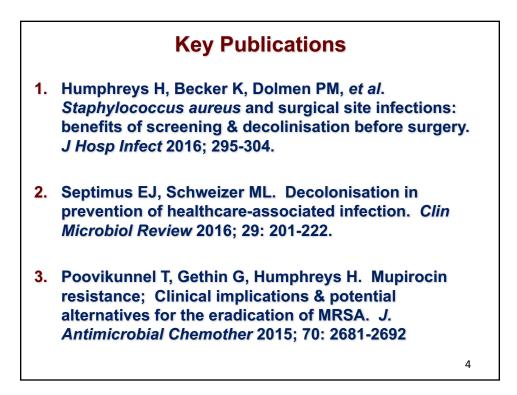


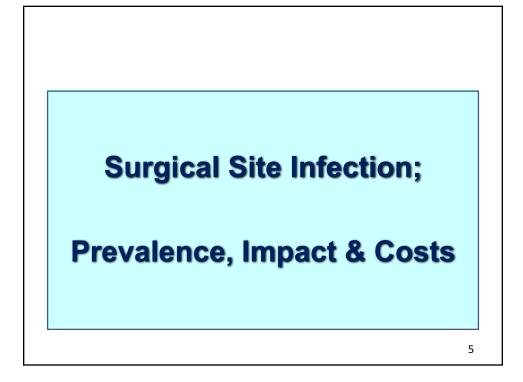


- 1. Surgical site infections (SSI); prevalence, impact & costs
- 2. Staph. aureus as a pathogen, evolution of resistance & virulence determinants
- 3. Strategies to reduce post-operative SSI
- 4. Selective screening & decolonisation or universal decolonisation – the evidence

3

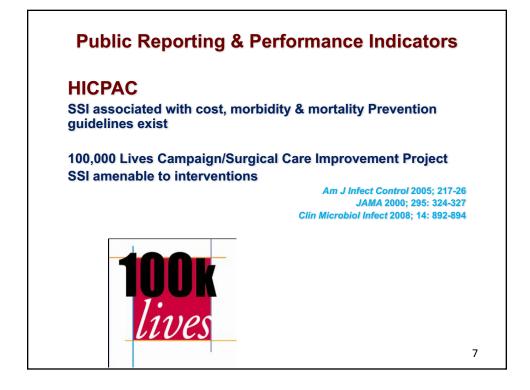
5. Conclusions

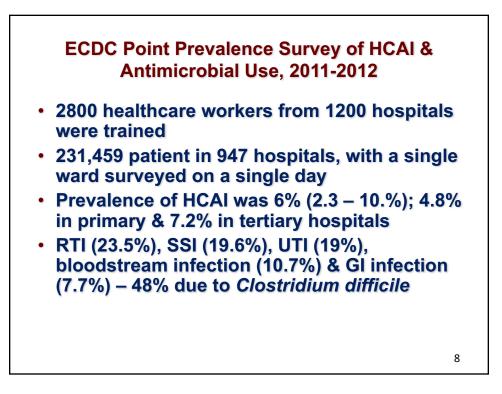


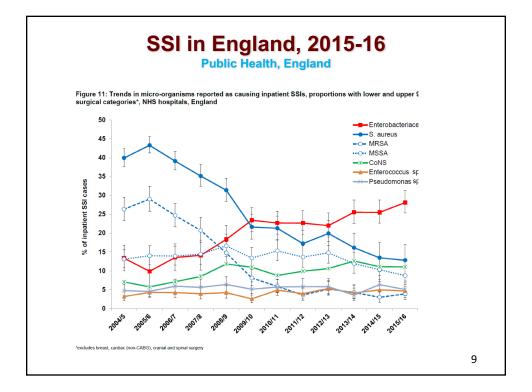


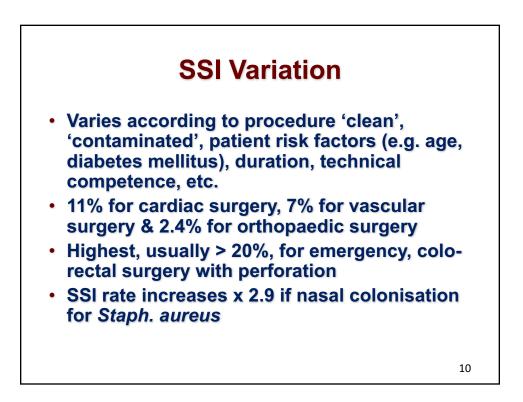


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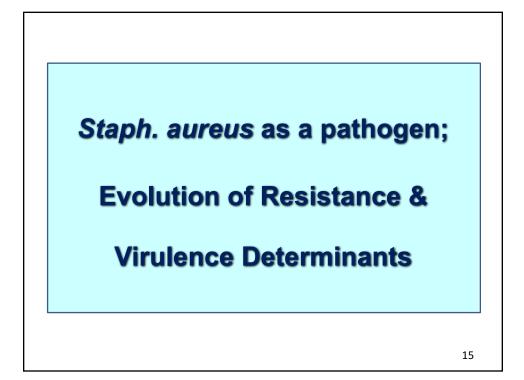


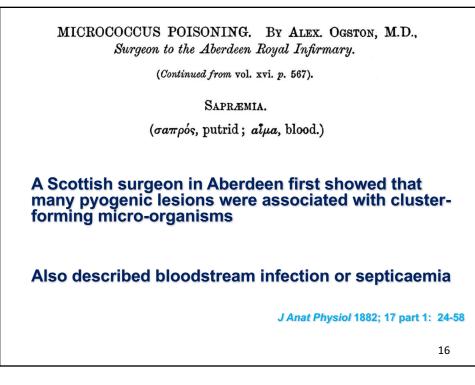


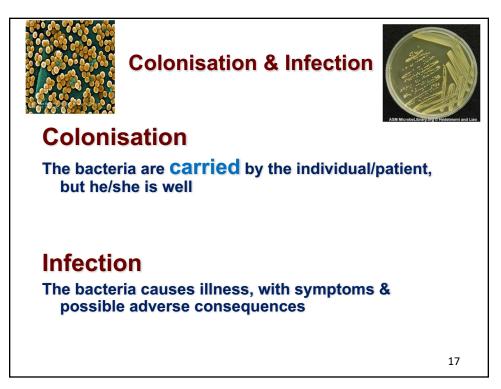


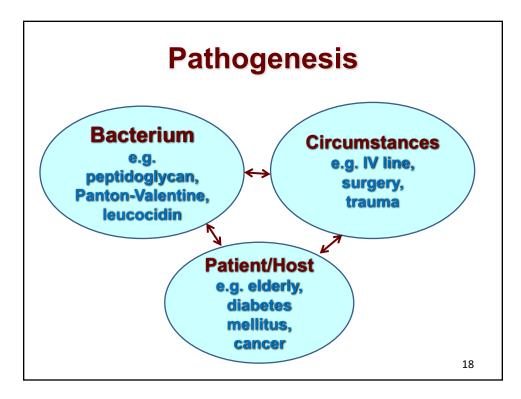
3	5	
ost discharge 122 57	-	168
	32	216
Re-admission 28 39	26	93
Follow-up 19 2	2	23
OPD + questionnaire 64 7	2	73

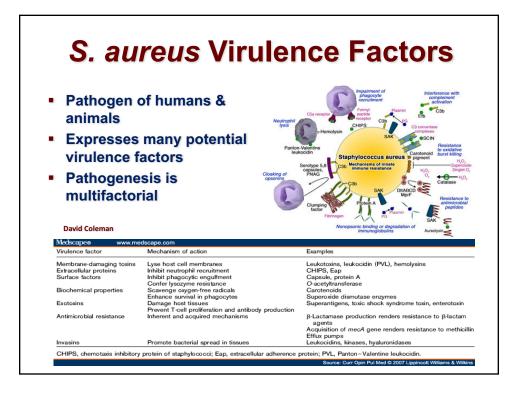
Surgical Site (Wound) Infection			
	Uninfected	MSSA	MRSA
Death	2%	7%	21%
Mean hospital stay after surgery	5d	14d	23d
Hospital charges	\$29,000	\$53,000	\$92,000
		Clin Infect	Dis 2003;36:592-98
			14

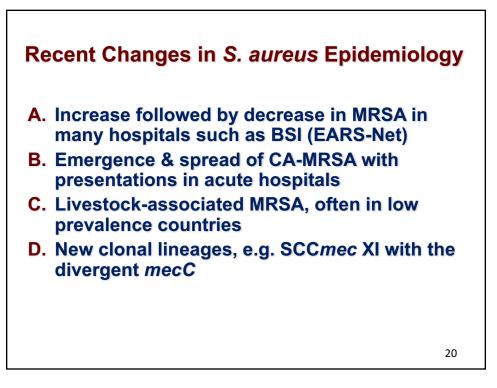












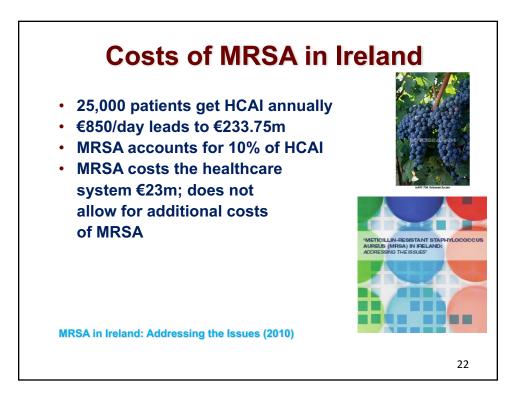


- > 29% of pig farmers & 39% of pigs MRSA+ve
- Sequence Type (ST) 398, unusual in humans
- Overuse of antibiotics in pigs, e.g. tetracyclines, or international trade in pigs

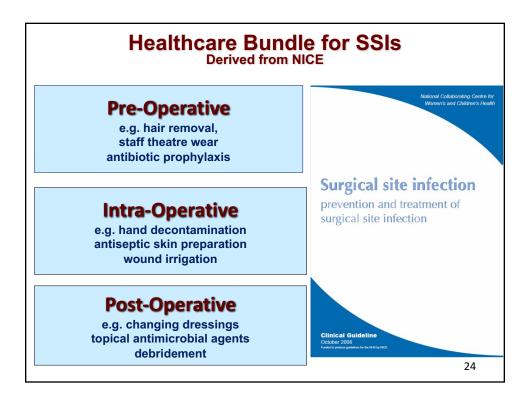


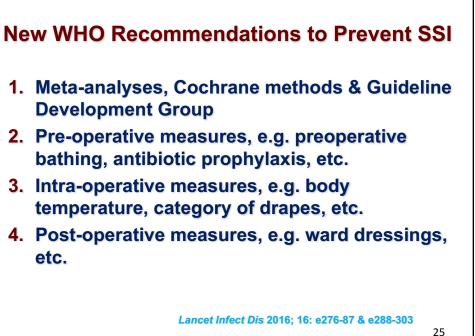
Clin Microbiol Infect 2008; 14: 519-521

21



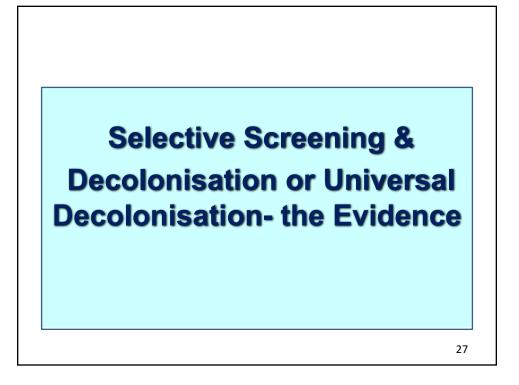


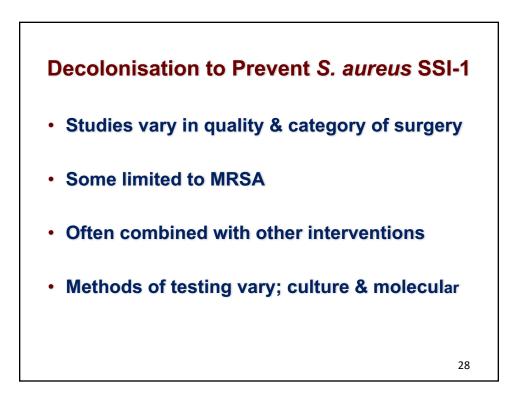


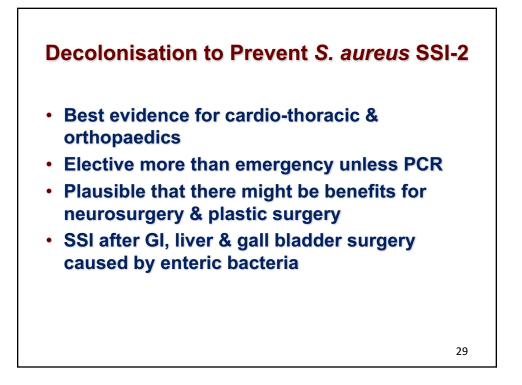


WHO & Decolonisation of S. aureus

Surgery	Recommendation	Strength	Quality of Evidence
Cardiothoracic & orthopaedic	Decolonise known carriers with mupirocin & CHG	Strong	Moderate
Other surgery	Decolonisation is suggested	Conditional	Moderate
CHG = chlorhe	tidine	Lancet Infect Dis 20	0 16; 16: e27-87 26



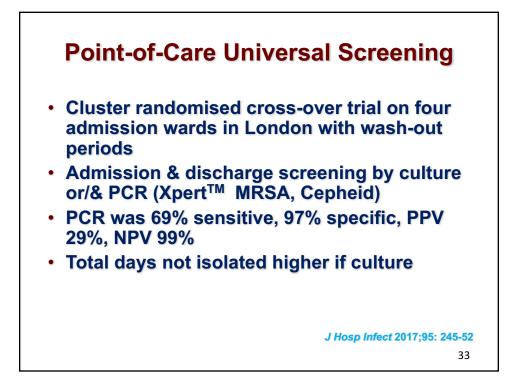




Nasal Decolonisation of S. aureus		
Conventional	Unconventional	
Mupirocin	Tea tree oil	
Bacitracin	Photodynamic therapy	
Retapamulin	Omiganan pentahydrochloride	
Povidone - iodine	Lysostaphin	
Alcohol	Honey	
	30	

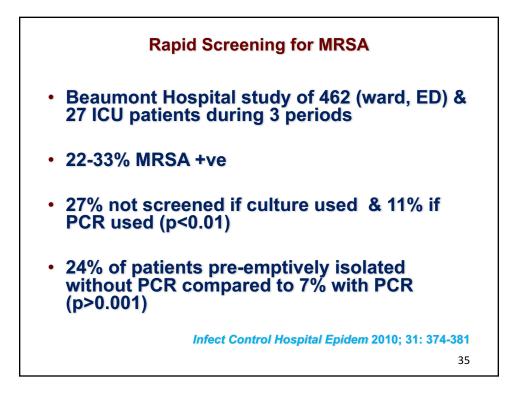
S	Skin Decolonisation of S. aureus		
	Selective	Digestive Tract Decontamination	
	Chlorhexidine (CHG)	Tobramycin, polymixin & amphothericin B	
	Hexachlorophane		
	Povidone-iodine	Directed mainly against GNBs & in ICU	
	Triclosan		
	Bleach	Has been combined with CHG	
		31	

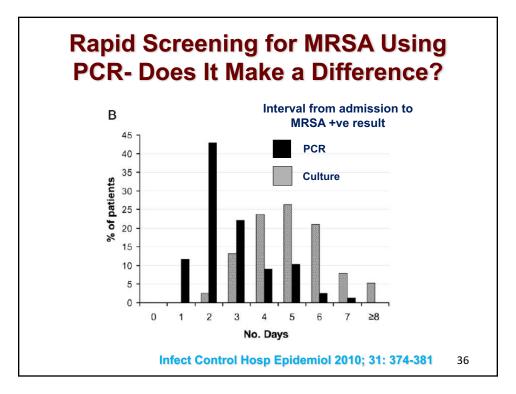


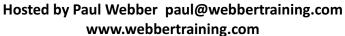


Point-of-Care Universal Screening

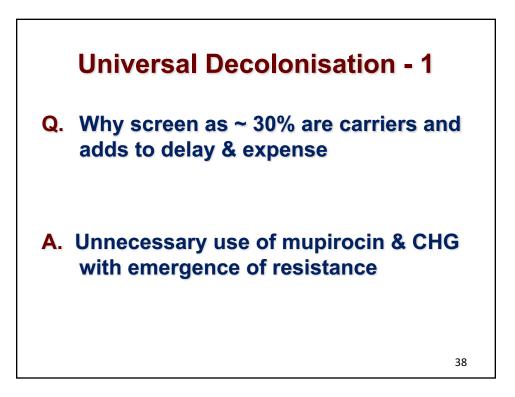
Variables	Culture	PCR
No. screened	4978 (75%)	5039 (72%)
MRSA +ve	113 (1.8%)	109 (1.6%)
MRSA acquisition by discharge	23 (0.46%)	24 (0.48%)
Acquisition/1,000 patient days	5.39	4.6
	J Hosp Infe	ect 2017; 95: 245-52 ³⁴



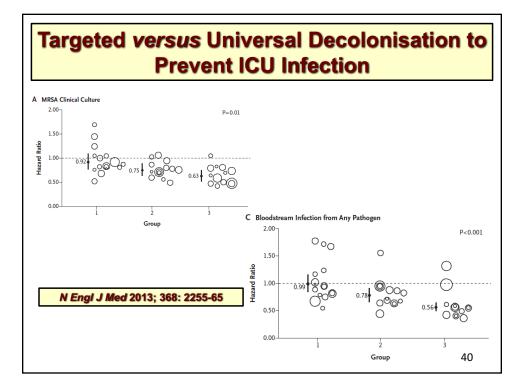




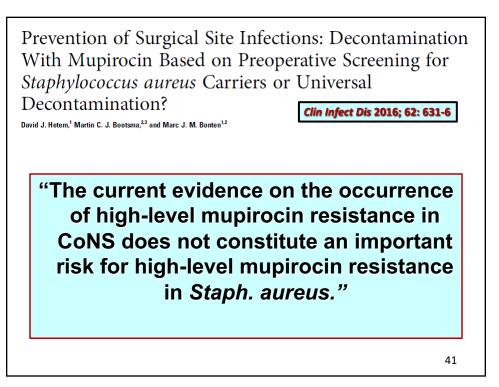
Logistical Issues • Decolonisation with prior screening requires planning, education, etc		
	ndergoing screening and decolonization before surgery Specifics	
Education requirements for patients u	Specifics Importance of personal hygiene Asking healthcare workers if they have decontaminated	
Education requirements for patients un Theme	Specifics Importance of personal hygiene	

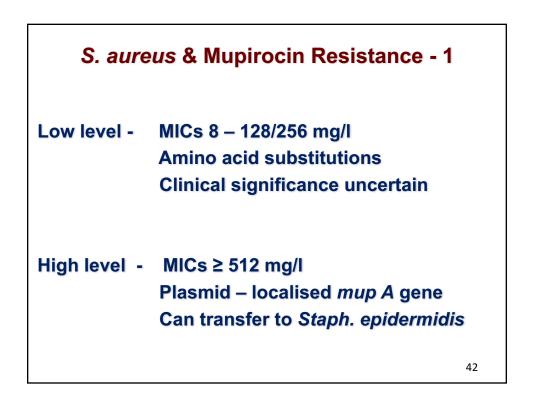


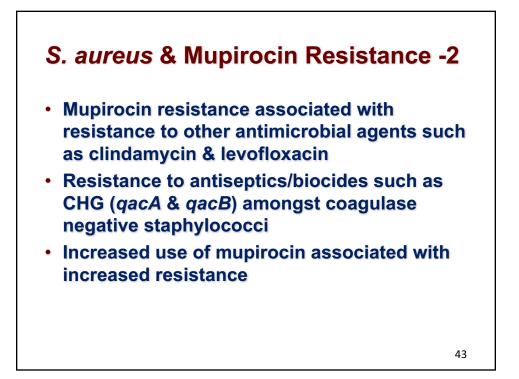


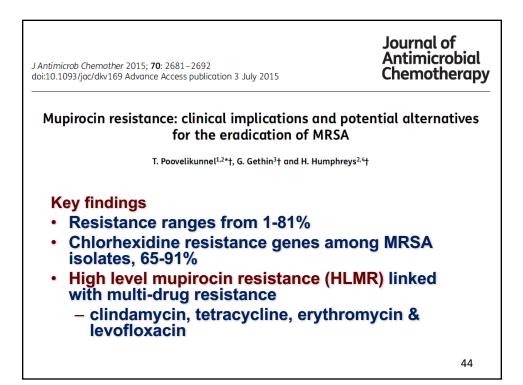


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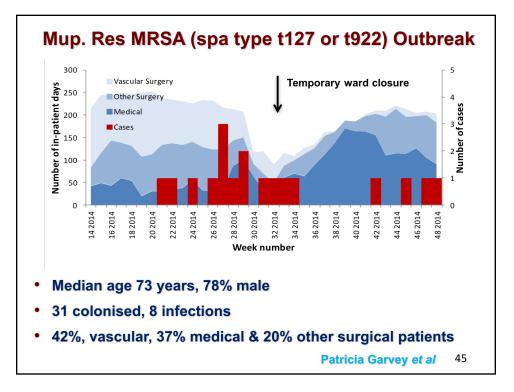


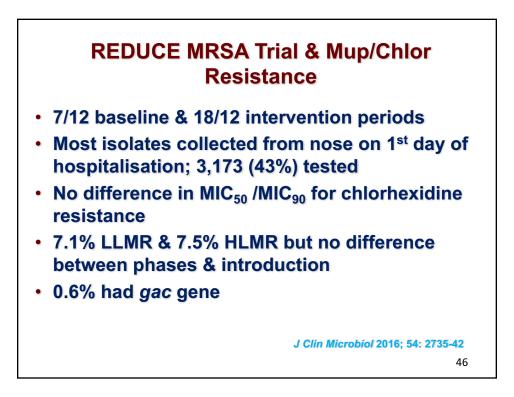


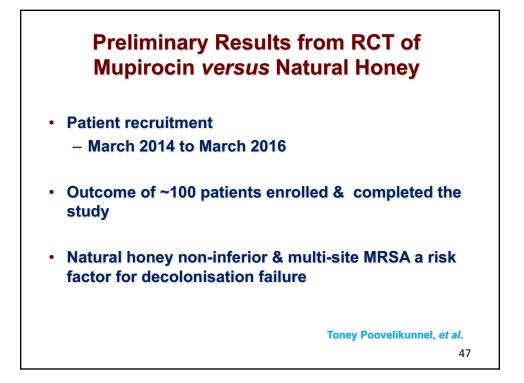


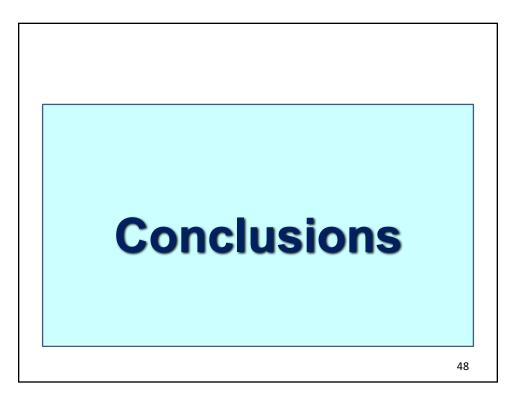


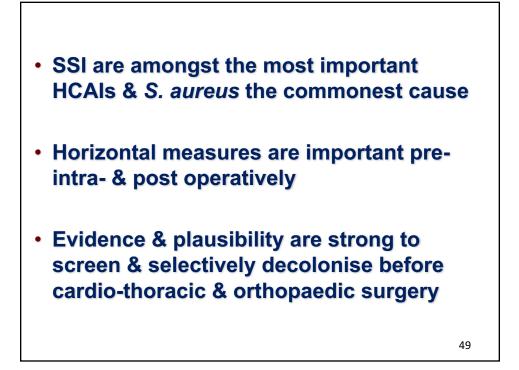


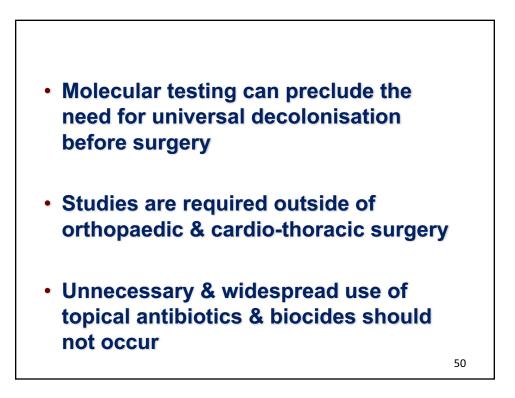














	www.webbertraining.com/schedulep1.php
April 6, 2017	TECHNOLOGIC INNOVATIONS TO PREVENT CATHETER-RELATED BLOODSTREAM INFECTIONS Speaker: Prof. Mark Rupp, University of Nebraska Medical Center
April 25, 2017	(FREE European Teleclass Denver Russell Memorial Teleclass Lecture) DO'S AND DONT'S FOR HOSPITAL CLEANING Speaker: Dr. Stephanie Dancer, Health Protection Scotland
April 27, 2017	COST ANALYSIS OF UNIVERSAL SCREENING VS. RISK FACTOR-BASED SCREENING FOR MRSA Speaker: Dr. Virginia Roth, University of Ottawa
May 5, 2017	(FREE WHO Teleclass - Europe) SPECIAL LECTURE FOR 5 MAY Speaker: Prof. Didier Pittet, World Health Organization, Geneva Sponsored by the World Health Organization Infection Control Global Unit (www.who.int/gpsc/en)
May 18, 2017	THE AIRBORNE SPREAD OF INFECTIOUS AGENTS: SURVIVAL AND DECONTAMINATION OF HUMAN PATHOGENS IN INDOOR AIR Speaker: Prof. Syed A. Sattar, University of Ottawa Faculty of Medicine
	(European Teleclass)

