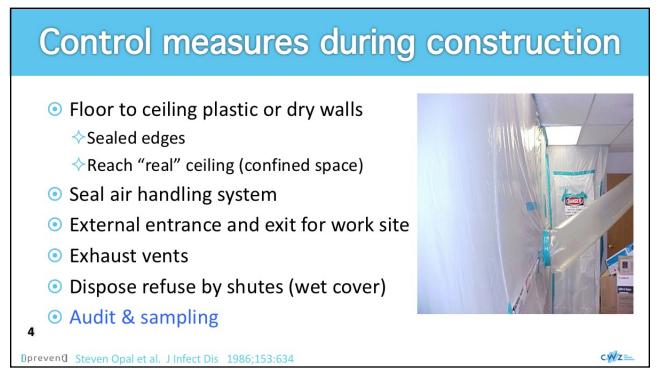


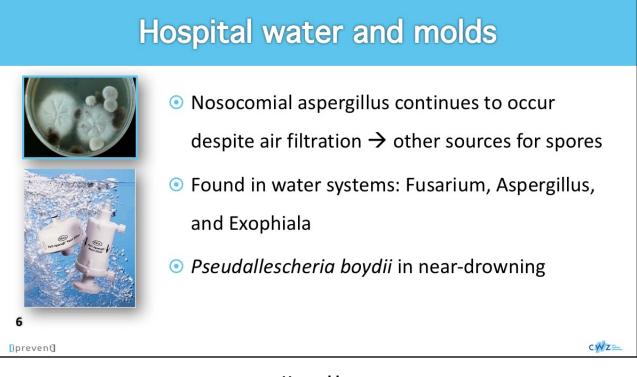


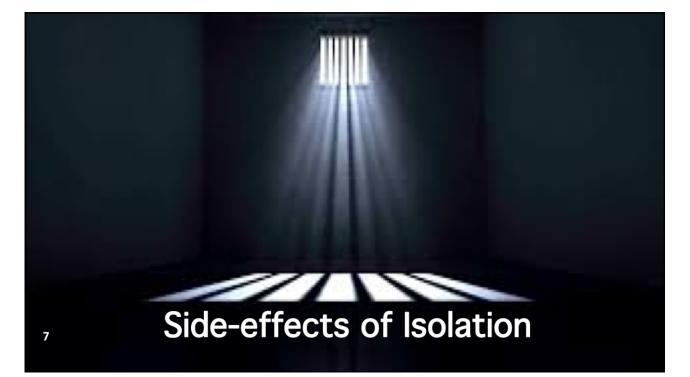
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	The olden (lethal)	or ensure that construction site is sealed
The Journal of Infectious Diseases	Efficacy of Infection Control Measures during a Nosocomial Outbreak of Disseminated Aspergillosis Associated with Hospital Construction Steven M. Opal, Amold A. Asp. Preston B. Cannady Jr., Pari L. Morse, Linda J. Burton and Phillip G. Harmer II The Journal Infections Diseases Vol. 153, No. 3 (Mar., 1986), pp. 634-637 THE JOURNAL OF INFECTIOUS DISEASES + Vol. 153, NO. 3 • MARCH 1986 Efficacy of Infection Control Measures During a Nosocomial Outbreak of Disseminated Aspergillosis Associated with Hospital Construction	
3	<ul> <li>♦ 1981-1983 hospital construction</li> <li>♦ 11 cases of disseminated, IA</li> <li>♦ all died</li> </ul>	<ul> <li>During hospital construction, neutropenic patients with hematologic malignancy were required to wear high-efficiency masks when leaving their rooms</li> <li>IA rate decreased from 0.73 (1993-96) to 0.24 per 1,000 hospital patient-days (1996-99 (p &lt; 0.001)</li> <li>"High-efficiency masks reduced nosocomial aspergillosis during hospital construction."</li> </ul> Raad I et al. ICHE 2002;23:41-43









Participants reported a moderate level of isolation-related distress, anxiety, and boredom: the more the anxiety and the boredom, the more the distress

Protective Isolation for Patients with Haematological Malignancies: A Pilot Study Investigating Patients' Distress and Use of Time %

O. Annibali<sup>1</sup>, C. Pensieri<sup>2</sup>, V. Tomarchio<sup>1</sup>, V. Biagioli<sup>3</sup>, M. Pennacchini<sup>2</sup>, A. Tendas Tirindelli<sup>1</sup>

<sup>1</sup>Unit of Hematology, Stem Cell Transplantation, Transfusion Medicine and Cellular Therapy, Campus Bio-Medico University Italy <sup>2</sup>Institute of Philosophy of Scientific and Technological Activity, Campus Bio-Medico University of Rome, Rome, Italy <sup>3</sup>Department of Biomedicine and Prevention, School of Nursing, University of Rome Tor Vergata, Rome, Italy <sup>4</sup>Hematology Unit, Ospedale Sant'Eugenio Hospital, Roma, Italy

[prevent]

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Boredom far less deadly

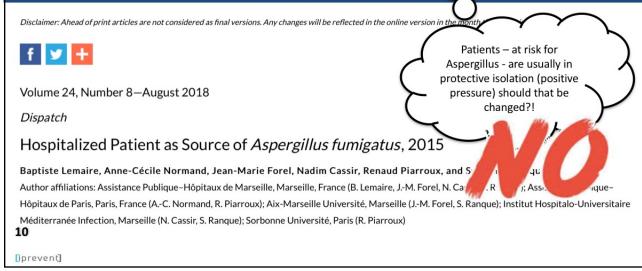
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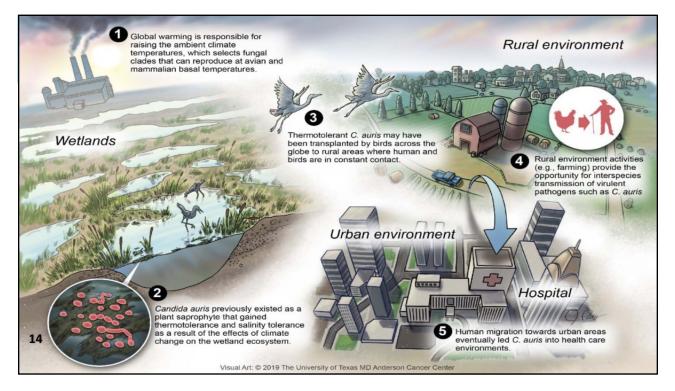
Airway of a patient as source of *Aspergillus fumigatus*. Therefore, patients colonized with *Aspergillus* spp. should be treated in airborne infection isolation rooms.

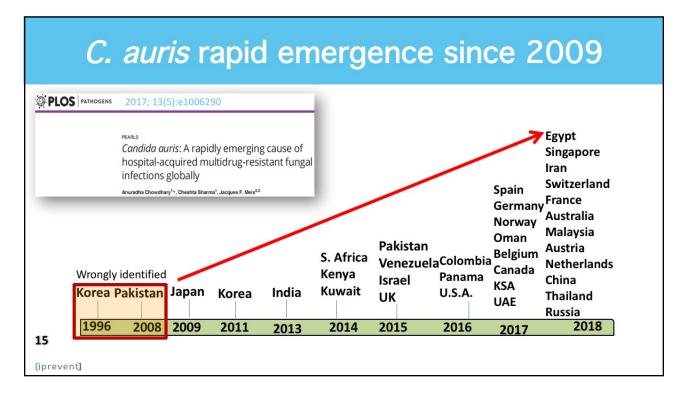




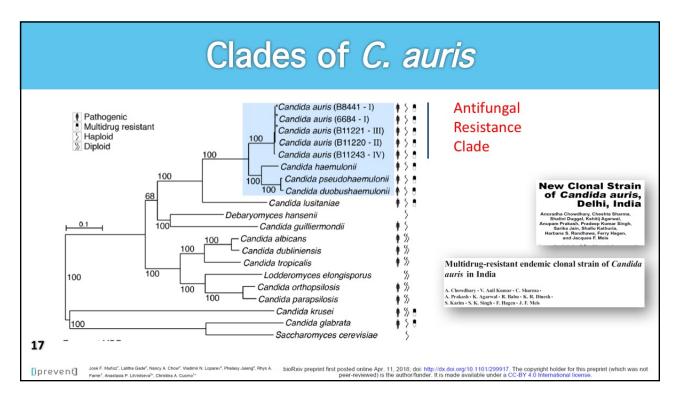




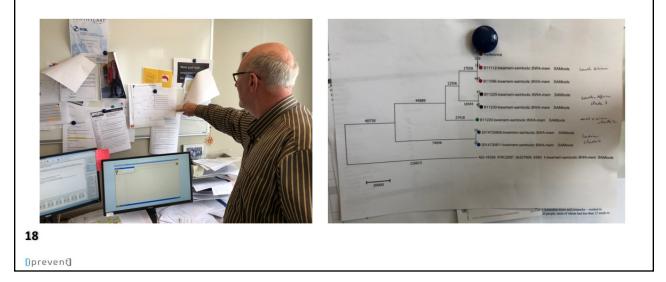




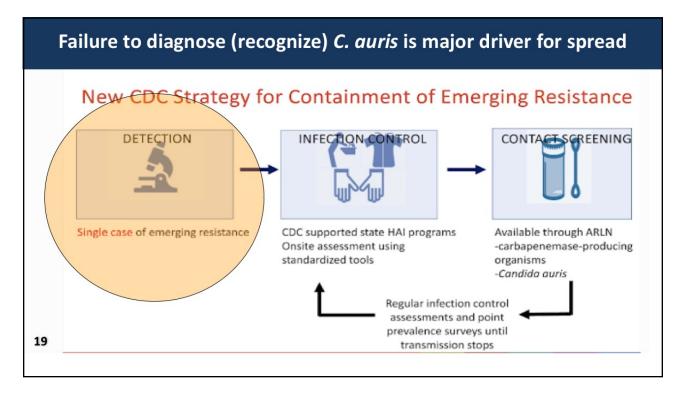
		And Andrews		
m	Isolation	Countries	References	
and a	Ear	Japan, Korea, USA, Austria, Iran, Switserland, Canada	Satoh et al., 2009; Kim et al., 2009; Vallabhaneni et al., 2016; Choi et al., 2017 etc.	- And a start
	BAL, Sputum, Pleural Fluid	India, UK, USA, Spain	Chowdhary et al., 2014; Kathuria et al., 2015; Khillan et al., 2014; Borman et al., 2016; Prakash et al., 2016, Tsay et al 2017 etc	
	Pericardial fluid	India	Khillan et al 2014	
~~	Peritoneal fluid, Bile fluid	Colombia, USA	Morales-Lopez et al., 2017, Tsay S et al 2017	
	Cerebrospinal fluid	UK, Colombia, Spain	Borman et al., 2016; Morales-Lopez et al., 2017 etc.	
Countries with >10 isolates/cases repo Countries with < 5 isolates/cases repo	Arterial line, Pustule swab, wound swab, femoral line, excised tissue, jejunal biopsy	UK, India, USA, Spain	Borman et al., 2016; Schelenz et al., 2016, Chowdhary et al., 2014, Kathuria et al., 2015; Lockhart et al., 2017, Tsay S et al 2017 etc.	
	Urine	India, Israel, USA, Colombia, UK, Spain	Kathuria et al., 2015; Ben Ami et al., 2017; Vallabhaneni et al., 2016; Lockhart et al., 2017; Morales-Lopez et al., 2017, Schelenz et al 2016 etc.	NEW ZEALAND
16	High vaginal swab	India	Kumar et al., 2015	· / .
			Saris et al. Curr Opin Infect Dis. 2018 Aug;	31(4):334-340.



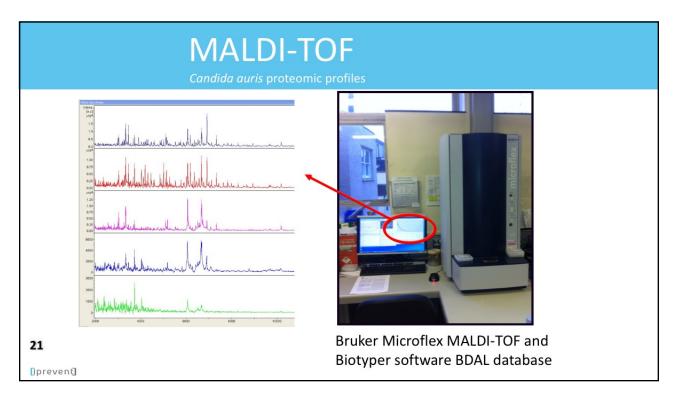
# To be published ... the 5th Clade

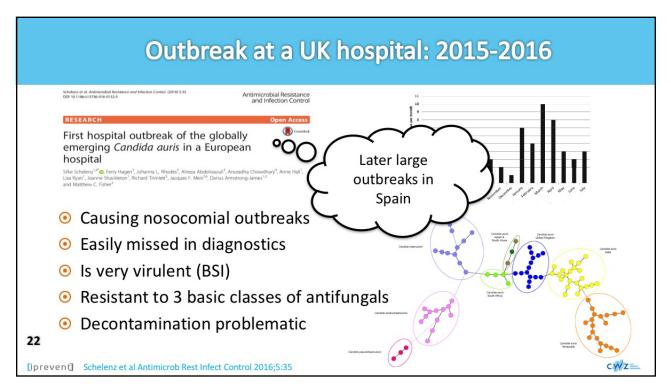


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Can Multi Be Reliabl Microbiolo Masako Mizusawa, <sup>a</sup>	y Identifie ogy Labora Heather Miller, <sup>a,b</sup> Ra Rosalie Perkins, <sup>d</sup> Car	Februar tant Candi d in Clinic atories?	al	55 Issue 2
VITEK 2 Compact (bioMérieux)	API20C-AUX (bioMérieux)	MicroScan (Beckman Coulter)	AuxaColor 2 (BioRad)	BD Phoenix (BD)
C. haemulonii	Rhodotorula glutinis	C. famata	Saccharomyces cerevisiae	C. haemulonii
C. famata	C. sake	C. lusitaniae		C. catenulata
C. lusitaniae	C. famata	C. guilliermondii		
		C. parapsilosis		
Updated VITEK2 C. auris		C. tropicalis		
20		C. albicans		



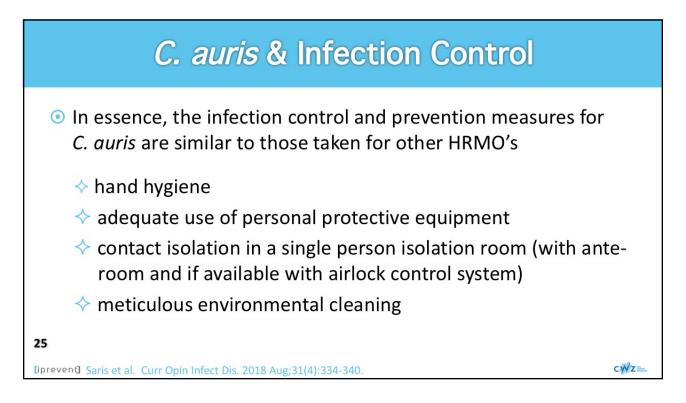


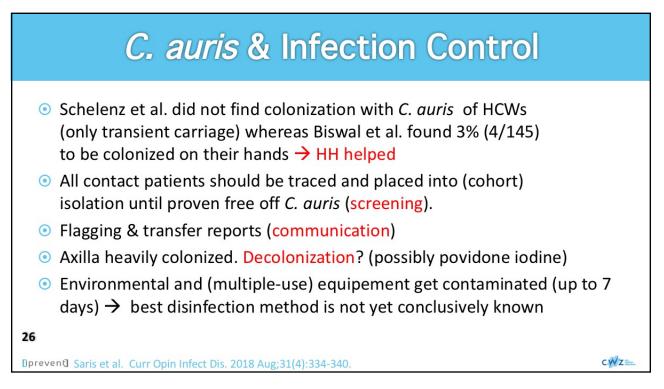
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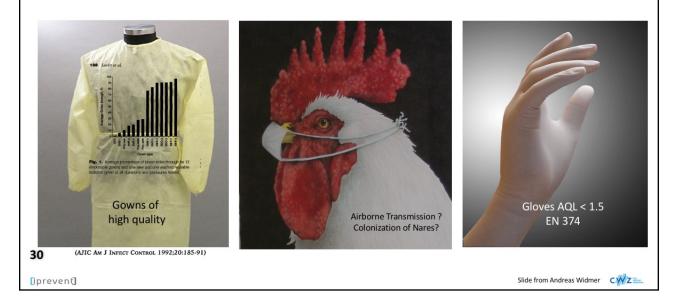
#### CWZ een santeon ziekenhuis

TABLE 1 | Recommendations from major world health organizations for infection control of Candida auris.

Health Organization	Environmental disinfection	Decolonization procedure	Hand hygiene procedure
Centers for Disease Control and Prevention	Daily and terminal deaning with use of an EPA-registered hospital-grade disinfectant effective against <i>C. difficile</i> spores.	No recommendations.	Use alcohol-based hand sanitizer or hand washing with soap and water, before and after donning gloves.
Public Health England	Terminal cleaning with use of a hypochlorite at 1000 ppm. Equipment should be cleaned according to manufacturer's instructions.	No recommendations.	Hand washing with soap and water followed by alcohol-based hand sanitizer on dried hands, before and after donning gloves.
European Centre for Disease Prevention and Control	Terminal cleaning with disinfectants with certified antifungal activity.	No recommendations.	No recommendations.
Centre for Opportunistic, Tropical and Hospital Infections (South Africa)	Regular and terminal cleaning with chlorine-releasing agent at 1000 ppm. Consider hydrogen peroxide vapor in terminal cleaning, if feasible.	Not recommended due to limited evidence.	Hand washing with soap and water, especially with soiling, followed use of alcohol-based hand sanitizer.
Pan American Health Organization/World Health Organization 3	Daily and terminal deaning with soap and water followed by 0.1% bleach. Clean, disinfect, or sterilize equipment and appliances as per the type of material, after use by the patient. Machine wash linens and clothes.	No recommendations.	No recommendations.

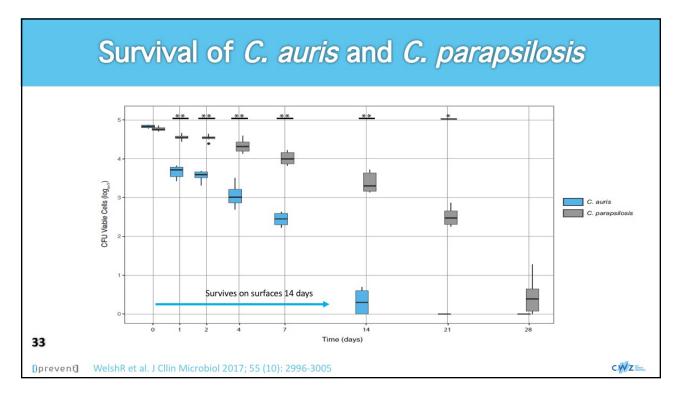
	TABLE 2   Surface di	sinfectants tested against C. auris.				
	Disinfectant	Concentrations tested (contact time in minutes)	Effective	Level of evidence	Comments	Reference
	Chlorine	0.39% (1), 0.65% (1), 0.825% (1), 1% (10), 2% (10), 1000 ppm (3, 5, 180, 1800), 10000 ppm (3, 180, 1800)	Yes	Good	Most extensively studied. Can cause ocular irritation, or oropharyngeal, esophageal, and gastric burns. Can corrode metals at concentrations > 500 ppm.	Abdolrasouli et al., 2017; Biswal et al., 2017; Cadnum et al., 2017b; Moore et al., 2017
	Hydrogen peroxide	8 g/m <sup>3</sup> (?), 1.4% (1)	Yes	Moderate		Abdolrasouli et al., 2017 Cadnum et al., 2017b
	Hydrogen peroxide+silver nitrate	11% (60)	Yes	Low		Biswal et al., 2017
only?	Phenolics	5% (?)	Yes	Low	Not FDA-approved for use as high-level disinfectant but can be used to preclean before terminal sterilization.	Biswal et al., 2017
	Glutaraldehyde	2% (20)	Yes	Low	Expensive and toxic. Should be used for medical equipment cleaning.	Biswal et al., 2017
t all desinfectants of e same group have	Alcohols	29.4% (0.5)	Yes	Low	Difficult to achieve prolonged contact time due to rapid evaporation. Flammable. May harden rubber and certain plastic tubing after prolonged and repeated use.	Cadnum et al., 2017b
same effect e.g.	Acetic acid	>5% (3)	No	Low		Cadnum et al., 2017b
nydrogen peroxide	Peracetic acid	2000 ppm (5, 10)	Yes	Low	For medical equipment cleaning. Can corrode certain metals.	Kean et al., 2018
	Peracetic acid+hydrogen peroxide+acetic acid	1200 ppm/<1% (3)	Yes	Low		Cadnum et al., 2017b
	Quaternary ammonium compounds	2% didecyldimethyl ammonium chloride (60), alkyl dimethyl ammonium chlorides (10), didecyldimethyl ammonium chloride/dimethylbenzyl ammonium chloride (10)	No	Low		Biswal et al., 2017; Cadnum et al., 2017b

# **Personal Protetctive Equipment**



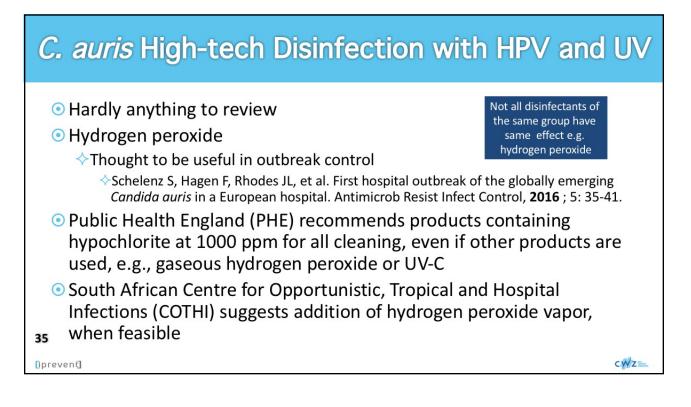


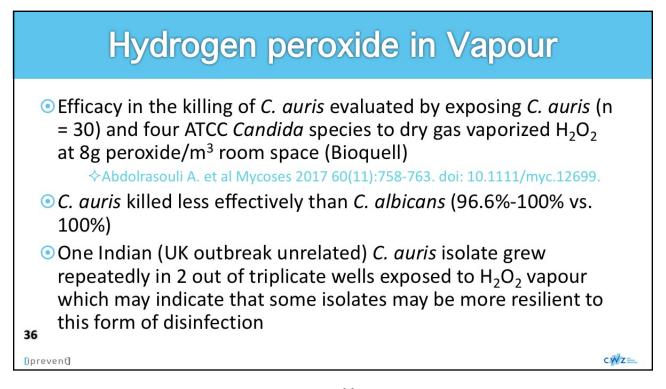
Positive by culture, no. (%) 2 (5) 7 (14) 2 (8) 5 (24) 4 (24) 4 (24) 2 (33) 0 2 2 (12) or surface acces and objects in	2 (5) 5 (10) 2 (6) 1 (5) 0 1 (20) 11 (6)	Negative by culture and PCR no. (%) 40 (91) 37 (76) 32 (89) 15 (71) 13 (77) 4 (87) 4 (80) 145 (82)				°OH G III¥ EVENYW	3
7 (14) 2 (6) 5 (24) 4 (24) 2 (33) 0 22 (12) or surface	5 (10) 2 (6) 1 (5) 0 1 (20) 11 (6)	37 (76) 32 (89) 15 (71) 13 (77) 4 (67) 4 (80)			-	EVERYW	NHERE"
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2 (33) 0 22 (12) or surface	0 1 (20) 11 (6)	4 (67) 4 (80)					
22 (12) or surface	11 (6)						
			Positive by	Positive by PCR a negative by culture	re, culture and	PCR,	Jacob
ed table		44 49	<u>culture, no. (%)</u> 2 (5) 7 (14)	2 (5) 5 (10)	no. (% 40 (91 37 (76	1) 5)	
button		36 21 17 6	2 (6) 5 (24) 4 (24) 2 (33)	2 (6) 1 (5) 0	32 (89 15 (71 13 (77 4 (67)	1) 7)	
other†		E	2 (00)	1 (20)	4 /001		Negative by
nd objects in roor dle	Category, object or	surface		No. samples		negative by culture, no. (%)	culture and PCR, no. (%)
	Equipment outside Clean supply car	of room		51	1 (2)	0	50 (98)
n –	Ventilator/respira	tory equipment		45	1 (2)	0	44 (98)
		stem (e.g., Bair hu	gger)	20	1 (5)	0	19 (95) 20 (100)
	Thermometer PPE/isolation car			14	1 (7) 1 (8)	1 (7) 1 (8)	12 (86) 10 (83)
other‡	Lift/scale Glucometer Housekeeping ca	irt		11 11 9	2 (18) 0 0	0 0 1 (11)	9 (82) 11 (100) 8 (89)
	Dialysis equipme Suction canister	nt		7	1 (14) 1 (17)	0	6 (86) 5 (83)
	Miscellaneous ot			4 29	0 1 (3)	0	4 (100) 28 (97) 243 (94)
s	s other‡	s other‡ Clucometer Housekeeping ca Dialysis equipme Suction canister Ultrasonography	s other‡ Clucometer Housekeeping cart Dialysis equipment Suction canister Ultrasonography equipment Miscellaneous other¶	s other: Glucometer Housekeeping cart Dialysis equipment Suction canister Ultrasonography equipment Miscellaneous other[]	s other‡ 11 Glucometer 11 Housekeeping cart 9 Dialysis equipment 7 Suction canister 6 Ultrasonography equipment 4 Miscellaneous other¶ 29	s other‡ [11] 2(18) Glucometer 11] 0 Housekeeping cart 9 0 Dialysis equipment 7 1 (14) Suction canister 6 1 (17) Utrasonography equipment 4 0 Miscellaneous other¶ 29 1 (3)	s other‡ 11 2 (18) 0 Glucometer 11 0 0 Housekeeping cart 9 0 1 (11) Dialysis equipment 7 1 (14) 0 Suction canister 6 1 (17) 0 Ultrasonography equipment 4 0 0 Miscellaneous other¶ 29 1 (3) 0



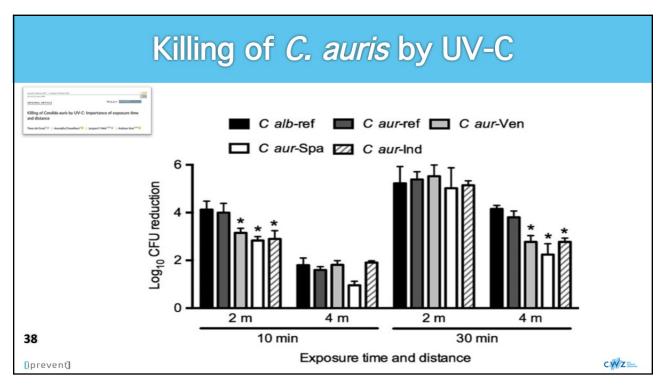


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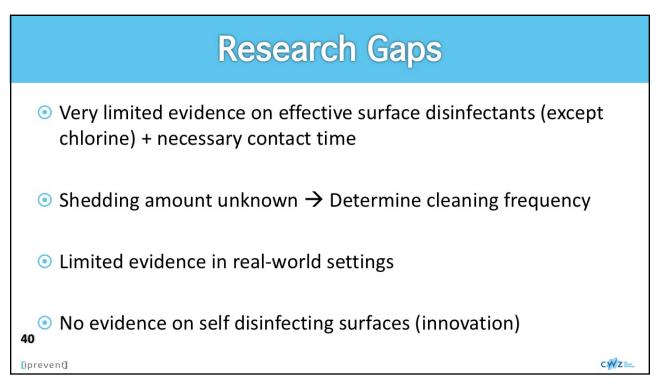


Received: 4 February 2019       Image: Constraint of the second sec	
UV-C exposure times and distance are the most critical parameters to k while strain variations of <i>C auris</i> also determine UV-C efficacy	
<b>37</b> Dprevenវៀ	C XX Z inter.



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	Wher	e to scr	een?	
And Answer	Interventions ,D. Sharma ", K. Jain ",			
Colonization rate by Candia Site	<i>la auris</i> of different body site Oral	Rectal	Axilla	Groin
Trauma ICU No. of samples Growth of <i>C. auris</i> MICU No. of samples Growth of <i>C. auris</i> Total ICU, intensive care unit; MICU	89 4 (4.4%) 38 6 (15.7%) 10/95 (10.5%) J, medical intensive care unit.	83 15 (18%) 35 3 (8.5%) 18/118 (15.2%)	158 62 (39.2%) 38 10 (26.3%) 72(196 (36.7%)	168 34 (20.2%) 38 2 (5.2%) 3 /206 (17.4%)





# Skin antisepsis tested

TABLE 3 | Antiseptics tested against C. auris.

Disinfectant	Concentrations tested (contact time in minutes used)	Effective	Level of Evidence	Comments	Reference
Chlorhexidine gluconate	<0.02% (1440), 0.5% (0.5), 2% (2), 4% (3, 180, 1800)	Yes	Good	Most studied antiseptic. Limited clinical evaluation.	Schelenz et al., 2016; Abdolrasouli et al., 2017; Moore et al., 2017; Sherry et al., 2017
Chlorhexidine gluconate in isopropyl alcohol	2%/70% (2)	Yes	Low	In vitro testing only.	Moore et al., 2017
Povidone-iodine	10% (2, 3, 180, 1800)	Yes	Moderate	In vitro testing only.	Abdolrasouli et al., 2017; Moore et al., 2017;
Alcohol	70%	Yes	Low	Limited clinical evaluation.	Biswal et al., 2017

42

Very limited evidence on effectiveness skin disinfectants + necessary contact time

[]prevent]

cwz.

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Hot Topic	
	<i>Candida auris</i> in healthcare institutions: Outcome of an International Antimicrobial Chemotherapy expert meeting
	<sup>e</sup> , Martin Kiernan <sup>b</sup> , Anuradha Chowdhary <sup>c</sup> , David W. Denning <sup>d</sup> , Javier Pemán <sup>e</sup> , Katja Saris <sup>a, f</sup> , <sup>g</sup> , Ermira Tartari <sup>h</sup> , Andreas Widmer <sup>i</sup> , Jacques F. Meis <sup>a, j</sup> , Andreas Voss <sup>a, c, k</sup>
<ul> <li><sup>b</sup> Richard Wells Researce</li> <li><sup>c</sup> Department of Medica</li> <li><sup>d</sup> Faculty of Biology, M.</li> <li><sup>c</sup> Department of Clinica</li> <li><sup>f</sup> Reshape, Radbouduma</li> <li><sup>g</sup> Department of Microb</li> <li><sup>b</sup> Faculty of Health Scie</li> <li><b>43</b> iniversity of Basel Ho</li> <li><sup>g</sup> Centre of Expertise in</li> </ul>	al Microbiology and Infectious Diseases, Canisius Wilhelmina Hospital (CWZ), Nijmegen, the Netherlands ch Centre, University of West London, UK il Mycology, VP Chest Institute, University of Delhi, Delhi, India edicine and Health, University of Manchester, Manchester Academic Health Science Centre, and National Aspergillosis Centre, Manchester University NHS chester, UK il Microbiology, Hospital Universitari i Politècni La Fe, Valencia, Spain c, Nijmegen, the Netherlands biology, Royal Brompton Hospital, London, UK neces, University of Malta, Msida, Malta sepitals & Clinics, Basel, Switzerland Mycology Radboudumc/CWZ, Nijmegen, the Netherlands al Microbiology, Radboudumc, Nijmegen, the Netherlands

		Single case		Outbreak	
		Minimum standard	Best practice	Single room and cohort	
	Patient room				
	Room	Single room	Single isolation room with ante room, private, en-suite bathroom	Single room or cohort	
	Ventilation	Neutral	Negative	Neutral	
	Toilet/ commode	Commode	Single-use commode	Single-use commode	
		Validated machine	Single-use bedpan	Single-use bedpan	
	Washroom	Dedicated washroom	Dry bath	Dry bath/dedicated wash	
	Bedding	Check pillow and mattresses	Check pillow and mattresses	Single-use pillows or check pillows and	
4		(when linen is	(when linen is	mattresses (when	

	ISUI CS		andida a	
	Single case		Outbreak	_
	Minimum standard	Best practice	Single room and cohort	-
Personal protect	tive equipment			-
Gown	Cuffed long sleeves (water repellent) + apron if needed	Cuffed long sleeves (grade $3$ ) <sup>1</sup>	Cuffed long sleeves per patient in cohort	
Gloves	Yes	Yes	Gloves per patient in cohort	
Hand hygiene	Alcohol based*	Alcohol based*	Alcohol based*	
Shoe covers Cleaning	Discouraged	Discouraged	Discouraged	
Cleaning material	Single-use cloths	Disposable microfibre cloths	Single-use (microfibre) cloths	
Cleaning frequency	Twice daily	Twice daily	Three times a day	

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December 16, 2021	( <u>FREE Teleclass)</u> <u>COVID-19 AS DRESS REHERSAL: THE RISE OF DISEASE X</u> Speaker: <b>Prof. Stephen S. Morse</b> , Mailman School of Public Health, Columbia University
January 13, 2022	(FREE Teleclass) ONE HEALTH FOR HUMAN HEALTH CLINICIANS – IN LIGHT OF COVID-19, ARE WE APPROACHING A 'TIPPING POINT'? Speaker: Dr. Cheryl Stroud, One Health Commission
January 19, 2022	(South Pacific Teleclass) THE MENTAL HEALTH OF HEALTHCARE WORKERS IN THE COVID-19 PANDEMIC Speaker: Prof. Salut Muhidin, Macquarie University, Australia
January 27, 2022	CLINICAL SYNDROMES AND CONDITIONS WARRANTING EMPIRIC TRANSMISSION BASED PRECAUTIONS Speaker: Dr. Jennifer Cole, Aventi Hegnitale, California

