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Sink, drain and infection						CARDIFF UNIVERSITY PRIFYSGOL CAERDYD
Journal of Hospital Infection 85 (202); 154–111 Available softwar pathware additional cares Journal of Hospital Infection Journal Infection Journal Infection	Table IV Risk factors for conta to the sink for extu Enterobacteriaceae (E	ende	d-spectrum bet	ta-lactama	se-producing	
Contaminated sinks in intensive care units: an	Risk factors		Si	inks		
underestimated source of extended-spectrum		All	ESBLE-	ESBLE-	P	
beta-lactamase-producing Enterobacteriaceae in			contaminated	free		
			(N = 57)	(N = 128)	
the patient environment	Sink use					
D. Roux ^a , B. Aubier ^a , H. Cochard ^a , R. Quentin ^b , N. van der Mee-Marquet ^{a, b, *} ,	Handwashing only		7	44	P < 0.001	
for the HAI Prevention Group of the Réseau des Hygiénistes du Centre	Patient toilet	84	50	34		
	Splash risk factor	67	23	44		
	Aerator Water directed	34 103		25		
	straight into the drain	105	39	04		
57 sinks (31%) contaminated with ESBLE	Visible splash when tap turned	34	17	17		
(Klebsiella and Enterobacter)	on					
(Kiebsieliu aliu Eliterobucter)	Distance between the sink and					
	patient bed					
81 sinks (44%) were used for handwashing as well	<1 m	2	1	1		
	1-2 m	56		34		
as the disposal of body fluids	Splash barrier	12	1	11		
	Routine sink disinfection	158	54	104		
	Daily	116		79		
	Weekly	20		11		
	Bleach	39		30	0 . 0 001	
	Daily Weekly	19		19 11	P < 0.001	
	Quaternary	56		36		
	ammonium					
	compounds daily					
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Sir	nk, drain and infection						CARDIFF UNIVERSITY PRIFYSGOL CAERDYD
ELSEVIER	Jauni di Naputa Indexion Bi (201) 504-111 Avadable colore at www.asientedinica.com Journal of Hospital Infection journal homepage; www.elsevienbathh.com/journal/bilm	Table IV Risk factors for conta to the sink for extu Enterobacteriaceae (E	ended	d-spectrum bet	ta-lactama	se-producing	
Contan	ninated sinks in intensive care units: an	Risk factors		Si	inks		
beta-la	stimated source of extended-spectrum ctamase-producing Enterobacteriaceae in		All	ESBLE- contaminated (N = 57)	ESBLE- free (N = 128)	Р	
the pat	tient environment	Sink use					
D. Roux ^a .	B. Aubier ^a , H. Cochard ^a , R. Quentin ^b , N. van der Mee-Marquet ^{a, b, *} ,	Handwashing only	51	7	44	P < 0.001	+
	Al Prevention Group of the Réseau des Hygiénistes du Centre	Patient toilet	84	50	34		
		Splash risk factor	67	23	44		
		Aerator	34	9	25		
		Water directed straight into the drain	103	39	64		
۶	Splash risk identified for 67 sinks (36%) - 23	Visible splash when tap turned	34	17	17		
	contaminated by ESBLE.	on Distance between the sink and patient bed					
	Routine sink disinfection frequent (85%),	<1 m	2	1	1		
		1-2 m	56	22	34		
	mostly daily (75%), QAC (41%) or bleach	Splash barrier	12		11		1.2
	(21%)	Routine sink disinfection	158	54	104		+
		Daily	116	37	79		
N	I according to the second s	Weekly	20 39	9	11 30		- <u>-</u>
>	Lower sink contamination rate significantly	Bleach Daily	39	9	30	P < 0.001	1 m
	associated with sink restricted to	Weekly	20	9	11	r < 0.001	
		Quaternary	56	20	36		+
	handwashing only and daily sink disinfection using bleach	ammonium compounds daily					
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Sinks is linked to drain position and drainage thes in a laboratory model system Arranesa Jou ¹⁺ , R. George ¹⁺ , N.O., Verlander ⁺ , S. Paton ⁺ , A. Bennet ⁺ , More ⁺ , TRACE Investigatory Image Jou ¹⁺ , S. P. George ¹⁺ , N.O., Verlander ⁺ , S. Paton ⁺ , A. Bennet ⁺ , More ⁺ , Image Jou ⁺ , S. P. George ¹⁺ , N.O., Verlander ⁺ , S. Paton ⁺ , A. Bennet ⁺ , More ⁺ , Image Jou ⁺ , S. P. George ¹⁺ , N.O., Verlander ⁺ , S. Paton ⁺ , A. Bennet ⁺ , More ⁺ , Image Jou ⁺ , S. P. George ¹⁺ , N.O., Verlander ⁺ , S. Paton ⁺ , A. Bennet ⁺ , More ⁺	Sink drain biofil	ms										CARDIF UNIVERSIT PRIFYSGO CAERDY
Fast drainage Slow drainage Around sink 0-27 27-54 54-100 Total Drain underneath faucet (Sink A) Flush 1 30.3 18.3 6.3 4 69.5 224 96 36.6 17 536.5 Drain at rear (Sink B) Flush 1 0 0 0 0.3 0.3 14.3 0.6 0 0 18.5	August											
Around sink 0-27 27-54 54-100 Total Around sink 0-27 27-54 54-100 Total Drain underneath faucet (Sink A) Flush 1 30.3 18.3 6.3 4 69.5 224 96 36.6 17 536.5 Prain at rear (Sink B) Flush 1 0 0 0.3 0.3 14.3 0.6 0 18.5	Dispersal from sinks known to be co	olonized w	vith carbapen					. ,			l drain	
Drain underneath faucet (Sink A) Flush 1 30.3 18.3 6.3 4 69.5 224 96 36.6 17 536.5 Flush 2 2.7 1 6.6 0.3 106 34.3 17.3 5.3 Drain at rear (Sink B) Flush 1 0 0 0.3 0.3 14.3 0.6 0 18.5	Dispersal from sinks known to be co	olonized w	ith carbapen	1	Number o	of CRE det		. ,	es (Tot	al sfu)		
	Dispersal from sinks known to be co	olonized w		Fast	Number o drainage	of CRE det	ected u	sing settle plat	es (Tot Slov	al sfu) v drainag	e	Total
distances up to 1 m from the sink during two consecutive 30-s flushes.	Dispersal from sinks known to be co Distance from sink (cm) Drain underneath faucet (Sink A) Drain at rear (Sink B) Mean (N = 3 replicate experiments) r	Flush 1 Flush 2 Flush 1 Flush 2 number of	Around sink 30.3 2.7 0 0 splash-formir	Fast 0-27 18.3 1 0 0 0	Number of drainage 27–54 6.3 6.6 0 0 (sfu) det	of CRE det 54–100 4 0.3 0.3 0	Total 69.5 0.3	Around sink 224 106 14.3 3	slov 0-27 96 34.3 0.6 0.3	al sfu) v drainag 27–54 36.6 17.3 0 0.3	e 54–100 17 5.3 0 0	536.5 18.5



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Sin	k drain biofilms
	Journal of Hospital Infection 114 (2021) 171-174
ELSEVIE	Availate online at www.cleneddent.com Journal of Hospital Infection powrait homepage: www.cleneddent.com/ficetatio/him
dropl with syste P. Aran *Biosofety.	nsh-reducing clinical handwash basin reduces et-mediated dispersal from a sink contaminated Gram-negative bacteria in a laboratory model
~ }	 "splash-reducing" basin includes hydrofin combined with the larger surface area of the basin reducing droplet production a hydrophilic glaze. design of the drainage pipe allowing fast drainage of water (eliminating dip that could retain water) narrow rim of the basin (reducing occurrence of personal and patient care item placed around the basin
	'splash-reducing' CHWB had significantly lower odds of spreading contamination than the conventional CHWB.
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W	ww.webbertraining.com/schedulep1.php
June 28, 2022	(European Teleclass) HOW EFFECTIVE ARE INTERVENTIONS TO IMPROVE CLEANING OF HEALTHCARE ENVIRONMENTS IN LOW-RESOURCED SETTINGS? Speaker: Prof. Giorgia Gon, London School of Hygiene and Tropical Medicine, UK
June 30, 2022	(<u>FREE Teleclass)</u> SHARING KNOWLEDGE: LEARNING FROM THOSE WHO HAVE CHALLENGED THE CIC Speaker: Sam MacFarlane, Public Health Ontario, Sandra Petersen, Ottawa Public Health, and Jeff Lee, Canadian Armed Forces Health Services Headquarters
July 14, 2022	HEALTHCARE INFORMATICS LESSONS FROM THE PANDEMIC Speaker: Prof. Keith Woeltje & Debbie Cray, Froedtert & Medical College of Wisconsin
July 27, 2022	(<u>European Teleclass)</u> RISK FACTORS FOR THE ENVIRONMENTAL SPREAD OF DIFFERENT MULTI DRUG-RESISTANT ORGANISMS Speaker: Dr. Jean Ralph Zahar, Hôpitaux de Paris, France
August 10, 2022	(<u>South Pacific Teleclass)</u> <u>HEALTHCARE ASSOCIATED PNEUMONIA – WHY SHOULD WE BOTHER AND</u> <u>WHAT CAN WE DO?</u> Speaker: Prof. Brett Mitchell, University of Newcastle, Australia



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