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- E. coli bacteraemia is rising Why?
  - Catheters?
  - Gall Bladders?
  - Uropathogenic strains (ST131)?
  - Food?
  - Antimicrobial resistance?
  - Age?
  - Global warming?



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# Evidence for a link between poor hydration and UTI?

- High prevalence of UTI in clean room workers noticed (technology industry)
  Su et al, J. Women's Health 2006
- Protective clothing takes 10 mins to remove/replace
- Tendency to minimise restrict fluid intake to avoid leaving area
- Education/hydration promotion intervention
- Urination 3 x or more during shift associated with lower risk of UTI ( p< 0.07)
- Paired before/after data in 366 workers
  - Increased fluid intake 3x or more (28% to 51%)
  - Reduced in prevalence of UTI (9.8% to 1.6%; p< 0.001)</li>



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# Primary Care Safety netting and self-care

- Evidence based safety netting advice includes return to the GP practice at 48 hours if symptoms are not resolving, and if fevers or chills, costovertebral tenderness and drowsiness
- Self care measures include adequate hydration (6-8 cups per day), wiping front to back, post intercourse micturition and vaginal oestrogen/D-mannose for the prevention of recurrent infections
- Use of a TARGET UTI Leaflet that provides advice
  - Treat Antibiotics Responsibly, Guidance, Education, Tools
- Is this being done?

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hare	Differ
ram stain reaction	Risk factors & at-risk populatio
oncerning AMR	Potential for epidemic spread
	Infection profile & mortality
	Prevalence
	Colonisation site & duration
	Transmission routes
	Resistance profile & mechanisms

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PathogenGNRMRSAVREC. difficileResistance+++++/-Resistance genesMultipleSingleSinglen/aSpeciesMultipleSingleSingleSingleSingleHA vs CAHA & CAHAHAHAAt-risk ptsAllUnwellUnwellOldVirulence++++++/-+Environment+/-++++
Resistance+++++/-Resistance genesMultipleSingleSinglen/aSpeciesMultipleSingleSingleSingleHA vs CAHA & CAHAHAHAAt-risk ptsAllUnwellUnwellOldVirulence++++++/-+Environment+/-+++++
Resistance genesMultipleSingleSinglen/aSpeciesMultipleSingleSingleSingleHA vs CAHA & CAHAHAHAAt-risk ptsAllUnwellUnwellOldVirulence++++++/-+Environment+/-+++++++
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HA vs CAHA & CAHAHAHAAt-risk ptsAllUnwellUnwellOldVirulence++++++/-+Environment+/-+++++++
At-risk ptsAllUnwellUnwellOldVirulence++++++/-+Environment+/-+++++++
Virulence     +++     +/-     +       Environment     +/-     +     +++     +++
Environment +/- + ++ +++

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'Going further faster' (2006)		
Key challenge	Specific Focus	
Challenge 1	Engage the board and use performance management at every level	
Challenge 2	Ensure clinical ownership across organisation	
Challenge 3	Screen and/or decontaminate according to risk assessment	
Challenge 4	Use HIIs* to monitor and increase compliance	
Challenge 5	Integrate with risk and clinical governance framework	
Challenge 6	Ensure infection control is part of induction and ongoing training	
Challenge 7	Effectively coordinate bed management with infection control input	
Challenge 8	Clean and decontaminate	
Challenge 9	Proactively manage your reputation, engage all staff and local community	
* <u>HII = high impact int</u> care bundle; Renal ca ventilated patients; U	erventions: Central venous catheter care bundle; Peripheral intravenous cannula theter care bundle; Care bundle to prevent surgical site infection; Care bundle for inary catheter care bundle; Care bundle to reduce the risk from <i>Clostridium difficile</i> .	
From 'Going further fa	aster'	

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