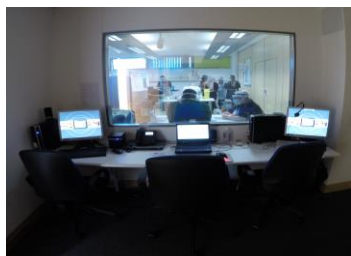


## 6th Welsh Simulation and Teaching

### Symposium- Innovating for Excellence in Patient Care

Thursday 16th December 2021



This popular meeting, now in its 6th year, is a great opportunity for healthcare professionals from throughout Wales to meet and discuss the latest innovations in teaching and simulation. This year our expert, speakers will be presenting on a wide range of topics including technical innovations such as virtual reality, the challenges of interprofessional learning and how to learn sustainably. Be sure to secure your place by scanning the QR code.



Organising committee: Saiyonora Hemrom, Bethan Bartholomew, Tom Holmes, Sara-Catrin Cook, Clare Hawker, Bridie Jones, Cristina Diaz-Navarro, Suman Mitra and Paul Frost.



and Teaching Symposium-Innovating for excellence in patient Care

Thursday 16<sup>th</sup> December 2021

| Timings      | Topics   | Chair                 | Speakers                                     |
|--------------|--|-----------------------|--|
| 10.00-10.15  | Welcome  | Paul Frost            | Steve Riley/Sian Richards (TBC)              |
| 10.15-10:45  | Simulation in Wales—<br>A vision for the Future                            |                       | Sara-Catrin Cook                             |
| 10.45-10:50  | Comfort Break  |                       |  |
|              | <b>Innovative practices</b>  | <b>Tom Holmes</b>     |  |
| 10:50-11:05  | Learning with Avatars.   |                       | Debra Roberts                                |
| 11:05-11:20  | Sepsis training using<br>virtual reality                                   |                       | Simran Sharma                                |
| 11:20-11:35  | Paediatric Emergency<br>Virtual Simulations                                |                       | Siva Oruganti and Assim Javid                |
| 11:35-11:50  | Wales's Virtual<br>Hospital  |                       | Huw Williams                                 |
| 11:50-12:00  | Q&A  |                       |  |
| 12:00-12:45  | Lunch and networking   |                       |  |
| 12:45-13:15  | TALK   |                       | Cristina Diaz-Navarro                        |
|              | <b>Learning Together</b>   | <b>Saiyona Hemrom</b> |  |
| 13:15-13:35  | Interprofessional<br>learning – a national<br>vision                       |                       | Suman Mitra                                  |
| 13:35-13:55  | Interprofessional<br>learning – the<br>challenges                          |                       | Clare Hawker                                 |
| 13:55-14:15  | Learning with the<br>emergency services                                    |                       | Tim Johnson and Bridie Jones                 |
| 14:15-14:35  | 'Acute care prepared':<br>the benefits of<br>interprofessional<br>learning |                       | Tom Holmes,<br>Hallam Amos and<br>colleagues |
| 14:35 -15:00 | Q&A  |                       |  |
| 15:00-15:15  | Break  |                       |  |
| 15:15-15:45  | Learning sustainably   |                       | Fiona Brennan                                |
| 15:45-16:00  | Symposium<br>evaluation and closing<br>remarks                             |                       | Paul Frost and Sara-<br>Catrin Cook          |

## Speakers Biographies



**Dr Sara-Catrin Cook**

Sara by background is trained in Critical Care and Anaesthesia and has been actively involved in simulation since around 2009 or so.

Her experience is mainly focused to in-situ simulation and over the more recent years has been applying this to systems, pathways, and protocol testing.

Her experiences include delivering simulation training particularly within Critical Care, supporting other units to set up their own in-situ programmes and develop the skills required, working alongside psychologists to develop debriefing skills, and presenting at various local, national, and international conferences. She also has ample experience at designing, setting up and running a variety of different interprofessional simulation-based courses.

In 2016, Sara had the opportunity to undertake a formal simulation fellowship and headed to Australia for a year to work at the Sydney Clinical Skills and Simulation Centre as well as at the Royal North Shore Hospital Sydney. She had the most amazing time gaining further skills and experiences in simulation-centre based interprofessional training to complement her in-situ skills. In addition, she had the opportunity to work alongside a variety of other stakeholders including the University of Sydney and got to know numerous inspiring simulationists from across the globe. Some of her most memorable experiences was being part of the Social Media and Critical Care (SMACC) conference simulation team, delivering workshop and on-stage simulation programmes in Dublin, Berlin, and Sydney.

Now settled back in Wales, Sara is thrilled at undertaking the role of Associate Dean in Simulation and Clinical Skills and heading up the fantastic HEIW simulation team. She is particularly excited at getting to know the Welsh simulation community and supporting the incredible work that is going on across the country.



**Dr Simran Sharma**

Simran is a obstetrics and gynaecology trainee currently undertaking an M.D. with project sepsis at Cardiff University'

**Dr Siva Oruganti**

Siva is a consultant in Paediatric Intensive Care Unit, Children's Hospital. He has special interest in Medical Education and Research. In addition to starting the Undergraduate simulation study days for medical students in Cardiff University, He set up the annual intensive care study days for postgraduate paediatric trainees in Wales.

He is the research lead for paediatric intensive care in Wales and is currently Principal Investigator for the paediatric Sepsis and COVID study (pSeP/COVID ChYP study) in the Paediatric Intensive Care Unit.



**Dr Assim Ali Javaid**

Assim is a registrar training in paediatric emergency medicine at the University Hospital of Wales. He has an avid interest in medical education working as the trainee representative for assessments at the RCPCH and is a co-founder of one of the UK's leading paediatric podcasts, Dragon Bytes [www.dragonbytespodcast.com](http://www.dragonbytespodcast.com). He is also a Welsh Clinical Academic Track Fellow, the first to be accepted to the programme to pursue research in Medical Education at Cardiff University."



**Dr Cristina Diaz-Navarro**

Cristina Diaz-Navarro is a Consultant Anaesthetist with an interest in neuro-anaesthesia at the University Hospital of Wales, an Associate Dean for Simulation and Clinical Skills at Health Education and Improvement Wales, and an Associate Professor for the School of Medicine and Healthcare Sciences at the University of Barcelona.

She has been involved in simulation-based education and debriefing since 2006. Her academic work has focussed on human factors training and simulation faculty development since 2011. She is also the lead author in the creation of the TALK approach to clinical debriefing ([www.talkdebrief.org](http://www.talkdebrief.org)) and chairs the Board of Trustees of the TALK Foundation.

She enjoys developing innovative simulation-based projects that encourage new perspectives for reflection on everyday elements of healthcare.



**Dr Suman Mitra**

Suman has a special interest in patient centred simulation for the delivery of medical education and interprofessional education.

He has been involved in simulation training and teaching since 2009 when he started medical student selected component programme supervision.

Suman integrated that with postgraduate training and pre-hospital paramedic teaching. Since then, He has followed the strategy of an all-inclusive approach for medical education that involves multiple specialties taking part both as faculty and as learners to achieve their individual objectives while keeping the patient in the centre. His projects have been presented in national and international conferences and attracted recognition for the students involved.

Different curriculum but a common theme of learning has been the structure of simulation-based education he delivers. Over the last ten years he has conducted monthly simulation based professional development sessions that use locations across North Wales and involving doctors, nurses, midwives, paramedics, first responders, fire & rescue, mountain rescue, cave rescue, coast guard and RNLI staff.

His vision for simulation-based education for Wales is to help and support patient centred interprofessional learning that brings everyone, who is involved in the patients' journey, together to learn of and from each other.

As an Honorary Senior Lecturer and Module lead for Post Graduate Certificate in Medical Education, he has been involved in organising, teaching, and assessing the module 'Teaching and Technology' for the last 6 years. This teaches candidates the adult learning theories, hardware and software of simulation technology as well as encourage them to think about how human factors and team resource management can be incorporated in simulation-based education.

Apart from his day job and educational interest, Suman spends time in his farm in North Wales where he lives. There is always something to do when trying to grow organic vegetables, keep hens and maintain the fields.



**Clare Hawker**

Clare has a long-standing passion for clinical skills education and simulation-based nurse education.

She has led on clinical skills education and Simulation Based Education (SBE) within the School of Healthcare Sciences, Cardiff University for a number of years in her former role as Academic Lead for Simulation and current role as a Senior Lecturer for Adult Nursing/Director of Technology and Simulation. Clare led the School's response as part of the consultation phase of the Association for Simulated Practice in Healthcare (ASPiH) simulation standards in 2016.

Clare led on the development, implementation, and evaluation of an innovative, international simulation resource to prepare first year undergraduate nursing students for placements in the community setting as part of a three-year Erasmus funded Innovative Simulation Pedagogy for Academic Development (ISPAD) project. The ISPAD project involved working collaboratively with academics from two international universities (Turku University, Finland and University of Molise, Italy). In recognition of her expertise in simulation and valuable contribution to the ISPAD project, Clare gave the keynote lecture on 'simulation in healthcare education' at the ISPAD simulation conference held at the University of Malta. The ISPAD project formed the basis of a book chapter 'Innovative approaches to nurse teaching and learning' where innovative approaches to simulation is discussed.

Clare has presented at national and international conferences with regards to clinical skills education and Simulation based Education. Clare's PhD study explored undergraduate nursing students' education and training in aseptic technique, a core nursing skill, with a view to improving understanding and enhancing education in this area. Clare has a keen interest in developing a programme of research around simulation, investigating the optimum conditions and duration of debriefing in simulation.

Clare's vision for simulation in Wales is to recognise and celebrate the innovative use of simulation and bring the interprofessional Sim community together. Clare in her role of Associate Dean for Clinical Skills and Simulation would like to promote interprofessional simulation, contribute to the evidence base and enhance faculty development.



**Bridie Jones**

Bridie is a registered nurse with a background in emergency care and currently works in higher education.

She has a particular passion for simulation as a means for teaching, learning and assessment and providing learners with a degree of realism to their learning. She has been involved with simulation since 2005 and has a particular interest in improving learners' skills and knowledge through a range of differing simulation activities with interprofessional simulation being a key feature.

Bridie has led on the development, implementation, and evaluation of several simulation activities within the University of South Wales. These have included in situ simulation activities to aid post registration learners in the identification of the deteriorating patient, mass casualty and end of life simulation for pre-registration learners and improving the assessment and intervention skills of emergency care trainees. She has presented at several conferences regarding simulation with a particular focus being on interprofessional learning through this medium.

Bridie is pleased and excited to be taking up one of the Associate Dean roles for Simulation with HEIW and is looking forward to meeting and getting involved with the Welsh Simulation community, supporting, and promoting best practice.



**Bethan Bartholomew**

Bethan recently joined the HEIW simulation team as the Simulation and Clinical Skills Support and Development Manager having previously worked in the HEIW quality unit. Bethan is looking forward to supporting the work of the team and getting involved with the



Welsh Simulation community.



**Dr Huw Lloyd Williams**

Dr Huw Lloyd Williams is a Senior Clinical Lecturer in Emergency Medicine at Cardiff University with a master's in medical education and a practicing Emergency Physician in Prince Charles Hospital, Merthyr. Dr Williams established the 'Emergency, Pre-hospital and Immediate Care' intercalated BSc (EPIC iBSc) degree, which was approved by Cardiff University in 2016, funded by the Welsh Government since 2017 and for which he has been the programme director since 2018. He also became the Year 3 'Hospital Front Door' Module Lead for the undergraduate MBBCh programme at Cardiff University in 2018. Dr Williams has received several awards for his work in medical education including the BEST Trainee Medical Education Award (2016), the MEDIC Star Award in Medical Education (2017), the SURGAM Rising Teaching Star Award (2018) and the BMA Cymru Clinical Teacher of the Year Rising Star Award (2018). He has also received two nominations in the SURGAM 2020 awards for the educational eLearning and face-to-face programmes he ran during the COVID-19 pandemic. He now runs the Emergency Medicine Academic Centre (EMAC) at Cardiff University. Current projects include the development of a new virtual reality eLearning platform free for all Welsh healthcare institutions and healthcare learners in Wales; *Wales's Virtual Hospital* (funded by the Accelerate programme).



**Dr Tim Johnson**

Tim has been the Year 2 Director for the undergraduate MBBCh in the Centre for Medical Education at Cardiff University since June 2014. He is responsible for the delivery of the

C21 curriculum in year 2 and is actively engaged in teaching physiology across the entire MBChB programme. His specialist interest in medical education resides in the teaching of critical illness at the end of year 2. This has involved the development of various teaching events including projects involving the development of virtual reality and simulation events involving the South Wales Fire and Rescue Service, WAST, EMRTS, Air Ambulance, Maritime and Coastguard Agency, Coastguard Rescue, South Wales Police and the RNLI. “



### **Tom Holmes**

Tom Holmes is a consultant in intensive care medicine and current clinical director of critical care at Cardiff and Vale, University Health Board.

He is also a senior clinical lecturer and lead for acute care teaching at Cardiff university school of medicine.

Tom's teaching interests include interprofessional learning, critical thinking and point of care ultrasound teaching.

### **Debra Roberts**

Debra is the Associate Dean (Pharmacy), Head of Programme Development and Advanced Practice at HEIW.

### **Fiona Brennan**

Fiona is a Consultant Anaesthetist at the University Hospital of Wales and Honorary lecturer at Cardiff University. Fiona is passionate about planetary health and has instigated and promoted measures to reduce the carbon footprint of anaesthetic practice and, is an educational lead for sustainable healthcare in Cardiff University Medical School.

## **Session Chairs**

Dr Paul Frost

Reader and

### **Director of Clinical Skills and Simulation**

Centre for Medical Education

School of Medicine, Cardiff University, and

Honorary Consultant in Intensive Care Medicine

University Hospital of Wales

Cardiff.

Saiyonora Hemrom

### **Lecturer & Simulation Lead**

Clinical Skills and Simulation Centre

Centre for Medical Education

School of Medicine, Cardiff University.

Dr Tom Holmes

Consultant in Intensive Care Medicine

Clinical Director, Critical Care Cardiff, and Vale UHB and

### **Senior Clinical Lecturer - Lead for Acute Care Teaching & Simulation**

Centre for Medical Education

School of Medicine, Cardiff University.

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