









2. What is a HCAI?

- HCAI = Infection acquired/picked up after healthcare contact; e.g., hospital, long-term care facility (LTCF) or another healthcare setting – primary care, ambulatory care/day services, dental
 - Hospital-acquired infection
 - LTCF-acquired infection
- Patients can also acquire colonisation with microorganisms while admitted to hospital – Most don't go on to develop infection, but they could be a source of onward transmission to others

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Examples

- Peripheral vascular catheter (PVC) inserted for IV diuretics. Day 4 PVC site phlebitis noted and new fever: PVC removed, blood cultures taken – *S. aureus* grown from blood cultures – Sensitive to flucloxacillin (MSSA) – Treated with IV flucloxacillin x 14 days
- Resident in LTCF x 6 months Recent course of ciprofloxacin for treatment of suspected UTI. New diarrhoea – Isolated with contact precautions and faeces sent to lab – *C. difficile* positive – Treated with oral metronidazole x 10 days
- 3. Total knee replacement surgery. Discharged home well post-op day 4 Represents to GP post-op day 21, with pus oozing from knee wound Swab taken, referred to ED for admission, wound washout *S. aureus* grown from swab and theatre specimens resistant to meticillin/flucloxacillin (MRSA) Required prolonged course of IV vancomycin, isolation and contact precautions

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A. What are the consequences of HAI?Morbidity – physical, psychological, emotional Mortality Increased length-of-stay Increased healthcare costs Reduced access to healthcare Economic impact – delayed return to work Where HAI caused by AMRO: All of the above + More difficult to treat More expensive to treat Increased risk of dissemination to other vulnerable patients/residents Reduced access to isolation rooms Distressing for patients, staff and families, erodes confidence in healthcare system





National guidance	hpsc
	Fact sheet 1 of 6
	Subject:
	Healthcare associated infections (HCAI) and Antimicrobial Resistance (AMR)
Discussing healthcare associated infection (HCAI) and specific antimicrobial resistant	For:
organisms (AMROs) with patients ¹ who may have acquired a HCAI, become colonised with an AMRO or been exposed to a specific HCAI/AMR risk	Patients, relatives and healthcare workers
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hpso Local multi-modal strategies for HAI prevention % use of care bundles % availability of local guidelines Urinary tract infection 67 **UTI** prevention 68 (UTI) prevention **BSI** prevention 44 Bloodstream infection (BSI) 53 SSI prevention 30 prevention Pneumonia prevention Surgical site infection (SSI) 47 Hospital-wide 5 prevention *ICU* 61 Pneumonia prevention Hospital-wide 23 *ICU* 53 (n=57 of 60 hospitals provided data & n= 36 of 37 ICUs provided data)

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Local multi-modal strategies for HAI prevention

% local surveillance programme

Bloodstream infection (BSI)	77
Surgical site infection (SSI)	54
Urinary tract infection (UTI)	39
Pneumonia	
Hospital-wide	5
ICU	36

% provision of local education

UTI prevention	49
BSI prevention	47
SSI prevention	30
Pneumonia prevention <i>Hospital-wide</i> ICU	

(n=57 of 60 hospitals provided data & n= 36 of 37 ICUs provided data)

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HALT point prevalence surveys (PPS) – Long-term care facilities

 Periodic national PPS of long-term care acquired infections (HAI) and antimicrobial use (HALT)

Key Results	2010	2011	2013	2016
Number of Participating LTCF	69	108	190	224
Public (HSE) Ownership	61	84	128	136
Private Ownership	8	24	39	54
Voluntary Ownership	0	0	23	34
Median LTCF size (beds)	47	50	46	42
Range	10-382	10-226	5-203	5-176
Number of eligible residents	4,170	5,922	9,318	10,044

z/microbiologyantimicrobialresistance/infectioncontrolandhai/surveillance/hcaiinlongtermcarefacilities/haltreports/2016report/







Key Results	2010	2011	2013	2016
Number of eligible residents	4,170	5,922	9,318	10,044
No. of eligible residents meeting HCAI surveillance definitions	149*	242*	497*	441*
Crude prevalence of HCAI	3.6%	4.1%	5.3%	4.4%
*A resident could have had r				



