



**ABSTRACTS OF THE 4TH ANNUAL
GRADUATE ENTRY RESEARCH
IN MEDICINE CONFERENCE
GERMCON 2021**

Editors

- **Felicity Andrews**
- **Emily R. Reid**
- **Ilyas M Khan**
- **Francesco P Cappuccio**

Organized by

Warwick Medical School, University of Warwick, UK

Swansea University Medical School, Swansea University, Wales, UK

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GERMCON 2021

Felicity Andrews
Emily R. Reid
Ilyas M Khan
Francesco P Cappuccio
(Editors)

*Abstracts of the 4th Annual
Graduate Entry Research in Medicine Conference
GERMCON 2021 (11th September 2021)*

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Abstracts of the 4th Annual Graduate Entry Research in Medicine Conference (GERMCON 2021)
11th September, 2021

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- Warwick Medical School, University of Warwick, UK
- Swansea University Medical School, Swansea University, Wales, UK

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GERMCON 2021

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GERMCON 2021

Welcome

We are delighted to welcome you to our fourth annual Graduate Entry Research in Medicine Conference. You will be joined by colleagues from across the UK to celebrate the exceptional standard of work that has been achieved by students studying fast-track accelerated programmes.

Warwick Medical School (WMS) is home to the UK's largest exclusively graduate-entry programme, with around 200 students in each cohort. This event has been heavily subsidised by the Academy of Medical Sciences and the INSPIRE initiative, which is designed with the intention to supporting students to develop their interest and skills within academic medicine. In order to build on the successive years of strength this conference represents, we have teamed up with Swansea Medical School for a collaborative bid to attempt to run this event in the future, hosted between these two schools.

At WMS, we believe that Academic Medicine is very much a continuum and not a dichotomy; a crucial role in the future of what it is to be a doctor. However, we know that in accelerated degrees students have significantly less time not only to conduct research, medical education or leadership, but moreover are at a detriment in the time it takes to be able to disseminate this work. As such, we believe that events like today are crucial in providing students with a platform to be able to engage in this side of their role, which will become ever crucial in your career in the years to come.

This year, our event will be hosted at Scarman Conference centre, where the welcoming hospitality team will be able to cater to your every need, including complimentary refreshments throughout the day. The day will be filled by an exciting programme of INSPIRE keynotes and oral and poster presentations by colleagues from throughout the UK.

We have made a conscious effort to make the day as ECO-FRIENDLY as we can. We are not mass printing this guide, and we are reducing waste from single-use plastic, though not supplying lanyards or plastic consumables. We hope you will support us in this aim.

There will be intermittent breaks throughout the morning, and facilities can be located via looking at the map located within the guide. You will be able to help yourself to refreshments on offer throughout the day, so please feel free and make yourselves feel at home in the lounge areas.

We hope you have a wonderful day!

Best Wishes,
The Warwick INSPIRE GERMCON Committee

Conference Organisers

INSPIRE Warwick GERMCON Committee

- **Co-presidents:** Thomas Dale MacLaine & Rani Isaac-Thuruthiyil
- **Conference Lead:** Felicity Andrews & Nicole Owen.
- **Conference coordinators:** Louise Elliott, Nicole Owen, Polly Evans
- **Publicity Officers:** Julia Alsop & Flora Chamberlain
- **Phase 2 rep:** Emma Spencer
- **Phase 1 rep:** Melina Vasileiadou Pelling

INSPIRE Academic Leads

- **Warwick Medical School:** Professor Francesco Cappuccio
- **Swansea University Medical School:** Assoc. Professor Ilyas Khan

About the Editors

Felicity Andrews: has a degree in Biology at the University of Leeds, with an additional year studying Biotechnology in France. During this time she developed an interest in parasitology and infectious diseases, producing *Toxoplasma gondii*. She trained as a Physician Associate at St George's, University of London, and worked in diabetes and acute medicine at Guys & St Thomas' NHS Foundation Trust for four years, presenting research on microbiology and diabetes complications. During this time she undertook a teaching fellowship at St George's, adding to an interest in medical education. She is currently studying graduate entry medicine at the University of Warwick, where she is most recently working on a project regarding Tuberculosis in the West Midlands.

Emily Róisín Reid: is Senior Teaching Fellow in Medical Education and the Director for Student Experience, Employability and Progression at Warwick Medical School. She is a Fellow of the Higher Education Academy, a Fellow of the Warwick International HE Academy, and maintains several professional memberships relating to her field. After graduating with BA (Hons) English and French, she undertook her first career in commercial industry and gained two postgraduate qualifications. A decade ago, she changed career supporting those with disabilities and long-term health conditions to rehabilitate into work. She has spent the last five years at Warwick Medical School supporting medical students, completing a Master's degree in Career Development and is pursuing her PhD in the field of career decision-making. Her research interests relate to widening participation in medicine, academic medical careers and social justice.

Associate Professor Ilyas Khan: is a Reader in Regenerative Medicine based at Swansea University Medical School and specialises in articular cartilage development, regeneration and repair. He completed his first degree at the University of Portsmouth prior to gaining an MRC Studentship at Imperial College London, where he completed his PhD studies in the study of skin development at Charing Cross Medical School. He then went to work under the mentorship of Professor Charlie Archer at Cardiff University whose group identified and isolated stem cells from articular cartilage. Dr Khan has extended these latter findings to identify the optimal methods to differentiate these stem cells to produce cartilage opening out their use in tissue engineering. Dr Khan is currently engaged in large scale clinical trials to test the use of stem cells for cartilage repair. Dr Khan is the Academic INSPIRE Lead for Swansea University Medical School.

Professor Francesco Cappuccio: the Cephalon Chair of Cardiovascular Medicine & Epidemiology at Warwick Medical School and also Honorary Consultant Physician, University Hospitals Coventry & Warwickshire NHS Trust, Coventry. Francesco was awarded his medical degree from the University of Naples (*Magna cum laude*), obtained his MD from the same institution and MSc in Epidemiology from The University of London. Prof Cappuccio main research interests are in the prevention, detection and management of hypertension and its complications of the heart, brain, kidneys and the circulation. His work also encompasses the epidemiology of cardiovascular disease and sleep, nutrition and health, metabolic abnormalities and cardiovascular risk, risk in ethnic minorities, both in developed and developing countries. There isn't enough space to list his achievements suffice to say he was awarded a D.Sc in 2012 by Warwick University, his published work has garnered over 38,000 citations and his h-index is a dizzying 84. He has been a President of the British and Irish Hypertension Society and is currently Head of the World Health Organisation (WHO) Collaborating Centre for Nutrition, for whom he has also been a scientific advisor since 2005. Professor Cappuccio is the Academic INSPIRE Lead for Warwick Medical School.

Conference Schedule

Graduate Entry Research in Medicine Conference 2021

08:30-09:00	Registration				
Main theatre					
09:00-09:30	Welcome & Introduction				
09:30-10:30	Dr Steven Laird <i>How do we get to where we are? A story from a research focussed clinician</i>				
10:30-11:00	Refreshments & poster viewing				
Breakout rooms					
11:00-12:00	Oral presentations morning session				
Breakout room 1		Breakout room 2			
1	Olivia Ellard & Christina Dennison	<i>Interventions addressing loneliness among university students: a systematic review</i>	1	Abbie Tutt	<i>A scoping review of Neuroendoscopic Lavage as a treatment for Intraventricular Haemorrhage and Posthaemorrhagic hydrocephalus in the premature infant</i>
2	Anna Scott	<i>Using the 100,000 Genomes Project to explore SARS-CoV-2 infection susceptibility in the UK rare disease population</i>	2	Claire McGregor	<i>Frailty scores in the Older Person Assessment Service: To what extent do allocated scores vary between healthcare professionals?</i>
3	Alexander Reynolds	<i>Cardioplegia choice does not affect most surgical outcomes: Meta-analysis of HTK versus multi-dose solutions</i>	3	Jared Charlton-Webb	<i>EMRTS out of hospital cardiac arrest recording: how does it compare to Utstein and other International Registries?</i>
Main theatre					
12:00-13:00	Professor Prithwish Banerjee <i>The academic apple: How to grow it from seed</i>				
Scarman Restaurant					
13:00-14:00	Lunch				
Breakout rooms					
14:00-15:00	Oral presentations afternoon session				
Breakout room 1		Breakout room 2			
1	Amy Haddock	<i>An attempt to increase video consultation (VC) use in a General Practice in the Scottish Highlands during the COVID-19 pandemic.</i>	1	Hope Rowden	<i>EUTOPIA - Progestins effects on an endometriotic cell line</i>
2	Melina Vasileiadou Pelling	<i>Longitudinal Variation in Volatile Organic Compound Levels in Whole Saliva</i>	2	Joanne Igoli	<i>Spiritual Care First Audit Cycle of a Full Audit on a Trauma and Orthopedic (T&O) Ward in the Scottish Highlands</i>
3	Gauri Ang	<i>Are we meeting the 48-hour diagnosis to treatment guidelines in the management of Subarachnoid Haemorrhage?</i>	3	Tamsin Nicholson	<i>Evaluating alginate-nanocellulose Bio inks for 3D Printing human ears</i>
Main theatre					
15:00-15:30	Refreshments & poster viewing				
15:30-16:30	Dr Thomas Dale MacLaine <i>Preparation for an academic career: making the most out of medical school</i>				
16:30-17:00	PRIZEGIVING				

Keynote Biographies

How Do We Get to Where We Are? A Story from a Research focussed Clinician

Dr Steven Laird



Dr Steven Laird strives to combine front line clinical microbiologists and infectious disease specialists to enhance infection management and diagnostic effectiveness by appropriately engaging with colleagues and patients at the bedside. His specialist interests are tropical medicine, infectious disease, microbiology, public health medicine and outbreak management.

Dr Steven Laird is a Consultant Physician in Infectious Diseases and Medical Microbiology based at the University Hospital of Coventry and Warwickshire, England and a medical examiner and clinical personnel tutor. At Warwick University, he is an OSLER examiner, medical student selection centre interviewer, a SSC 2 Project Supervisor and a SSC 1 ID and Tropical Medicine Co-module Lead.

He is working ongoing research as chief investigator on a randomized, DOUBLE-BLIND, placebo-controlled study to evaluate the efficacy, safety and pharmacokinetics of a single intranasal dose of STI-2099 (COVI-DROPSTM) in Outpatient Adults with COVID-19 as well as a clinical trial looking at whether Eicosapentaenoic acid (EPAFFA)gastro-resistant capsules can reduce the inflammation in the lungs of people with COVID-19 infection with COASPIRE.

The Academic Apple: How to Grow it from Seed

Professor Prithwish Banerjee



Prof Banerjee trained in cardiology in the Yorkshire (Leeds) Deanery and obtained his accreditation in Cardiology and General Internal Medicine in 2004. He was appointed as consultant cardiologist at the University Hospitals Coventry & Warwickshire in November 2004 to establish and lead the heart failure service in this hospital. At this time he also worked as an interventional cardiologist (doing primary and elective angioplasties) and lead for cardiac imaging for 8 years. He was the network lead for heart failure for the Coventry & Warwickshire Cardiovascular Network before it was dissolved in 2013. In 2007 he became an Honorary Associate Professor at the University of Warwick, Research Lead in cardiology in his hospital in 2011, Cardiovascular Lead for the West Midlands within the NIHR Clinical Research Network (CRN) in 2012, Chair for the Midlands Heart

Failure Group and continues to hold all these positions. He was appointed Honorary Professor of Cardiology by Coventry University in May 2016 and by Warwick Medical School in 2019. He is a fellow of the Royal College of Physicians and the European Society of Cardiology.

His research interests include Heart Failure with preserved ejection fraction (HFpEF), myocardial fatigue, vascular resistance in heart failure, cardiogenic shock, cardiorenal disease and electrical muscle stimulation of the legs for cardiac rehabilitation.

Preparation for an Academic Career: Making the Most Out of Medical School

Dr Thomas Dale MacLaine



After 12 years of university education, Tom can be considered a professional student. Following his anatomy degree from Dundee University, he completed a PhD at Leeds, where he explored the impact of ageing syndromes on the recovery of surgical patients.

He is now a final year medical student at Warwick Medical School, applying for the specialist foundation programme (previously AFP), with the intention of becoming an academic Trauma and Orthopaedic surgeon.

Beyond his academic background, he is the co-chair of the Warwick Academic Medicine Society, and founder and chair of the Warwick Surgical MedTech group, and co-founder of the Athena Swan sponsored Beacon Internship programme

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