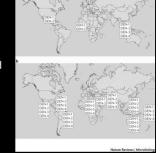
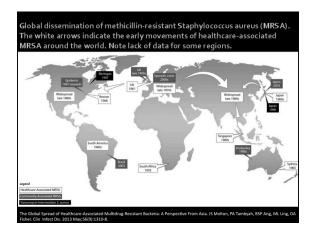
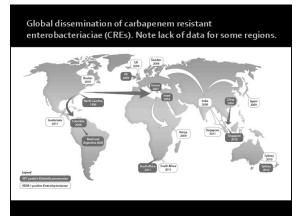


Dengue serotypes 1970 to 2004

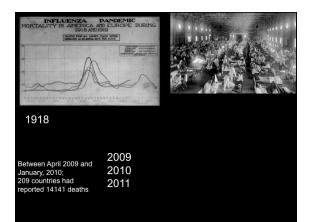
- 230 million cases annually
- 500,000 hospitalised
- 25,000 deaths

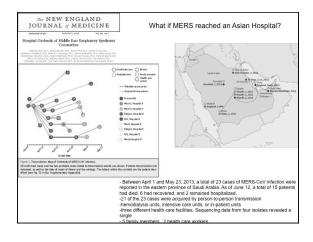






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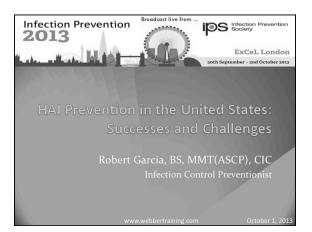


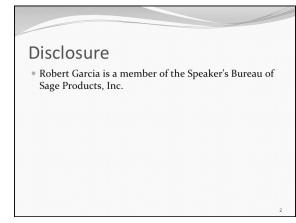


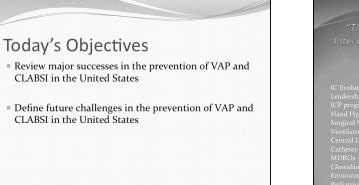


- "It is time to close the book on infectious diseases, and declare the war against pestilence won"
 - Dr. William H. Stewart, US Surgeon General 1965-'69

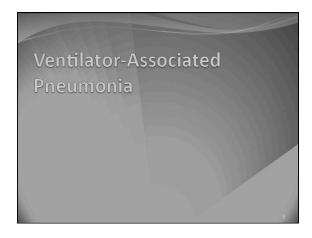




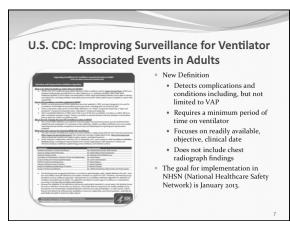


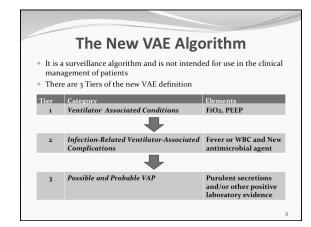


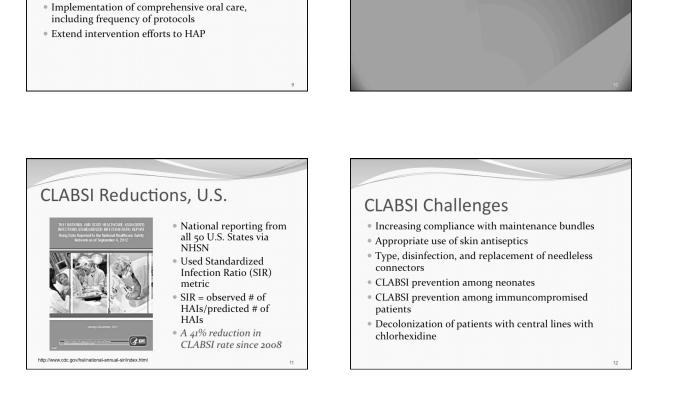
"The Sixth Evolutionary Era of Our Profession: Interventions & Implementation for the Prevention of Healthcare Associated Infections" (pending publication, AJIC, 2013)
IC Evolution since 2000 - Robert Garcia Leadership - Chris Nutty ICP programs - Sue Barnes Hand Hygiene - Robert Garcia Surgical Site Infections - Charles Edmiston Ventilator-associated Pneumonia - Linda Greene Central Line Associated Bloodstream Infections - Rabih O. Darouiche, MD Catheter-associated UTIs - Robert Garcia MDROs - Robert Garcia <i>Clostidium difficile</i> - Russ Olmsted & Charles Edmiston Environmental contamination and disinfection - D. Weber, MD, W, Rutala Pediatrics - Craig Gilliam

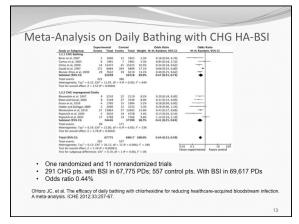


NHSN, ICU VAP Rates										
2006										
Туре	# ICUs	# VAP	VDs	Mean	10%	25%	50%	75%	90%	
Cardiac	48	100	35,727	12.3	0.0	0.0	1.3	4.5	6.6	
Medical	64	339	109,277	3.1	0.0	0.9	2.8	4.6	7.2	
Surgical	61	384	73,205	5.2	0.0	1.8	4.1	6.0	10.0	
Neurosurg	15	97	13,799	7.0						
Peds	32	81	32,936	2.5	0.0	0.0	1.0	2.8	6.1	
2011										
Туре	# ICUs	# VAP	VDs	Mean	10%	25%	50%	75%	90%	
Cardiac	161	138	128,369	1.0	0.0	0.0	0.0	1.3	3.8	
Medical	89	188	174,412	1.1	0.0	0.0	0.7	1.8	3.0	
Surgical	70	290	122,472	2.4	0.0	0.6	1.7	3.5	6.4	
Neurosurg	66	161	70,894	2.3	0.0	0.0	0.7	3.0	5.9	
Peds	121	146	135.585	1.1	0.0	0.0	0.0	1.4	3.2	





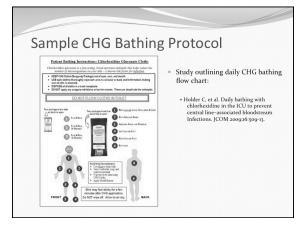




VAP Challenges

• International standards for VAP definition

Use of subglottic secretion suction devices
Use of silver coated tracheostomy tubes
Use of tapered, cylindrical endotracheal tubes

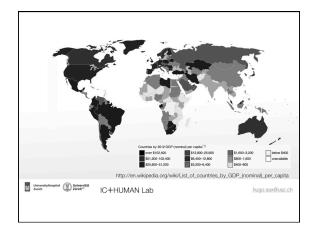


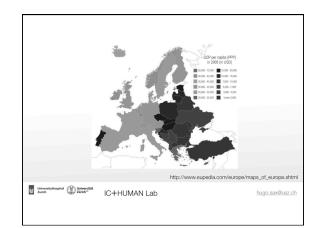
Central Line-Associated

Bloodstream Infections

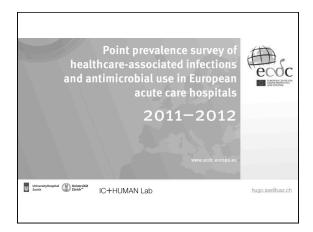




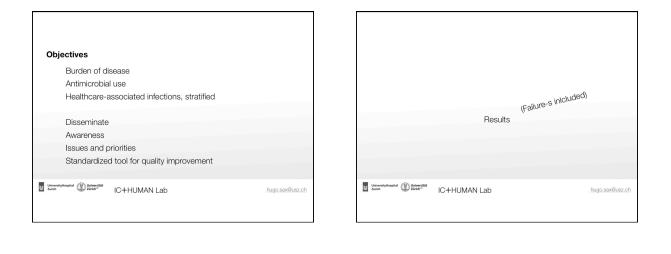


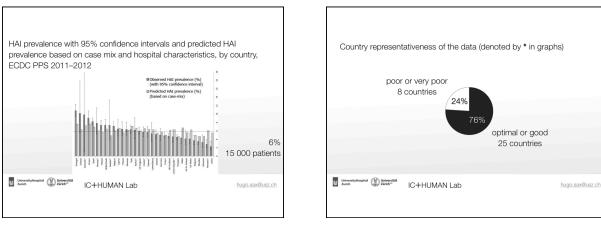


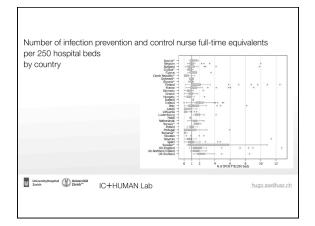
	European Union Council Recommendation: 2009/C 151/01 On patient safety, including the prevention and control of healthcare associated infections.
Success	associated infections. Paragraph 8. c) (a) establish or strengthen active surveillance systems by: (b) at national or regional level: - organising prevalence surveys at regular intervals, as appropriate: - http://euriex.europa.eu
Livershiftingeld Distance II C+HUMAN Lab hugo.sax@usz.ch	Unternitetate Decembration CHHUMAN Lab hugo saxifiusz ch

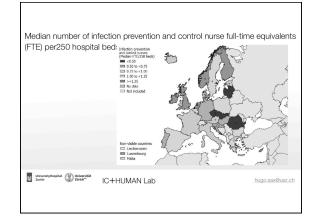


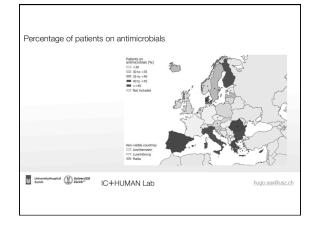
	prevalence surv	ey (PPS) of healthca	0 countries, ECDC's re-associated infecti survey of its kind eve	ons (HAIs)
U	UniversityHospital Universität Zurich	IC+HUMAN Lab		hugo.sax@usz.ch

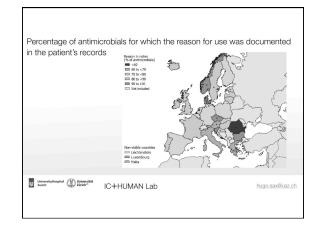


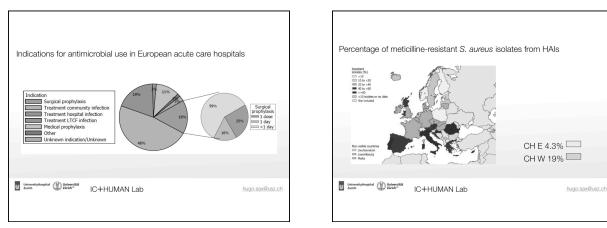


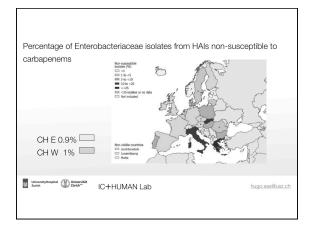


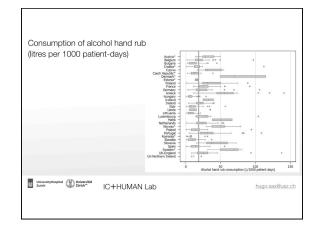


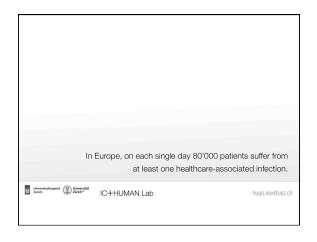


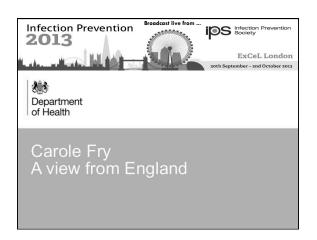


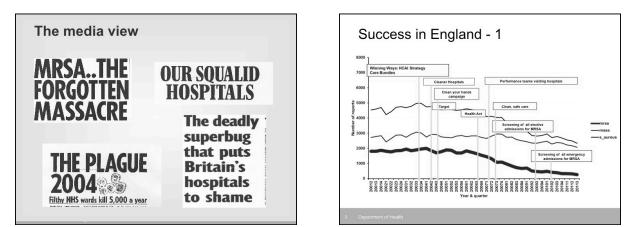








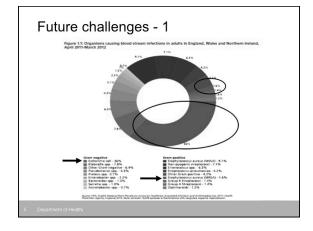




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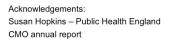
Success in England - 2

- Spot light
- Management and organisational awareness
- Clinician engagement
- Change in nomenclature
 HAI → healthcare associated infection
 infection control → infection prevention and control



Future challenges - 2

- Global problem
- · Increased incidence of Gram negatives
- Antimicrobial resistance
- · Behavioural change
- Sustainability







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