

# Responsibility for managing HCAs: where does the buck stop?

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Infection is different.....

*.....it spreads!*

# Biology

Microbial populations

Human populations

Human behaviour

# HCAI

- Knows no boundaries across health and social care
- Bacteria move with people
- Affects all health and social care settings
  - Responsibility across the whole health and social care community

# Health and social care community

THE LANCET

- NHS
  - SHAs - performance management
  - PCTs - commissioners and providers
    - General practice
    - Community hospitals
  - Acute Trusts/FTs
  - Mental Health Trusts
  - Ambulance Trusts
- Independent sector
  - Hospitals; independent treatment centres
  - Nursing & care homes
- Health Protection Agency

# England's HCAI challenge 2008.....

MRSA bacteraemia	
2001/2	7291
2002/3	7426
<i>2003/4</i>	<i>7700</i>
2004/5	7212
2005/6	7097
2006/7	6383
2007/8	4438

<i>C. difficile</i> infection, Age >65 years	
2004	44314
2005	51767
<i>2006</i>	<i>55681</i>
2007	50392
<i>2007/8</i>	<i>45334</i>
+ 2 - 64 years	10059

.....*why?*

# 1970 - 2000: a dichotomy

- Microbiology & Infection Control
  - Interesting specialty
  - Plenty to do
  - New infections  
(*C. difficile* 1978)
- BUT
  - the province of the infection specialists
- Modern medicine
  - Increased life expectancy
  - Cancer treatment
  - Complex surgery
  - Chronic illnesses
- Infection - a nuisance

# Reducing HCAI....

## Change the mindset

- From:
  - 1) create a system to deliver specialist clinical care
  - 2) take measures to prevent infection
- To:
  - 1) create a safe environment for patient care
  - 2) deliver specialist clinical care within that environment

# Responsibility for HCAI

- Clinicians
    - *Safe patient care*
    - Diagnosis
    - Treatment
    - Prevention
    - Control
  - Boards/CEO/managers
    - Corporate environment
    - Make it happen
  - Government/DH
    - Set standards
    - Ensure priority
    - Set targets
    - Monitor outcome
    - *Performance management*
- .....*and*

## ..... *legislation*

- Health Act 2006
  - Statutory Code of Practice : all NHS bodies
  - Compliance assessed by the Healthcare Commission
    - Annual healthcheck
    - Improvement notices
    - Annual specialist inspections from 2008-9

# Health and Social Care Act 2008

- Care Quality Commission
- Extends CoP to independent sector and all care settings
- Registration
  - NHS bodies: 2009/10
  - Independent sector 2010/11 (continuation of current registration - Care Standards Act)
- Compliance with revised Code of Practice
  - Effective April 2009
  - Demonstrate compliance with registration
  - Restructured; same content and purpose

# HCAI 2003 - 04

- *Winning Ways* - December 2003
  - Strategy for HCAI
- *NAO Report* - July 2004
  - Critical of slow progress
- *Towards Cleaner Hospitals and Lower Rates of Infection* - July 2004
  - Action plan
  - MRSA target: 50% reduction in bacteraemia by 2008

# MRSA target... *achieved!*

MRSA bacteraemia		Quarterly average
2001/2	7291	
2002/3	7426	
<i>2003/4</i>	<i>7700</i>	<i>1925</i>
2004/5	7212	
2005/6	7097	
2006/7	6383	
2007/8	4438	
<i>2008/9 Q1</i>	<i>836</i>	<i>836 (57% reduction)</i>

# MRSA target - beyond 2008

- Headline message: continue to improve
  - The target is a ceiling
  - Get as much below as possible
  - Year on year reductions
- Zero tolerance approach
  - What is the minimum achievable?
- Mandatory surveillance system will continue
- SHA envelopes for the target
  - SHAs performance manage Trusts within envelope
  - Achieved or better - at least maintain; aim to reduce further
  - Not reached - continue with performance management and monitoring to achieve the target - and beyond

# Zero tolerance.....

- NOT - 'there will be no infections'
  - *Biologically implausible!*
- NO tolerance
  - of preventable (avoidable) infections
  - of poor clinical practice
    - Hand hygiene compliance
    - Aseptic procedures (eg, line care)
    - Imprudent antibiotic prescribing
- *Do it right EVERY time!*

# MRSA screening

- All elective admissions by March 2009
  - Not maternity, ophthalmic, dental, endoscopies
  - DH monitors implementation from October
- All admissions asap and at latest by 2010-11

# Why are we screening?

- Colonisation precedes infection - mostly
- Colonised patient is
  - At risk of developing an infection
  - A possible source for transmission to others
- Isolate MRSA +ve patients if possible
- Screening AND decolonisation
  - Reduces the risk for the individual
  - Reduces the risk of transmission

# *C. difficile* target - present status

<i>C. difficile</i> infection, Age >65 years	
2004	44314
2005	51767
2006	55681
2007	50392

Quarterly average	
11078	
12942	
13920	
12598	

<i>2007/8</i>	<i>45334</i>
+ 2 - 64 y	10059

<i>April - June 08</i>	
<i>11333</i>	<i>8663</i>
2515	2183

## *C. difficile* target - quarters 2007-8

Age >65 years	
Jan - Mar 06	15349
Apr - Jun 06	14689
Jul - Sep 06	12821
Oct - Dec 06	12776
Jan - Mar 07	15644
<i>Apr - Jun 07</i>	<i>13924</i>
Jul - Sep 06	10884
Oct - Dec 06	10009
Jan - Mar 08	10608
<i>Apr - Jun 08</i>	<i>8683</i>

Age 2 - 64 years
<i>2944</i>
2583
2239
2356
<i>2183</i>

# *C. difficile* deaths 1999-2007

	1999	2001	2002	2003	2004	2005	2006	2007
DC mentions	975	1214	1428	1788	2247	3807	6480	8324
UC	531	691	756	958	1245	2074	3564	4056
% as UC	54	57	53	55	55	54	55	49

# CDI Target - 2008-2011

- National CDI target reduction
  - 30% reduction by 2010-11, baseline 2007-8
  - Performance management on SHA envelopes
- Population based (SHA and PCT)
  - Differential reductions to reach standard rate (/10,000 population)
  - Acute Trust targets
    - post-48 hours after admission
    - Standard per 1000 admissions
  - Minimum reduction set for all

# How have we changed practice?

- Management
  - emphasis on infection control
- Enhanced surveillance (HPA)
  - MRSA & *C. difficile*
- Clinical practice protocols
  - *Saving Lives & Essential Steps*
- Cleanliness and hygiene
  - hand hygiene
  - environmental cleaning
- Training and audit
- Targets and performance management
- Legislation - *Code of Practice*

# Management priority & responsibility

- HCAI
  - *NOT* just the Infection Control Team
  - Trust Board
  - Chief Executive
  - Clinical ownership
  - *ALL STAFF*
- *DIPC is the focus*
  - Responsibility
  - Authority - clinical and managerial
  - Resource allocation

# Surveillance

- Measure it to manage it!
- National surveillance programme
  - Consistent definitions
  - Targets and performance management
  - Choice agenda
- Enhanced surveillance - risk factors
- Local surveillance
  - Ward/Unit/Division/Specialty reports
  - Identify hot-spots
  - Monitor progress - review at all management levels
  - Detect outbreaks/increased incidence

# Improving clinical care

- *Cleanyourhands* campaign
- Cleanliness inspections & standards
- *Saving Lives* clinical protocols
- Root Cause Analysis
  - MRSA bacteraemias
  - *C. difficile* outbreaks, deaths, severe cases
    - Risk factors
    - Compliance failures

# 'Saving lives' toolkit

- Three components
  - Self assessment tool -  
*reflects CoP core duties*
  - 7 High Impact Interventions (Care Bundle approach)
    - Key elements for safe care
    - Simple observational audit of compliance
  - *plus guidance notes*

# High Impact Interventions (revised June 2007)

THE LANCET

1. Central venous catheters
2. Peripheral line care
3. Dialysis catheters
4. Surgical site management
5. Urinary catheters
6. Ventilator management
7. *Clostridium difficile*

# SL Guidance

- October 2006
  - MRSA screening
- June 2007
  - Blood Culture protocol
  - Antimicrobial prescribing framework
- September 2007
  - Isolation and cohorting

# Environmental hygiene

- Hospitals should be clean!
- Matrons & ward sisters
  - - authority and responsibility
- Routine cleaning
  - Hand-contact areas
- Enhanced cleaning in infected areas
  - Use of disinfectants
- Deep cleaning after discharge of infected patient

**October 2007–  
HCC  
Maidstone and  
Tunbridge  
Wells Report**

Investigation

**Investigation into outbreaks of *Clostridium  
difficile* at Maidstone and Tunbridge Wells  
NHS Trust**

October 2007



Inspecting Informing Improving

# National recommendations

- *C. difficile* regarded as a diagnosis in own right
- Commissioners to ensure acute trusts have guidelines in place
- Education and training of junior doctors
  - Improve recording on Death Certificates
- Reinforce antibiotic stewardship messages
- NHS/HPA to agree clear and consistent arrangements for monitoring rates of CDI
- Boards to understand role and responsibility of DIPC and receive regular information

# Preventing HCAI

- Ensure management attention
  - Commissioning and monitoring
- Improve clinical care
  - Hand hygiene
  - Aseptic procedures
  - *Saving Lives and Essential Steps*
  - Care home guidance
- Antimicrobial stewardship
  - Across the health economy
- Audit and training

# Making it happen!

- Management responsibility
  - Compliance assurance
  - Board to ward
- Personal responsibility
  - Job descriptions; job plans
  - Mandatory IP&C training
  - CPD for clinical staff
  - Appraisal and individual performance review
  - Disciplinary measures
  - Clinical excellence awards

# Compliance assurance

- Surveillance data
  - Cases, outbreaks, deaths
- Audit results
  - Hand hygiene
  - Clinical protocols (High Impact Interventions)
  - Isolation protocols
  - Antibiotic prescribing
  - Cleanliness inspections
- Reviewed at all management levels
  - Unit, ward, directorate, division, BOARD

# Commissioning and delivery

- Commissioners to include IP&C in commissioned services
- Contract monitoring to include review of IP&C provision
  - Target numbers
  - Process monitoring
- Provider services to include IP&C

# Goal (Government/DH) - use

- Political imperative
- Measurement
- Target setting
- Professional support
- Performance management AND
- Legislation

To change human behaviour (clinical & managerial) to

- Overcome the challenge of HCAI

# A wake-up call.....

- We must no longer accept these infections as 'normal'
- Patients
  - Can be very ill
  - Can die
  - Stay in hospital longer
  - May need major surgery
- Significant NHS resources can be better used

*...zero tolerance is a professional obligation*

.....*for everyone*

- Clinicians
- Healthcare support staff
- Unit, ward, directorate/division, specialty
- Board, CEO, DIPC, Executive directors
- Acute Trusts, PCT, SHA
- Commissioners and providers
- Department of Health, Government