



VOL. 1 SEPTEMBER 2023

SIMULATION NEWSLETTER: SESAM EDITION

R MOFFATT, A TAYLOR, S BERRY, J IRVINE, B MCCARRAGHER, N WEATHERUP

SESAM 2023 - LISBON

Lisbon played host to SESAM 2023 with a large contingent of Northern Irish delegates attending, presenting and hosting workshops throughout the week, demonstrating the wealth of expertise and enthusiasm developing across the region. Within this brief newsletter we will share a few highlights from the congress as well as links to resources and papers discussed during the 3 day meeting.

This newsletter is by no means exhaustive and we highly recommend visiting SESAM's website for further detail on past and present congress' (<https://www.sesam-web.org/>) SESAM's next congress will be held in Prague on 19th - 21st June 2024 - with a notoriously early abstract submission deadline - keep an eye out for updates on abstract details.



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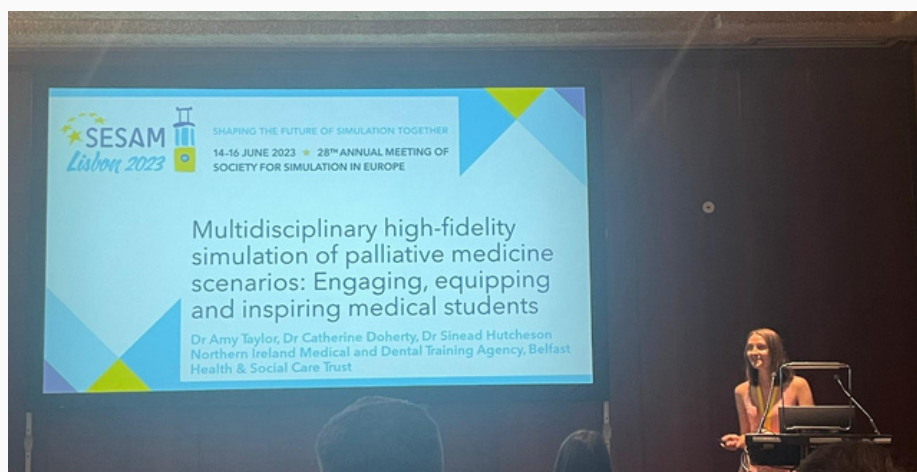
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Congress Overview - Keynotes + Networks

The congress ran over 3 full days with a plethora of sessions running simultaneously - covering a breadth of topics and areas of interest within simulation based education, from innovation to quality improvement and novel research, highlighting the breadth of applications of simulation in healthcare. With such a spectrum of addresses, workshops and presentations, within this newsletter we select a few highlights as well as papers and resources that we hope you find useful.

The opening keynote address "Simulation Research and Scholarship: Reviewing the Literature and Shaping the Future" set the tone for the congress looking at research within simulation and the ever growing body of evidence of its utility and applicability throughout healthcare with particular encouragement on work being done by, and for, a more diverse group of learners. The congress overall promoted increased inter-specialty / international collaboration in both applied and research based simulation projects. Contacts were developed by our local delegates in palliative care medicine, paediatrics (linking with Edinburgh University and "Don't forget the Bubbles" international group), geriatrics, stroke and surgery (see workshop and industry highlights) but to name a few.



DR AMY TAYLOR PRESENTING HER WORK ON SIMULATION IN PALLIATIVE CARE

9 Keynote Addresses

96 Workshops

26 Research Presentation Sessions



CURRENT ADEPT FELLOWS: DR J IRVINE, DR S BERRY, MR R MOFFATT

WORKSHOP HIGHLIGHTS

Apart from the obvious bill topping appearances of Northern Irish ran workshops we highlight 3 workshops delivered:

1. "Interprofessional Simulation Scenario writing" workshop by Bridie Jones and colleagues from Health Education and Improvement Wales - providing a detailed template for scenario design writing (<https://heiw.nhs.wales/education-and-training/simulation-based-education/resources/scenarios1/>) with an addition to the design highlighting an equality diversity and inclusion aspect to design process. This template can be freely used but should be credited to HEIW.



2. "The art of debriefing" by Neil McGowan and colleagues from Scotland highlighted the importance of debriefing as a creative process and not a strict set of rules and proformas. With multiple validated processes for safely debriefing, the focus was on developing and honing a style and format that both serves you, the faculty, and the learners. The systematic approach giving confidence and guidance to the novice debriefers with scope to move to a more fluid and less rigid approach, following the principals of facilitating a structured learning conversation in a psychologically safe environment.

3. "Exploring the use of live tissue training in learning to manage surgical trauma" was delivered by Cara Swain and colleagues from the Karolinska Institutet in Stockholm. It focused on the evolving alternatives to live tissue simulation utilising a focus group method to distil down the key beneficial aspects of this type of simulation and the potential alternatives. The unique aspect to this workshop was its use as the basis for a manuscript for publication and the opportunity to further contribute and co-author the paper - again furthering and developing links between regions and centres involved in simulation across the globe.

Key Papers / Resources

HEIW Scenario Design Template

[HTTPS://HEIW.NHS.WALES/EDUCATION-AND-TRAINING/SIMULATION-BASED-EDUCATION/RESOURCES/SCENARIO S1/](https://heiw.nhs.wales/education-and-training/simulation-based-education/resources/scenarios1/)

Standards for reporting qualitative research: a synthesis of recommendations
BRIDGET C O'BRIEN ET AL

Thematic analysis of qualitative data: AMEE Guide No. 131
MICHELE E KIGER ET AL

Technology-enhanced simulation for health professions education: a systematic review and meta-analysis
DAVID A COOK ET AL

INDUSTRY SHOWCASE



Decent Simulators - Belfast

To showcase homegrown talent 1st, we had exhibits from this newly formed medical simulator company, focusing on "Educational models that are simple, affordable, learning objective-oriented and easy to repair." Offering superb soft tissue models and uniquely offering the 3D print files of models to be purchased so that clients can continue printing and repairing their own models with the only ongoing cost that of the materials #sustainability (<https://www.decentstimulators.com/>)

Paediatric Patient Simulators

SIMCharacters - Vienna, as reviewed by Dr. Sarah Berry, showcased one of the most realistic extremely preterm neonatal upper airways currently available. With neopuff and ventilator systems that allow for automatic tube position detections during intubation, assessment of face mask seal, etc. Highlighting the development of technology to meet a learning / training need within neonatal / paediatric training. In paediatrics and neonatology we are lucky to have access to some other fantastic high fidelity dolls to train with. Lifecast body simulation are creating some of the most realistic neonatal simulation dolls available; lifecast babies. They range from a micro-preemie, 22-23 week gestation to a fully developed term baby. Lateral SimNewB and Premature Anne offer further options for high fidelity task trainers. You should also check out the NeoSim YouTube channel for more Paeds / Neonate related sim content (<https://www.youtube.com/@NeoSimRJMS/featured>).

Virtual Reality Training

SimX VR, as reviewed by Mr. R Moffatt, developed in the United States in conjunction with the American military, SimX demonstrated hugely detailed and engaging VR platform focused on emergency medicine and pre-hospital trauma with detailed metrics on learner progression and performance. As with all current VR offerings for clinical skill acquisition, the limitations of interface and haptic feedback are present, but certainly takes little away from the array of clinical scenarios and potential learning offered. As it has been developed in the USA, further interrogation of specific treatment algorithms etc. is needed, but still a very comprehensive software that is looking to expand in to the UK / Europe. (<https://www.simxvr.com/>)

Focusing more on the surgical side of VR training, both Precision OS and OSSO VR showcase the range of developments in this field with an ever expanding catalogue of procedures being offered. Something to be aware of, particularly in coming years, when haptic feedback and VR interfaces begin to bridge the gap between real world and VR surgical procedural training.

NEW TO SIMULATION?

If you are new to the world of Simulation Based Education (SBE) then you are arriving in to an area of medical education that is growing exponentially, not only within Northern Ireland, but around the globe.

As well as the resources and events highlighted within this newsletter, if you wish to gain a basis in understanding the principals of SBE, then here are a few things to get you started:

The future vision of simulation in health care.

Gaba DM.

Qual Saf Health Care. 2004 Oct;13 Suppl 1

Establishing a safe container for learning in simulation: the role of the presimulation briefing.

Rudolph JW, Raemer DB, Simon R.

Simul Healthc. 2014 Dec;9(6):339-49.

Reconsidering fidelity in simulation-based training.

Hamstra SJ, Brydges R, Hatala R, Zendejas B, Cook DA.

Acad Med. 2014 Mar;89(3):387-92.



DATES FOR THE DIARY

PRAGUE AND BRIGHTON

SESAM 2024 will be held in Prague next year. Abstract deadlines closed mid-September last year for June 2023 conference so we recommend getting work completed and abstracts written in the coming months.

If you can't wait that long until the next big Simulation Conference...



In Local News:

With great events planned both locally and nationally we also look forward to another year of SBE development and innovation within our medical training, for both undergraduates and postgraduates, across the region.

The 2nd year of the NIMDTA Simulation Champions initiative aims to build on the momentum of its inaugural year by supporting more specialties and Schools with integrating SBE within their training programmes - look out for updates on Simulation Champion applications and programmes for your specialty this year.

NIMDTA Clinical Education Day

CROWNE PLAZA 29/9/23

International Forum on Quality and Safety in Healthcare

LONDON 10-12/04/24

The Irish Association for Simulation, Symposium

APRIL 24 - TBC

QUB InterSim Simulation Conference

JUNE 24 - TBC

Further Conference dates for 2024 coming soon