

CV: Jonathan Otter, PhD FRCPATH

EDUCATION

Clinical Scientist (AHCS Scientific Training Programme Equivalence) (2022).

Fellow of the Royal College of Pathologists (FRCPATH) (2014).

PhD, King's College London, UK (part-time) (2005-2011). ['The molecular epidemiology of community-associated MRSA at a London Teaching Hospital'](#).

BSc (Hons) Microbiology (1st), University of Nottingham, UK (1998-2001).

EMPLOYMENT

Jul 21 – present: Guy's and St. Thomas' NHS Foundation Trust, London

I am the Joint Director of Infection Prevention and Control covering adult and community services at Guy's and St. Thomas' Hospitals, Evelina London Children's Hospital, and Royal Brompton and Harefield Hospitals.

Oct 15 – present: Imperial College London

I am an Honorary Senior Lecturer in the National Institute for Health Research Health Protection Research Unit (NIHR HPRU) in Healthcare Associated Infections and Antimicrobial Resistance at Imperial College London, which is situated with the Department of Medicine. Research interests include the epidemiology of MRSA, *C. difficile* and multidrug-resistant Gram-negatives, antibiotic and antiseptic resistance, the role of contaminated surfaces in transmission, and molecular typing methods including some recent dabbling in whole genome sequencing.

Apr 19 – Apr 22: NIHR Imperial College London Biomedical Research Centre (BRC)

I was a part-time post-doctoral Research Fellow investigating the development of antimicrobial surfaces to tackle HCAI and AMR.

Apr 15 – Jul 21: Imperial College Healthcare NHS Trust, London

I managed the Infection Prevention and Control and Antimicrobial Stewardship Service. I led a multidisciplinary team of 25 expert doctors, nurses, data scientists, technical experts, and administrators to deliver an Infection Prevention and Control service across a group of five hospitals in central London. Also tasked with implementing the findings of an ambitious research programme at Imperial College London in conjunction with Public Health England to improve clinical practice.

Mar 10 – Mar 15: Centre for Clinical Infection and Diagnostics Research (CIDR) (King's College London / Guy's and St. Thomas' NHS Foundation Trust, London) (part-time)

I was a Research Fellow investigating the epidemiology of key healthcare-associated pathogens including MRSA, *C. difficile*, and resistant Gram-negatives.

Dec 02 – Mar 15: Bioquell UK Ltd, Andover, Hampshire, UK (part-time since 2005)

I was the Scientific Director of Bioquell's Healthcare division, responsible for delivering a high-quality research programme evaluating the impact of Bioquell's products in the healthcare setting.

May – Oct 07: Johns Hopkins Hospital, USA (secondment)

During this secondment I initiated a high-profile study, which demonstrated that Bioquell's HPV product mitigates the increased risk from the prior room occupant (Passaretti *et al. Clin Infect Dis* 2013; 56:27-35).

May – Oct 05: Yale-New Haven Hospital, St. Raphael Campus, USA (secondment)

I was seconded to initiate a successful high-profile research project investigating the environmental and clinical impact of regular decontamination using Bioquell's HPV product (Boyce *et al. Infect Cont Hosp Epidemiol* 2008;29:723-729).

Mar – Sept 03: St. Thomas' Hospital, Department of Infection, London (secondment)

I was seconded to conduct an intervention study to investigate and compare the impact of conventional cleaning with Bioquell's HPV product (French *et al. J Hosp Infect* 2004;57:31-37).

PROFESSIONAL ACTIVITY

- NHS National Infection Prevention and Control Policy (NIPCP) Manual Consensus Group (2022-present).
- Expert member of the WHO global technical consultation on transmission of infectious respiratory pathogens through the air (2022-present).
- Member of the expert group led by PHE to update national recommendations for the prevention and control of CPE (2018-2021).
- Research Director for [Clean Hospitals](#) (2018-2021).
- Member of the Interclean Healthcare Forum planning committee (2016-2020).
- Collaborator with the Antimicrobial Research Collaborative (ARC) and Institute for Molecular Science and Engineering (IMSE) at Imperial College London (2015-present).
- Assistant Editor for the Journal of Hospital Infection (2011-2016).
- Member of the Healthcare Infection Society (HIS) Scientific Programme Committee (2015-2016)
- Member of the Infection Prevention Society (IPS) Scientific Programme Committee (2010-2015).
- Visiting Professor at the Tokyo Healthcare University, Japan (2011-2012).
- IPS representative on the British Society for Antimicrobial Chemotherapy (BSAC) multiresistant Gram-negative bacterial infection Working Group.
- British Standards Institute (BSI) representative on a working group developing a European testing standard for airborne disinfection.
- Peer-reviewer for the Lancet, Lancet Infectious Diseases, British Medical Journal, Journal of Hospital Infection, Infection Control and Hospital Epidemiology, American Journal of Infection Control, Journal of Infection Prevention, Clinical Microbiology and Infection and the European Journal of Clinical Microbiology and Infectious Diseases.
- Member of the Healthcare Infection Society (HIS), Infection Prevention Society (IPS), Society for Healthcare Epidemiologists of America (SHEA) and the Association for Professionals in Infection Control (APIC).
- Author for EIDO Healthcare (patient information leaflets).

GRANTS / AWARDS

- 2020-2025. NIHR Health Protection Research Unit (HPRU) in Healthcare Associated Infections and Antimicrobial Resistance at Imperial College. NHS Lead for Practice, Design, and Engineering theme.
- 2019-2021. 'Developing "smart" liquid antimicrobial surfaces' for reducing the transmission of hospital pathogens and reducing antibiotic resistance.' NIHR Imperial Biomedical Research Centre (BRC): Post-doctoral Fellowship. Principle Investigator. £50k.
- 2017. 'Developing "smart" antimicrobial copper-based surfaces to reduce the transmission of antibiotic-resistant hospital pathogens'. EPSRC. Principle Investigator. £1k.
- 2014-2015. 'Enhanced carbapenem-resistant organism surveillance.' Guy's and St. Thomas' Charity. Principle Investigator. £130k.
- 2014-2015. 'Evaluation of community-based prevalence and transmission of antibiotic resistant Gram-negative bacteria.' Guy's and St. Thomas' Charity. Co-applicant. £100k.
- 2014-2015. 'Hydrogen Peroxide Vapor (HPV) Decontamination for Reuse of N95 Respirators'. US FDA. Co-applicant. \$450k.
- 2011-2012. 'Epidemiology and virulence of CA-MRSA'. Pfizer Europe Aspire 2010 Investigator Award in Antibacterial Research. Principle Investigator. £67k.
- 2009-2012. 'Characterisation, molecular epidemiology and control of evolving strains of MRSA in a London Teaching Hospital and its local community.' Guy's and St. Thomas' Charity. Co-applicant. £294k.
- 2005-2009. Royal Commission for the Exhibition of 1851 PhD Fellowship. Principle Investigator. 80k.

PAPERS

* = joint first authors.

Otter JA, Newsholme W, Snell LB, Merrick B, Okeke N, Mack DJF, Breathnach AS, Price NM. Evaluation of clinical harm associated with Omicron hospital-onset COVID-19 infection. *J Infect* accepted.

Zhu NJ, Rawson TM, Mookerjee S, Price JR, Davies F, **Otter JA**, Aylin P, Hope R, Gilchrist M, Shersing Y, Holmes A. Changing Patterns of Bloodstream Infections in the Community and Acute Care Across 2 Coronavirus Disease 2019 Epidemic Waves: A Retrospective Analysis Using Data Linkage. *Clin Infect Dis*. 2022 Aug 24;75(1):e1082-e1091.

Ledwoch K, Dancer SJ, **Otter JA**, Maillard JY. Dirty QWERTY: there's no ESC! *J Hosp Infect*. 2021 Nov;117:184-185.

Graves N, Mitchell BG, **Otter JA**, Kiernan M. The cost effectiveness of temporary single rooms to reduce the risk of healthcare-associated infection. *J Hosp Infect* 2021; 116: 21-28.

Abbas M, Zhu NJ, Mookerjee S, Bolt F, **Otter JA**, Holmes AH, Price JR. Hospital-onset COVID-19 infection surveillance systems: A systematic review. *J Hosp Infect* 2021;15:44-50.

Ledwoch K, Dancer SJ, **Otter JA**, Kerr K, Roposte D, Maillard J-Y. How dirty is your QUERTY? The risk of healthcare pathogen transmission from computer keyboards. *J Hosp Infect* 2021;112:31-36.

Martischang R, Tartari E, Kilpatrick C, Mackenzie G, Carter V, Castro-Sánchez E, Márquez-Villarreal H, **Otter JA**, Perencevich E, Silber D, Storr J, Tetro J, Voss A, Pittet D. Enhancing engagement beyond the conference walls: analysis of Twitter use at #ICPIC2019 infection prevention and control conference. *Antimicrob Resist Infect Control*. 2021;10:20.

Castro-Sánchez E, Alexander CM, Atchison C, Patel D, Leung W, Calamita M, Meno Garcia D, Cimpeanu C, Mumbwatasai JM, Ramid D, Doherty K, Grewal HS, **Otter JA**, Wells M. Evaluation of a personal protective equipment (PPE) support programme ('PPE Helpers') for staff during the COVID-19 pandemic in London. *J Hosp Infect* 2021;109:68-77.

Otter JA, Mookerjee S, Davies F, Bolt F, Dyakova E, Shersing Y, Boonjasiri A, Weise AY, Gilchrist M, Galletly TJ, Brannigan ET, Holmes A. Detecting CPE – an evaluation of an enhanced CPE infection control and screening programme in acute care. *J Antimicrob Chemother* 2020;75:2670-2676.

Zhou J*, **Otter JA***, Price JR, Cimpeanu C, Meno Garcia D, Kinross J, Boshier P, Mason S, Bolt F, Holmes AH, Barklay W. Investigating SARS-CoV-2 surface and air contamination in an acute healthcare setting during the peak of the COVID-19 pandemic in London. *Clin Infect Dis* 2021;73:e1870-e1877.

Price JR*, Mookerjee S*, Dyakova E, Myall A, Leung W, Weiße AY, Shersing Y, Brannigan ET, Galletly T, Muir D, Randell P, Davies F, Bolt F, Barohona M, **Otter JA**, Holmes AH. Development and delivery of a real-time hospital-onset COVID-19 surveillance system using network analysis. *Clin Infect Dis* 2021;72:82-89.

Rodriguez-Manzano J, Moser N, Malpartida-Cardenas K, Moniri A, Fisarova L, Pennisi I, Boonyasiri A, Jauneikaite E, Abdolrasouli A, **Otter JA**, Bolt F, Davies F, Didelot X, Holmes A, Georgiou P. Rapid Detection of Mobilized Colistin Resistance using a Nucleic Acid Based Lab-on-a-Chip Diagnostic System. *Sci Rep* 2020;21;10(1):8448.

Peters A, Parneix P, **Otter JA**, Pittet D. Putting some context to the aerosolization debate around SARS-CoV-2. *J Hosp Infect* 2020;105:381-382.

Gordon J, Darlington O, McEwan P, Lumley M, Taie A, Hicks M, Charbonneau C, Blake A, Hawkins N, Goldenberg S, **Otter JA**, Wilcox M. Estimating the Value of New Antimicrobials in the Context of Antimicrobial Resistance: Development and Application of a Dynamic Disease Transmission Model. *Pharmacoeconomics* 2020;38:857-869.

Birgand G, Mutter NT, Ahmad R, Tacconelli E, Lucet J-C, Holmes AH, Percept-R Study Group. Risk perception of the antimicrobial resistance by infection control specialists in Europe: a case-vignette study. *Antimicrob Resist Infect Control* 2020;19:33.

Ellington MJ, Davies F, Jauneikaite E, Hopkins KL, Turton JF, Adams G, Pavlu J, Innes AJ, Eades C, Brannigan ET, Findlay J, White L, Bolt F, Kadhani T, Chow Y, Patel B, Mookerjee S, **Otter JA**, Sriskandan S, Woodford N, Holmes AH. A multi-species cluster of GES-5 carbapenemase producing Enterobacterales linked by a geographically disseminated plasmid. *Clin Infect Dis* accepted.

Birgand G, Troughton R, Marino V, Campbell A, Hettiaratchy S, Hopkins S, **Otter JA**, Holmes AH. How do surgeons feel about the "Getting it Right First Time" national audit? Results from a qualitative assessment. *J Hosp Infect* 2020;104:328-331.

Vink J, **Otter JA**, Edgeworth JD. Carbapenemase-Producing Enterobacteriaceae – once positive always positive? *Current Opinion Gastroenterol* 2019 [Epub ahead of print].

Otter JA. How far can improving environmental hygiene REACH in preventing healthcare-associated infections? *Lancet Infect Dis* 2019;19:345-347.

Otter JA, Natale A, Batra R, Tosas August O, Dyakova E, Goldenberg SD, Edgeworth JD. Individual and community-level risk factors for ESBL Enterobacteriaceae colonization identified by universal admission screening in London. *Clin Microbiol Infect* 2019;25:1259-1265.

Patel A, Parikh P, Dunn AN, **Otter JA**, Thota P, Fraser TG, Donskey CJ, Deshpande A. Effectiveness of daily chlorhexidine bathing for reducing gram-negative infections: A meta-analysis. *Infect Control Hosp Epidemiol* 2019;40:392-399.

Ming DK, **Otter JA**, Ghani R, Brannigan ET, Boonyasiri A, Mookerjee S, Gilchrist M, Holmes AH, Davies F. The Clinical Risk Stratification and Antibiotic Management of NDM and OXA-48 carbapenemase-producing Enterobacteriaceae bloodstream infections the United Kingdom. *J Hosp Infect* 2019;102:95-9.

Mizuno S, Iwami M, Kunisawa S, Naylor N, Yamashita K, Kyratsis Y, Meads G, **Otter JA**, Holmes AH, Imanaka Y, Ahmad R. Comparison of national strategies to reduce meticillin-resistant Staphylococcus aureus infections in Japan and England. *J Hosp Infect* 2018;100:280-298.

Marbach H, Vizcay-Barrena G, Memarzadeh K, **Otter JA**, Pathak S, Allaker RP, Edgeworth JD, Harvey RD. Tolerance of MRSA ST239-TW to chlorhexidine-based decolonization; evidence for keratinocyte invasion as a mechanism of biocide evasion. *J Infect* 2019;78:119-126.

Knight GM, Dyakova E, Mookerjee S, Davies F, Brannigan ET, **Otter JA**, Holmes AH. Fast and expensive (PCR) or cheap and slow (culture)? A mathematical modelling study to explore screening for carbapenem resistance in UK hospitals. *BMC Med* 2018;16:141.

Otter JA, Galletly T, Davies F, Hitchcock J, Gilchrist M, Dyakova E, Mookerjee S, Holmes AH, Brannigan ET. Planning to halve GNBSI: getting to grips with healthcare-associated *Escherichia coli* bloodstream infection sources. *J Hosp Infect* 2018;101:129-133.

Ledwoch K, Dancer SJ, **Otter JA**, Kerr K, Roposte D, Maillard JY. Beware Biofilm! Dry biofilms containing bacterial pathogens on multiple healthcare surfaces; a multicentre study. *J Hosp Infect* 2018;100:e47-e56.

Mookerjee S, Dyakova E, Davies F, Bamford K, Brannigan ET, Holmes A, **Otter JA**. Evaluating the benefit of serial screening cultures to detect carbapenemase-producing Enterobacteriaceae (CPE) following hospital admission. *J Hosp Infect* 2018;100:15-20.

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Hawkey PM, Warren RE, Livermore DM, McNulty CAM, Enoch DA, **Otter JA**, Wilson APR. Treatment of infections caused by multidrug-resistant Gram-negative bacteria: report of the British Society for Antimicrobial Chemotherapy/Healthcare Infection Society/British Infection Association Joint Working Party. *J Antimicrob Chemother* 2018;73(Suppl 3):iii2-iii78.

Tosas Auguet O, Stabler RA, Betley J, Preston MD, Dhaliwal M, Gaunt M, Ioannou A, Desai N, Keradag T, Batra R, **Otter JA**, Marbach H, Clark TG, Edgeworth JD. Frequent undetected MRSA ward-based transmission linked to patient sharing between hospitals. *Clin Infect Dis* 2018;66:840-848.

Otter JA, Doumith M, Davies F, Mookerjee S, Dyakova E, Gilchrist M, Brannigan ET, Bamford K, Galletly T, Donaldson H, Aanensen DM, Ellington MJ, Hill R, Turton JF, Hopkins KL, Woodford N, Holmes A. Emergence and clonal spread of colistin resistance due to multiple mutational

mechanisms in carbapenemase-producing *Klebsiella pneumoniae* in London. *Sci Rep* 2017;7:12711.

Mitchell BG, Russo PL, **Otter JA**, Kiernan M, Aveling L. What makes a tweet fly? Analysis of twitter messaging from four infection control conferences. *Infect Control Hosp Epidemiol* 2017;38:1271-1276.

Weber DJ, **Otter JA**, Rutala WA. Can Copper Coated Surfaces Prevent Healthcare-Associated Infections? *Infect Control Hosp Epidemiol* 2017;38:772-776.

Dyakova E, Bisnauthsing KN, Querol-Rubiera A, Patel A, Ahanonu C, Tosas Auguet O, Edgeworth JD, Goldenberg SD, **Otter JA**. Efficacy and acceptability of rectal and perineal sampling for identifying gastrointestinal colonisation with ESBL-Enterobacteriaceae. *Clin Microbiol Infect* 2017;23:577.e1-577.e3.

Marbach H, Boakes E, Lynham S, Ward M, **Otter JA**, Edgeworth JD. Identification of a distinctive phenotype for endocarditis-associated clonal complex 22 MRSA isolates with reduced vancomycin susceptibility. *J Med Microbiol* 2017 66:584-591.

Keward J, Bradshaw P, **Otter JA**. Reducing the number of missed isolation days in a paediatric high-dependency unit using semi-permanent pods. *J Infect Prevent* 2017;18:67-71.

Otter JA, Burgess P, Davies F, Mookerjee S, Gilchrist M, Parsons D, Brannigan ET, Robotham JV, Holmes AH. Counting the cost of an outbreak of carbapenemase-producing Enterobacteriaceae: an economic evaluation from a hospital perspective. *Clin Microbiol Infect* 2017;23:188-196.

Boakes E, Marbach H, Lynham S, Ward M, Edgeworth JD, **Otter JA**. A comparative analysis of Phenol Soluble Modulin production and *G. mellonella* killing by community-associated and healthcare-associated MRSA strains. *J Med Microbiol* 2016;65:1429-1433.

Otter JA, Dyakova E, Bisnauthsing K, Querol-Rubiera A, Patel A, Ahanonu C, Tosas Auguet O, Edgeworth J, Goldenberg S. Universal hospital admission screening for carbapenemase-producing organisms in a low prevalence setting. *J Antimicrobial Chemother* 2016;71:3556-3561.

McCord J, Prewitt M, Dyakova E, Mookerjee S, **Otter JA**. Reduction in *Clostridium difficile* infection (CDI) associated with the introduction of hydrogen peroxide vapor (HPV) automated room disinfection. *J Hosp Infect* 2016;94:185-187.

Otter JA. Interpreting the guidelines for cleaning up after carbapenemase-producing organisms: the devil's in the dilution. *J Hosp Infect* 2016;94:108-109.

Vella V, Moore LSP, Robotham J, Davies F, Birgand GJC, **Otter JA**, Brannigan E, Dyakova E, Knight GM, Mookerjee S, Holmes AH. Vella V, Moore LSP, Robotham J, Davies F, Birgand GJC, **Otter JA**, Brannigan E, Dyakova E, Knight GM, Mookerjee S, Holmes AH. Demand and capacity for carbapenemase-producing Enterobacteriaceae screening in a West London hospital network. *J Hosp Infect* 2016;94:118-124.

Brown C, Livermore DM, **Otter JA**, Warren RE, Jenks P, Enoch DA, Newsholme W, Oppenheim B, Leanord A, McNulty C, Tanner G, Bennett S, Cann M, Bostock J, Collins E, Peckitt S, Ritchie L, Fry C, Hawkey P, Wilson AP. Multidrug-resistant (MDR) Gram-negative bacteria information leaflets. *J Hosp Infect* 2016;92:86-87.

Tosas Auguet O, Betley J, Patel A, Marbach H, Stabler R, Hern P, Ayree A, **Otter JA**, Goldenberg SD, Desai N, Karadag T, Grundy C, Gaunt M, Cooper B, Edgeworth J, Kypraios T.

Evidence for community transmission of community-associated but not health-care-associated methicillin-resistant *Staphylococcus aureus* strains linked to social and material deprivation: spatial analysis of cross-sectional data. *Plos Med* 2016;13:e1001944.

Horn K, **Otter JA**. Hydrogen peroxide vapor room disinfection and hand hygiene improvements reduce *Clostridium difficile* infection, MRSA, VRE and ESBL by 47%. *Am J Infect Control* 2015;43:1354-1356.

Wilson APR, Livermore DM, **Otter JA**, Warren RE, Jenks P, Enoch DA, Newsholme, Oppenheim B, Leanord A, McNulty C, Tanner G, Bennett S, Cann M, Bostock J, Collins E, Peckitt S, Ritchie L, Fry C, Hawkey PM. Prevention and control of multiresistant Gram-negative bacteria – recommendations from a Joint Working Party. *J Hosp Infect* 2016 Jan;Suppl 1:S1-S44.

Hughes J, Goldenberg SD, Tosas O, Edgeworth JD, **Otter JA**. Recent emergence of carbapenem-resistant organisms in a low prevalence UK setting in London. *J Infect Prevent* 2016;17:130-134.

Otter JA. Reflections from Infection Prevention 2015: beating the bugs, improving the systems and thinking outside the box. *J Infect Prevent* 2016;17:37–41.

Otter JA, Donskey CJ, Yezli S, Douthwaite S, Goldenberg SD, Weber DJ. Transmission of SARS and MERS coronaviruses and influenza virus in healthcare settings: the possible role of dry surface contamination. *J Hosp Infect* 2016;92:235-250.

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Fisher D, Long P, Salmon S, Teo C, Cook A, **Otter JA**. Where's all the VRE gone? A successful VRE bundle at a Singapore hospital. *Infect Control Hosp Epidemiol* 2016;37:107-109.

Otter JA, Mutters N, Tacconelli E, Gikas A, Holmes AH. Controversies in guidelines for the control of multidrug-resistant Gram-negative bacteria in EU countries. *Clin Microbiol Infect* 2015;21:1057-1066.

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Otter JA. The inaugural Healthcare Infection Society Middle East Summit: 'No action today. No cure tomorrow. *J Hosp Infect* 2015;91:199-201.

Hughes J, Stabler R, Karadag T, Desai N, Patel A, **Otter JA**, Edgeworth JD, Tosas August O. Clonal variation in high- and low-level phenotypic and genotypic mupirocin resistance of MRSA isolates in South East London. *J Antimicrobial Chemother* 2015;70:3191-3199.

Biswas J, Patel A, **Otter JA**, van Kleef E, Goldenberg SD. Significant contamination of the hospital environment from potential *Clostridium difficile* excretors. *Infect Control Hosp Epidemiol* 2015;36:975-977.

Biswas J, Patel A, **Otter JA**, Wade P, Newsholme W, Goldenberg SD. Reduction in *Clostridium difficile* environmental contamination in hospitalised patients treated with fidaxomicin. *J Hosp Infect* 2015;90:267-270.

Otter JA. What's trending in the infection prevention and control literature? From HIS 2012 to HIS 2014, and beyond. *J Hosp Infection* 2015;89:229-236.

Lemmen S, Scheithauer S, Häfner H, Yezli S, Mohr M, **Otter JA**. Evaluation of hydrogen peroxide vapour for the inactivation of nosocomial pathogens on porous and non-porous surfaces. *Am J Infect Control* 2015;43:82-85.

Otter JA, Vickery K, Walker J, deLancey-Pulcini E, Stoodley P, Salkeld JA, Chewins J, Yezli S, Edgeworth JD. Surface-attached cells, biofilms and biocide susceptibility: implications for hospital cleaning and disinfection. *J Hosp Infect* 2015;89:16-27.

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Curran E, **Otter JA**. How to prevent and control outbreaks of carbapenem-resistant Enterobacteriaceae. *J Infect Prevent* 2014;15:193-198.

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Boakes E, Marbach H, Lynham S, Ward M, Edgeworth JD, **Otter JA***. Community-associated MRSA strains are no more virulent than healthcare-associated MRSA strains in a range of

laboratory assays. European Congress of Clinical Microbiology and Infectious Diseases (ECCMID), Barcelona, Spain, 10-13 May 2014.

Hughes J*, Goldenberg SD, Tosas O, Edgeworth JD, **Otter JA**. Recent emergence of carbapenem-resistant organisms in a low prevalence UK setting in London. Federation of Infection Sciences (FIS), Birmingham, UK, 11-13 November 2013.

Havill NL, Boyce JM, **Otter JA***. Extended survival of carbapenem-resistant Enterobacteriaceae (CRE) on dry surfaces. ID Week, San Francisco, California, USA, 2-6 October 2013.

Tucker D, Chappell J, Millward L, **Otter JA***. An overview of hydrogen peroxide vapour (HPV) room disinfection at a London Hospital, 2011-2013. Infection Prevention Society (IPS) Annual Meeting. London, UK, 30 September – 1 October 2013.

Yezli S*, Bissell D, **Otter JA**. The Infection Control Enclosure (ICE)-pod: meeting the need for more single rooms. Asia Pacific Society of Infection Control, Shanghai, China, 10-13 April 2013.

O'Halloran P*, Winter P, Chewins J, **Otter JA**. Randomised, double-blind, placebo controlled trial of aqueous oxygen peroxide (AOP) in the treatment of venous leg ulcers in a primary care based setting. Wounds UK Annual Conference. Harrogate, UK, 2012.

Passaretti CL, **Otter JA***, Reich NG, Myers J, Shepard J, Ross T, Carroll KC, Lipsett P, Perl TM. An evaluation of environmental decontamination with hydrogen peroxide vapor for reducing the risk of patient acquisition of multidrug-resistant organisms. 8th International Healthcare Infection Society (HIS) Conference and Federation of Infection Societies (FIS) Annual Conference. Liverpool, UK, 19-21 November 2012.

Virata MD, **Otter JA***, Havill NL, Monecke S, Sakoulas G. DNA microarray-based genotyping of methicillin-resistant *Staphylococcus aureus* isolates in patients with bacteremia and evidence of antimicrobial resistance from 1998-2008. ID Week, San Diego, USA, 17-21 October 2012. Poster 392.

Otter JA*, Nowakowski E, Salkeld JAG, Duclos M, Yezli S, Passaretti CL, Ross T, Carroll KC, Perl TM. Decontamination of unused medical supply packaging using hydrogen peroxide vapour. Infection Prevention Society (IPS) Annual Meeting. Liverpool, UK, 1-3 October 2012. Abstract 81.

Virata MD*, **Otter JA**, Havill NL, Sakoulas G. Comparing *Staphylococcus aureus* staphyloxanthin pigment production among bloodstream isolates with vancomycin MICs and clone type from a community hospital. American Society for Microbiology (ASM), San Francisco, California, USA. June 2012.

Boakes E, Marbach H, Lynham S, Ward M, Edgeworth JD, **Otter JA***. Production of phenol soluble modulins by community- and hospital-associated MRSA strains correlates with in vivo virulence in a *Galleria mellonella* (caterpillar) model. European Congress of Clinical Microbiology and Infectious Diseases (ECCMID), London, UK. 31 March – 3 April 2012.

Otter JA*, Havill NL, Virata MD. Vancomycin MIC and clone type are independent predictors of persistent MRSA bacteraemia at a USA hospital. European Congress of Clinical Microbiology and Infectious Diseases (ECCMID), London, UK. 31 March – 3 April 2012.

Otter JA*, Goyal S, Chander Y, Yezli S. Hydrogen peroxide vapour (HPV) inactivation of feline calicivirus, a surrogate for norovirus: an update. Infection Prevention Society (IPS) Annual Meeting. Bournemouth, 19-21 September 2011. Abstract 57.

Otter JA*, Murdoch L, Stone J. Successful reduction in the burden of *C. difficile* at a large NHS Trust through a bundle of interventions. Infection Prevention Society (IPS) Annual Meeting. Bournemouth, 19-21 September 2011. Abstract 57.

Miller C*, Tosas O, Batra R, **Otter JA**, French GL, Edgeworth JD. An interaction between clone type and vancomycin MIC influence risk of endocarditis associated with MRSA bloodstream infection. European Congress of Clinical Microbiology and Infectious Diseases (ECCMID), Milan, Italy, 7-10 May 2011.

Otter JA*, Edgeworth J, Miller C, French GL. The changing molecular epidemiology of methicillin-resistant *Staphylococcus aureus* bacteraemia at a London teaching hospital, 1999-2009. European Congress of Clinical Microbiology and Infectious Diseases (ECCMID), Milan, Italy, 7-10 May 2011.

Barbut F, Pham J, Yezli S, Mimoun M, **Otter JA***. Reducing the spread of *Acinetobacter baumannii* and methicillin-resistant *Staphylococcus aureus* on a burns unit through the intervention of an infection control bundle including hydrogen peroxide vapour decontamination. European Congress of Clinical Microbiology and Infectious Diseases (ECCMID), Milan, Italy, 7-10 May 2011.

Barbut F, Yezli S, **Otter JA***. The *in vitro* activity of hydrogen peroxide vapour against epidemic strains of *Clostridium difficile* spores. European Congress of Clinical Microbiology and Infectious Diseases (ECCMID), Milan, Italy, 7-10 May 2011.

Goyal SM, Chander Y, Yezli S, **Otter JA***. Hydrogen peroxide vapor (HPV) inactivation of feline calicivirus, a surrogate for norovirus. *J Hosp Infect* 2010;76 (Suppl. 1);S22-S23. (Hospital Infection Society (HIS), 10-13 October 2010, P08.02, Liverpool, UK).

Otter JA*, Barnicoat M, Down J, Smyth D, Yezli S, Jeanes A. Hydrogen peroxide vapor (HPV) decontamination of an intensive care unit room used to treat a patient with Lassa fever. *J Hosp Infect* 2010;76 (Suppl. 1);S23. (Hospital Infection Society (HIS), 10-13 October 2010, P08.04, Liverpool, UK).

Otter JA, Yezli S, Bissell D*. Hydrogen peroxide vapour (HPV) decontamination: a novel technology for the control of hospital acquired infections. Australian Infection Control Association Conference, 4-6 October 2010, Perth, Australia.

Adams NMT*, Yezli S, **Otter JA**. Hydrogen peroxide vapour decontamination: a versatile method to tackle biological warfare agents and pathogens associated with hospital-acquired infections. International Symposium on Protection Against Chemical and Biological Warfare Agents, 8-11 June 2010, Stockholm, Sweden.

Yezli S, Millward L, Salkeld JAG, Parks MJ, **Otter JA***. Routine use of hydrogen peroxide vapour decontamination in the NHS. Infection Prevention Society (IPS) Annual Meeting. Harrogate, 2009. Abstract 15.

Otter JA*, French GL. Validation of antimicrobial resistance based phenotypic markers for the presumptive identification of community-associated MRSA at a London Teaching Hospital. Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC). San Francisco, CA, USA, 2009. [Poster*] (14th International Symposium on Staphylococci and Staphylococcal Infection (ISSSI), Bath, UK, September 2010.)

Passaretti CL*, **Otter JA**, Lipsett P, Shangraw A, Myers J, Ross T, Carroll K, Perl TM. Adherence to Hydrogen Peroxide Vapor (HPV) decontamination reduces VRE acquisition in high-risk units. Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC)

and the Infectious Diseases Society of America (IDSA). Washington DC, USA, 2008. Abstract K4124b.

Passaretti CL*, Lipsett P, **Otter JA**, Speck K, Lee A, Ryan D, Salkeld JAG, Adams NMT, Ristaino P, Maragakis L, Ross T, Carroll K, Perl TM. Does hydrogen peroxide vapor (HPV) enhance decontamination for multidrug-resistant organisms (MDROs) in intensive care units (ICUs)? Society for Healthcare Epidemiology of America (SHEA), Orlando, Florida, 2008. Abstract 177.

Puchowicz M, Ryan D, **Otter JA***, Salkeld JAG, Cooper TA, Havill NL, Tuozzo K, Boyce JM. Feasibility of ongoing use of hydrogen peroxide vapor (HPV) technology to decontaminate rooms vacated by patients with multidrug-resistant organisms. Society for Healthcare Epidemiology of America (SHEA), Orlando, Florida, 2008.

Dryden M, Parnaby R, Dailly S, Lewis T, Davis-Blues K, **Otter JA***, Kearns AM. Environmental decontamination with hydrogen peroxide vapor (HPV) in the control of an MRSA outbreak. Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC). September 2007, Chicago.

Otter JA*, Klein J, Watts T, Kearns AM, French GL. P1324. Control of an outbreak of an unusual ciprofloxacin-susceptible variant of methicillin-resistant *Staphylococcus aureus* EMRSA-15 on a neonatal unit. *Int J Antimicrob Agents* 2007;**29** Suppl. 2:S366. (European Congress of Clinical Microbiology and Infectious Disease (ECCMID)).

Otter JA*, French GL. P1587 The molecular epidemiology of community-associated methicillin-resistant *Staphylococcus aureus* at a London teaching hospital. *Int J Antimicrob Agents* 2007;**29** Suppl. 2:S445-446. (European Congress of Clinical Microbiology and Infectious Disease (ECCMID)).

Schouten M, **Otter JA***, van Zanten A, Houmes-Zielman G, Nohlmans-Paulssen M. P1692 Environmental decontamination of an intensive care unit to control outbreaks of multidrug-resistant Gram-negative rods using hydrogen peroxide vapour. *Int J Antimicrob Agents* 2007;**29** Suppl. 2:S479. (European Congress of Clinical Microbiology and Infectious Disease (ECCMID)).

Hall L*, **Otter JA**, Chewins J, Wengenack NL. Use of hydrogen peroxide vapour for deactivation of *Mycobacterium tuberculosis* in a biological safety cabinet and a room. American Society for Microbiology (ASM), Orlando, Florida, 2006.

Hall L*, **Otter JA**, Chewins J, Wengenack NL. Deactivation of dimorphic fungi using HPV. International Society of Human and Animal Mycology (ISHAM), Paris, France, 2006.

French GL, Shannon KP, **Otter JA***. Survival of nosocomial bacteria dried in air and killing by hydrogen peroxide vapour (HPV). Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC), Washington DC, 2004.

INVITED LECTURES

Infection Prevention Society (IPS) Annual Meeting 2022. [‘Is IPC the enemy of sustainability?’](#) Bournemouth, UK, 17-19 October 2022.

Infection Prevention Society (IPS) Annual Meeting 2022. Are we talking the same language? [‘The importance of choosing our words carefully when communicating HCAI and AMR.’](#) Bournemouth, UK, 17-19 October 2022.

Infection Prevention and Control 2022. '[IPC – what have we learned from COVID-19?](#)' Birmingham, UK, 26-27 April 2022.

Infection Prevention Society (IPS) Annual Meeting 2021. '[Why we need broader and better SSI surveillance](#)'. Liverpool, UK, 27-29 September 2021.

Infection Prevention Society (IPC) Autumn Webinar Series 2020: '[Should we routinely audit hand hygiene?](#)'

Infection Prevention Society (IPS) Annual Meeting 2019. '[Developing a business case and service redesign](#)'. Liverpool, UK, 22 – 24 September 2019.

International Conference on Infection Prevention and Control (ICPIC). '[Counting the cost and value of hospital cleaning and disinfection](#)'. Geneva. Switzerland, September 2019.

International Conference on Infection Prevention and Control (ICPIC). '[Automated room decontamination systems: ready for the big time?](#)'. Geneva. Switzerland, September 2019.

Healthcare Infection Society (HIS) Conference. '[Healthcare-associated *C. difficile* infections: acquisition of *C. difficile* not antibiotic use is the most important factor.](#)' Liverpool, UK, November 2018.

Infection Prevention and Control Canada (IPAC) Annual Conference. '[Social media's impact on infection prevention.](#)' Banff, Canada, May 2018.

Infection Prevention and Control Canada (IPAC) Annual Conference. '[The pros and cons of automated room decontamination technologies.](#)' Banff, Canada, May 2018.

Healthcare Infection Society (HIS) Spring Meeting. '[The cost of an outbreak.](#)' London, May, 2018.

European Congress of Clinical Microbiology and Infectious Diseases (ECCMID) 2018. Hands-on infection control – what does actually work to prevent infections? '[Before an outbreak – what to do after first MDR Gram-negatives enter your hospital?](#)' Madrid, Spain, April 2018. [Recording [here](#).]

Lisbon Antimicrobial Resistance and Healthcare Associated Infections 2018 Congress. '[Nine decades of antibiotics; how many years of antibiotic resistance?](#)' Lisbon, Portugal, April 2018.

Lisbon Antimicrobial Resistance and Healthcare Associated Infections 2018 Congress. '[From hospital microbiome to new answers for environmental cleaning and disinfection](#)'. Lisbon, Portugal, April 2018.

Patient First 2017. '[The management of CPE outbreaks panel](#)'. London, November 2017.

Healthcare Infection Society / Federation of Infection Sciences (HIS/FIS) 2016. '[Gastrointestinal infections and the hospital environment](#)'. Edinburgh, Scotland, November 2016.

Patient First, Infection Prevention and Control. '[The growing dangers around CPE](#)'. London, UK, November 2016.

Infection control and innovation (Center for Innovative Medical Technology, Denmark). '[Disinfection of rooms and surfaces – what are the global trends and latest scientific discoveries when it comes to technology and materials?](#)' Odense, Denmark, October 2016.

Infection Prevention Society (IPS) 2016. '[Social media for healthcare professionals: useful or a waste of time?](#)' Harrogate, UK, September 2016.

Infection Prevention Society (IPS) 2016. '[Meet the expert: Using the PHE Toolkit to build a CPE Policy.](#)' Harrogate, UK, September 2016.

Healthcare Infection Society (HIS) Spring Meeting 2016. Debate with Peter Hoffman. '[The healthcare environment: automated disinfection provides more effective infection prevention than manual disinfection.](#)' Birmingham, UK, May 2016.

European Congress of Clinical Microbiology and Infectious Diseases (ECCMID) 2016. '[Selling your work to colleagues and society: how to use social media](#)'. Amsterdam, The Netherlands, April 2016.

International Federation of Infection Control (IFIC) 2016. '[CRE/CPE/CRO – demystifying the microbiology and opportunities for genome sequencing](#)'. Vienna, Austria, March 2016.

International Federation of Infection Control (IFIC) 2016. '[My favourite papers on...environmental decontamination](#)'. Vienna, Austria, March 2016.

Infection Prevention Society (IPS) 2015. '[How to assess scientific posters: a practical guide](#)'. Liverpool, UK, September 2015.

Healthcare Infection Society (HIS) Middle East Infection Prevention Summit 2015. '[European approaches to prevention and control of MDR Gram-negatives](#)'. Dubai, June 2015.

20th Infection and Sepsis Symposium 2015. '[The English MRSA Miracle](#)'. Portugal, March 2015.

20th Infection and Sepsis Symposium 2015. '[Containing CRE spread](#)'. Portugal, March 2015.

Healthcare Environment & Infrastructure (HEI) London 2014. '[Ebola: coming to a hospital near you? Infection, prevention, control and preparedness considerations.](#)' London, UK, November 2014.

Healthcare Infection Society (HIS) 2014. '[What's trending in the infection prevention and control literature?](#)' Lyon, France, November 2014.

Healthcare Estates 2014. '[What do emerging microbial threats mean to hospital cleaning and disinfection: from MRSA to MERS to multidrug-resistant Gram-negative bacteria](#)'. Manchester, UK, October 2014.

Infection Prevention Society (IPS) 2014. Pro-Con Debate with Dr Ian Gould: '[Universal vs. targeted interventions in infection prevention and control: the case for a targeted strategy](#)'. Glasgow, Scotland, September 2014.

Infection Prevention Society (IPS) 2014. '[How to assess scientific posters: a practical guide](#)'. Glasgow, Scotland, September 2014.

Healthcare Infection Society (HIS) & Infection Prevention Society (IPS) Joint Meeting 2014. '[Dissecting the epidemiology of resistant Enterobacteriaceae and non-fermenters](#)'. Birmingham, UK, April 2014.

World Forum for Hospital Sterile Supply (WFHSS) and Japanese Society of Medical Instrumentation (JSMI) Annual Conference 2012. '[Is there a role for hydrogen peroxide vapour](#)

[disinfection in the prevention of healthcare-associated infection?](#) Osaka, Japan, November 2012.

Association for Professionals in Infection Control and Epidemiology (APIC) 2012. '[The role of environmental surfaces in disease transmission.](#)' San Antonio, Texas, USA, June 2012.

Japanese Society for Environmental Infection (JSEI) Annual Meeting 2012. '[The bed location lottery: the MDRO status of the prior bed occupant affects the risk of acquisition.](#)' Fukouka, Japan, February 2012.

Infection Prevention Society (IPS) Annual Meeting 2011. '[CA-MRSA: coming to an A&E near you?](#)' Bournemouth, UK, September 2011.