

Scottish Hospitals Inquiry Witness Statement of Questions and Responses Professor Stephanie Dancer

This statement was produced by the process of sending the witness a questionnaire with an introduction followed by a series of questions and spaces for answers. The introduction, questions and answers are produced within the statement.

Personal details and professional qualifications

1. Name, qualifications, chronological professional history, specialism etc please provide an up-to-date CV to assist with answering this question.
A Professor Stephanie J. Dancer BSc, MB.BS, MD, MSc, FRCPath, DTM&H, FRCP(Ed), FESCMID, FISA; I am a consultant medical microbiologist in NHS Lanarkshire and Professor of Microbiology at Edinburgh Napier University. Please see CV as requested.

Previous involvement

2. Did you have any involvement with QEUH/RHC prior to February 2019? If so, please give details.
A I worked as a Consultant Microbiologist at the then Southern General Hospital from 2005 until 2007. The QEUH was built on the original Southern General Hospital site. I had no involvement with either construction or planning of the QEUH, and no formal or contractual arrangements with GG&C after I left in 2007.
3. When and how did you first become aware of the emerging Infection Control issues within QEUH/RHC? Was this from the media, or from people within GGC?
A I became aware of emerging Infection Control issues at QEUH/RHC from talk among Glasgow microbiologists at meetings, etc.
 - a) Can you advise which year this was (even if only approximately)
A 2018, but possibly earlier.

Your role within QEUH/RHC

4. Please describe how you first became involved in Infection Control in QEUH, including who first approached you.

A Professor Brian Jones messaged me via LinkedIn on Feb 7th 2019 asking me to get in touch with him. I replied on Feb 8th explaining that I was overseas but provided email and mobile phone number. Please see chronology of events summarising my involvement with QEUH (**A48491885 - Report from Professor Stephanie Dancer - Chronology of my involvement with QEUH. Bundle 27 volume 7, page 574**)

5. What was your role to be? What was your job title, and what were your duties? Did you receive a formal written offer of employment or engagement?

A Brian Jones wrote: "GGC IPC under a lot of pressure right now. Teresa Inkster wondered if you would be available for a 2 days a week IPC locum to help during the crisis? If current pressures persist perhaps we could discuss on your return?" I replied that I would be happy to help Teresa and my R&D manager agreed to release me for one day a week to do this.

Over the course of the following few days, I received e-mails requesting: CV; Fitness to Practice documentation; PVG clearance; Occupational Health; Trak Care application; Clinical Portal application; honorary contract; payment process; office allocation; and car parking. Most of these were completed but I never received or saw a formal contract.

6. What background information were you given for the need for your employment or engagement, and by whom?

A I was given specific background information on the need for employment by Dr Teresa Inkster, who had requested my help as documented. This included infection control staffing, hierarchy and practices; details of presumed exogenous infections and outbreaks; mechanical ventilation structure and

equipment; plumbing; cleaning and decontamination; air quality; water storage; and laboratory processes. I visited the hospital 2-3 times and received a guided tour to several key areas in the hospital. I was assigned an office in the microbiology laboratory, which I would share with Dr Christine Peters when she returned from long term sick leave.

Infection Control Team

7. Were any of the IC team known to you personally prior to your employment? If so which ones?

A I knew Drs Teresa Inkster and Christine Peters; Drs Brian Jones and Alastair Leonard; possibly others by name only. Also at least two of the Infection Control nurses, especially Sandra, with whom I had worked before. I knew some of the microbiology laboratory staff, including the data manager, John. I knew Tom Walsh by name only.

8. At the team of your appointment the following individuals were involved with Infection Control:

- a) Tom Walsh
- b) Sandra Devine (nee McNamee)
- c) Professor Alastair Leonard
- d) Dr Iain Kennedy
- e) Dr Teresa Inkster
- f) Dr Christine Peters
- g) Professor Brian Jones

For each of these can you describe any interaction you had with him or her during the period of your employment or engagement in February 2019, the reason for the interaction and its outcome?

A I received Linked in Messages/e-mails from, and to, Professor Jones, and emails, phone calls and face-to-face meetings with Dr Inkster.

9. Did you interact with any other IC Team members at that time? If so, please identify him or her and answer question 8 above.

A There was no contact with any other named members of the IC team.

Infection Control Issues

10. What were the main issues from an infection control viewpoint during your time there?

A Clear evidence of hospital-acquired infections arising from the environment – surfaces, air and water, mostly identified in vulnerable adults and children; one specific outbreak among immunosuppressed patients in one ward; and an ongoing problem with *Staphylococcus aureus* among SCBU neonates.

a) We would like to understand the source of information you used to reach your conclusion. What was the “clear evidence” you refer to? What caused you to reach the conclusion you come to in Answer 11?

A The identification of specific microorganisms provides ‘clear evidence’ of infections arising from the environment. Bacterial organisms such as *Cupriavidus* spp. originate from water sources and tend to be very rare. Similarly, fungi such as *Cryptococcus neoformans* is airborne and also rare in UK hospitals. Any isolation of these, and other related organisms, would immediately raise concern over environmental reservoirs. I have nothing further to add to my response to Question 11.

11. In your opinion what was the root cause(s) of these problems?

A The root cause of these problems was due first and foremost to a combination of A. Estates issues, and B. a dysfunctional infection control structure. A. included poor environmental design of the new build; substandard building materials; inadequate maintenance and decontamination of plumbing components, water storage and ventilation systems; and poor cleaning practices (no standard operating procedure for cleaning patient shower

drains, for example); B. became apparent once I was aware of the fractious relationships between individual members of the ICP team.

12. How common or, conversely, how unusual, were these issues? Were any of these issues unique to QEUH?

A Every hospital has environmental issues; the risks of HAI from surfaces, water and air are well known. But the QEUH was relatively new and should not have had a surfeit of these exogenous infections so early after construction. Poor working relationships between members of the IPC team, again, are not unknown, but this came over as a seriously toxic atmosphere, given that one consultant microbiologist (Dr Peters) was so damaged that she had to take sick leave. To a certain extent, I wasn't surprised, because there were key players past and present within the GG&C IPC department who had caused similar problems at other hospitals, causing colleagues to leave the health board.

a) You describe a "seriously toxic atmosphere" at QEUH. Did you reach this conclusion solely on the basis of a few days in the hospital or was it also because of what other people told you? If the latter, when did you learn this information.

A I was aware of interpersonal friction among microbiology consultants in Glasgow beginning years before the emergence of infection control issues at the QEUH. Indeed, it was one of the reasons I left the Southern General Hospital (forerunner of the QEUH) to take up a post in Lanarkshire in 2007.

Termination of role and email to Professor Jones

13. In what manner was your role terminated? Who conveyed this to you, and in what manner? What reasons were you given?

A Brian Jones terminated my role via e-mail before the contract had been signed. Please see the chronology document for the exact wording.

14. We have been provided a copy of your email to Brian Jones (also in your chronology). What events gave rise to it- what was the “shabby treatment” you refer to?

A The shabby treatment refers to the termination of my role before it had even begun, after asking me to help. I had already completed a multitude of official documents in preparation for the new job as well as organised time away from my own health board duties.

15. You go on to say:

“I would have engineered a raft of interventions that would have immediately reduced the HAI risks for everyone. These are evidence-based and cost-effective. I’m surprised that none of your resident experts have already suggested the more obvious amendments.”

Insofar as not covered by Question 10, what were the main HAI risks of which you were aware? Were they usual or unusual?

A Both ventilation and water systems required a risk assessment, complete overhaul and upgraded decontamination and maintenance policies.

a) As with Answer 10, what was the source of the information that enabled you to reach these conclusions?

A After over 40 years working in the NHS, and with at least 38 of these years specialising in clinical microbiology and infection control, one tends to recognise unusual infections among patients and possible links with the environment. I have investigated countless numbers of outbreaks, finding epidemiological links between patients and source and implementing effective control strategies. Faced with events at the QEUH, I would have launched a major investigation much as colleagues on the ground attempted to do so.

16. What are the “more obvious amendments” you would have recommended?

A Improving air quality; assessment of air change; insertion of air filters or other air cleaning strategies; water quality monitoring; water treatment (e.g. neutral

electrolysed water addition to reservoirs); waterless trial for specific areas; enhanced cleaning and decontamination practices introduced, again for specific areas; and finally, engaging with management as an outside spokesperson in order to bring all parties together for the benefit of patients and staff.

17. You say you were surprised that members of the IC team had not already suggested them. Can you suggest a reason why they had not done so?

A I suspect that informed requests had been made by certain individuals but due to the disrespect, distrust and egotism of the IPC committee, none were adopted.

a) You describe the conduct of the IPC committee as “disrespect, distrust and egotism”. How did you learn of this behaviour?

A I learned of this behaviour from two trusted colleagues. Given prior knowledge of some of the IPC members concerned, I felt their testimony was accurate.

18. In your email you explain that “There are serious environmental deficiencies at the QUEH”. What are these deficiencies, to whom did you describe them to and how and when did you become aware of them?

A Dr Inkster and I wrote a treatise to the Scottish Government on the deficiencies following a call for comment on HAI risks from the environment. **(A41745971 - Health and Sports Committee - Health Hazards in the Healthcare Environment - HS/S5/19/HHHE/A2, Bundle 27 vol 7, page 329)**

19. In your email you state “GGC can no longer paper over the cracks in this multi-million pound flagship hospital”. What were these cracks, to whom did you describe them to and how and when did you become aware of them?

A I was referring to the inaction from key members of IPC and management over the ongoing environmental risks to patients. Some individuals were doing

their best to raise awareness and put interventions in place but their concerns were ignored.

a) How did you learn of this 'inaction'? Who told you about the actions of some individuals and when?

A As with the previous response, I learned of this 'inaction' from trusted colleagues working at the QEUH. However, it was clear that remedial action, if initiated, was slow to have an impact. Infections linked to the environment were continuing to occur over months and even years.

20. Did Professor Jones reply to your email? If so, how? What was his response?

A Brian Jones did not respond to my e-mail. To be fair, he was in a difficult position because while he supported my input, close colleagues did not.

Conclusions

21. What was your impression of the culture within the IC Team? How does this affect the delivery of the service?

A I have never come across a more toxic atmosphere among IPC professionals. My motivation for getting involved was to protect the people working hard but also bring the structure together to make the changes required.

22. How would you evaluate the efficacy of the Infection Control team? Are they fulfilling their function? What are the reasons for this?

A A dysfunctional team cannot deliver appropriate care. Even if there were a few individuals trying to do their best, the whole has to work together to achieve results. IPC is difficult at the best of times; it is the Cinderella of medical specialties and never receives adequate resources. How do you cost something that doesn't happen? So an effective IPC team means that the HAI rate in their institution is low.

23. Do you have any other observations regarding the Infection Control Team at

QEUH/RHC?

A Just an immense sadness at what happened. I believe that the original planning, design and construction were likely to blame for future events; then the reluctance to recognise what was happening coupled with ignorance, inaction and sheer laziness by key individuals compounded original construction failings. I wonder whether there was too much cost cutting in the first instance, rather than aiming for a quality build. I am not qualified to comment on this aspect any further.

Declaration

I believe that the facts stated in this witness statement are true and accurate and may now form part of the evidence before the Scottish Hospitals Inquiry and can be published on the Inquiries website. I understand that proceedings for contempt of court may be brought against anyone who makes, or causes to be made, a false statement in a document verified by a statement of truth without an honest belief in its truth.

Stephanie Dancer

16 August 2024

The witness provided the following documents to the Scottish Hospital Inquiry for reference when they completed their questionnaire statement.

Appendix A

A48491885 – Report from Professor Stephanie Dancer - Chronology of my involvement with QEUH Bundle 27 vol 7, page 574

A41745971 - Health and Sports Committee - Health Hazards in the Healthcare Environment - HS/S5/19/HHHE/A2, Bundle 27 vol 7, page 329

Appendix B

CV Professor Stephnie Dancer March 2024

CURRICULUM VITAE

Stephanie J Dancer

**BSc, MB.BS, MD, MSc, FRCPath, DTM&H,
FRCP(Ed), FESCMID, FISAC**

Consultant Microbiologist & Professor of Microbiology

March 2024

Personal details

Name: Stephanie Jane Dancer
Date of birth: [REDACTED]
Marital status: [REDACTED]
Religion: [REDACTED]
Nationality: British
Address: [REDACTED]
[REDACTED]
[REDACTED] Tel: [REDACTED]
GMC status: Full Registration No: [REDACTED]
Orcid id: orcid.org/[REDACTED]

Summary

Stephanie is a medical microbiologist working between NHS Lanarkshire and Edinburgh Napier University. She edited the *Journal of Hospital Infection* for 20 years and now edits for *International Journal of Antimicrobial Agents and Infection, Disease & Health*. She trained at St. Bartholomew's Hospital in London followed by postgraduate studies in pathology at Guy's Hospital. She has worked and travelled all over the world, from South East Asia to the Canadian tundra. She spent six years as Infection Control Officer for Argyll before moving to Health Protection Scotland (HPS) as their inaugural microbiologist. She has been a member of national, European and international working groups on antibiotic prescribing; infection control; MRSA; and environmental cleaning, and is a current or recent member of NHS Scotland ASSURE; HPS (decontamination and antimicrobial resistance); UK NICE (infection control & antimicrobial prescribing); UK HTA (screening and diagnostics); DEFRA; and ESCMID committees on conference planning, infection control, MRSA & multi-resistant Gram-negative bacilli. She balances clinical duties with teaching and research on antimicrobial stewardship, hospital hygiene and infection control.

Qualifications

Ordinary Levels

Autumn 1974: Mathematics Grade 1; English Language Grade 1
Summer 1975: Religious Education Grade A; French Grade A; Russian Grade B;
English Literature Grade A; Physics Grade B; Chemistry Grade A;
Music Grade A; Advanced Mathematics Grade B; Latin Grade A

Advanced Levels (Oxford Nuffield Board) June 1977

Mathematics, Physics & Chemistry: Grade A*

MB, BS (Scholarship entrance, University of London) June 1983

Degree in Medicine, Medical College of St. Bartholomew's Hospital, London.

BSc in Medical Physiology (University of London)

June 1980

Intercalated one-year science degree Class 2:1.

- i) Cardiovascular/Respiration module (St Thomas' Hospital, London) Projects on "The athlete's heart" and "The origin of hyperventilation in response to exercise".
- ii) Endocrinology module (Royal Free Hospital, London)
Joint project on "The modification of pituitary ACTH release by morphine in the rat". Seminar presentation: "The function of Prolactin".
- ii) Neurophysiology module (Institute of Neurology and NIMR, London). Projects: "The development of central nervous connections in the foetus" and "Visual evoked response to light in tadpoles".

MD Thesis (Guy's Hospital, University of London)

June 1991

"The Staphylococcal Scalded Skin Syndrome: Epidemiological and Biochemical Studies."

MSc Microbiology (Royal London Hospital, University of London) **Sept 1992**

MSc thesis: "A Hospital Outbreak of Bacillus."

FRCPATH (Royal College of Pathologists, London)

Dec 1992

Written (Part II, Final) examination gained March 1992, London, UK; practical examination gained Dec. 1992, Glasgow, UK. Fellowship awarded October 2000.

DTM & H (London School of Hygiene & Tropical Medicine) **April 1993**

This four-month course offered intensive teaching in tropical medicine with specific focus on clinical management, epidemiology and diagnostic parasitology.

FRCP(Ed) (Royal College of Physicians of Edinburgh)

May 2012

Honorary Fellowship awarded May 25th 2012.

Current position

Present posts: 1) Consultant Microbiologist, NHS Lanarkshire, Dec 2018-

This part time clinical research position is based at Hairmyres Hospital. The post comprises 2 PAs with additional facility for locum cover for out-of-hours work (1 in 5 weekends). Contracted clinical duties cover the clinical microbiology and infection control service for Lanarkshire health board. Since beginning this post, SD has completed or has on-going studies on: molecular epidemiology of MRSA; decontamination of medical equipment; environmental cleaning; cost evaluation of healthcare-associated infection; effect of ventilation on the home microbiome; role of hard surface biofilm in critical care; role of the air in HAI; isolation and molecular

characterisation of VRE and MDR-coliforms; surgical site infection; pre-operative screening for *S.aureus*; disinfectants & multiple outbreak investigations.

2) Professor of Microbiology, Edinburgh Napier University, March 2016-

This post provides academic support to the School of Applied Sciences, Department of Microbiology & Drug Discovery (one day/week). This includes teaching and original research. Currently supervising one PhD and PI for NHS ASSURE research fund aimed at controlling infection in Scottish hospitals.

Previous consultant posts

Dec 2007-Dec 2018: Consultant Microbiologist, NHS Lanarkshire

Led the clinical microbiology and infection control service for NHS Lanarkshire, based at Hairmyres Hospital. Helped the laboratory to achieve success in multiple CPA inspections and introduced screening programmes for patients in a range of specialties. Took an active role in the out-of-hours clinical microbiology service for the health board on a 1 in 3/4/5 basis during this post. I taught doctors, biomedical scientists, nurses, pharmacists and others on a regular basis. I was a member of two infection control committees; antimicrobial prescribing committee; sterilisation and decontamination group; clinical governance; and other short term outbreak or incident committees. Engaged in a number of research studies, some of which continue to date.

April 2005-Dec 2007: Consultant Microbiologist Southern General Hospital, Glasgow

This consultant post had a 1 in 5 out-of-hours commitment. The Institute of Neurology receives patients from all over Scotland and experience was gained in managing acute and chronic neurological infections, including brain abscess, meningitis and shunt infections. I set up and supervised research projects on 'Bacterial Transforming Agents', antibiotic resistance, hospital cleaning and MRSA and supervised MSc projects comparing and contrasting different methods for the rapid detection of MRSA and environmental sampling of hospital surfaces.

Feb. 2002-April 2005: Consultant Microbiologist, Health Protection Scotland, Glasgow

I was responsible for leading Antimicrobial Resistance Surveillance in Scotland as well as supporting several teams within HPS regarding microbiological advice. I set up Scottish participation in the European Antimicrobial Resistance Surveillance Scheme (EARSS) and helped establish the Scottish Microbiology Forum. Within the first year of my appointment, I organised a national conference on MRSA. I assisted with the implementation of ECOSS and initiated a number of projects on hospital cleaning, MRSA, ES β L-producing coliforms, antimicrobial resistance and rapid molecular testing. Three clinical sessions per week at the Western Infirmary allowed me to maintain basic microbiological and medical skills. I was allocated responsibilities within the cardiothoracic intensive care, high dependency and general wards and contributed towards audit, teaching and supervision of junior staff.

Sept - Nov 1994: **Visiting Research Associate**, Dept. Tropical Microbiology,
University of Liverpool. Head of Department: Prof C. Hart

I characterised isolates brought back from Canada's High Arctic and presented the findings at the UK Path Society conference at the John Radcliffe Hospital, Oxford.

Aug 1993-Nov 1993: **Visiting Lecturer in Microbiology**, Tropical Medicine
(Wellcome) Unit, Mahidol University, Thailand. Director: Prof. Nicholas J. White

This post was funded by the Wellcome Trust and afforded an opportunity to manage patients with tropical infectious diseases in Thailand, Vietnam and Northern Territory, Australia. I worked as a microbiologist in Sappasitprasong Hospital, Ubon Ratchatani, North East Thailand, and supervised patients in various research trials centred upon *Burkholderia pseudomallei* infections. Clinical duties also included the management of patients with septicaemic shock. The two main trials were: 'Pharmacokinetics of ceftazidime in acute septicaemic melioidosis'; and 'Effects of Anti-Platelet Activating Factor (PAF) in septicaemic shock'.

I also worked at Bien Nhiet Dhoi Hospital in Ho Chi Minh City, Vietnam, in order to gain clinical experience in the management of malaria, diphtheria and tetanus. I advised microbiology staff on various UK isolation techniques and taught them how to perform MICs. Daily ward rounds allowed valuable insight into the Vietnamese management of infection and public health. Increasing interest in melioidosis took me to the Menzies School of Health Research in Darwin, Australia, where *B. pseudomallei* infections are commonly seen among Aboriginal populations.

Nov 1990-Jan 1993: **Senior Lecturer in Microbiology**
St Bartholomew's Hospital, London.

Four senior registrars shared the supervision of the routine clinical laboratory. St. Bartholomew's Hospital caters for 100-150 medical students per annum and senior registrars planned and ran microbiology teaching throughout the clinical years. Specialist units within the hospital included Intensive Care (ICU), Bodley-Scott haematological malignancies unit, renal unit and a new ward for HIV patients.

July 1990-Oct 1990: **Lecturer in Microbiology**
The Royal London Hospital Medical College.

During this post, I enrolled on the MSc course in Clinical Microbiology and investigated a hospital outbreak of non-gastrointestinal *Bacillus cereus*.

Dec 1987-July 1990: **Research Registrar in Microbiology**
Guy's Hospital Medical College, London SE1
Head of Dept: Professor Cedric A. Mims

This research post was funded by the Special Trustees of Guy's Hospital. My MD thesis was entitled, 'The Staphylococcal Scalded Skin Syndrome: biochemical and epidemiological studies'. The work involved Biochemistry, Histopathology and Immunology departments as well as Clinical Bacteriology and Obstetrics. Experience was gained in optimising staphylococcal culture requirements for toxin production, methods of protein purification, animal bioassay, phage-typing, plasmid extraction,

production and analysis of monoclonal antibodies, SDS-page electrophoresis, High Performance Liquid Chromatography (HPLC), basic immunological techniques such as immunodiffusion, enzyme-inhibition assays, bacteriocin typing, staphylococcal adhesion assays and epidemiological and statistical analyses.

July 1986-Nov 1987: Registrar in Clinical Bacteriology & Virology

Guy's Hospital, London Bridge, London SE1

This post involved daily assessment and authorisation of microbiological results. I was taught hospital infection control and contributed towards the management of various hospital outbreaks as a member of the Infection Control Committee. An outbreak of the rare 'Scalded Skin Syndrome' in the neonatal unit launched a major epidemiological investigation and led to the research post described above.

March 1985-June 1986: Senior House Officer in Pathology

Guy's Hospital, London Bridge, London SE1

This rotation consisted of four months in Histopathology, Biochemistry, Haematology and Clinical Bacteriology and Virology, with a 1-in-4 on-call rota for emergency treatment of haemophiliacs and anti-coagulated patients and out-of-hours microbiology. Histopathology offered training in macro- and microscopic description of excised tissue with post-mortem examinations. Experience in tissue culture, fluorescent microscopy and serology was gained in Virology and serum antibiotic assay methods in Microbiology.

Sept 1984-Feb 1985: Senior House Officer in Accident & Emergency

Bristol Royal Infirmary, City of Bristol, Avon.

Close to the junction of three major motorways, this A&E department sees multiple RTA patients and industrial accidents from engineering and shipyard workers at the city docks. The post involved 8-12 hour shifts on a rotational basis with experience in all aspects of paediatric, obstetric, medical and surgical emergencies. I organised a weekly ECG tutorial group for medical students.

Feb 1984-July 1984: House Surgeon in General & ENT Surgery

St. Bartholomew's Hospital, London.

The first three months involved a 1:2 rota in general surgery with special interests in surgical management of breast cancer and Hodgkin's disease. The final three months involved a 1:3 rota in Ear, Nose and Throat surgery. Special interests centred upon the management of head and neck tumours.

Aug 1983-Jan 1984: House Physician in General Medicine

Whipps Cross Hospital, London.

The post involved a busy 1:3 medical rota with cross cover. Special interests were metabolic diseases (esp. Diabetes mellitus) and rheumatology.

Offices past and present

| | |
|-------------------|---|
| March 2023 | Elected Member of ESGNI executive committee (ESCMID) |
| Dec 2023- | Board Member , Groove-binders, Strathclyde University |
| Jan 2016- present | Senior Editor : <i>Infection, Disease & Health</i> |
| May 2014-18 | Clinical Advisor , MGB-Biopharma & Strathclyde University |
| October 2013-15 | Senior Editor and Board member , <i>Healthcare Infection</i> |
| February 2012 | Witness , Vale of Leven Enquiry, Scotland |
| July 2011-present | Editor/Board member , <i>Journal of Hospital Infection</i> |
| May 2011- present | Section Editor , <i>Int J Antimicrob Agents</i> |
| Jan 2006-2011 | Editor-in-Chief , <i>J Hosp Infect</i> ; annual submissions increased from 500 to 900; Impact Factor increased from 2.2 to 3.393 . |
| Jan 2006-2011 | Member , UK Healthcare Infection Society Council. |
| August 2008-13 | External Examiner , Highlands & Islands University MSc in Infection Control |
| 1996-present | Referee for numerous international journals and grant-giving bodies, e.g. <i>Wellcome</i> ; <i>HTA</i> ; <i>NIHR</i> ; <i>CSO</i> ; <i>MRC</i> |
| Nov 2002-06 | Honorary Secretary , Scottish Microbiology Forum. |
| June 2001-02 | Elected Chairman , Medical Staff Association, VoLDG Hospital |
| June 2000-03 | National Register of Panellists for Microbiology (Scotland). |
| July 1999-02 | Appointed Undergraduate Sub-Dean , Glasgow University. |
| Sept 1999-2000 | External Examiner for the Diploma in Infection Control, University of Glasgow. |
| July 1996-2006 | Assistant Editor , <i>Journal of Hospital Infection</i> . Member of Editorial Board. |
| May 1991- | Elected Vice-President of St. Bartholomew's Hospital Boat Club. First woman to be appointed. |
| 1980 -1982 | Elected Captain , St. Bartholomew's Hospital Boat Club. |
| 1978 -1979 | Treasurer , Hall's Committee (QMC, London & St Bartholomew's Hospitals Halls of Residence). |

National & International Working Groups

| | |
|--------------|--|
| June 2022-24 | Member of ECCMID scientific planning committee 2022-2024 |
| May 2021- | Member, Chief Scientist Office Translational Clinical Studies Committee, Scotland |
| May 2020-21 | Member of SAGE subgroups during COVID-19 pandemic |
| May 2020-21 | Member of DEFRA expert group during COVID-19 pandemic |
| Jan 2019-22 | Committee member, NICE UK : Antimicrobial prescribing. |
| Dec 2016-18 | Health Protection Scotland AMR committee |
| Oct 2013-16 | Committee member , British Standards Institute |
| Jan 2013-19 | Health Protection Scotland Decontamination committee |
| Jan 2011-15 | Member, National Institute of Clinical Excellence (NICE) formulating expert guidance on hospital-acquired infection. |
| Mar 2011- | ESGNI (European Study Group for Nosocomial Infections) . |
| July 2010-16 | Member, HAI Commodities group, responsible for assessing new technology for infection control in Scotland's hospitals. |
| Jan 2009-15 | Member, Cochrane Review on Hospital cleaning. |
| Apr 2009-11 | Health Facilities Scotland : Decontamination committee. |
| June 2008-12 | Member, HTA Board (UK) (Research applications assessor) |
| Feb 2007 | NHS Education : Advisor, national Infection Control training. |
| Oct 2006-7 | HAI Taskforce : The role of the housekeeper. |
| Oct 2005 | National working group on Antimicrobial prescribing |
| Jan 2003 | BSAC Scottish subgroup : Undergraduate teaching for Prudent Antimicrobial Prescribing. |
| June 2005 | HAI Taskforce : Monitoring Cleaning Standards. Report published. |
| Feb 2004 | HAI Taskforce : Antimicrobial Prescribing in Hospitals. |
| March 2003 | HAI Taskforce : Hospital Cleaning - Report/Guidelines published. |
| 2002-2003 | Scottish Infection Standards (SISS) subgroup : Good Practice Guidelines published for 'MRSA'; 'Laboratory Organisation' and 'Antibiotic Prescribing in Hospitals': RCP (Edinburgh), Nov 2003. |
| March 2002 | HAI National Steering Group . Several surveillance publications. |

Current Grant applications

2024-: **‘Examining the groove-binder group of compounds offering potential antimicrobial activity’**, with Strathclyde University (Profs. Colin Suckling & Iain Hunter). Application to CSO; successful.

2022- : Edinburgh Napier University appointed to manage NHS Scotland ASSURE Research Scheme on **‘HAI from the Healthcare Environment’** [REDACTED].

Research grants obtained

2020-22: **‘Examining the groove-binder group of compounds offering potential antimicrobial activity’**, with colleagues at Strathclyde University (Prof. Colin Suckling). Application to CSO successful [REDACTED]. Paper published.

2017-22: London School of Hygiene & Tropical Medicine: **‘The Clean Study’**, funded by MRC. Following an intervention involving training and mentoring of cleaning supervisors, this study demonstrated improved environmental hygiene in maternity and newborn units in three Tanzanian hospitals. Papers published.

2017-19: **‘Modelling the effect of ventilation on MDROs in community homes’**. With Dept. of Engineering (Leeds University) and Glasgow School of Art. Application successful [REDACTED]; paper published.

2017: **‘Healthcare Environment Control, Optimisation and Infection Risk Assessment’**. EPSRC: Research Grant. With Prof Cath Noakes (Dept of Engineering, Leeds University); project (healthcare toilet microbiome) started 2023 [REDACTED].

2017: **‘Investigation of biofilm components on frequent touch hospital equipment’**. With Professor J-Y Maillard (Cardiff University) & Dr Jon Otter (UCLH). Healthcare Infection Society grant [REDACTED]. Study published.

2016-: **‘Investigating the transmission of *Staphylococcus aureus* in ICU’**. Surface-Air-Sampling (SASS) project in Critical Care, Hairmyres hospital. Funded by a [REDACTED] project grant from NHSL. Study complete: three publications.

2016-: **‘Examining the Groove-binder class for antimicrobial properties’**. Study funded by Chief Scientist Office, Scotland, with Professors Colin Suckling and Iain Hunter, Strathclyde University, Glasgow [REDACTED]. Study completed.

2016-: **‘Assessing the impact of microbubble technology for surface cleaning’**. Project in conjunction with Professor Tim Leighton, University of Southampton. [REDACTED] awarded for initial microbiology pilot study.

2015-: **‘Clinical and decontamination potential of electrolysed water’**. Several projects examining the effects of electrolysed water as a disinfectant (*C. difficile*; norovirus) and as a wound irrigant (diabetic feet) in NHS Lanarkshire. Funding [REDACTED]. Funding body: Aqualution Ltd., Scotland.

2015-: **‘EPSRC Bridging the Gaps Antimicrobial Resistance - Tackling Antimicrobial Resistance: An Interdisciplinary Approach’**. Co-applicant with Dr D.

Malik (Loughborough University) for joint application to investigate the role of antimicrobial surfaces in healthcare [REDACTED]. Study complete: two publications.

2010-13 & 2015-: AHRC SFC Knowledge Exchange Programme: ‘Visualising the invisible: developing innovative approaches to help NHS staff prevent and control Healthcare Associated Infections’. [REDACTED] awarded for a translational arts project to study perception of infection transmission for educational purposes. Lead: Dr Colin MacDuff, Robert Gordon University, Aberdeen; also with St. Andrew’s University & Glasgow School of Art. Study complete, one publication.

2014- : **‘Cost-benefits of environmental cleaning methods for controlling hospital-acquired infection: the REACH project’.** Developed an environmental cleaning intervention to reduce HAI. Application to NHMRG **successful**; with Professor Nicholas Graves, Australian Centre for Health & Biomedical Innovation, Queensland University of Technology, Australia. Study complete and published.

2012-: **‘How Quickly Do Hospital Surfaces Become Contaminated?’** [REDACTED] from NHS Lanarkshire for study evaluating the microbiological effects of two different cleaning methods. Posters & two papers presented and published.

Health Facilities Scotland (2010): [REDACTED] for hospital cleaning assessment using ATP bioluminescence. Paper published in *J Hosp Infect* Jan 2011.

NHS Lanarkshire (2010): [REDACTED] for decontamination study. Paper published.

UNISON (2006): [REDACTED] received from Unison, to be used with monies from **NHS Scotland** for projects on hospital cleaning, modelling of environmental data against clinical risk of infection and MRSA. Several papers published.

IDI®, Quebec (2004), Canada: Realtime PCR equipment (value: [REDACTED]); plus additional [REDACTED] for consumables obtained from **Common Services Agency** to trial the equipment for rapid testing of MRSA in the clinical laboratory. Report complete.

Department of Health (2002), London: [REDACTED] to study antibiotic resistance among environmental organisms from different wards in a teaching hospital. One paper.

Argyll & Clyde Acute Hospitals Research Fund (2001): [REDACTED] for projects on Group B streptococci, healthcare environment and oral streptogramins. Three papers.

Argyll & Clyde Acute Hospitals Trust Research Fund (2000): [REDACTED] to study antibiotic resistance of environmental organisms in Intensive Care. One paper.

Bayer (1998), Berkshire: [REDACTED] for six-month collection of selected pathogens for in-vitro susceptibility studies against moxifloxacin.

Rhone-Poulenc Rorer (1998), Kent: [REDACTED] for three year in-vitro susceptibility study of Gram-positive isolates against quinupristin-dalfopristin.

Joint Services Expedition Trust Committee (1994): [REDACTED] for research consumables for work on the Arctic isolates. One paper published.

Wellcome Trust (1993): ██████ for three-month research post in Thailand, Vietnam and Darwin, Australia. One paper published.

Proctor & Gamble Ltd (1990): ██████ for further seven months for Staphylococcal Scalded Skin Syndrome study. Four papers published.

Special Trustees of Guy's Hospital (1988): London: ██████ for two-year study on the Staphylococcal Scalded Skin Syndrome, leading to MD thesis.

Teaching

Edinburgh Napier University (2016-): Contribute to several modules; currently joint supervisor of a PhD student.

NHS Lanarkshire Trust (2008-18): Teaching doctors, laboratory staff, students, nurses as requested. Gained the highest score possible (100%) from junior doctors for a seminar on antimicrobial resistance. Supervise research projects for junior doctors, BMS and research nurses; several joint publications.

University of Highlands & Islands (2008-2013): External examiner for MSc in Infection Control.

Southern General Hospital (2005-7): Taught Post-graduates, BMS's, students, doctors, nurses, pharmacists and cleaning staff, etc. Supervised MSc projects on MRSA (Glasgow Caledonian University) with publications. Junior doctor audits on antimicrobial prescribing and resistance.

University of London (2004-present): External Examiner for PhD theses: '**Biochemical modelling of structure-function relationships of staphylococcal toxins**'; and '**Epidemiological and molecular studies of Community-associated Methicillin-Resistant *Staphylococcus aureus***'.

Open University (2002-8): Supervisor for PhD student (Dr A. Robb). '**Investigating the mechanisms of antibiotic resistance in animal and human staphylococci**'. PhD awarded August 2008.

Argyll & Clyde Health Board (1996-02): Taught doctors, laboratory staff, students, nurses and pharmacists, etc. Supervised biomedical scientist for MSc project on methicillin-resistant *Staphylococcus aureus* (Glasgow Caledonian University).

University of Glasgow (1996-2018):

- 1996-98: Tutor for third year medical students and Special Studies Modules.
- 1999: Directed microbiology workshop for final ENT FRCS candidates.
- 1999-00: External examiner, Diploma of Infection Control.
- 1999-02: Appointed Undergraduate Sub-Dean, Glasgow University.
- 1999: Undergraduate Facilitator for medical students, Glasgow University.
- 1999: Supervisor, Special Studies Modules for medical students.
- 2002-03: Lectures 'Antibiotic Resistance & Prescribing' (Dental school).
- 2009-10: Lectures 'Antibiotics' & 'Antibiotic Resistance' (Medical school).
- 2013: Lecture course on antimicrobial prescribing & resistance.

University of Edinburgh (1995-6): Lecturer, tutor and practical demonstrator for science and medical students. Attended the five-day ‘*Teaching, Learning and Assessment*’ course. Year lecture, “Identification of micro-organisms,” with associated practicals. 2012-13: External Examiner for 3 PhD theses: ESBL-coliform epidemiology and MDR-*Acinetobacter baumannii* (x2)

School of Tropical Medicine, University of Liverpool (Autumn 1994): Supervised Bacteriology demonstrations for the DTM & H course.

Guy’s Hospital (Dec 1987 - June 1990): Construction and supervision of all practical microbiological demonstrations; Year lectures: ‘Serology in the diagnosis of infection’, ‘Control of Hospital Infection’ and ‘Basic neonatal immunology’.

St. Bartholomew’s Hospital (Dec 1990 – Dec 1992): Supervisor for practical demonstrations for Pathology teaching. Seminars in basic microbiology. Lectures on ‘Use of Microbiology Laboratory’, ‘Mycology’; ‘Vaccination’ & ‘Infections in the Immunocompromised’.

Prizes and awards

Dec 2019: Awarded **ISAC Fellowship** for professional excellence and outstanding service rendered to the profession and the Society.

April 2017: Awarded **ESCMID Fellowship** for professional excellence and outstanding service rendered to the profession and the Society.

Nov 2014: **Two discretionary points** awarded, NHS Lanarkshire.

Oct 2012: **Discretionary point** awarded, NHS Lanarkshire.

May 2012: Awarded **Honorary Fellowship**, Royal Coll Phys of Edinburgh.

Nov 2009: **Two discretionary points** awarded, NHS Lanarkshire.

Nov 2007: **Discretionary point** awarded, NHS Greater Glasgow & Clyde.

Oct 2004: **Discretionary point** awarded, Health Protection Scotland.

April 2000: **Discretionary point** awarded, Argyll & Clyde Health Board.

May 1984: **University of London Honours-Colours** awarded for services to St. Bartholomew’s Hospital Rowing Club.

March 1982: **Finalist**, Orthopaedic & Cardiology Prizes.

Sept 1977: **Scholarship to study medicine**, Cedars Grammar School.

Continuing Professional Development (Royal College of Pathologists)

I joined this scheme in Jan.1996. Total credits for session 1996-2000 were **409** (initial target 208). Credits for 2000-2005 were **687**; for 2005-2010 were **877**; and for 2010-2015 were **1002** (given target 250). The Regional College tutor reviewed credits for 2003 and 2006. For the 5-year period ending on 31/3/2016, I achieved **1001** credits; **483** credits for the 5-year period ending on 31/03/2019, and **534** credits for the 5-year period ending on 3/31/2022.

Publication record

I have over **200 publications** in peer-reviewed journals; books; guidelines, etc. On average, top ten papers have about **670 citations** each (Google Scholar); top 20 (first author for 11) have over **450 citations** each. Author h-index: **52** (Google Scholar).

Publications (in preparation/ submitted)

1. Dancer SJ, Hamill R, Wilson D, McLure H, McDougal C. (2024). '**Management of the diabetic foot using neutral electrolysed water**'. In preparation, *European J Operational Research*.
2. Schuler H, Harnoss JC, Dancer SJ, et al. (2024). '**Particle and microbial load with conventional and laminar airflow ventilation under real operative conditions**'. Awaiting review, *J Hosp Infect*.
3. Aumeran C, Hamilton L, Jamieson L, Lee E, Dancer SJ. (2024). '**Establishing the living microbiome of the healthcare toilet**'. Original study, in preparation.
4. Denkel LA, Voss A, Caselli E, Dancer SJ, Leistner R, Gastmeier P, Widmer, A. (2024) '**The place of probiotic cleaning in European hospitals – a narrative review based on expert discussion**'. Final draft.
5. Kramer A, Dancer SJ, et al. (2024). '**Survival of microorganisms, protozoa and viruses on inanimate surfaces considering re-cultivation: Basis for the assessment of the nosocomial infection risk**'. Provisionally accepted.
6. Gon G, Ma S, Aiken A, Dancer SJ, Graham WJ, Nash S, Nov V, Sovathiro M, Sarpong B, Vong S, Tang V, Thompson J, Ir P. (2024) '**Reducing the risk of infection from the healthcare environment: results from a stepped wedge trial in Cambodia**'. Paper submitted.

Publications (in press)

1. Okomo U, Gon G, Darboe S, Sey ICM, Nkereuwem O, Leigh L, Camara N, Makalo L, Keita A, Dancer SJ, Graham W, Aiken AM. (2024). '**Assessing the impact of a cleaning programme on environmental hygiene in labour and neonatal wards: an exploratory study in The Gambia**'. Accepted, *Antimicrob Res Infect Control*.
2. Morawska L, Allen J, Bahnfleth W, Bennett B, Bluysen PM, Boerstra A, Buonanno G, Cao J, Dancer SJ, et al. (2024). '**Making indoor air quality standards the reality: moving forward**'. Commentary, *Science*.

Publications (2024-1988)

1. Dancer SJ. (2023). '**Hospital Cleaning: Past; Present; and Future.**' Narrative review. *Antimicrob Res Infect Control*.
2. Mitchell B, McDonagh J, Dancer SJ, Ford S, Sim J, Khadar BTSA, Russo P, Maillard J-Y, Rawson H, Browne K, Kiernan M. (2023). '**Risk of organism acquisition from prior room occupants: an updated systematic review**'. *Infection Disease & Health*.
3. Tang JW, Marr L, Dancer SJ, Li Y. (2023). '**Airborne transmission of respiratory viruses**'. *Curr Opinion Pulm Med*.

4. Morawska L et al. (2023). **‘COVID-19 and Airborne Transmission: Science Rejected, Lives Lost. Can Society Do Better?’** *Clin Infect Dis*.
5. Hind C, Clifford M, Woolley C, Harmer J, McGee L, Tyson-Hirst I, Tait H, Brooke D, Dancer SJ, Hunter I, Suckling C, Beveridge R, Parkinson J, Sutton M, Scott F. (2023). **‘Insights into the spectrum of activity and mechanism of action of MGB-BP-3’.** *J Medicinal Chemistry*.
6. Loh M, Dancer SJ, et al. (2023). **‘SARS-CoV-2 sampling in NHS Lanarkshire’.** *J Hosp Infect*.
7. Dancer SJ. (2022). **‘How Do Biofilms Affect Surface Cleaning in Hospitals?’** Editorial, *Hygiene*.
8. Dancer SJ. (2022). **‘The Inanimate Environment’.** Book chapter, ‘Bennett & Brachman’s Hospital Infections’.
9. Jimenez J, Marr L, Randall K, Ewing ET, Tufekci Z, Greenhalgh T, Tellier R, Tang JW, Li Y, Morawska L, Mesiano-Crookston J, Fisman D, Hegarty O, Dancer SJ, et al. (2023). **‘What Were the Historical Reasons for the Resistance to Recognizing Airborne Transmission during the COVID-19 Pandemic?’** *Indoor Air*.
10. Manoukian S, Stewart S, Dancer SJ, et al. (2022). **‘Probabilistic microsimulation to examine the cost-effectiveness of hospital admission screening strategies for carbapenemase producing enterobacteriaceae (CPE) in the United Kingdom’.** *Eur J Health Econ* 23(7):1173-1185.
11. Gon G, Aiken AM, Dancer SJ, et al. (2022). **‘A Better Disinfectant for Low-Resourced Hospitals? A Multi-Period Cluster Randomised Trial Comparing Hypochlorous Acid with Sodium Hypochlorite in Nigerian Hospitals: The EWASH Trial’.** *Microorg* 10(5): 910.
12. Inkster T, Peters C, Hood J, Dancer SJ. (2022). **‘Safe design and maintenance of Bone Marrow Transplant Units: What to do when there are no guidelines’.** Review, *Clin Micro Infect*.
13. Greenhalgh T, Peng Z, Jimenez JL, Bahnfleth W, Dancer SJ, Bourouiba L; 22 authors of the technical paper in Environmental Science and Technology. (2022). **‘Quantifying transmission risk of SARS-CoV-2 in different situations’.** *BMJ* 376: o106.
14. Peng Z, Pineda Rojas A, Kropff E, Bahnfleth W, Buonanno G, Dancer SJ, et al. (2022). **‘Practical Indicators for Risk of Airborne Transmission in Shared Indoor Environments and their Application to COVID-19 Outbreaks’.** *Environ Sci Technol* 56(2):1125-1137. Given **Best Paper Award** (*Environmental Science & Technology Best Paper Awards 2022*).
15. Dancer SJ, Inkster T. (2022). **‘One size does NOT fit all: why infection prevention is difficult to randomise or control’.** *J Hosp Infect*.
16. Dancer SJ. (2022). **‘Airborne SARS-CoV-2’.** *BMJ* 377: o1408.
17. Dancer SJ, Cormack K, Loh M, Coulombe C, Thomas L, Pravinkumar SJ, Kasengele K, King M-F, Keaney J. (2022). **‘Healthcare-acquired clusters of COVID-19 across multiple wards in a Scottish health board’.** *J Hosp Infect*.
18. Dancer SJ, Bluysen PM, Li Y, Tang JW. (2021). **‘Do we just open windows? Why the evidence for preventing COVID-19 is lost in translation’.** *BMJ* editorial.
19. Dancer SJ. (2021). **‘Reducing the risk of COVID-19 transmission in hospitals: focus on additional infection control strategies.’** Original article, *Surgery (Oxford)*.

20. King M-F, Wilson AM, Weir, Lopez Garcia M, Hirwar W, Khan A, Fletcher L, Sleigh PA, Clifton I, Dancer SJ, Wilcox M, Reynolds, Noakes CJ. (2022). **'Modelling fomite mediated SARS-CoV-2 exposure through PPE doffing in a hospital environment'**. *Indoor Air*.
21. Ledwoch K, Dancer SJ, Otter JA, Maillard JY. (2021). **'Dirty QWERTYs: there's no ESC!'** Letter, *J Hosp Infect*.
22. Manoukian S, Stewart S, Graves N, Mason H, Robertson C, Kennedy S, Pan J, Haahr L, Dancer SJ, et al. (2021) **'Evaluating the post-discharge cost of healthcare-associated infection in NHS Scotland.'** *J Hosp Infect* **114**:51-58.
23. Robertson C, Kennedy S, Pan J, Kavanagh K, Haahr L, Adil M, Dancer SJ, et al. (2021) **'Bed-days and costs associated with the inpatient burden of healthcare-associated infection in the UK.'** *J Hosp Infect* **114**:43-50.
24. Stewart S, Robertson C, Kennedy S, Kavanagh K, Haahr L, Manoukian S, Mason H, Dancer S, et al. (2021) **'Personalized infection prevention and control: identifying patients at risk of healthcare-associated infection.'** *J Hosp Infect* **114**:32-42.
25. Stewart S, Robertson C, Pan J, Kennedy S, Haahr L, Manoukian S, Mason H, Kavanagh K, Graves N, Dancer SJ, et al. (2021) **'Impact of healthcare-associated infection on length of stay.'** *J Hosp Infect* **114**:23-31.
26. Stewart S, Robertson C, Pan J, Kennedy S, Dancer S, et al. (2021) **'Epidemiology of healthcare-associated infection reported from a hospital-wide incidence study: considerations for infection prevention and control planning.'** *J Hosp Infect* **114**:10-22.
27. Lerche N, Holtfreter S, Walther B, Semmler T, Dancer SJ, et al. (2021). **'Staphylococcus aureus nasal colonization among dental health care workers in North Germany (StaphDent study)'**. *Int J Med Micro*.
28. Dancer SJ, Hart A, Jones D, Li Y. (2021). **'What is the risk of acquiring SARS-CoV-2 from use of public toilets?'** *Science Total Environ*.
29. Morawska L, Allen J, Bahnfleth W, Bluysen PM, Boerstra A, Buonanno G, Cao J, Dancer SJ, et al. (2021). **'A paradigm shift to combat indoor respiratory infection'**. *Science*.
30. Tang JW, Marr LC, Li Y, Dancer SJ. (2021). **'Covid-19 has redefined airborne transmission'**. Editorial, *BMJ* **373**: n913.
31. Tang JW, Kwok KO, Loh TP, Lee CK, Heraud J-M, Dancer SJ. (2021). **'Can we do better? A guide to pandemics – some Dos and Don'ts for the next one'**. *J Infect*.
32. Ledwoch K, Dancer SJ, Otter JA, Kerr K, Roposte D, Maillard JY. (2021). **'How dirty is your QWERTY? The risk of clinically relevant pathogen transmission from healthcare facilities' keyboards.'** *J Hosp Infect*.
33. Hiwar W, King M-F, Shuweihdi F, Fletcher LA, Dancer SJ, Noakes CJ. (2021). **'What is the relationship between indoor air quality parameters and airborne microorganisms in hospital environments? A Systematic Review and Meta-Analysis'**. Review, *Indoor Air*.
34. Manoukian S, Stewart S, Graves N, Mason H, Robertson C, Kennedy S, Haahr L, Dancer SJ, et al. (2021) **'ECONI: Evaluating the post-discharge cost of healthcare associated infection in NHS Scotland'**. *J Hosp Infect*.
35. King M-F, Wilson AM, López-García M, Proctor J, Peckham DG, Clifton IJ, Dancer SJ, Noakes CJ. (2021) **'Why is mock care not a good proxy for**

- predicting hand contamination during patient care?’** In press, *J Hosp Infect*.
36. Dancer SJ, King M-F. (2021). ‘**Systematic review on use, cost and clinical efficacy of automated decontamination devices**’. Review, *Antimicrob Res Infect Control*.
 37. Tang JW, Tellier R, Marr LC, Bluysen PM, Neilsen PV, Bahnfleth WP, Morawska L, Dancer SJ. (2020). ‘**Environmental air-sampling vs. person-to-person transmission.**’ Letter, *JAMA Netw Open*; 3(12): e2033232. doi:10.1001/jamanetworkopen.2020.33232. Available at: <https://jamanetwork.com/journals/jamanetworkopen/fullarticle/2774463>
 38. Tang JW, Dancer SJ, Bahnfleth WP, et al. (2021). ‘**Dismantling the myths on the airborne transmission of severe acute respiratory syndrome coronavirus (SARS-CoV-2)**’. *J Hosp Infect*.
 39. Gon G, Kabanyanyi AM, Blinkhoff P, Cousens S, Dancer SJ, Graham WJ, Hokororo J, Manzi F, Marchant T, Mkoka D, Morrison E, Mswata S, Oza S, Penn-Kekana L, Sedekia Y, Virgo S, Woodd S, Aiken AM. (2021). ‘**The Clean pilot study: evaluation of an environmental hygiene intervention bundle in three Tanzanian hospitals**’. *Antimicrob Resist Infect Control* 2021 Jan 7;10(1):8.
 40. Dancer SJ. (2020). ‘**Covid-19 has exposed the gaps in infection prevention and control.**’ Editorial, *Infect, Dis & Health*.
 41. Tang JW, Tellier R, Dancer SJ. (2020). ‘**Aerosol transmission – Out with the Old, In With the New**’. Response to *JAMA* commentary, July 2020. <https://jamanetwork.com/journals/jama/fullarticle/2768396>
 42. SJD is one of c.240 signatories on an Open Letter, ‘**It is Time to Address Airborne Transmission of COVID-19**’. *Clin Infect Dis*. (2020).
 43. Miller S, Morawska L, Jimenez JL, Dancer SJ, Marr L, Nazaroff W, Noakes C, et al. (2020). ‘**Outbreak of SARS-CoV-2 during a choir rehearsal**’. *Indoor Air*.
 44. Morawska L, Tang JW, Bahnfleth W, Bluysen PM, Boerstra A, Buonanno G, Cao J, Dancer SJ, et al. (2020). ‘**How can airborne transmission of COVID-19 indoors be minimised?**’ *Environ Int*.
 45. Wilson AM, King M-F, Dancer SJ, Sarah E. Abney SE, López-García M, Noakes CJ, Reynolds KA, Proctor J, Sexton J, Weir MH. (2020). ‘**COVID-19 and non-traditional mask use: How do various materials compare in reducing the infection risks for mask wearers?**’ *J Hosp Infect*.
 46. Sharpe T, McGill G, Dancer SJ, King M-F, Fletcher L, Noakes CJ. (2020) ‘**Influence of ventilation use and occupant behaviour on surface microorganisms in contemporary social housing**’. *Scientific Reports*.
 47. Suchomel M, Eggers M, Kramer A, Dancer SJ, Pittet D. (2020) ‘**Evaluation of WHO recommended hand hygiene formulations**’. *Emerg Infect Dis*.
 48. Dancer SJ, Tang JW, Marr LC, Miller S, Morawska L, Jimenez JL. (2020). ‘**Putting a balance on the aerosolization debate around SARS-CoV-2**’. Letter, *J Hosp Infect*.
 49. Gon G, Dancer SJ, Dreifelbis R, Graham WJ, Kilpatrick C. ‘**Reducing hand recontamination of healthcare workers during COVID-19**’. (2020). Letter, *Infect Control Hosp Epidemiol*.
 50. Dancer SJ. (2020) ‘**Revising Nightingale’s Legacy.**’ Letter, *J Hosp Infect*.
 51. King M-F, Atedoghu K, Hiwar W, López-García M, Dancer SJ, Noakes CJ, Fletcher LA. (2020) ‘**Fomite-to-fingertip transfer of Escherichia coli**

- during multiple surface contacts with and without hospital gloves'.
Indoor Air.
52. Harnoss JC, Dancer SJ, Kaden SF, Baguhl R, Kohlmann T, Papke R, Zygmunt M, Assadian O, Pittet D, Kramer A. (2020) **'Improving compliance with hand disinfection by shortening the rub-in time of alcoholic based hand rubs to 15 seconds without decreased efficacy'**. *J Hosp Infect* **104**(4):419-424.
 53. Dancer SJ. (2020) **'How much impact do antimicrobial surfaces really have on healthcare-acquired infection?'** *Clin Infect Dis* pii: ciz1078.
 54. Khaznadar L, Dancer SJ, Petersmann A, Seifert U, Below H, Papke R, Suchome M, Kohlmann T, Kramer A. (2020) **'Do pneumatic tube transport systems transmit potential pathogens? A hygienic risk assessment in a University hospital'**. *J Hosp Infect* **104**(3):374-380.
 55. Oon A, Reading E, Ferguson JK, Dancer SJ, Mitchell BG. (2020) **'Measuring environmental contamination in critical care using dilute hydrogen peroxide (DHP) technology: an observational cross-over study'**. *Infect, Dis & Health* **25**(2):107-112.
 56. Adams CE & Dancer SJ. (2020) **'Dynamic Transmission of Staphylococci in Critical Care'**. *Int J Environ Res & Public Health* **17**(6). pii: E2109.
 57. Lemonidis K, Salih TS, Dancer SJ, Hunter IS, Tucker NP. (2019) **'Emergence of an Australian-like *pstS*-null vancomycin-resistant *Enterococcus faecium* clone in Scotland'**. *Plos One* **14**(6):e0218185. European Nuclear Archive: GenBank BioProject (ID for VRE5 is PRJNA422798).
 58. Dancer SJ, Adams C, Smith J, Pichon B, Kearns A, Morrison D. (2019) **'Tracking *Staphylococcus aureus* in ICU using Whole-Genome Sequencing.'** *J Hosp Infect* **103**(1):13-20.
 59. Dancer SJ, Kramer A. (2019) **'Four Steps to Clean Hospitals: Look; Plan; Clean; and Dry'**. *J Hosp Infect* **103**(1): e1-e8.
 60. Dancer SJ. (2019) **'Visualising the Invisible; why cleaning is important in the control of hospital-acquired infection'**. *Evidence-Based Nursing* **22**(4):117.
 61. Dancer SJ, Macpherson SG, De Beaux AC. (2018) **'Protracted diagnosis of ACNES: a costly exercise'**. *J Surg Case Reports* (9): rjy230.
 62. Manoukian S, Stewart S, McFarland A, Mason H, Robertson C, Graves N, Reilly J, Dancer SJ. (2018) **'How do you cost the length of stay due to hospital-acquired infection? A review of analytical methods.'** *J Hosp Infect* **100**(2): 222-235.
 63. Ledwoch K, Dancer SJ, Otter JA, Kerr K, Roposte D, Maillard JY. (2018) **'Beware Biofilm! Dry biofilms containing bacterial pathogens on multiple healthcare surfaces; a multicentre study.'** *J Hosp Infect* **100**(3): e47-e56.
 64. De Kraker M, Harbarth S, Dancer SJ. (2018) **'Shining a light on Ultraviolet-C disinfection: no golden promises for infection prevention'**. *Am J Infect Control* **46**(12):1422-1423.
 65. Lee XJ, Fulford G, Dancer SJ, et al. (2017) **'Quantifying the relative effect of environmental contamination on surgical ward MRSA incidence: An exploratory analysis'**. *Infect Dis Health* **23**(3): 127-136.
 66. Reid M, Whatley V, Spooner E, Nevill A, Cooper M, Ramsden JJ, Dancer S.J. (2018) **'How do photocatalytic antimicrobial coatings affect**

- environmental bioburden in hospitals?’** *Infect Control Hosp Epidemiol* **39**(4):398-404.
67. Smith J, Adams CE, King M-F, Robertson C, Noakes C, Dancer SJ. (2018) **‘Is there a relationship between airborne and surface microbes in the critical care environment?’** *J Hosp Infect* **100**(3):e123-e129.
 68. Int Soc Chemother Working Group: **‘PVL-producing *Staphylococcus aureus* (MSSA and MRSA)’**. (2018) *Int J Antimicrob Agents* **51**(1):16-25.
 69. Muirhead E, Dancer SJ, King M-F, Graham I. **‘New technology for door handle design’**. (2018) Letter, *J Hosp Infect* **97**(4):433-434.
 70. Parsonage BC, Hagglund P, Keogh L, Mitchell C, Wheelhouse N, Brown R, Dancer SJ. (2017) **‘Control of antimicrobial resistance requires ethical consideration’**. Review, *Frontiers in Microbiology* **8**: 2124.
 71. Barwell ND, Devers M, Kennon B, Hopkinson H, McDougall C, Young M.J, Robertson H, Dancer SJ, Seaton RA, Leese G.P. (2017) **‘Diabetic Foot Infection Antibiotic Protocol’**. *Int J Clin Practice*. Sep 11. doi: 10.1111/ijcp.13006.
 72. Mitchell BG, Dancer SJ, Graves N, et al. (2017) **‘Variation in hospital cleaning practice and process’**. *Infect, Dis & Health* **22**(4): 195-202.
 73. Mitchell BG, Petrie D, Morton L, Dancer SJ. (2017) **‘What’s trending in infection control? A scoping and systematic review.’** *Infect Control Hosp Epidemiol* **38**(9): 1098-1102.
 74. Ramsden JJ, Reid M, Whatley V, Dancer S.J. (2016) **‘Disastrous performance of NanoCote/Aqua-Based antimicrobial paint in a hospital setting’**. *J Biolog Physics Chem* **16**(3): 131-136.
 75. Adams CE, Smith J, Robertson C, Watson V, Dancer SJ. (2017) **‘Examining the relationship between surface bioburden and frequently touched sites in Intensive Care’**. *J Hosp Infect* **95**(1):76-80.
 76. Dancer SJ. (2016) **‘Infection control; evidence-based common sense’**. *Infect, Dis & Health* **21**(4): 147-53.
 77. Dancer SJ. (2016) **‘Antibiotic prescribing: the consequences of getting it wrong’**. *Clinical Focus Primary Care* **10**(2): 62–71.
 78. Graham WJ, Morrison E, Dancer S, et al. (2016) **‘What are the threats from antimicrobial resistance for maternity units in low- and middle-income countries?’** *Global Health Action* **9**: 10.3402/gha.v9.33381. Available at: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5027331/pdf/GHA-9-33381.pdf>
 79. Dancer SJ, Christison F, Eslami A, Periasamy K, Miller R, Gregori A, Robertson C, Graves N. (2016) **‘Is it worth screening elective orthopaedic patients for carriage of *Staphylococcus aureus*?’** *BMJ Open* **6**(9): e011642.
 80. Dancer SJ. (2016) **‘Do’s and Don’ts for hospital cleaning.’** Invited review, *Current Opinion in Infectious Diseases* **29**(4): 415-23.
 81. Dancer SJ. (2016) **‘Role of Microbiology in management of critical care patients’**. Book chapter, **‘Critical Care and Laboratory medicine’**. Editors: Peter Gosling, Anne Sutcliffe & Stephanie Dancer.
 82. Mitchell BG, Shaban R, Dancer SJ, Cheng A, Gilbert L. (2016) **‘Infection, Disease & Health: a Journal for the future’**. *Infect, Dis & Health* **21**: 1-2.
 83. Hall L, Farrington A, Mitchell B, Barnett AG, Gardner A, Halton K, Allen M, Havers S, Bailey E, Page K, Dancer SJ, Riley TV, Gericke CA, Paterson

- D, Graves N. (2016) **‘Researching effective approaches to cleaning in hospitals (REACH): a randomised controlled stepped-wedge trial of an environmental cleaning bundle in 11 Australian hospitals’**. Research protocol, *Implementation Science* **11** : 44. doi: 10.1186/s13012-016-0406-6.
84. Dancer SJ. (2016) **‘Missing a Trick? Response to disinfectant wipes are appropriate to control microbial bioburden from surfaces’**. Letter, *J Hosp Infect* **92**(2): 208-9.
85. Mitchell BG, Dancer SJ, Anderson M, Dehn E. (2015) **‘Risk of organism acquisition and prior room occupancy: A systematic review and meta-analysis’**. *J Hosp Infect* **91**: 211-217.
86. Dancer SJ, Mallon J, Murphy R, Murch C. (2015) **‘Decontamination of transcutaneous oxygen sensor probes using electrolysed water’**. Original article, *Healthcare Infection* **20**: 141-4.
87. Dancer SJ, Varon-Lopez C, Moncayo O, Elston A, Humphreys H. (2015) **‘Centralisation of microbiology services: a step too far’**. Opinion review, *J Hosp Infect* **91**(4): 292-8.
88. Dancer S.J. (2015) **‘Response to Carling et al: Evaluating a new paradigm for comparing surface disinfection in clinical practice.’** Letter, *Infect Control & Hosp Epidemiol* **36**(7):849-50.
89. Dancer SJ. (2015) **‘Focusing on infection prevention to slow antimicrobial resistance rates’**. *BMJ* **350**: h1931. Available at: <http://www.bmj.com/content/bmj/350/bmj.h1931.full.pdf>
90. Dancer SJ. (2015) **‘Re: Speeding new antibiotics to market: a fake fix?’** BMJ Rapid Response. *BMJ* **350**: h1453. Available at: <http://www.bmj.com/content/350/bmj.h1453/rapid-responses>
91. Graham WJ, Dancer SJ, Gould IM, Stones W. (2015) **‘History repeats itself?’** Editorial, *Br J Obstet Gynaecol* **122**(2):156-9.
92. Dancer SJ, Duerden BI. (2014) **‘Current controversy: Changes to clinician attire have done more harm than good.’** Invited debate, *J Royal Coll Phys Edin* **44**(4): 293-8.
93. Stewart M, Bogusz A, Hunter J, Devanny I, Yip B, Reid D, Robertson C, Dancer SJ. (2014) **‘Microbiological effect of cleaning near-patient sites with electrolysed water’**. *Infect Control Hosp Epidemiol* **35**(12): 1505-10.
94. Al-Tawfiq JA, Momattin H, Al-Habboubi F, Dancer SJ. (2014) **‘Restrictive reporting of antimicrobial susceptibilities influences clinical prescribing’**. *J Infect Public Health* **8**(3): 234-41.
95. Maiwald M, Dancer SJ. (2014) **‘Chlorhexidine’s role in skin antisepsis: questioning the evidence’**. Letter, *The Lancet* **384** (9951): 1344-5.
96. Dancer SJ. (2014) **‘Controlling hospital-acquired infection: focus on the role of the environment and new technologies for decontamination’**. Commissioned review, *Clin Microbiol Reviews* **27**(4): 665-90.
97. Dancer SJ. (2014) **‘What constitutes effective infection control?’** Invited article, *The Consultant*, published Oct. 2014.
98. Dancer SJ. (2014) Editor for E-book, **‘Staphylococcus aureus & antibiotic resistance’**, Expert Review Future Science Group. Available at: <http://www.futuremedicine.com/doi/book/10.2217/9781780843698>
99. Dancer SJ. (2014) Chapter for E-book, ‘Ask-The-Expert: Expert Reviews, Future Science Group’. **‘Environmental cleaning: the effect of cleaning on MRSA transmission risk’**. Available from above.

100. Dancer SJ. (2014) **‘How should we clean our hospitals?’** Book chapter, in **‘Decontamination in hospitals and healthcare’**, Editor: J. Walker, Woodhead Publishing, Cambridge, UK.
101. Mitchell BG, Digney W, Locket P, Dancer SJ. (2014) **‘Controlling methicillin-resistant *Staphylococcus aureus* (MRSA) in a hospital and the role of hydrogen peroxide decontamination: an interrupted time series analysis’**. *BMJ Open* **4** (4): e004522.
102. Tacconelli E, Dancer SJ, & ESCMID Study Group. (2014) **‘Controlling multi-drug resistant Gram-negative bacilli in hospitals’**. International guidelines, *Clin Microbiol Infect* **20**: Suppl. 1:1-55.
103. Mitchell BG, Dancer SJ, Shaban RZ, Graves N. (2013) **‘Moving forward with hospital cleaning’**. *Am J Infect Control* **41**: 1138-1139.
104. Macduff C, Wood F, Hackett C, McGhee J, Loudon D, Macdonald A, Karcher AM, Dancer SJ. (2013) **‘Visualising the Invisible: applying an arts-based methodology to explore how healthcare workers envisage pathogens in the context of healthcare associated infections’**. *Arts & Health*. Available at: <http://www.tandfonline.com/doi/pdf/10.1080/17533015.2013.808255>.
105. Mitchell BG, Dancer SJ, Shaban R, Graves N. (2013) **‘Scholarly writing, peer review and quality papers for *Healthcare Infection*’**. Editorial, *Healthcare Infection* **18**: 131-132.
106. Petti S, Polimeni A, Dancer SJ. (2013) **‘Effect of disposable barriers, disinfection and cleaning on controlling MRSA environmental contamination’**. *Am J Infect Control* **41**: 836-840.
107. Petti S, Messano GA, Polimeni A, Dancer SJ. (2013) **‘Effect of cleaning and disinfection on naturally contaminated clinical contact surfaces’**. *Acta Stomatologica Naissi* **29**(67): 1265-72.
108. Harbarth S, Matthias, Dancer SJ. (2013) **‘The environment and healthcare-acquired infections: why accurate reporting of results and evaluation of biological plausibility are important’**. Letter, *Infect Control Hospital Epidemiol* **34**: 996-997.
109. Hobday RA, Dancer SJ. (2013) **‘Historical and current perspectives on the role of sunlight and natural ventilation for controlling infection’**. Review, *J Hosp Infect* **84**: 271-282.
110. Dancer SJ. (2013) **‘Floor Wars: The Battle for ‘Clean’ surfaces’**. Letter, *J Hosp Infect* **84**: 339-40.
111. Dancer SJ. (2013) **‘Put your ties back on: scruffy doctors damage our reputation and indicate a decline in hygiene’**. Opinion, *BMJ* **346**: 31.
112. Bogusz A, Stewart M, Hunter J, Yip B, Reid D, Robertson C, Dancer SJ. (2013) **‘How quickly do hospital surfaces become contaminated after detergent cleaning?’** *Healthcare Infection* **18**: 3-9.
113. Dancer SJ. (2013) **‘Infection control in the post-antibiotic era’**. *Healthcare Infection* **18**: 51-60.
114. Mitchell B, Wilson F, McGregor A, Dancer SJ. (2013) **‘Methods to evaluate environmental cleanliness in healthcare facilities’**. *Healthcare Infection* **18**: 23-30.
115. Dancer SJ, Kirkpatrick P, Corcoran DS, et al. (2012) **‘Approaching Zero: Temporal effects of a restrictive antibiotic policy on hospital-acquired *Clostridium difficile*, ESBL-producing coliforms and MRSA’**. *Int J Antimicrob Agents* **41**: 137-42.

116. Dancer SJ, Stewart M, Coulombe C, Viridi M, Gregori A. (2012) **‘Investigation of increased surgical site infections among Orthopaedic and Ophthalmology patients’**. *J Hosp Infect* **81**: 231-38.
117. Khan A, Dancer SJ, Humphreys H. (2012) **‘Priorities in the control of Extended-Spectrum β -Lactamases (ESBLs) in hospitals’**. *J Hosp Infect* **82**: 85-93.
118. Balm M, Jureen R, Teo C, Yeoh AEJ, Lin RTP, Dancer SJ, Fisher DA (2012) **‘Hot and steamy; fatal outbreak of *Bacillus cereus* in Singapore associated with construction work and laundry practices’**. *J Hosp Infect* **81**: 224-230.
119. Dancer SJ. (2012) **‘It’s not just about hand hygiene’**. Rapid response, *British Medical Journal*. Available at: <http://www.bmj.com/content/344/bmj.e3005/rr/588527>
120. Dancer SJ. (2012) **‘Hospital cleanliness: establishing a new science’**. Letter, *J Hosp Infect* **80**: 355.
121. Skov R, Christiansen K, Dancer SJ et al & ESCMID Study Group. (2012) **‘Management of CA-MRSA in the global community’**. *Int J Antimicrob Agents* **39**: 193-200.
122. Smith SJ, Young V, Robertson C, Dancer SJ. (2011) **‘Cross-transmission audit of environmental surfaces, clinical equipment and patient: who touches what?’** *J Hosp Infect* **80**: 206-11.
123. Dancer SJ (2012) **‘Infection control undercover: a patient experience’**. *J Hosp Infect* **80**: 189-91.
124. Meakin NS, Bowman C, Lewis M, Dancer SJ. (2011) **‘Cleaning efficacy between in-use disinfectant and electrolysed water in an English residential care home.’** *J Hosp Infect* **80**: 122-7.
125. National Institute for Clinical Excellence. **‘Prevention and control of healthcare-associated infections.’** November 2011. Available at: <http://www.nice.org.uk/guidance/PH36>
126. Mitchell B, MacGregor A, Brown S, Dancer SJ. (2012) **‘Monitoring environmental cleanliness in hospitals; policy proposal document.’** Tasmanian Prevention & Infection Control Committee. Available at: http://www.dhhs.tas.gov.au/_data/assets/pdf_file/0006/92481/TIPCU_Environmental_Hygiene_Assessment_Report_2012.pdf
127. Dancer SJ. (2012) **‘The role of hospital cleaning in controlling infection’**. *International Hospital*, January 2012.
128. Dancer SJ & Seaton RA. (2012) **‘Problem Solving in Infection’**. Book. Editor and contributor (three chapters). **(Highly Commended, 2012 BMA Medical Book Awards: Public health category)**
129. Findlay J, Hamouda A, Dancer SJ, Amyes S. (2011) **‘Rapid acquisition of decreased carbapenem susceptibility in a strain of *Klebs. pneumoniae* arising during meropenem therapy’**. *Clin Micro Infect* **18**: 140-6.
130. Dancer SJ, Humphreys H, Carling P. (2011) **‘Disinfection is not the same as cleaning’**. Letter, *Critical Care Medicine* **39**: 1853-4.
131. Dancer SJ. (2011) **‘Hospital Cleaning in the 21st Century’**. Review, *Euro J Clin Microbiol Infect Dis* **30**: 1473-81.
132. Wylie G, Bilsland D, Dancer SJ. (2011) **‘Effect of withdrawing topical fusidic acid resistance on *Staphylococcus aureus* resistance rates.’** *Scottish Medical Journal* **56**: 10-11.

133. Dancer SJ. (2011) **'Making hospital water safe, examined'**. *Health Estate Journal*, Jan. At: www.healthestatejournal.com/Story.aspx?Story=7700
134. Dancer SJ. (2011) **'A Clean Bill of Health'**. *Pub Serv Rev* **26**: 40-42.
135. Anderson RE, Young V, Stewart M, Robertson C, Dancer SJ. (2011) **'Cleanliness audit of clinical surfaces and equipment: Who cleans what?'** *J Hosp Infect* **78**: 178-81.
136. Mulvey D, Redding P, Robertson C, Woodall C, Kingsmore P, Bedwell D, Dancer SJ. (2011) **'Finding a benchmark for monitoring hospital cleanliness'**. *J Hosp Infect* **77**: 25-30.
137. Dancer SJ. (2010) **'Pants, policies and paranoia'**. *J Hosp Infect* **74**: 10-15.
138. Dancer SJ. (2010) **'Control of transmission of infection in hospitals requires more than clean hands'**. Invited Leader, *Infect Control Hosp Epidemiol* **31**: 958-60.
139. Dancer SJ & Carling PC. (2010) **'All that glistens may be neither gold nor clean'**. *J Hosp Infect* **76**:177-178.
140. Lopez-Alcalde J, Dancer SJ, Martí-Carvajal AJ, Conterno LO, Guevara-Eslava M, Mateos-Mazón M, Gracia J, Solà I. (2010) **'Decontamination of environmental surfaces in hospitals to reduce hospital acquired infections (Protocol)'**. The Cochrane Collaboration. *Cochrane Library*: Issue 9. John Wiley & Sons, Ltd.
141. Dancer SJ. (2010) **'Why cleaning is important for healthcare'**. ISSA website. Available at: <http://www.issa.com/?m=articles&event=view&id=3469&page=1&category=106>
142. Dettenkofer M, Dancer SJ, *et al.* (2010) **'Infection Control - a European Research Perspective for the Next Decade'**. Report from Freiburg symposium, Germany. *J Hosp Infect* **77**: 7-10.
143. Griffith CJ & Dancer SJ. (2009) **'Hospital cleaning: problems with steam cleaning and microfibre'**. Letter, *J Hosp Infect* **72**: 360-1.
144. Sweeney CP & Dancer SJ. (2009) **'Can hospital computers be disinfected using a hand-held UV light source?'** Letter, *J Hosp Infect* **72**: 92-4.
145. Dancer SJ, White L, Lamb J, Girvan EK, Robertson C. (2009) **'Measuring the effect of enhanced cleaning in a UK hospital: a prospective cross-over study'**. *BMC Medicine* **7**: 28.
146. Dancer SJ (2009) **'The role of hospital cleaning in the control of hospital-acquired infection'**. Review, *J Hosp Infect* **73**: 378-85.
147. White L, Dancer SJ, Robertson C, MacDonald J (2008) **'Are hygiene standards useful in assessing infection risk?'** *Am J Infect Contr* **36**:381-4.
148. Dancer SJ (2008) **'The effects of antibiotics on MRSA'**. Review, *J Antimicrob Chemother* **61**: 246-253.
149. Dancer SJ, White L, Robertson C (2008) **'Monitoring environmental cleanliness on two surgical wards'**. *Int J Environ Health Research* **18**: 357-364.
150. Dancer SJ. (2008). **'Back to cleaning'**. *BMJ* rapid response. Available at: www.bmj.com

151. Dancer SJ. (2008). 'Norovirus – an established viral plague. What is it, how does it spread and what can we do to protect ourselves?' *J R Coll Phys Edinburgh* **38**: 314-6. (www.behindthemedicalheadlines.com/articles/)
152. Dancer SJ, Coyne MJ, Morrison D, Speekenbrink A (2008) 'Problems with real-time PCR for MRSA; why culture is still required'. ECCMID Barcelona; *Clin Microbiol Infect Dis* Abstract Suppl. P1966.
153. Dancer SJ. (2008). 'Considering the effect of universal MRSA screening' *J Hosp Infect* **69**: 315-20.
154. Hamouda A, Vali L, Alsultan A, Dancer SJ, Amyes SG. (2008). 'First report of ciprofloxacin resistance among clinical isolates of *Klebsiella pneumoniae* harbouring the *qnrA* gene and producing SHV-5 extended-spectrum β -lactamase in Scotland'. *J Chemother* **20**: 753-5.
155. Dancer SJ. (2008) 'Surveillance gets bigger and better'. *J Hosp Infect* **69**:203.
156. Dancer SJ. (2008) 'Invest to beat the bugs'. *BMA News*, Sept 27th, page 8.
157. Dancer SJ. (2008) 'Keeping watch over the Staphylococcus'. Editorial, *J Hosp Infect* **70**: 297.
158. Dancer SJ (2008). 'Importance of the environment in MRSA acquisition: the case for hospital cleaning'. *Lancet Infectious Diseases* **8**: 101-113.
159. Dancer SJ (2007) 'Consequences of antimicrobial chemotherapy: overgrowth, resistance and virulence', book chapter, 'Antibiotic Policies: Fighting Resistance', Springer US.
160. Dancer SJ (2007) 'Attention prescribers! Be careful with antibiotics'. Invited comment, *The Lancet*, 9th February.
161. Dancer SJ (2007) 'The trouble with medical journals'. Book review, *J Hosp Infect* **66**: 98-99.
162. White L, Dancer SJ, Robertson C (2007) 'A microbiological evaluation of hospital cleaning methods'. *Int J Environ Health Res* **17**: 285-95.
163. Beal S, Dancer SJ, Hunter C (2007) 'Prevalence of Group B streptococci in a semi rural community in the West of Scotland'. *Journal of Obstetrics and Gynaecology* **27**: 615-6.
164. Dancer SJ, Simmons NA (2006). Authors' Reply: MRSA behind bars?' letter, *J Hosp Infect* **62**: 261-3.
165. Baird D, et al. (2006). 'MRSA – Good Practice Guidelines', national working group guidance on MRSA control, Royal College of Physicians of Edinburgh website (www.rcpe.ac.uk)
166. Nathwani D, on behalf of Scottish Medicines SEHD HAI Task Force (2006). 'Antimicrobial prescribing policy & practice in Scotland: recommendations for good antimicrobial practice in acute hospitals.' *J Antimicrob Chem* **57**:1189-96.
167. Dancer SJ (2006) 'Editorial: Advertising in the Journal'. Accepted, *Journal of Hospital Infection*, removed by Elsevier (publishers)!!!
168. Coyne MJ, Dancer SJ, Morrison D, Clarke S, Edwards G. (2006) 'Scottish Participation in a European Antimicrobial Resistance Surveillance System: First Complete Report'. Health Protection Scotland.
169. Dancer SJ, Coyne M, Robertson C, Thomson A, Guleri A, Alcock S (2006) 'Environmental organisms from hospital wards with differing antibiotic exposure'. *Journal of Hospital Infection* **62**: 200-6.
170. Dancer SJ, Coyne M, Samavedam S, Kennedy J, Wallace P (2006) 'MRSA acquisition in an Intensive Care Unit'. *Am J Infect Control* **34**: 10-17.

171. Beal S, Dancer SJ (2006) '**Prevention of neonatal Group B Streptococcal Infection**', *Reviews in Gynaecological and Perinatal Practice* **6**: 218-225.
172. Dancer SJ, Simmons NA (2006) '**MRSA behind bars?**' Invited editorial, *Journal of Hospital Infection* **62**: 261-3.
173. Dancer SJ (2006) '**Mopping Up MRSA**', invited chapter for book on MRSA, edited by I. Gould. *In Practice* series, Royal Soc Med Press Ltd.
174. Carey B, Dancer SJ (2006) '**Reversing meticillin resistance in MRSA using a Bacterial Transforming Agent**', *J Antimicrob Chemother* **58**: 455-7.
175. Davenport LA & BSAC Working Party (2005) '**An outcome-based approach for teaching prudent antimicrobial prescribing to undergraduate medical students: report of a BSAC Working Party**'. *J Antimicrob Chemother* **56**: 196-203.
176. Dancer SJ (2005) Letter, '**MRSA – The Storm Clouds Gather**'. *J Hosp Infect* **61**: 265-7.
177. Dancer SJ, Coyne M (2005) '**An Intensive Care Unit under the Microscope**', Invited review, *Care of the Critically Ill*; **21**: 139-44.
178. Dancer SJ (2005) Letter, '**No magic bullet for MRSA**'. *Journal of Hospital Infection* **59**: 263-6.
179. Dancer SJ (2004) '**How do we assess hospital cleaning? A proposal for microbiological standards for surface hygiene in hospitals**'. *J Hosp Infect* **56**:10-15.
180. Dancer SJ (2004) '**How antibiotics can make us sick.**' Review of lesser-known adverse effects of antibiotics; *Lancet Infect Dis* **4**: 611-9.
181. Dancer SJ (2004) '**Conference Report: Extended-Spectrum β -lactamases: Are We Prepared to Face the Threat?**' Contributor & editor, Conference Proceedings, Glasgow, SCIEH *Weekly Report Supplement*.
182. Dancer SJ (2004) '**The Real Cost of MRSA**'. Chapter 16, in *Antimicrobial Prescribing - Theory and Practice*. Eds. Van der Meer J, Gould I. Kluwer Press, New York.
183. Dancer SJ (2003) Letter, '**Inappropriate antimicrobial prescribing**'. Rapid response, *British Medical Journal*; www.bmj.com; 24th Dec, 2003.
184. Dancer SJ (2003) Letter, '**Glycopeptide-resistance in *Staphylococcus aureus***'. *Journal of Antimicrobial Chemotherapy* **51**:1309-11.
185. Vassalos A, Mc Arthur K, Dancer SJ (2003) '**Polymerase chain reaction diagnosis in culture negative prosthetic valve methicillin-resistant *Staphylococcus aureus* endocarditis in a patient with chronic liver disease**'. *Interactive Cardiovascular & Thoracic Surgery* **3**: 240-2.
186. Dancer SJ (2003) Letter, '**The dangers of broad spectrum antibiotics**'. Rapid response, *British Medical Journal*; www.bmj.com; 27th May, 2003.
187. Nathwani D, et al. (2003). '**Good Practice Guidance for Antibiotic Prescribing in Hospital**', national working group guidance, *J Royal College Phys Edinburgh*; **33**: 281-4.
188. Dancer SJ, Robb A, Crawford A, Morrison D (2003) '**Oral streptogramins in the management of patients with MRSA infections.**' *J Antimicrob Chemother* **51**: 731-5.
189. Dancer SJ (2003) '**MRSA – Can Scotland win?**' Editor and contributor, Conference Proceedings, Supplement SCIEH *Weekly Report*, 25th March No. 2003/12.
190. Dancer S J, McNair D, Finn P and Kolsto AB (2002) '***Bacillus cereus* cellulitis from contaminated heroin**'. *J Medical Microbiology* **51**: 278-81.

191. Dancer SJ, Raeside J and Boothman M (2002) '**Environmental organisms from different hospital wards**'. *Brit J Infect Control* **3**(4): 2-6.
192. Dancer SJ (2002) '**Hospital-acquired infection: Is cleaning the answer?**' Invited review, *CPD Infection* **3**(2): 40-46.
193. Dancer SJ (2002) '**Hand-washing deterrents: why staff might not wash their hands**'. 'Filler', *J Hosp Infect* **52**: 76.
194. Dancer SJ (2002) '**Glycopeptide Intermediate *Staphylococcus aureus***'. *Eurosurveillance Weekly* **51**; 19th December.
195. Dancer SJ (2001) '**(No) Control of MRSA?**' *J Hosp Infect* **47**:72-73.
196. Dancer SJ (2001) '**The Problem with Cephalosporins**'. Review, *J Antimicrob Chemother* **48**: 463-78.
197. Gardner D and Tweedle D (2000). Book, '**Pathology for Surgeons in Training**'. Revised and edited relevant microbiology, 3rd edition.
198. Dancer SJ (1999) '**Swinging back the MRSA pendulum**'. *J Hosp Infect* **42**: 69-71.
199. Dancer SJ and Crawford A (1999) '**Keeping MRSA out of a District General Hospital**'. *J Hosp Infect* **43** (Suppl.): S19-27.
200. Dancer SJ (1999) '**Mopping up Hospital Infection**'. *Journal of Hospital Infection* **43**: 85-100.
201. Dancer SJ (1997) '**MRSA in the community: Who is responsible?** *SCIEH Weekly Report* **31** (No. 97/01): 2 - 4.
202. Dancer SJ (1997) '**Bacteria from the Pre-Antibiotic Era- Characterisation of Arctic Coliforms**'. Final Report JSE Blue Mountains, Ellesmere Island, High Arctic Canada. Ed. R. F. Smith. Military Survey, Middlesex, U.K. Pages 85 - 96.
203. Dancer SJ (1997) '**From the Tropics to the Tundra; experiences of a travelling microbiologist**'. *PHLS Microbiol Digest* **14** (No. 1): 11- 17.
204. Dancer SJ, Shears P and Platt DJ (1997) '**Isolation and characterisation of coliform bacteria from water and glacial ice in Canada's High Arctic**'. *J Appl Bacteriol* **82**: 597-609.
205. Dancer S J (1997) '**Comment on Food Standards Agency Proposal**'. *SCIEH Weekly Report* **31** (No. 97/25): 128-131.
206. Dancer SJ (1996) '**Guidelines for prevention of infection in hyposplenic patients**'. *Prescrib Bull* No **41**: 1996, Argyll & Clyde Health Board.
207. Dancer SJ and Crawford A (1996) Letter, '**Creative Infection Control: Raising awareness of infection control policies**'. *J Hosp Infect* **34**: 73 - 4.
208. Gardner D and Tweedle D (1996) Book, '**Pathology for Surgeons in Training**'. Revised and edited relevant microbiology for the second edition.
209. Dancer SJ (1994) '**Danger off the Mountain**'. A review of potential infection transmission for persons resuscitating mountain casualties. *CasBag - Journal for mountain rescue personnel*. No.**10**, May 1994.
210. Dancer SJ (1992) '**A Hospital Outbreak of Bacillus**'. MSc Thesis, University of London.
211. Dancer SJ and Noble WC (1991) '**Nasal, axillary and perineal carriage of *Staphylococcus aureus* among antenatal women**'. *Journal of Clinical Pathology* **44**: 681-684.
212. Dancer SJ, Garrett R, Saldana J, Jhoti H and Evans R (1990) '**The epidermolytic toxins are serine proteases**'. *FEBS Letts.* **268**: 129-32.

213. Dancer SJ, Ogwang W and Evans RW (1991) '**Purification of epidermolytic toxins A and B by Ion-Exchange Chromatography**'. Chapter IV, MD. Thesis, University of London.
214. Dancer SJ, Simmons NA, East J, Poston SM and Noble WC (1990) '**An outbreak of pemphigus neonatorum**'. *Journal of Infection* **20**: 73-82.
215. Hatfield PR, Dancer SJ and Mims CA (1990) '**Epidermolytic toxin as a T-cell mitogen**'. (unpublished)
216. Dancer SJ, Simmons NA, Poston SM and Noble WC (1988) '**Outbreak of the Staphylococcal Scalded Skin Syndrome amongst neonates**'. *J Infect* **16**: 87-103.

Conference Posters (1998-2024)

- 17 Sept 1998: Dancer SJ. '**To centralise or not to centralise: the problems with off-site microbiology**'. Hosp Infect Soc, Edinburgh.
- 28 Nov 2001: Dancer SJ, Raeside J, Boothman, M. '**Environmental organisms from clinical units of differing antibiotic exposure in a hospital**'. Fed Infect Soc, Manchester.
- 18 Sept 2002: Dancer S J, Robb A, Crawford A, Morrison D. '**Managing methicillin-resistant *Staphylococcus aureus* in debilitated patients**'. Hosp Infect Soc, Edinburgh.
- May 2003: Robb AR, Morrison D, Dancer SJ, Gemmell C. '**Antibiotic susceptibilities and strain typing of animal staphylococci**'. 13th ECCMID, Glasgow.
- Nov. 2003: Coyne MJ, Dancer SJ, *et al.* '**Scottish participation in a European Surveillance initiative**', HAI conference, Stirling.
- Nov. 2003: Coyne MJ, Dancer SJ, Gould IM, MacKenzie FM, Noone A. '**Antimicrobial Resistance Surveillance in Scotland**'. National HAI Conference, Stirling.
- March 2004: Coyne MJ, Dancer SJ. '**A new technique for the diagnostic microbiology lab**'. ACM Conference, Edinburgh.
- May 2004: Dancer SJ, Coyne MJ, Thomson A, Guleri A, Alcock S. '**Environmental organisms from three different wards in a teaching hospital**' & Dancer SJ, Coyne MJ, Speekenbrink A, et al. '**MRSA acquisition in an Intensive Care Unit**'. ECCMID, Prague.
- Nov 2004: Coyne MJ, Dancer SJ, Gould I, McKenzie F, Morrison D, Edwards G. '**Surveillance of Multiply Resistant organisms in Scotland**'. SSHAIP National Conference.
- Dec 2006: Hamouda A, Vali L, Walker D, Mateus, Dave J, Gibb AP, Dancer SJ & Amyes SGB. '**Comparison of *A. baumannii* from human &**

- animal isolates by PFGE in Scotland**', and Hamouda A, Vali L, Dancer SJ, Amyes SGB. **'First detection of the qnr gene in *Klebsiella pneumoniae* isolated in Scotland'**. ICAAC, USA.
- March 2007: White L, Dancer SJ, Robertson C. **'Where is MRSA in an ITU and does it matter?'** ECCMID, Munich.
- April 2008: Hamouda A, Vali L, Walker D, Mateus A, Dave J, Gibb AP, Dancer SJ, Amyes S. **'Antibiotic resistance in *Ps. aeruginosa* from food- producing animals: Is it a threat for HAI?'**, and Coyne MJ, Dancer SJ, Speekenbrink A, Morrison D. **'Problems with MRSA PCR'**. ECCMID, Barcelona, Spain.
- Jan 2009: Wylie G, Bilsland D, Dancer SJ. (2009) **'Fusidic acid resistance in *Staphylococcus aureus* from dermatology patients.'** Edinburgh, Br Soc Derm conference.
- May 2009: Dancer SJ, L. White, J. Lamb, E. Girvan, C. Robertson. **'Measuring the effect of enhanced cleaning in a UK hospital'**, & Hamouda A, Dancer SJ, Amyes SG, et al **'Failure of meropenem therapy for MDR *K. pneumoniae* UTI'**. ECCMID, Helsinki.
- May 2009: Kirkpatrick P, Dancer SJ. **'Enhanced surveillance for *Clostridium difficile*'**. Health Protection Scotland conference.
- August 2009: Crawford K, Dancer SJ. **'A microbiological evaluation of name badges'**. Nuffield TechFest, Scotland.
- Sept 2010: Findlay J, Hamouda A, Dancer SJ, Amyes S. **'Carbapenem resistance emerging in a strain of *Klebsiella pneumoniae* treated with meropenem'**. ICAAC, Boston, USA.
- Sept 2010: Robb A, Gemmell CG, Dancer S, Morrison D. **'Characterising *Staphylococcus aureus* from livestock, Companion and wild animals in Scotland and Northern Ireland: a review of current methods'**. ISSSI, Bath, UK.
- Oct 2010: Anderson RE, Young V, Stewart M, Robertson C, Dancer SJ. **'Cleanliness audit of clinical equipment: Who cleans what?'** & Mulvey D, Redding P, Robertson C, Dancer SJ. **'Finding a benchmark for monitoring hospital cleanliness'**. Hosp Infect Soc Int. Conference, Liverpool.
- May 2011: Smith SJ, Young V, Robertson C, Dancer SJ. **'Cross-transmission audit: Who touches What?'** ECCMID, Milan 2011.
- April 2012: Tacconelli E, Dancer SJ, et al. **'Control methods for multi-drug resistant Gram neg bacilli'**. ESCMID group, ECCMID.
- July 2012: Kerr F, Dancer SJ, Laughlan G, Dundas S, et al. **'Oral fosfomycin used as a carbapenem sparing strategy**

for management of UTI due to MDR Enterobacteriaceae’.
ESCAIDE conference, Edinburgh.

- April 2013-14: Bogusz A, Stewart M, Hunter J, Yip B, Reid D, Dancer SJ. **‘Effect of detergent-based cleaning at high-risk sites on an acute ward’.** ECCMID, Berlin; Br.Geriatric Soc Annual Meeting & NHS Scotland conference, Glasgow, June 2014.
- Sept 2013: Boytha S, Viridi M, Dancer SJ. **‘Audit of Endophthalmitis cases, Hairmyres hospital’.** Ophthalmology meeting, Scotland.
- Dec 2013: Hunter P, Christison F, McLaren J, McCandless K, McCormick S, Inverarity D, Dancer SJ. **‘Use of pivmecillinam for treating urinary tract infection caused by MDR enterobacteriaceae’.** NHSL R&D conference; ECCMID, 2014.
- May 2014: Stewart M, Bogusz A, Hunter J, Devanny I, Yip B, Reid D, Robertson C, Dancer SJ. **‘Effect of disinfectant-based cleaning at high-risk sites on an acute ward’.** ECCMID 2014 (Barcelona) and NHS Lanarkshire R&D conference (Bothwell).
- March 2015: Dancer SJ, Christison F, Eslami A, Perisamy K, et al. **‘Is it worth screening elective orthopaedic patients for carriage of *Staphylococcus aureus*?’** NHS Lanarkshire R&D conference.
- June 2015: Macdonald A, McDuff C, Loudon D, Wan S, Wares K, Dancer SJ. **‘Design and evaluation of a dynamic visualisation tool for use in staff training for the prevention of HAI’.** Champions Challenged conference, Aberdeen.
- July 2016: Smith J, Adams C, Robertson C, Watson V, Dancer SJ. **‘Examining the relationship between surface bioburden and frequently touched sites in Intensive Care’.** NHS Scotland conference, Glasgow & Scottish Anaesthesia conference.
- April 2017: Vickery K, Aljohani K, Costa D, Dancer SJ, Melo D, Lopes LK, Tipple A, Deva A, Gosbell I, Jensen S, Whiteley G, Hu H. **‘Multi-drug resistant organisms (MDRO) within biofilms on dry hospital surfaces: is this worldwide?’** SHEA Spring 2017 Conference, Portland, Oregon, USA.
- Sept 2017: Vickery K, Aljohani K, Costa D, Dancer SJ, Melo D, Gosbell I, Jensen S, Hu H, Lopes LK, Whiteley GS, Glasbey TO, Lima L, Deva A, Tipple A. **‘Hospital surface biofilms promote antibiotic resistant organisms’.** *Eurobiofilms*, Amsterdam, The Netherlands.
- Oct 2017: Mitchell BG, Dancer SJ, Morton L. **‘What’s trending in Infection Control?’**, Australian infection control conference.
- April 2018: Smith J, Adams CE, King M-F, Robertson C, Noakes C, Dancer SJ.

‘Is there a relationship between airborne and surface microbes in the critical care environment?’ ECCMID, Madrid, Spain.

- Nov 2018: Dancer SJ, McNally L, McLaren J, McGill G, Fletcher L, Noakes C, Sharpe T. **‘The microbiome of the human home’** & Hiwar W, King M-F, Fletcher L, Dancer SJ & Noakes C. **‘The relationship between air and surface microorganisms in hospital wards: a systematic review’**. HIS Conference, Liverpool, UK.
- March 2019: Mitchell B, Dancer SJ, et al. **‘REACH (hospital cleaning)’** poster. Australian Conference for Infection Control, Best poster award.
- April 2019: **‘European Study Group for Nosocomial Infections’** (ESGNI) mission poster, ECCMID 2019.
- Sept 2019: Three posters at ICPIIC, Geneva, Switzerland (D.N.A. – ill).
- Sept 2021: Ledwoch K, Dancer SJ, Otter JA, Kerr K, Roposte D, Maillard J-Y. **‘Pathogens from dry surface biofilms (DSB) still transfer from hospital keyboards despite the use of sodium hypochlorite 1,000 ppm wipe.’** Poster at IPC, Liverpool.
- Sept 2021: Gon G, Dansero L, Aiken A, Dancer S, et al. **‘EWASH trial: a cross-over cluster randomised trial comparing electrolysed water with bleach for hospital cleaning in Nigeria’**. Poster, conference, Africa.
- Sept 2023: Kramer A, Dancer SJ, et al. **‘Factors influencing the survival of pathogens in the hospital: basement for the assessment of the nosocomial infection risk’**. Poster, ICPIIC, Geneva, Switzerland.
- April 2024: Aumeran C, Hamilton L, Jamieson L, Lee E, Dancer SJ. **‘Establishing the living microbiome of the healthcare toilet’**. E-poster + oral presentation, ECCMID, Barcelona, Spain.

Invited speaker (forthcoming conferences):

- April 2024: ‘How to clean the occupied bed-space’, ECCMID, Barcelona, Spain.
- June 2024: ‘Environmental impact of disinfectants’, ESGNI course,
- June 2024: ‘Pathogen Transmission in the Healthcare Environment’, UVC conference, St Andrew’s, Scotland.
- August 2024: Three lectures: ‘The future of healthcare cleaning’, ‘Examining the toilet microbiome’ and ‘Establishing clean air standards in healthcare facilities’, New Zealand & Australia.
- Oct 2024: Lecture, Croatian IPC conference, Zagreb.

Invited International Presentations (1988-2024)

- = Editing posts ❁ = Published abstract
- ❁ 16th Nov 1988: “Staphylococcal Scalded Skin Syndrome”
Int. Hosp Infect Society conference, London.
- ❁ 1-19 Nov 1989: “An Outbreak of Pemphigus neonatorum”. 1st World
Congress, Infections in Obstetrics & Gynaecology, USA.
- 2-5th May 1990: Assistant Editor, Congress Bulletin, for 1st International
Conference for the Prevention of Infection in Nice, France.
- ❁ 11th July 1990: “Studies on the structure of epidermolytic toxin”
Pathological Society of Great Britain, UK.
- ❁ 6th Sept. 1990: “Epidermolytic toxin-producing *S.aureus* in the Community”
Int. Hosp Infect Society conference, London.
- 6th Sept. 1990: Sub-editor for ‘Conference Monitor’
Int. Hosp Infect Society conference, London.
- 30th Nov. 1994: Editor for A.M.M. Conference, “Clinical Microbiology:
Challenges and Opportunities”, London.
- ❁ 15th May 1996: “Coliforms from the pre-antibiotic era.”
Oral presentation at ECCMID, Glasgow.
- ❁ 17th Sept. 1998: “Keeping MRSA out of a District General Hospital”
Int. Hosp Infect Society conference, Edinburgh.
- ❁ 1-3rd Dec. 1999: “Oral streptogramins in the management of patients with
MRSA infections”. FIS Conference, Manchester.
- ❁ 28th Nov 2001: ‘Linking environmental organisms with
antimicrobial consumption’, FIS, Manchester.
- Sept 4th 2003: ‘Standards for Hospital Cleaning’. Dept of Health, London.
- ❁ March 2004: ‘Interventions to control MRSA’. International Teleclass.
- ❁ May 2004: ‘Floor Wars: Defence against Dark Corners’.
Royal Institute of Public Health, London.
- ❁ June 21st 2004: ‘What’s under your bed?! Infection Control and ESBLs’.
Organised and spoke at symposium on ESBLs, Glasgow.
- ❁ Dec. 1st-3rd 2004: ‘The Socioeconomic Cost of MRSA’.
ECC & RICAI conference, Paris, France.
- ❁ Sept 2005: ‘Floor Wars: Defence against Dark Corners’. Royal
Institute of Public Health, London.
- ❁ Oct 2005: ‘Mopping Up MRSA’. ECC, Florence, Italy.
- ❁ Jan 2006: ‘Floor Wars: Defence against Dark Corners’.
Infection Control conference, Isle of Man.
- ❁ Oct 2006: ‘Getting it wrong for MRSA: consequences of
inappropriate therapy’. ECC, Budapest, Hungary.
- ❁ Mar/Apr 2007: ‘If the question concerns MRSA, the solution contains
detergent’. ECCMID, Germany
- ❁ May 2007: ‘Would more cleaning reduce MRSA acquisition in
hospitals?’ Public Services International, WHO, Geneva.
- ❁ June 2008; ‘Floor Wars: Defence against Dark Corners’
Cleaning Research Institute, Washington DC, USA.
- ❁ Dec 2008: ‘The role of the environment in infection control’
Lancet Infectious Diseases Conference, London.
- June 2009: ‘Role of the environment in HAI’

- European Infection Control symposium, Switzerland.
- ❁ Oct 2009: 'Hospital cleaning in the control of HAI'
Dept. of Health, Westminster, London.
 - Nov 2009: 'How to review an article for an infection journal'.
FIS conference, Birmingham.
 - Jan 2010: 'Hospital cleaning for controlling HAI', Porton Down, UK.
 - ❁ Feb 2010: 'Hospital cleaning in the control of HAI'.
First HAI conference, Belfast, Northern Ireland.
 - ❁ March 2010: Presentation 'Temporal effects of a restrictive antibiotic policy
on hospital-acquired *C. difficile*, MRSA and ESBLs'.
ECCMID, Vienna, Austria.
 - ❁ April 2010: 'Why cleaning is important for healthcare'.
ISSA conference, Amsterdam, The Netherlands.
 - ❁ April 2010: 'Hospital cleaning in the control of MRSA'
Infection Control Symposium, Copenhagen, Denmark.
 - ❁ Sept 2010: Hospital cleaning in the 21st Century'. ICAAC, Boston, USA.
 - ❁ Oct 2010: 'What is best for HAI control: Hand hygiene or cleaning?'
'How to write a paper for JHI'; 'Outbreak of surgical site
infection'. International HIS conference, Liverpool.
 - ❁ Oct 2010: 'Pants, policies and paranoia'. IC symposium, Norway.
 - Feb 2011: 'Controlling MRSA in the ITU'.
National conference, Dublin, Republic of Ireland.
 - March 2011: 'Should we screen Healthcare Workers for CA-MRSA?'
Seminar, ESCMID, Florence, Italy.
 - July 2011: 'Hospital Cleaning in the 21st century', two presentations,
1st Infection Control & Prevention Conference, Geneva.
 - ❁ Sept 2011: Keynote lectures, Australian Infection control, Hobart.
 - ❁ Oct 2011: Lectures: Hospital hygiene & Antimicrobial stewardship.
Singapore University & General Hospitals.
 - ❁ Nov 2011: International Teleclass, Healthcare Decontamination.
 - Nov 2011: ESCMID workshop, MDR-GNRs, Rome, Italy.
 - ❁ March 2012: Keynote speaker, Infection control conference,
Finnish Society for Infection Control, Helsinki.
 - ❁ May 2012: Keynote speaker, Italian National Microbiology &
Infection Conference, Pisa, Italy.
 - Sept 2012: National Infection Control Conference, Gothenburg, Sweden.
 - ❁ Nov 2012: Keynote speaker, Brazilian Infection Conference, Sao Paulo.
 - ❁ Nov 2012: Hosp Infect Soc International conference, Liverpool, UK
 - ❁ Feb 2013: International workshop, HAI, WHO, Geneva, Switzerland.
 - ❁ Mar 2013: Infection control conference, Edinburgh.
 - ❁ April 2013: Meet-the-Expert & two presentations, ECCMID, Berlin.
 - ❁ May 2013: Keynote plenary lecture, SHEA, Atlanta, USA.
 - ❁ Sept 2013: Two key note lectures & international teleclass:
Australasian College of Prevention & Infection Control
annual conference, Brisbane, Australia.
 - ❁ Nov 2013: 'Outbreak of surgical site infections'. World Sterilization
conference, Antalya, Turkey.
 - Jan 2014: West of Scotland Urology study day, Lanarkshire.
 - March 2014: Holyrood Infection Control Conference, Edinburgh.
'Visualising The Invisible'.

April 2014: Assoc. Clin. Microbiol. conference, Sheffield, UK
 May 2014: NICE conference, Birmingham, UK; AMR debate.
 May 2014: HOPE conference, Amsterdam, Netherlands. ‘Role of cleaning in controlling hospital-acquired infection’.
 ☼Sept 2014: The ‘**Graham Ayliffe**’ lecture, IPS conference, Glasgow, UK
 Sept 2014: Workshop, Hospital cleaning, Bart’s NHS Trust, London
 Nov. 2014 Irish Decontamination Annual Conference, Dublin, Ireland.
 Nov. 2014 Holyrood Vascular Access conference, Glasgow.
 Jan 2015: ‘Visualising The Invisible’, Cardiff University, Wales.
 ☼April 2015: ‘The Year in Infection Control’, ECCMID, Denmark.
 ☼June 2015: ‘The ABC of Hospital Cleaning’, ICPIC, Geneva.
 ☼Sept 2015: ‘Role of cleaning in the control of HAI’, ICAAC, USA.
 Oct 2015: ‘Infection control in the 21st Century’, Oxford HI Group.
 ☼Feb 2016: RCP Australia annual conference, Melbourne: 4 lectures on infection control, cleaning and antimicrobial stewardship.
 May 2016: Decontamination workshop, Health Protection Scotland
 May 2016: Urology conference, RCPSG, Glasgow.
 ☼Sept 2016: Vision On workshop, Glasgow, Scotland.
 ☼Dec 2016: NHS Lanarkshire R&D Conference, Bothwell.
 Jan 2017: Post-grad seminar, Trinity College, Dublin, Ireland.
 ☼March 2017: Seminar, London School of Hygiene & Tropical Medicine, UK.
 April 2017: ECCMID, Vienna (Chair, Education in Infection Control).
 ☼May 2017: Keynote: Belgian Infection Society, Brussels, Belgium.
 June 2017: ‘Don’t Panic!’ national conference, Sheffield, UK.
 Sept 2017: Infection control conference, Trondheim, Norway.
 Oct 2017: Infection control Conference, Wolverhampton, UK
 Oct 2017: Danish Infection Society, Copenhagen, Denmark.
 Oct 2017: Infection control conference, Wolverhampton, UK.
 ☼Nov 2017: World Sterilisation Congress, Antalya, Turkey.
 Feb 2018: Infection Control conference, London.
 ☼April 2018: ECCMID, Madrid, Spain.
 April 2017: Infection Control Conference, Dublin, Ireland.
 May 2018: British Society for Microbial Technology, UK.
 May 2018: Italian Infection Control conference, Bergamo, Italy.
 Oct 2018: Infection control conference, Wolverhampton, UK.
 Oct 2018: Scottish Microbiology Association, Stirling, UK
 Nov 2018: National Infect Control conference, Copenhagen, Denmark
 Nov 2018: Federation of Infection Societies, Liverpool, UK
 April 2019: Two presentations at ECCMID, Amsterdam, Netherlands.
Summer 2019: Missed due to illness (Strasbourg; Bologna; & Geneva)
 ☼Nov 2019: Infection control conference, Ballymena, N. Ireland
 Jan 2020: Healthcare environment design workshop, York, UK
 Feb 2020: BHTA Study day, England, UK
March 2020: Infection Control conference, London, UK (cancelled)
June 2020: J Hosp Infect conference, London (cancelled)
Nov 2020: Infection Control conference, London, UK (cancelled)
Nov 2020: FIS conference, Edinburgh, UK (withdrew)
 Nov 2020: Memorial on-line lecture for Professor Kevin Kerr: ‘Smart cleaning: a weapon in the war against antibiotic resistant superbugs’, Café Scientifique, University of Bradford.

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| June 2021: | Presentation on COVID-19 impact in NHSL, USA (on line) |
| Oct 2021: | Keynote lecture on hospital cleaning, NHS Estates, Birmingham |
| ✿April 2022: | Keynote IP&C & Meet-The-Expert, ECCMID, Lisbon. |
| May 2022: | Edinburgh conference on COVID-19 impact in Scotland |
| Sept 2022: | Edinburgh conference on healthcare ventilation |
| ✿Oct 2022: | Keynote presentation on hospital cleaning, Geneva |
| ✿April 2023: | ‘IPC Principles’, ECCMID, Copenhagen |
| June 2023: | Hospital Probiotic Cleaning meeting, Berlin, Germany |
| Oct 2023: | ‘Principles of IP&C’, ESCMID course, Vienna, Austria |
| Nov 2023: | Session Chair: Antiseptic Stewardship & Hard Surface Biofilm, FIS conference, Edinburgh, Scotland |

Extra-curriculum activities

Music

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| May 1975 | Grade VIII Bassoon (Merit, Associated Board of Music). |
| June 1976 | Grade VIII Piano (Merit, Trinity College of Music). |
| 1975 - 1980 | Bedfordshire County Youth & Chamber Orchestras |
| 1980 - 1984 | St. Bartholomew’s Hospital Orchestra (Principal Bassoon). |
| 1994 - present | The Glasgow Orchestral Society (Principal Bassoon) |
| 2001- 02 | Glasgow Chamber Orchestra, RSAMD. |
| 2005 | Professional debut: BBC Scottish Symphony Orchestra |
| May 2007 | Concerto with Glasgow Orchestral Society |
| Jan 2009 | Guest player with Bedford Sinfonia ; (also July 2019) |
| Jan 2010- 2016 | Glasgow Wind Orchestra (bassoon) |
| May 2012- 2018 | Arthur Short’s Jazz Band , Glasgow (alto saxophone) |
| May-Aug 2016 | Stirling Orchestra; runner-up, BBC competition, Prom RAH |
| June 2017 | Grade V Saxophone (Distinction, Trinity College of Music) |
| Nov 2019 | Grade VIII Saxophone (Distinction, Trinity College of Music) |
| Summer 2023 | Glasgow International Orchestra (Mahler 4; The Planets) |
| Dec 2024 | Alto & soprano saxophone, Black Diamond Havana & Bearsden Jazz bands |

Rowing

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| 1982 - 1984: | Head of the River 1982-84, University of London Bumps |
| 1986 | Silver Medal W VIII Nat. Champs, UK |
| 1987 | Silver Medal W 4X Nat. Champs, UK |
| 1988 | Gold Medal W 4+ Nat. Champs, UK |
| 1989 | Bronze medal W 2X Nat. Champs, UK |
| July 1988: | Gold medal, W 4+ (England) Home Countries Int , Ireland. |
| 1989-1990: | British National Lightweight Women’s rowing squad. |
| March 1990: | Winner, Tideway Head of River Race (New course record). |
| Jan 1994: | Gold medal, Scottish National Indoor Rowing Championships . |
| Sept 1994: | Double gold medallist World Veteran Rowing Championships . Groningen, Holland (WVet A coxed IV & WVet B double sculls). |
| Sept 1997: | Silver medal, WVet B single scull, European Masters , Munich. |
| June 2000: | Gold medal, WVet single scull, Scottish Nat. Rowing Champs . |
| August 2002: | Scottish Dragon boat, Commonwealth Games 2002 . Placed 4 th . |

Jan 2003 WVet C winner, **Scottish Nat. Indoor Rowing Championships.**
March 2005: WVet D VIII pennant, Tideway Head of the River.
Sept 2005: **World Veteran Rowing Championships:** two silver medals.

After a break of 15 years, I returned to rowing during 2020. Wins 2021: Gold medals x2, WVet F quad, Lockdown Regatta, Strathclyde Park; Gold medal, Mixed double sculls, Castle Semple Regatta; Gold medal, WVet 1x, Clyde HOR; Gold medal, WVet D quad, Inverness HOR. 2022: Silver medal, WVet 2x World Masters, France.

Other work experience and travel

This has included farm & factory work and shop roles; Oncology and Obstetric nursing and medical journalism. I have visited many European and Mediterranean countries and have travelled through, or worked, in India, Hong Kong, Vietnam, Thailand, Philippines, Australia, New Zealand, Papua New Guinea and the Canadian Arctic. I have also visited the Microbiology Departments at the National University & Tan Tock Seng Hospitals (Singapore), Royal Hobart Hospital (Tasmania), Woollongong General Hospital, Queensland Central Pathology Laboratories & Royal Darwin Hospital (Australia), Denver General Hospital (U.S.A.), Bien-Nhiet-Dhoi Hospital (HoChiMinh City, Vietnam), Sappasitprasong Hospital (Ubon Ratchatani, Thailand), Port Moresby General & Tari Mission Hospitals (Papua New Guinea). I am a lifeguard for the **Glasgow Humane Society** (in-shore lifeboat) and assist with safety and rescue on the River Clyde.

Future Aims

Delivering a busy clinical job in today's NHS means that research suffers because clinical work always fills the time allotted. For this reason, I accepted an academic post at Edinburgh Napier University, in order to further original research, collaborate with business & industry and support international and national organisations on cleaning, decontamination and other infection control strategies. Networking with colleagues in other countries has generated joint publications and grant applications for future research. An opportunity to crystallize all the clinical, laboratory and academic experience gained over many years has been a welcome addition. As we prepare for a world without antibiotics, research and education on microbial transmission, hygiene and infection control have never been more important. My career is now firmly settled within academia, particularly collaborative research. The role of the environment as a major reservoir of hospital pathogens is fundamental to the understanding of transmission, as well as the novel and preventive strategies that may be required. Creative thinking, initiative and courage will be required for future management of infection in both healthcare and community, in Scotland and beyond.

Referees

1. [REDACTED]
[REDACTED]
[REDACTED]

2. [Redacted]
[Redacted]
[Redacted] [Redacted]

3. [Redacted]
[Redacted] [Redacted]

4. [Redacted]
[Redacted]
[Redacted] [Redacted]