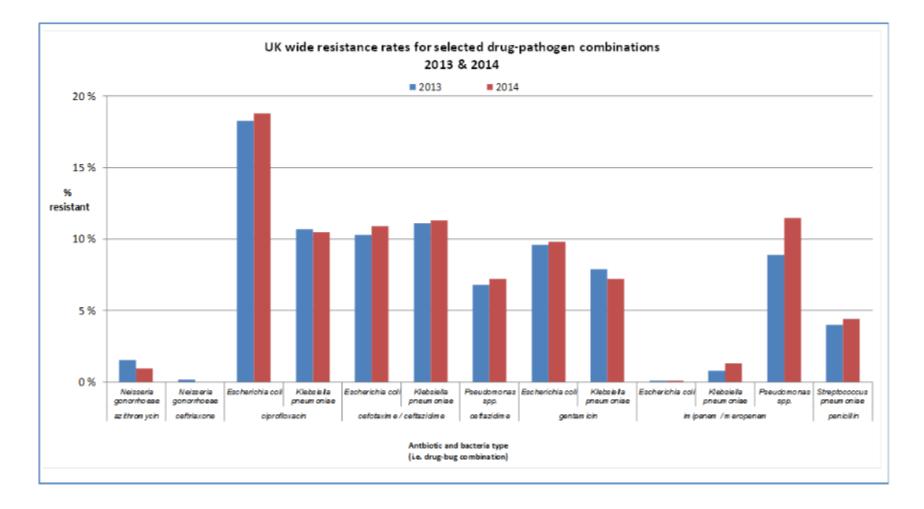


Infection rates are increasing

DH UK 5 Year Antimicrobial Resistance (AMR) Strategy 2013-2018

Annual progress report, 2015





Matching Michigan

Can we replicate it successfully?

NPSA led initiative; Darzi A: *High Quality Care for All: NHS next stage review*. London: Department of Health; 2008

- Regulation
- Keeping patients and the public informed
- Care bundles
- Screening and vaccination strategies

Clinical and managerial leaders of infection prevention and control are needed at all levels in the organisation.

A whole health economy approach is needed for infection prevention and control in future