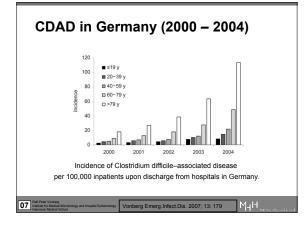
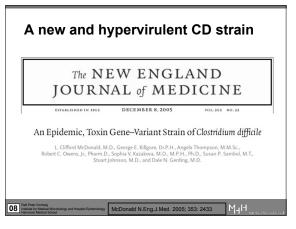
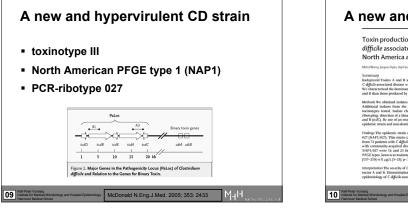
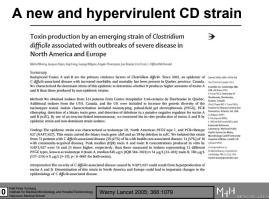


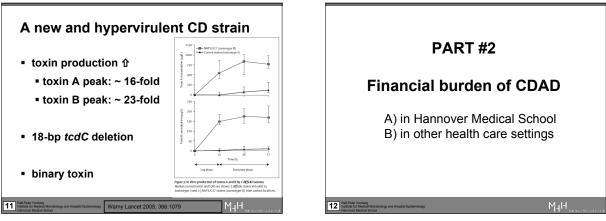
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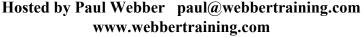


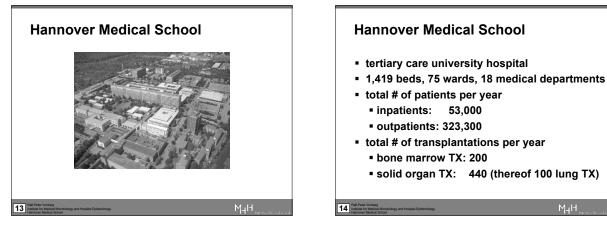


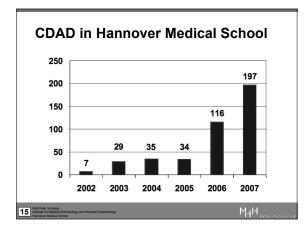


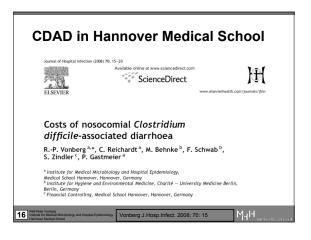


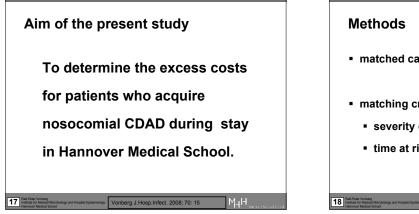


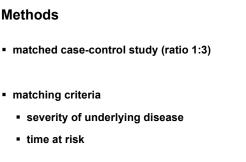










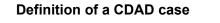


Vonberg J.Hosp.Infect. 2008; 70: 15

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20 Rait-Poter Institute fo



- inpatient of Hannover Medical School between January 1st and December 31st 2006
- onset of CDAD symptoms (diarrhea)
 >72 hours after admission to the hospital
- detection of CD in stool samples by either
 - positive toxin A / toxin B ELISA or
 - culturing of a toxin-producing CD strain



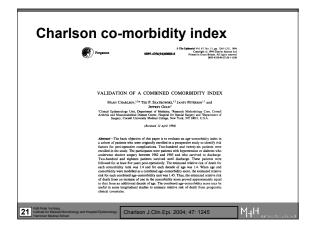
- inpatient in our facility in the same year
- diagnosis related group (DRG) must exactly match the corresponding CDAD case
- length of hospital stay (LOS) ≥ CDAD case
- at no time any signs or symptoms of CDAD

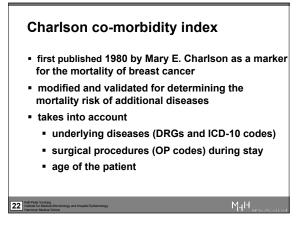
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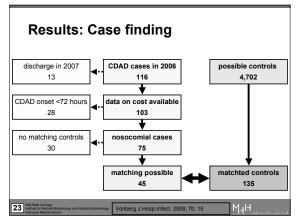
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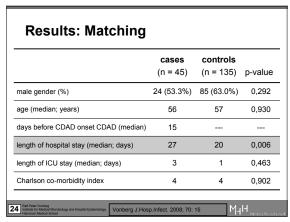
- Charlson co-morbidity index ± 1

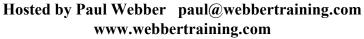
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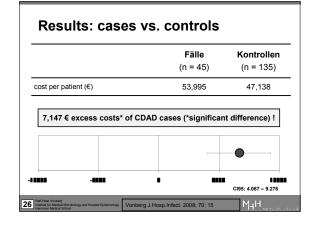




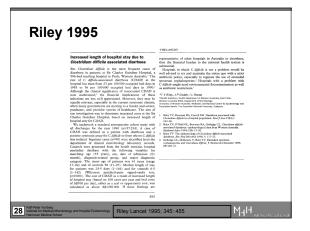


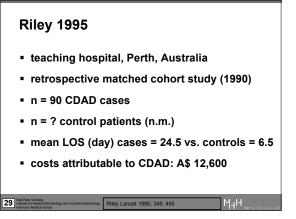


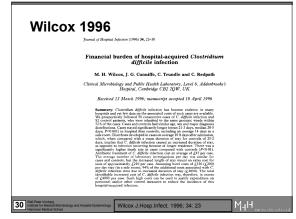




	Fälle (n = 45)	Kontrollen (n = 135)
cost per patient (€)	53,995	47,138
re-imbursement per patient (€)	47,888	45,734
financial loss per patient (€)	6,107	1,404
financial loss per patient day (€)	165	51







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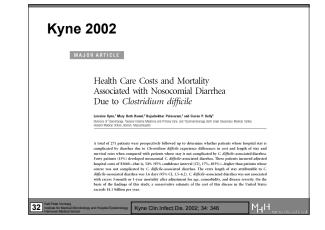
Wilcox 1996

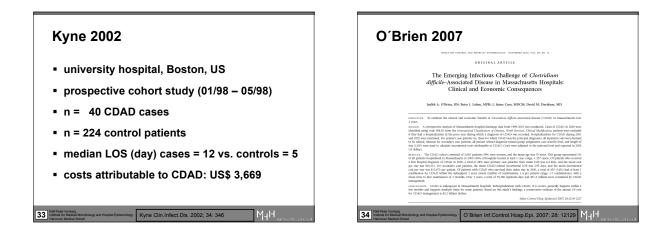
- university hospital, Cambridge, UK
- matched case-control study (12/94 06/95)
- n = 50 CDAD cases
- n = 92 control patients
- mean LOS (day) cases = 46.5 vs. controls = 25.2

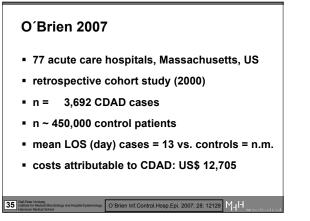
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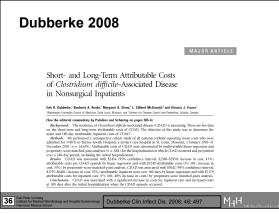
■ costs attributable to CDAD: £ 4,107

31 Ralf-Peter Vorberg Institute for Medical Microbiology and Hospital Epidemiology Wilcox J.Hosp.Infect. 1996; 34: 23









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Dubberke 2008

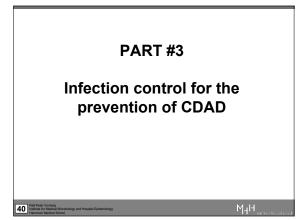
- tertiary care hospital, St. Louis, US
- retrospective cohort study (01/03 12/03)
- n = 439 CDAD cases
- n = 24,252 control patients
- median LOS (day) cases = 10 vs. controls = 4
- costs attributable to CDAD: US\$ 9,085

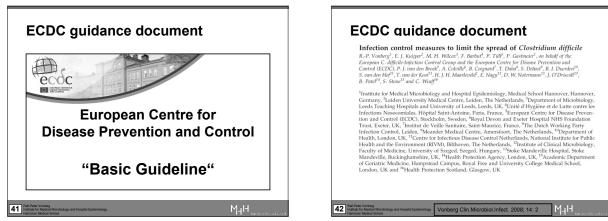
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Financial burden of CDAD

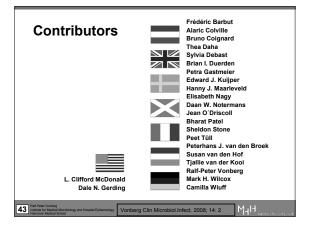
	excess cost of	= US\$
	CDAD cases	(in study year)
Riley 1995	A\$ 12,600	9,366
Wilcox 1996	£ 4,107	6,393
Kyne 2002	US\$ 3,669	3,669
O'Brien 2007	US\$ 12,705	12,705
Dubberke 2008	US\$ 9,085	9,085
Vonberg 2008	€ 7.147	8,283

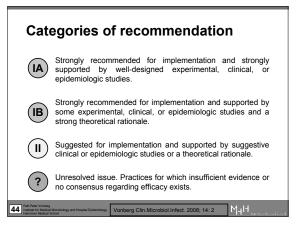


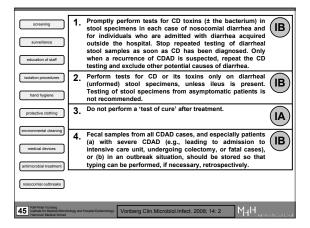




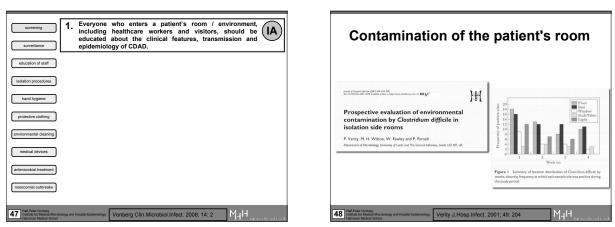
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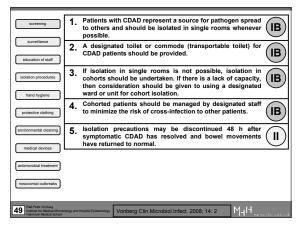




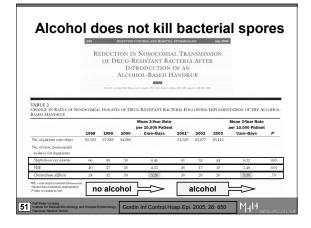
screening	1.	Ensure routine surveillance of CDAD should be carried out routinely in hospitals.
surveillance education of staff	2.	Determine the unit-specific baseline incidence of CDAD by reviewing results of fecal toxin tests or CD cultures.
isolation procedures	3.	Define a threshold incidence or frequency of CDAD that would trigger implementation of additional control IB interventions.
hand hygiene protective clothing	4.	Ensure appropriate and prompt diagnostic testing of patients with an acute diarrheal illness not otherwise explained (especially with diarrhea associated with antimicrobial therapy).
environmental cleaning medical devices	5.	Be alert for changes in the rate, complications (including recurrences) or severity of CDAD that may indicate the introduction of new strain(s).
antimicrobial treatment		
nosocomial outbreaks		
46 Ralf-Peter Vonberg Institute for Medical Microb Hannover Medical School	iology and l	Traped Epidemiology Vonberg Clin.Microbiol.Infect. 2008; 14: 2 MH H $_{ m nonvariated is cold}$



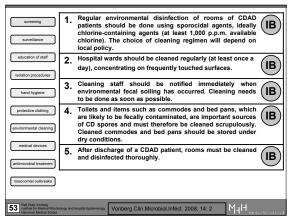
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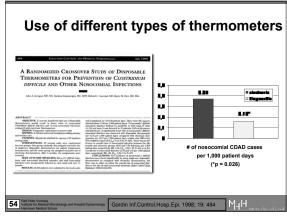


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screening surveillance education of staff isolation procedures	1.	Besides the use of gloves, meticulous hand washing with soap and water is recommended for all staff after contact with body substances, or following any other potential contamination of hands when caring for known CDAD patients. The physical action of rubbing and rinsing is the only way to remove spores from hands. Washing of hands using water and soap is also recommended after the removal of gloves or aprons used during contact with individual patients.
hand hygiene	2.	There is no recommendation for the use of a soap that contains antiseptic substances.
protective clothing environmental cleaning	3.	Alcohol-based hand rub should not be the only hand hygiene measure when caring for suspected or proven CD (IB) positive patients.
medical devices		
antimicrobial treatment		
nosocomial outbreaks		
50 Ralf-Peter Vonberg Institute for Medical Microb Hannover Medical School	iology and I	Hospital Epidemickopy Vonberg Clin.Microbiol.Infect. 2008; 14: 2 MHH metror March Devi

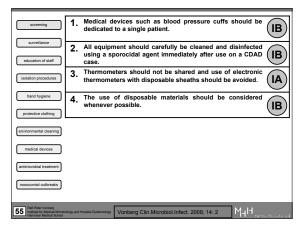


screening	1. Healthcare workers should wear gloves for contact with a CDAD patient; this includes contact with body substances, and / or potentially contaminated environment (including
suiveinance	the immediate vicinity of the patient).
education of staff	2. Gowns or aprons should always be used for managing patients who have diarrhea.
isolation procedures	
hand hygiene	
protective clothing	
environmental cleaning	
medical devices	
antimicrobial treatment	
nosocomial outbreaks	
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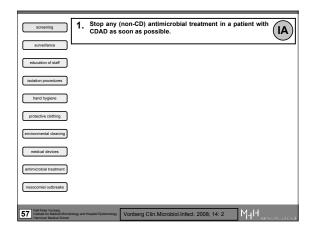




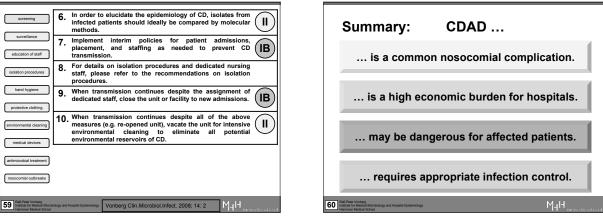
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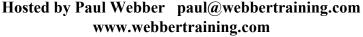






-		
screening	1.	Infection control staff should always be informed when there is an increased number or severity of CDAD cases.
surveillance	2.	All hygiene measures should be reinforced in case of a CDAD outbreak.
education of staff		
isolation procedures	3.	Review the standard of environmental cleaning to ensure high quality and frequency of decontamination. If possible, implement a designated and well-educated cleaning team especially for the rooms of CDAD patients.
protective clothing environmental cleaning	4.	Perform good antibiotic stewardship. Antimicrobial prescribing (frequency, duration, and types of agents) should be reviewed as soon as possible, with emphasis on avoiding the use of high-risk agents (e.g. cephalosporins, fluoroquinolones and clindamycin) in at-risk patients. Use these agents only when medically needed.
medical devices	5.	Fecal samples from all CDAD cases should be stored, so that they can be cultured, either locally or in a reference laboratory, and typing can performed, if necessary, retrospectively.
nosocomial outbreaks		
58 Ralf-Peter Vonberg Institute for Medical Microbio Hannover Medical School	ology and H	Nonpeter Epidemiology Vonberg Clin.Microbiol.Infect. 2008; 14: 2





05 Nov. 09	NEXT FEW TELECLASSES Viruses and Hand Hygiene Speaker: Prof. Syed Sattar, University of Ottawa	
03 Dec. 09	Infection Control During and After Natural Disasters Speaker: Pam Falk, UTMB Healthcare	
10 Dec. 09	Environmental Cleaning Audits: Do They Help Reduce the Spread of C. difficile and Antibiotic Resistant Organisms in Healthcare Facilities? Speaker: Dr. Michelle Alfa, Diagnostic Services Manitoba	
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