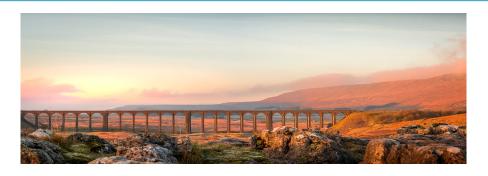
A whole healthcare economy approach to antimicrobial resistance

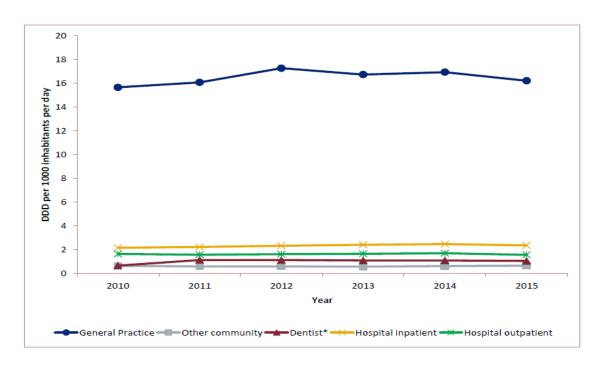


Dr Jenny Child, MD FRCPath
Consultant Microbiologist and DIPC
Harrogate & District NHS Foundation Trust

Disclaimer



Total antibiotic consumption (in DDD) per 1000 inhabitants/day England, 2010-2015



Source: ESPAUR report, 2016

Syndrome specific prescribing

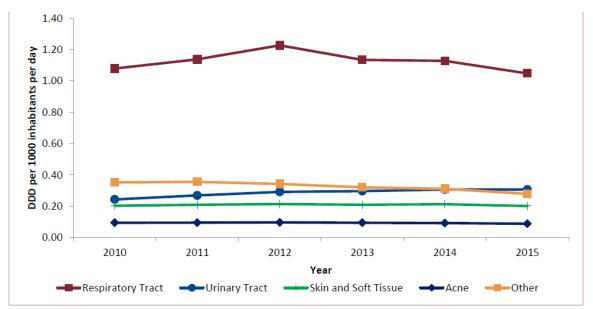
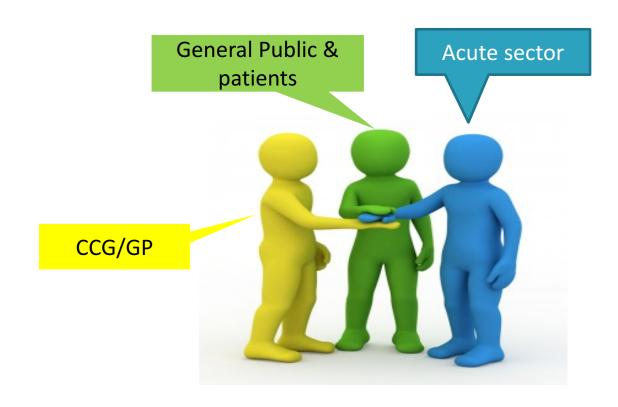


Figure 3.21 Syndrome specific prescribing; items per 1000 inhabitants per day, England; 2010-2015

Whole healthcare economy?



Whole healthcare economy?





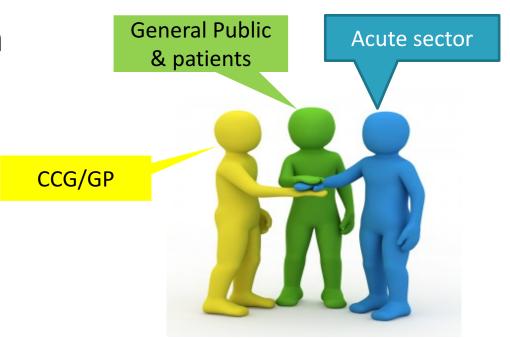
Eh?

- What *c*ould we do?
- What should we do?
- How would we do it?
- How will we know if we're making a real difference?



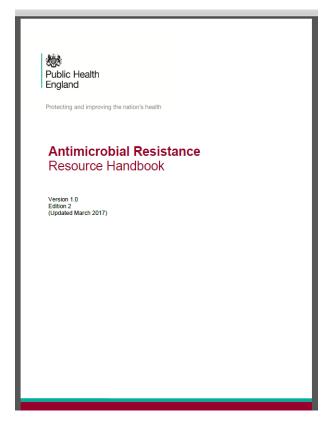
Antimicrobial resistance

- Antimicrobial stewardship
- Infection prevention
- Infection control
- Hearts & minds



Useful stuff

- Start Smart, then Focus
- TARGET Toolkit
- ESPAUR report 2016
- PHE Fingertips tool



One bite at a time





What works?



ORGANISATIONAL CULTURE

Journal of Hospital Infection 86 (2014) 1-6



Available online at www.sciencedirect.com

Journal of Hospital Infection

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



Review

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

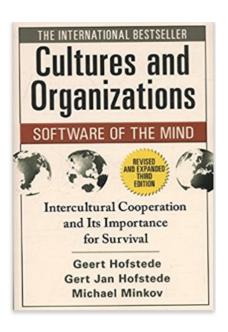
S. De Bono^a, G. Heling^a, M.A. Borg^{b,*}

Journal of Hospital Infection 86 (2014) 1-6

^a Maastricht School of Management, Maastricht, The Netherlands

b Mater Dei Hospital and University of Malta, Msida, Malta

Organisational culture



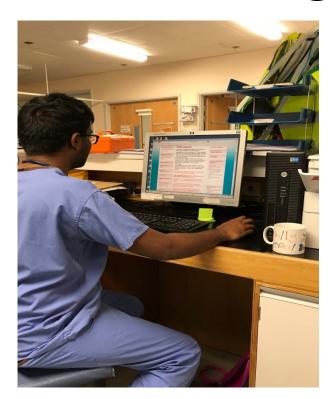
- What works well in Lisbon won't necessarily work in
- Leeds
- (Or Los Angeles)
- (Or Harrogate)

Make it easy for prescribers to do the right thing

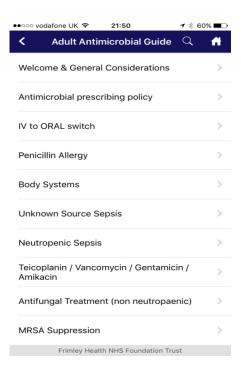
Prescribing guidelines

- Easily accessible
- Relevant
- Comprehensive
- Simple
- Clear
- Up to date

The locum med reg test



Smart phone app (e.g. Micro Guide)

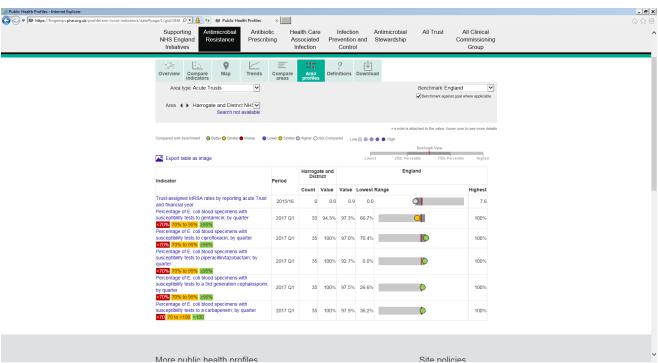




How will we know if we're making a difference?

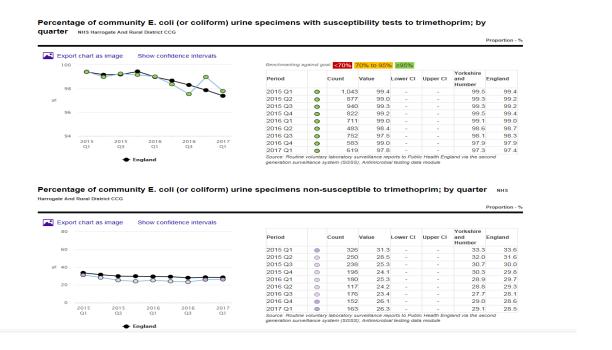
- Sputum isolates?
- Urinary isolates?
- Blood-culture isolates?
- *C. difficile* as a surrogate marker

PHE Fingertips HDFT *E. coli* BSI isolates



http://fingertips.phe.org.uk

HaRD CCG urinary coliforms trimethoprim susceptibility



Fingertips tool: mean no. prescribed antibiotic items per STAR PU



Source: Public Health England Fingertips

http://fingertips.phe.org.uk

reaching the right spot





If I was Lord Sugar...

Develop affordable POC diagnostics for respiratory viruses in general practice

Back a social media campaign









Role of microbes in health as well as disease

Antibiotic stewardship

Infection prevention





In Summary

Pick 1-2 things to target

Don't let culture, systems & processes get in the way

Don't let the perfect become the enemy of the good

right thing the

NEVER GIVE UP!



Thank you

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@JennyChild1

