

NHS Trust

The Challenges and Successes of a Health and Social Care Task and Finish Group Reviewing Clostridium difficile

Carole Clive Nurse Consultant Infection Prevention and Control Carole.Clive@hacw.nhs.uk



Plan...

- Introduction to Worcestershire
- The Last Three Years...
 - Events
 - Actions
 - Outcomes
- The Future
- Conclusion

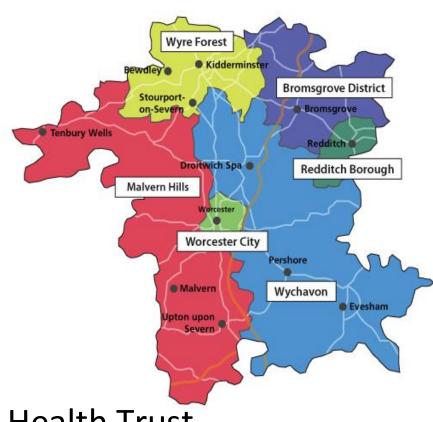




NHS Trust

Focus on Worcestershire...

- Population of 560,000
- County covering 600² miles
- Urban/Rural mix
- Ageing population
- Healthcare:
 - Three CCGs
 - One Acute Trust
 - One Community and Mental Health Trust
 - Usual range of clinical service provision across Primary Care



Worcestershire Health and Care **MHS**

worcestershire Health and Care Mili							
Provider	2012/13		2013/14		2014/15		
	Trajectory	Reported	Trajectory	Reported	Trajectory		
South Worcestershire CCG	N/A		89	62	70		
Redditch &	N/A		42	39	45		
Bromsgrove CCG							
Wyre Forest CCG	N/A		36	21	22		
NHS Worcestershire (Sum of 3 CCGs)	176	215 >22%	167	121 <27%	137		
Worcestershire Acute Hospitals Trust	52	80 >53%	48	40 <20%	41		
Worcestershire Health and Care Trust	12	9 < 25 %	10	5 < 50%	9		





Any improvement requires a change...

- not every change is an improvement
- but we cannot improve something unless we change it Goldratt (1990)



Worcestershire Health and Care **MHS**

NHS Trust





It's human nature to break the rules...how can we support people to do the right thing?







Health and Social Care Group

REMIT:

- address non compliance with Clostridium difficile trajectories
- improve standards of quality and patient safety.



CHALLENGE

- performance stood at 42% above trajectory for NHS Worcestershire and 75% above trajectory for Worcestershire Acute Hospitals NHS Trust
- Data contained a number of duplicates
- 2011/2012 attributable cases not within trajectory with 218 cases recorded against an objective of 185.



Core Team and Membership

Core Team:

Dr Chris Catchpole Consultant Microbiologist

Carole Clive Nurse Consultant
Infection Prevention and Control
Dr Claire Constanting Consultant

Dr Claire Constantine Consultant Microbiologist

Dr Anne Dyas Consultant Microbiologist

Jane Freeguard/Anne Kingham Medicines Management Worcestershire CCGs

Jo Galloway Executive Nurse Redditch and Bromsgrove/Wyre Forest CCGs (Group Chair)

Mari Gay Executive Nurse SWCCG

Heather Gentry Lead Nurse Infection

Prevention and Control WAHT

Alex Hill Planning & Performance NHS Worcestershire

Josie Mchale-Owen Infection Prevention Lead Nurse Worcestershire CCGs

Dr Jane Stockley Consultant Microbiologist and Community Infection Control Doctor

Further Group Membership:

Hardeep Cheema – Communications

Directors with Responsibility for Infection Prevention & Control (2)

Public Health England representation

Health Protection Agency representation

SHA/TDA representation

Out of Hours Provider

GP representatives (4)

Dental representative (1)

Social Care representation

Admin Support



Strategy (Nov 2012)

Vision and Aspiration: To reduce incidence of Clostridium difficile across the health economy consistently to upper quartile of best performance by March 2014

Strategic Priorities:

- 1. Identify risk factors take actions to reduce
- 2. Ensure prescribing practice compliant with evidence based guidelines
- 3. Implement continuous surveillance
- 4. Promote good practice and learning



Priorities within the Plan

- Reducing contamination/optimising infection prevention and control practices
- Antimicrobial stewardship and other evidence based prescribing
- Case follow through and actions
- Enhanced surveillance and further awareness raising
- Communication and development of strategy
- Epidemiology summary reviewing all cases
 2012-13 (PHE and also IPCN data)
- External Review planned for January 2013...

YOUR 5 MOMENTS

ANTIBIOTIC RESISTANCE



WHEN: BEFORE YOU PRESCRIBE AND AT ANY REVIEW - CONSIDER NOT PRESCRIBING OR DELAYED PRESCRIPTION IF PATIENT IS WELL, SELF-LIMITING INFECTION (E.G. UPPER RESPIRATORY TRACT) OR NO CLINICAL BENEFIT - ADDRESS PATIENT

WHEN : WHEN FIRST-LINE THERAPY HAS FALLED. THE PATIENT HAS BEEN IN HOSPITAL RECENTLY RECURRENT INFECTION.

WHY : PATIENTS EXPOSED TO ANTIBIOTICS ARE MORE LIKELY TO DEVELOP RESISTANT BACTERIA MAKING SUBSEQUENT INFECTIONS MORE DIFFICULT TO TREAT, PATIENTS WHO UNDERSTAND ABOUT THEIR INFECTION ARE LESS LIKELY TO RE-PRESENT

PREGNANCY OR KNOWN RESISTANCE, CONSIDER IN SEVERE/SERIOUS INFECTION, IMMUNO COMPROMISED OR

WHY : CULTURES ARE NECESSARY TO COMPRIM ANTIBIOTIC SUSCEPTIBILITY AND GUIDE YOU IN CHOOSING THE MOST APPRIOPRIATE THERAPY, THEY ALSO HELP US TO UNDERSTAND THE EPIDEMIOLOGY OF ANTIBIOTIC RESISTANCE.

HEN: BEFORE YOU PRESCRIBE AND AT ANY REVIEW -CONSULT LOCAL OR NATIONAL GUIDELINES - DOCUMENT YOUR PLANNED LENGTH OF THERAPY - IF NO SERIOUS INFECTION (E.G. SEPTIC ARTHRITIS), CAN YOU STOP IF PATIENT IS BETTER?

WHEN: BEFORE YOU PRESCRIBE AND AT ANY REVIEW - CONSULT LOCAL OR NATIONAL GUIDELINES - IF A POSITIVE MICROBIOLOGY TEST IS AVAILABLE, USE THE MARROWEST-SPECTRUM EFFECTIVE ANTIBIOTIC

WHY : USE OF BROAD-SPECTRUM ANTIBIOTICS E.B. CEPHALOSPORINS, CO-AMOXICLAV AND FLUORIO QUINOLONES) LEADS TO THE EMERGENCE OF HIGHLY RESISTANT BÁCTERIA

WHY : THE LONGER YOU EXPOSE BACTERIA TO AN ANTEKOTIC, PARTICULARLY AT LOW CONCENTRATIONS, THE MORE LIKELY BACTERIA ARE TO BECOME RESISTANT - DOSING CORRECTLY IS IMPORTANT TO ACHIEVE ADEQUATE CONCENTRATIONS

WHEN : AT ANY PEVIEW - IS YOUR PATIENT CLINICALLY IMPROVING? ARE ANY MICROBIOLOGY TESTS POSITIVE? MODIFY ANTIBIOTIC THERAPY ACCORDING TO LOCAL OR NATIONAL GUIDELINES AND THE PRINCIPLES OF NICHE



WHY: IT MAY BE APPROPRIATE TO CHANGE THE ANTIBIOTIC FOR PATIENTS WITH POSITIVE TESTS, PATIENTS NOT IMPROVING MAY REQUIRE MORE TESTS, A DIFFERENT

AT ANY REVIEW CONSIDER ALL OF THE NICHE COMPONENTS TO LIMIT THE RISK OF YOUR PRESCRIPTION CONTRIBUTING TO RESISTANCE





ANTIBIOTIC OR HOSPITAL REFERRAL, CAN YOU STOP IF PATIENT IS BETTER?

choose your







looks like

rabbit droppings

Separate hard lumps, like nuts (hard to pass

looks like

bunch of grapes

Sausage-shaped but lumpy





looks like:

corn on cob

Like a sausage but with cracks on its surface





looks like:

sausage

Like a sausage or snake, smooth and soft







laaks liikse

looks like

chicken nuggets

Soft blobs with clear-cut edges (passed easily







Fluffy pieces with ragged edges, a mushy sto

looks like:



Watery, no solid pieces ENTIRELY LIQUID



COMMUNITY VERSION

loncept by Professor DCA Candy and Emms Daviss. ased on the Bristol Stool Form Scale produced y Dr KW Heaton, Fleader in Medicine at the



Antimicrobial Prescribing

- Prudent prescribing of appropriate antimicrobials reflecting local needs
- Antimicrobial Stewardship

Worcestershire Guidelines For Primary Care Antimicrobial Prescribing

> Fourth Edition January 2011 Amended October 2013



Always consider if antibiotic treatment is necessary

Prescribing antibiotics for viral or mild self limiting infections such as coughs and colds is unlikely to improve the course of the illness, puts patients at risk of side effects and encourages further consultations. Antibiotics should be targeted at those patients who are most likely to benefit. The Clinical Knowledge Summaries (CKS) Library contains many patient leaflets that support appropriate use of antibiotics (www.cks.library.nhs.uk). The Department of Health website gives details of the Public Health campaign and available leaflets (www.uk/en/publichealth/antibioticresistance)

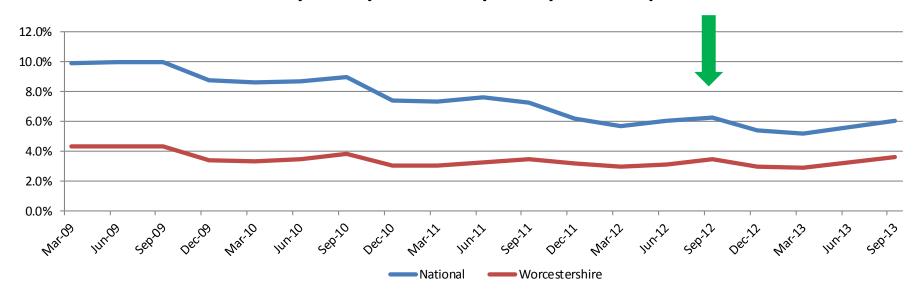
CDI Important
Information
Information
Information
Information
Infuture, please show this card to any
Infuture, please show this card to der
Infuture, please show this card to any
Infuture, please show this card to delay
Infuture, please show this card to any
Information the show th

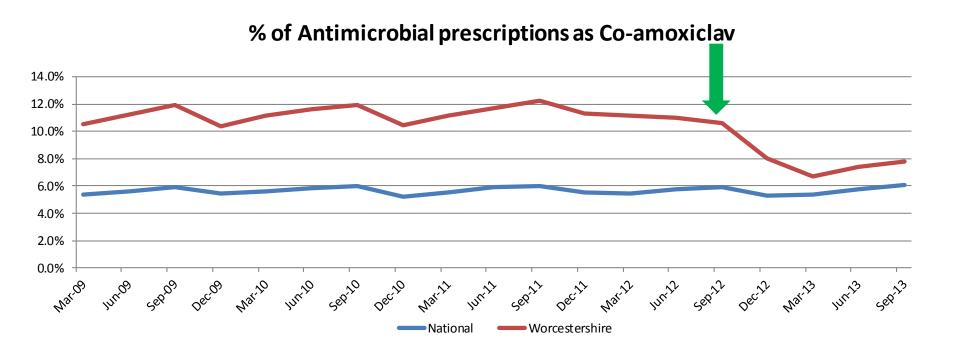


Actions

- Antibiotic Stewardship and Public Engagement
- Use of CDI passport
- PPI review of use and drive to ensure appropriate prescribing of PPIs
- Review antimicrobial prescribing guidance
- Review use of NSAID Diclofenac/Naproxen
- Continue to consider immune suppressants and laxative use on risk assessments
- Detailed literature search of potential benefits of probiotics

% of Antimicrobial prescriptions as cephalosporins or quinolones

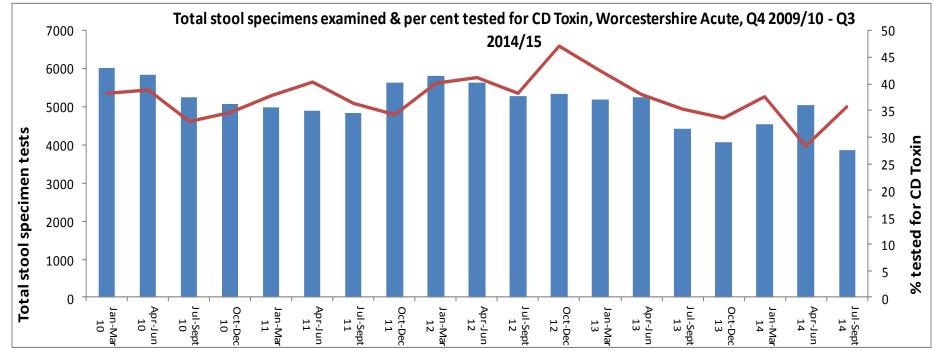


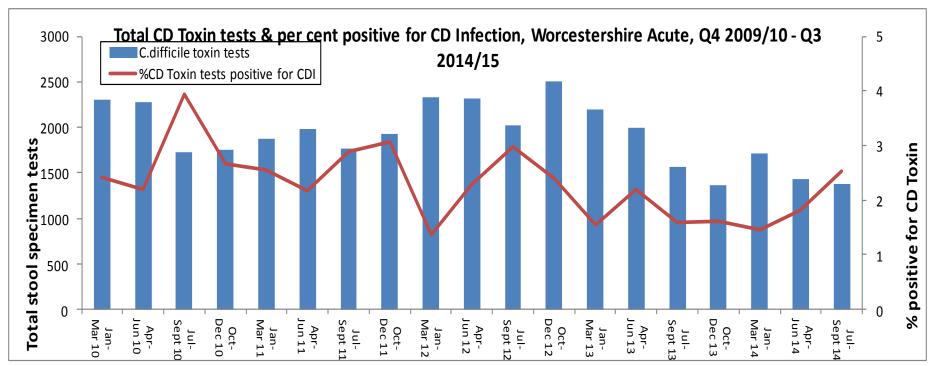




Actions

- Education and awareness raising with all key clinical and care groups
- Nominated champions
- Root cause analysis of all cases and timely feedback of findings to clinicians
- Environmental audit, assurance visits and prompt feedback of findings
- Introduce HPV into acute settings and replace all commodes
- Specimen guidance and education campaign





Review of Trends

	2011-2012	2012-2013	2013-14	TREND
% of cases that have had a recent hospital stay	69	79	65	
% of cases that have had a recent course of antibiotics	86	89	90	
% of cases that have recently had or were on PPIs	59	47	53	
% of cases that have had a course of antibiotics and on PPIs	48	38	42	
% of cases on either/or antibiotics/PPIs	88	94	95	
% of cases recently had cytotoxic drugs	8	11	6	
% of cases with recent or continued use of laxatives	28	26	24	





Key Influences

- Health economy commitment and multiagency engagement
- Leadership
- Communications campaign
- Public Engagement and awareness
- Education ensuring understanding of the infection and key influencing factors
- Antibiotic Stewardship and ownership
- Timely diagnostics and clinical reviews
- Learning from RCA's, external reviews and epidemiology



Sustainability; Benefits and Challenges:

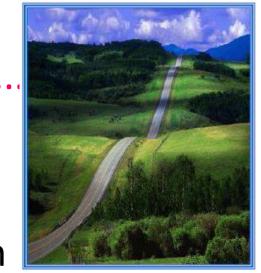


- Partnership working to ensure continued focus on outcomes, audits, prescribing etc.
- Sustained high level engagement
- Model to learn and share best practice
 - Commissioner involvement in RCAs-Feedback
- Targets 2015/16 have been set; Are we at irreducible level?
- Infection Prevention Strategy 2013/16 inclusive of Health and Social Care with focus on clean environment, antibiotic prescribing, information sharing and education

Challenge

Consider how best to make progress..

Is everybody absolutely clear who is responsible for the provision of each aspect of infection prevention and control?



Is there a consistent approach that is also consistent across the county?



THERE WILL BE OBSTACLES. THERE WILL BE DOUBTERS. THERE WILL BE MISTAKES. BUT WITH HARD WORK, THERE ARE NO LIMITS.