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Around 0.5	(2016 UK inpatients	PPS) to 1% will have a	(2012 Eu BSI at an	ropean PF y one time	S) of hosp	oital
	All types of infection	Pneumonia or other lower respiratory tract infection	Surgical site infection	Urinary tract infection	Bloodstream infection	Gastrointestinal infection
	n (%)	n (%)	n (%)	n (%)	n (%)	n (%)
HAIs and microorganisms						
HAIs, total	1,531 (100)	394 (25.7)	290 (18.9)	264 (17.2)	200 (13.1)	119 (7.8)
HAIs with microorganisms	905 (59.1)	191 (48.5)	172 (59.3)	187 (70.8)	188 (94.0)	48 (40.3)
Microorganisms, total	1,165 (100)	249 (100)	247 (100)	210 (100)	228 (100)	65 (100)
Major groups of microorganism	ns					
Gram-positive cocci	410 (35.2)	46 (18.5)	134 (54.3)	39 (18.6)	95 (41.7)	21 (32.3)
Enterobacteriaceae	404 (34.7)	80 (32.1)	58 (23.5)	134 (63.8)	79 (34.7)	18 (27.7)
Gram-negative bacteria, non-Enterobacteriaceae	226 (19.4)	91 (36.5)	36 (14.6)	29 (13.8)	30 (13.2)	7 (10.8)
Fungi	69 (5.9)	23 (9.2)	5 (2.0)	7 (3.3)	17 (7.5)	4 (6.2)
Top 15 microorganisms (accou	nting for (92.4% of	total number micro	organisms)			
Escherichia coli	177 (15.2)	24 (9.6)	29 (11.7)	78 (37.1)	29 (12.7)	10 (15.4)
Staphylococcus aureus	141 (12.1)	26 (10.4)	53 (21.5)	2 (1.0)	26 (11.4)	5 (7.7)
Pseudomonas aeruginosa	131 (11.2)	44 (17.7)	24 (9.7)	21 (10.0)	17 (7.5)	6 (9.2)
Enterococcus spp.	114 (9.8)	4 (1.6)	33 (13.4)	32 (15.2)	21 (9.2)	11 (16.9)
Coagulase-negative staphylococci	97 (8.3)	3 (1.2)	33 (13.4)	3 (1.4)	38 (16.7)	1 (1.5)
Klebsiella spp.	94 (8.1)	22 (8.8)	7 (2.8)	30 (14.3)	25 (11.0)	3 (4.6)







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Wha	it's the probler	n? Poor clinica	al outcome
	Enterobacteriaceae		Non fermenters
Organism	AmpC / ESBL	CPE	A. baumannii
Attributable mortality	Moderate	Massive (>50%)	Minimal
12 Shorr et al Patel et al	l. Crit Care Med 2009;37:146 . linfect Control Hosp Epiden	3-1469. niol 2008;29:1099-1106.	

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Pathogen	GNR	MRSA	VRE	C. difficile
Resistance	+++	+	+	+/-
Resistance genes	Multiple	Single	Single	n/a
Species	Multiple	Single	Single	Single
HA vs CA	HA & CA	HA	HA	HA
At-risk pts	All	Unwell	Unwell	Old
Virulence	+++	++	+/-	+
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 interventions</u> : Central venous catheter care bundle; Peripheral intravenous cannula care bundle; Renal catheter care bundle; Care bundle to prevent surgical site infection; Care bundle for ventilated patients; Urinary catheter care bundle; Care bundle to reduce the risk from <i>Clostridium difficile</i> .		
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om 'Going further fa	<u>ster'</u>	











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wv	ww.webbertraining.com/schedulep1.php
July 9, 2019	(European Teleclass) SUPERBUGS - THE CENTRALITY OF HUMAN BEHAVIOUR: A FOCUS ON FILOVIRUS OUTBREAKS Speaker: Prof. Adriano Duse, University of the Witwatersrand, Johannesburg, South Africa
July 16, 2019	INFECTION CONTROL IN PEDIATRICS Speaker: Dr. Shahnaz Armin, Shahid Beheshti University of Medical Sciences, Iran
July 25, 2019	DIAGNOSTIC STEWARDSHIP: MODIFIED CULTURE TESTING TO ENHANCE ANTIBIOTIC STEWARDSHIP Speaker: Robert Garcia, Stony Brook University Medical Center, New York City
August 15, 2019	(FREE Teleclass) BED BUG PREVENTION IN THE HEALTHCARE SETTING Speaker: Dr. Marcia Anderson, Environmental Protection Agency, United States
August 22, 2019	HOW TO ENGAGE AND EDUCATE NURSES IN EVIDENCE-BASED PRACTICE Speaker: Eileen J. Carter, Columbia University School of Nursing
September 5, 2019	MEASURES TO PREVENT AND CONTROL VRE: DO THEY REALLY MATTER? Speaker: Dr. Hilary Humphreys, The Royal College of Surgeons in Ireland
	(FREE Teleclass) MEAT, MONKEYS, AND MOSQUITOES: A ONE HEALTH PERSPECTIVE ON

