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Protecting and improving the nation's health

Antibiotic Sensitivity in the North East-With a focus on UTI

Kate Gould and Simon Howard PHE NorthEast.



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The Specimen Journey

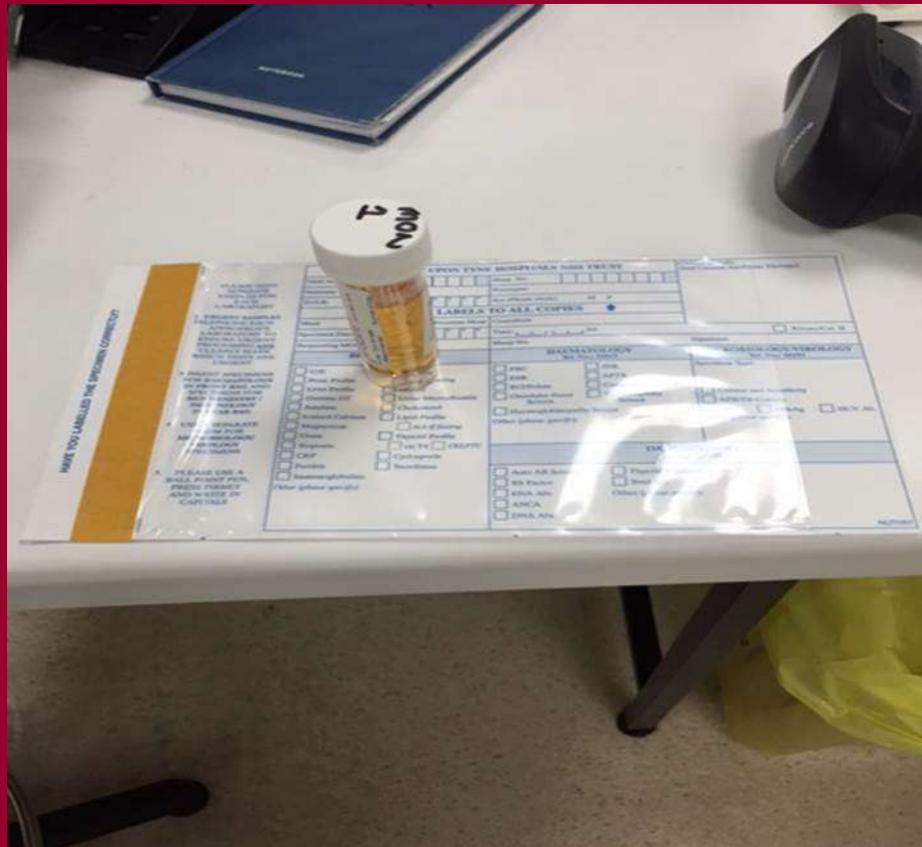
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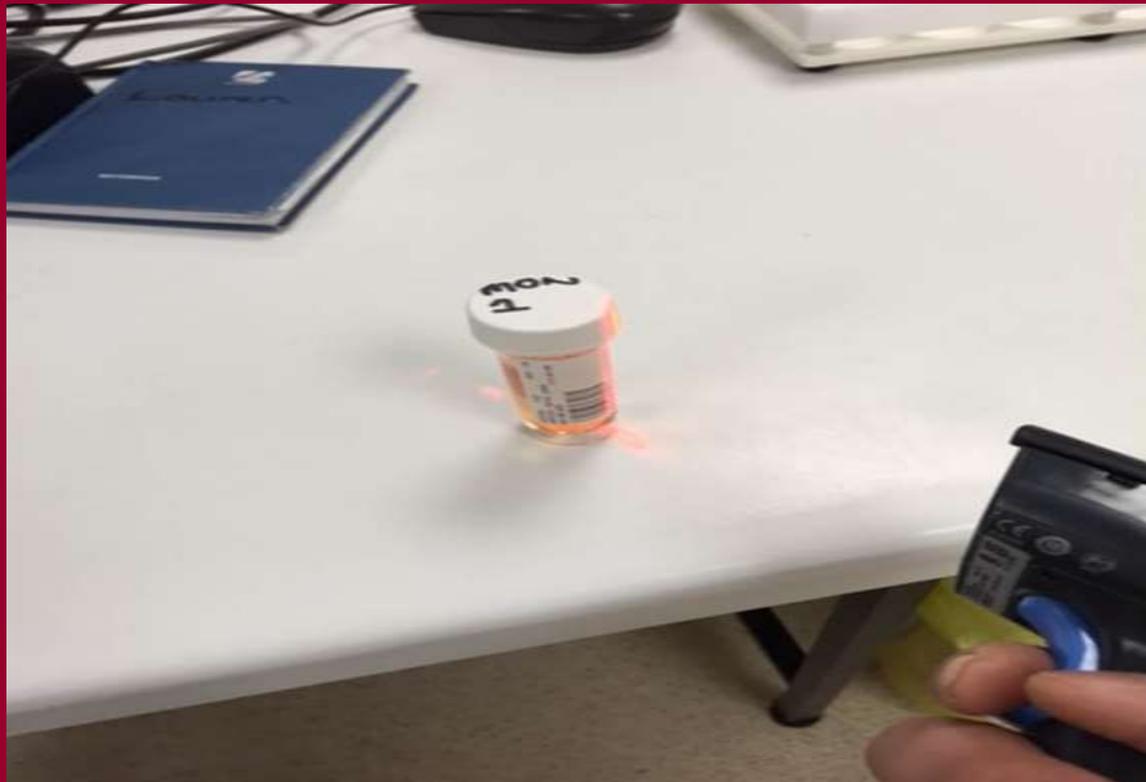
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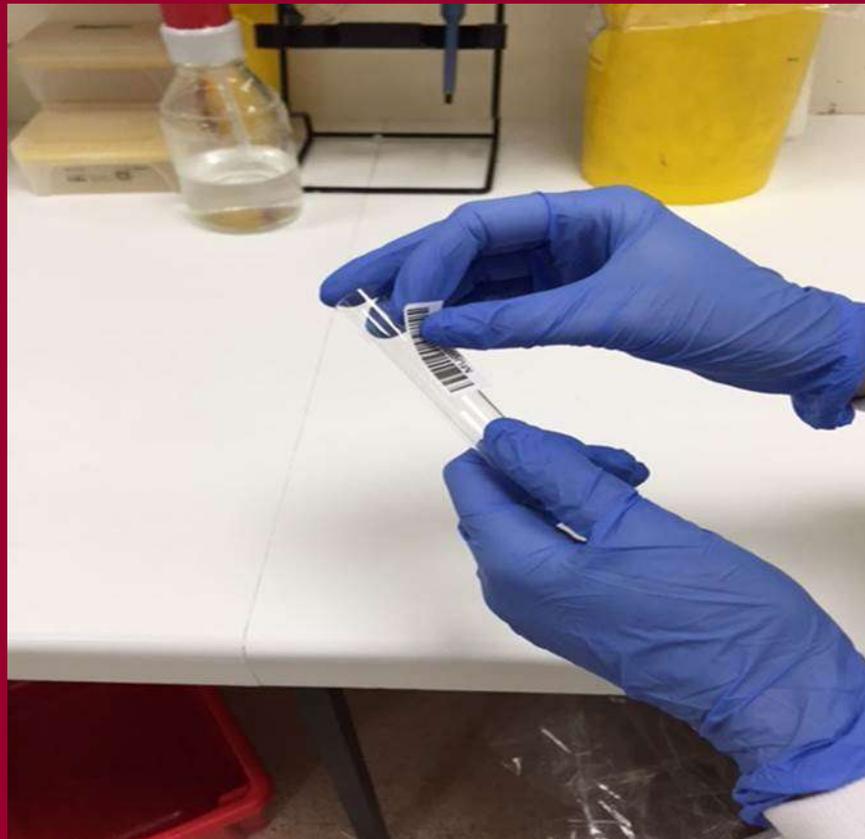
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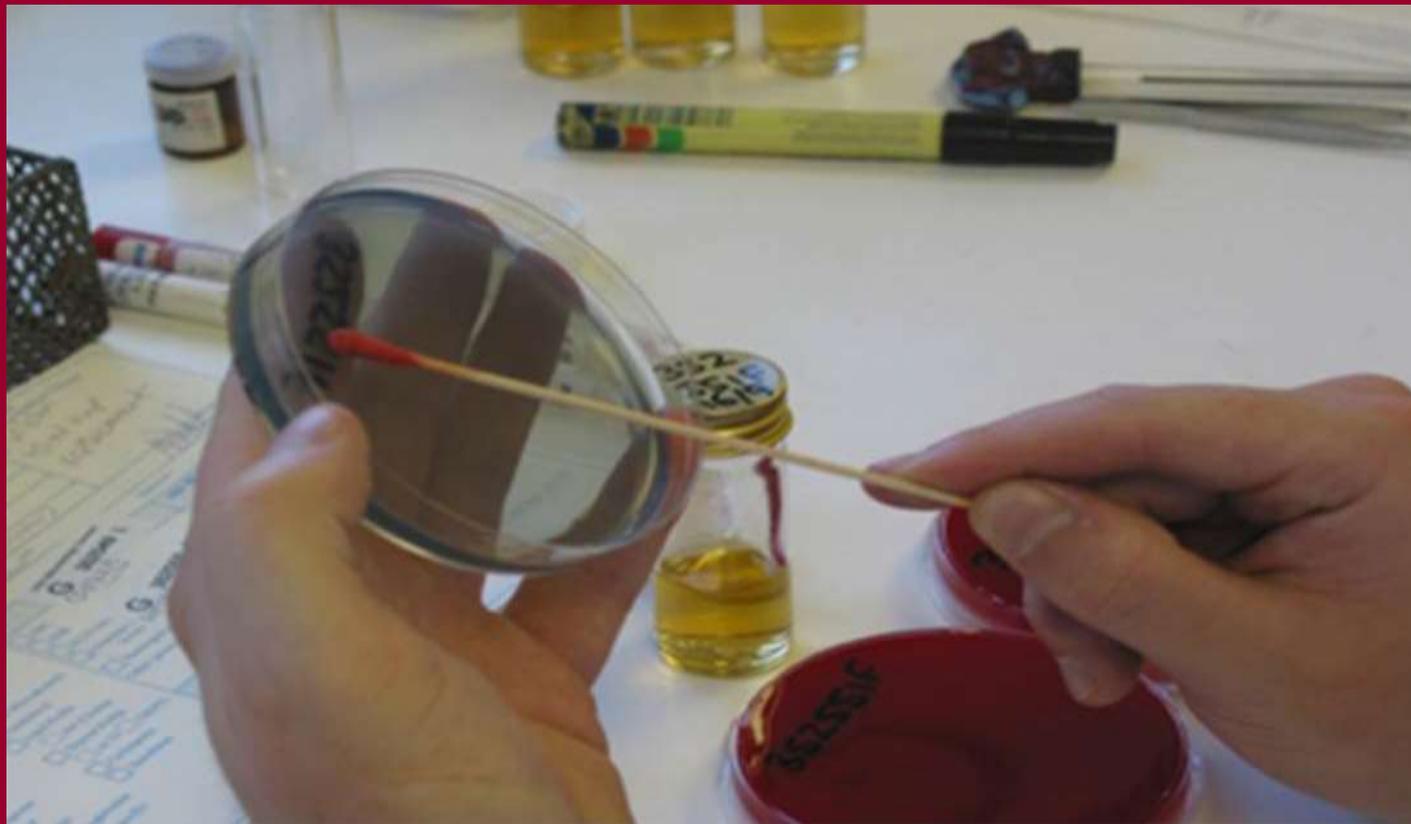
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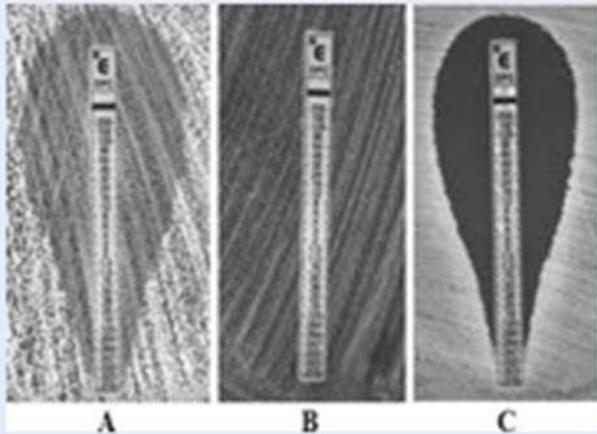
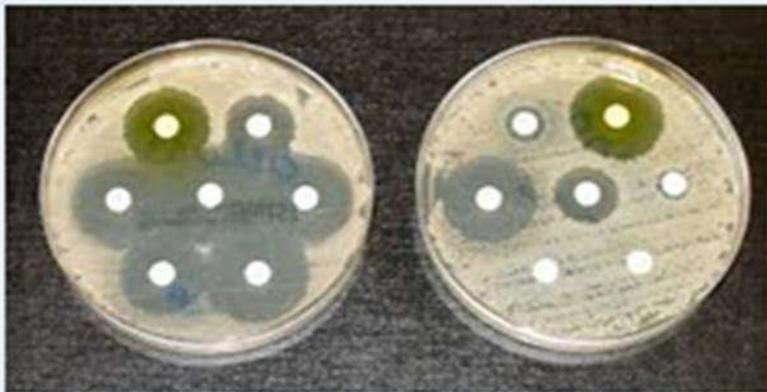
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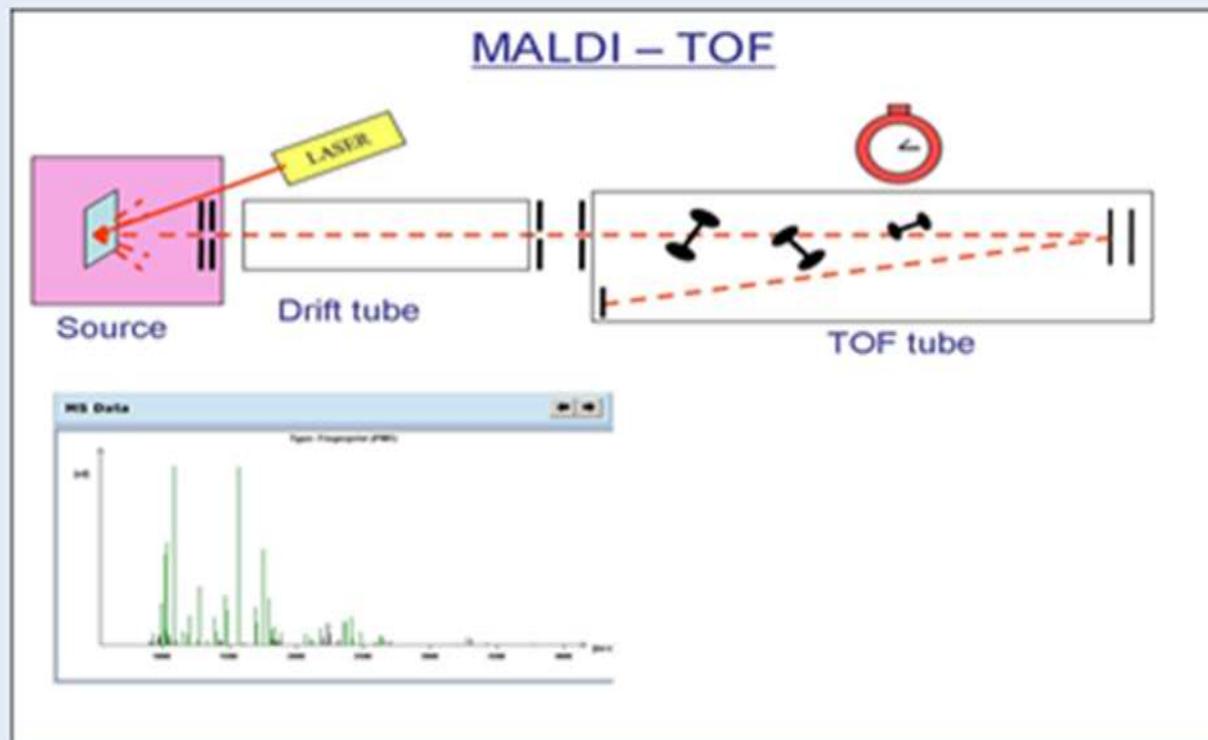
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Mass Spectrometry





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PHE English Surveillance Programme for Antibiogramicrobial Utilisation and Resistance (ESPAUR)

Collects data from
Microbiology Labs

Collects Antibiotic
prescribing data

Produces National
and Regional
Reports

Most recent published on 15/11/15
<https://www.gov.uk/government/publications/english-surveillance-programme-antimicrobial-utilisation-and-resistance-espaur-report>



Resistance among urinary isolates

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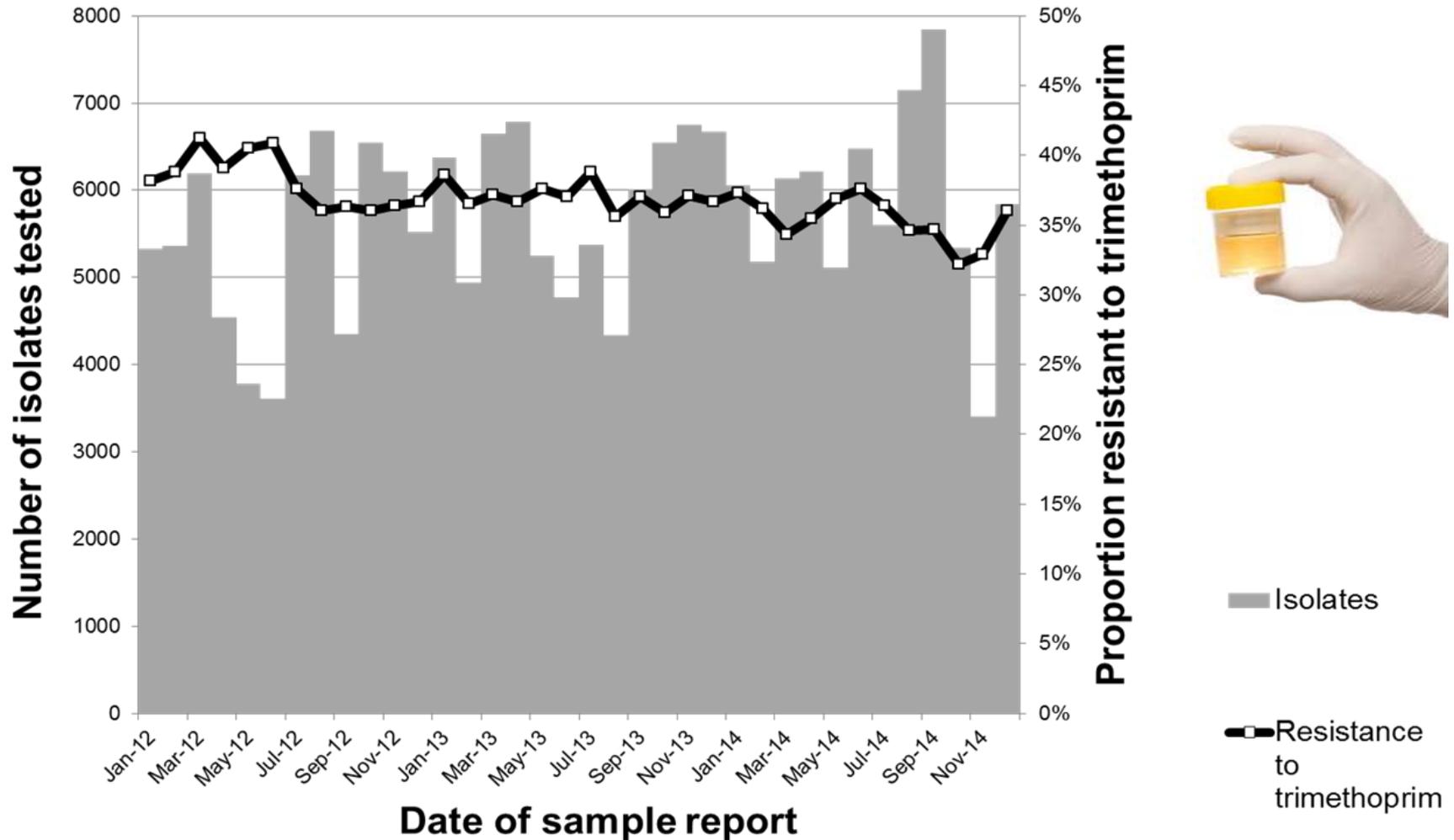
- North East and Cumbria primary care prescribing guidelines recommend trimethoprim or nitrofurantoin as first-line agents in uncomplicated UTIs.
- Nationally, resistance to these (esp trimethoprim) has been increasing – prompting some areas to move away from trimethoprim first-line.
- What do the North East data show?





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Urinary isolates and resistance to trimethoprim



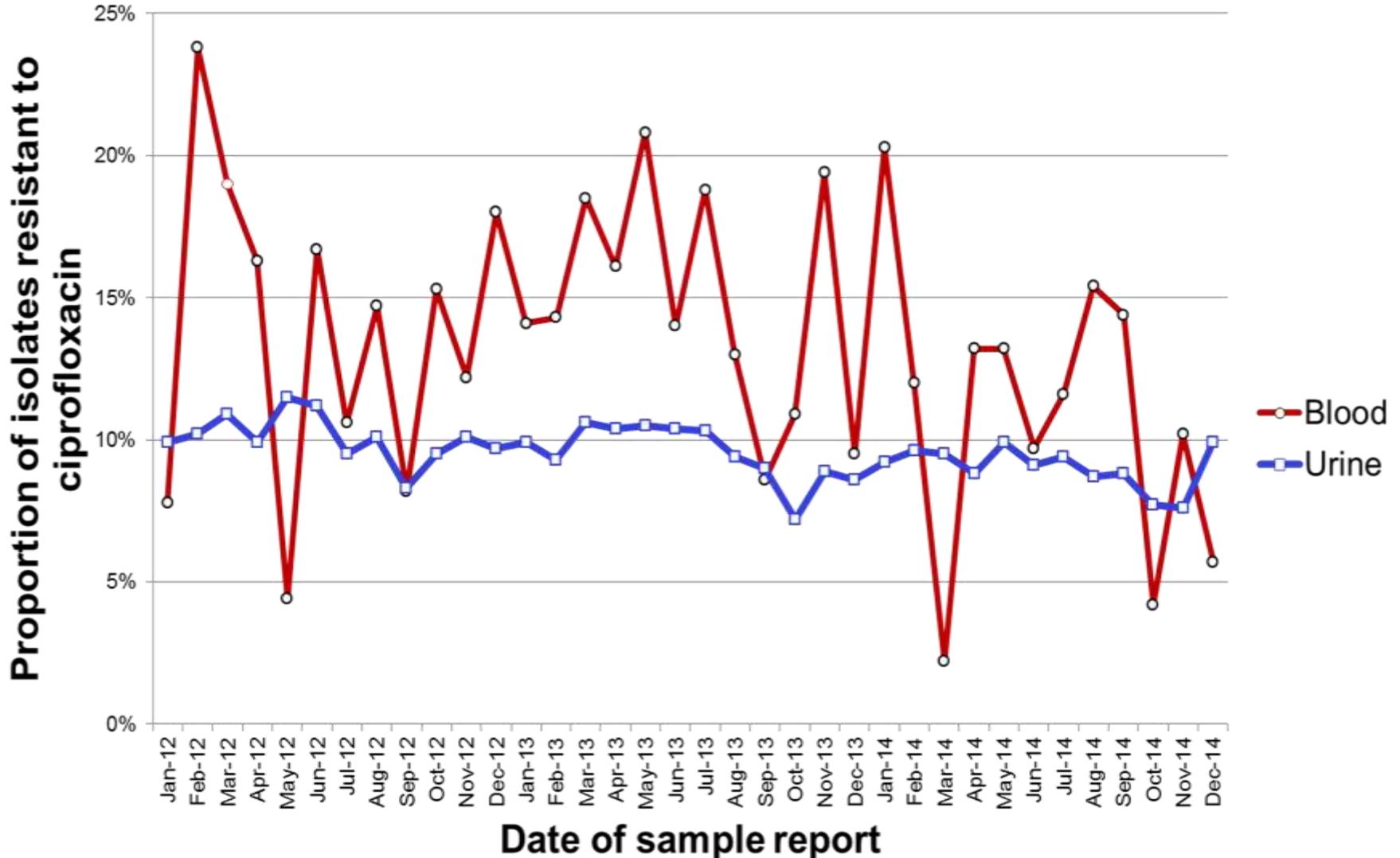


Resistance among urinary isolates

- What do the North East data show?
- Data is of limited clinical use, especially in developing first-line antibiotic guidelines, because of the inherent biases
- A purposive sampling project – where GPs would be asked to submit all specimens – would go some way to filling this knowledge gap (but would only cover it for one place and time, and wouldn't necessarily help with determining which samples indicate that treatment is necessary)



A point of interest... cipro and *E coli* in blood and urine





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If you would like to receive the AMR Quarterly Report, email
simon.howard@phe.gov.uk



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North East AMR Quarterly Report

October 2015

Dear Colleagues,

This is the third in a series of short quarterly reports on antimicrobial resistance for colleagues across the North East. I intend to highlight key findings and points of interest within the region's data, and to describe some of the limitations of the data and resultant gaps in our knowledge. These reports are intended to be published to coincide with North East Regional Microbiology Group meetings, to allow us to discuss and debate the content—though please accept my apologies for the late publication of this quarter's report!

I am grateful to colleagues for providing feedback on previous editions of this report and

for antimicrobial stewardship,¹ and a draft of its guideline for changing AMR-related behaviours in the general population.² These remind us of the importance of continuing to reinforce the basics such as regular review of antibiotic prescriptions, both in our own practice and through education of colleagues. Next month's European Antibiotic Awareness Day (18 November) provides a wonderful opportunity to promote these messages.

I would be most grateful for your continued feedback on these reports. A link to a feedback survey was circulated with this report; the survey can also be accessed by visiting