

W301: GAMIFICATION OF MEDICAL SIMULATION WORKSHOP

Speaker: Rajan Kailainathan, Srigala Nagarajan

Workshop Description

The Gamification of Medical Simulation workshop is an indispensable resource for clinicians seeking to revolutionize their approach to simulation-based education. This comprehensive guide is meticulously crafted to navigate the intricate realm of scenario design, a pivotal element in medical simulation that elevates learning experiences to unprecedented heights.

Simulation, an influential pedagogical tool, finds its zenith in scenario design. This course presents an in-depth exploration of crafting robust scenarios finely tuned to precise learning objectives. The workshop empowers participants with the prowess to construct scenarios that resonate with authenticity, mirroring the complexities of real-world clinical encounters. Aspiring to bridge the chasm between theoretical knowledge and clinical application, the course delves into techniques that yield meaningful and valid outcomes for learners and instructors alike.

Workshop Objectives

This workshop delves into medical simulation's core aspects with an added twist of gamification. Participants learn to craft scenarios aligned with learning goals, balancing technical and non-technical skills. Design choices are explored, adapting scenarios to diverse contexts and using actual cases ethically. Time manipulation and inter-professional scenarios enhance learning, addressing individual needs. Resourceful simulation design is emphasized while debriefing and assessment's role is recognized for comprehensive educational impact. By infusing gamification elements, the workshop creates engaging scenarios that boost motivation and interactivity, fostering an innovative approach to medical education.

Who Should Attend

The Gamification of Medical Simulation course is tailored for a diverse spectrum of healthcare professionals dedicated to advancing their educational practices. Clinicians, educators, simulation specialists, and medical trainers seeking to amplify the effectiveness of their simulation-based training will find immense value. Physicians, nurses, allied health professionals, and researchers aspiring to bridge the gap between theory and practice can benefit from mastering scenario design, inter-professional collaboration, and debriefing techniques. Whether novices or experienced practitioners, attendees aiming to elevate patient care through immersive and authentic learning experiences will find this course an invaluable resource for cultivating excellence in healthcare education.

Speaker Bios

Name	Department	Faculty	Institution	Country
Dr. Rajan Kailainathan	Emergency Department	Emergency Department	Monash University	Australia

Holding fellowships with the Australasian College of Emergency Medicine and Royal College of Emergency Medicine, Dr Rajan Kailainathan is an influential Emergency Physician at Monash Health. Spearheading the annual Emergency Medicine Symposium, he redefines education and networking. An Associate Fellow of the Royal Australasian College of Medical Administration, his practical approach aligns with solutions-driven healthcare. He advocates for quality and safety within healthcare and contributes to Dandenong and Victorian Heart Hospitals. He advances healthcare education as an Adjunct Senior Lecturer at Monash University Medical School. Involvement with the University of Vavuniya's External Advisory Board highlights his global perspective. Dr. Kailainathan's impact showcases his unwavering commitment to transforming healthcare through education, innovation, and comprehensive patient care.

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W302: TEACHING, LEARNING, ASSESSING AND ENHANCING PERFORMANCE WITH GENERATIVE AI

Speaker: Nathasha Luke, Thilanka Seneviratne, Chen Zhi Xiong

Workshop Description

The use of generative Artificial Intelligence (AI) in education is becoming more prevalent by the day. With generative AI technologies, it is possible to create new content and generate novel ideas based on existing information. These include conversations, stories, images, videos, and music. Clearly, there are many advantages and disadvantages on using such technologies. In this workshop, we will explore how generative AI can be harnessed in a useful way to teach, learn, assess and enhance performance in health professions education.

The hands-on workshop will start with an introduction to generative AI technologies based on large language models (LLMs). We will present practical capabilities and highlight limitations of these technologies. We will demonstrate worked examples of tutorial, case-based learning and assessment in medical sciences for medical undergraduates. By working on carefully crafted clinical cases and teaching-learning scenarios, participants will better understand how these tools can enhance the teaching and learning experience of our faculty and students as well as improve learners' clinical reasoning approaches.

Workshop Objectives

At the end of the workshop, participants will be able to:

Understand the benefits and pitfalls of using generative AI tools in education. Design education activities that optimize benefits of using such tools. Understand how to use such tools to enhance clinical reasoning skills. Modify education activities to prevent or mitigate pitfalls.

Who Should Attend

The workshop will be of interest to all health profession educators who want to learn more about generative AI tools and how to use them purposefully in their education activities. Student attendees may also be keen to learn how such tools can be useful for self-directed learning and their limitations. Last but not least, education leaders and administrators may be interested to learn what these tools can and cannot do as well as should and should not do, in order to develop policies governing their use and implementation in the curriculum.

Speaker Bios

Name	Department	Faculty	Institution	Country
Nathasha Luke	Department of Physiology	Yong Loo Lin School of Medicine	National University of Singapore	Singapore

Dr Nathasha Luke is a Lecturer at the Department of Physiology, Yong Loo Lin School of Medicine of the National University of Singapore, and a Resident Physician at Ng Teng Fong Hospital, Singapore. She is a clinician, educator, and researcher. She teaches undergraduate students in Medicine, Pharmacy, and Life sciences. She has multiple scientific publications in leading medical journals. She takes a lead role in Medical education research and her key research interest is in artificial intelligence in medical education.

Name	Department	Faculty	Institution	Country
Thilanka Seneviratne	Department of Pharmacology	Faculty of Medicine	University of Peradeniya, Sri Lanka	Sri Lanka

Dr. Seneviratne is keenly utilizing simulation in medical education. She has published and presented widely in simulation, medical education, Clinical pharmacology and Allergy and Immunology in National and International forums as the first author and has Presented award winning papers. As the founder vice president of the Sri Lanka Association for Simulation in Healthcare (SLASH) she organized the first ever international conference on Simulation in Sri Lanka. She is a Founder member of the Asia pacific biomedical science educators Association (APBSEA). A consistent contributor for Asia Pacific Medical Education Conference (APMEC) as a resource person and as an invited speaker. Her special interests are in Allergy and Immunology and has published widely on the subject. She is a Member of the American College of Allergy, Asthma and Immunology (ACAAI), Asia pacific Academy of Paediatric Allergy, Respirology and Immunology (APAPARI), and European Academy of Allergy and Clinical Immunology (EAACI).

Name	Department	Faculty	Institution	Country
Chen Zhi Xiong	Department of Physiology and NUS Centre for Cancer Research	Yong Loo Lin School of Medicine	National University of Singapore	Singapore

Zhi Xiong is an Associate Professor at the Department of Physiology and the Assistant Dean (Education) of NUS Medicine. He completed his fellowship with Ludwig Cancer Research at Karolinska Institutet and conducts research on pediatric solid tumors at NUS Centre for Cancer Research (N2CR) and KK Women's and Children's Hospital (KKH). Deeply interested in professional development, he obtained his Master of Health Professions Education from Maastricht University and founded Asia-Pacific Biomedical Science Educators Association (APBSEA). He is also an Associate of Centre for Medical Education (CenMED) and a Board Member of International Association of Medical Science Educators (IAMSE). Involved in the education of various health professions, Zhi Xiong is passionate about transdisciplinary learning through faculty development, medical education technology and cross-faculty collaborations. As Master of NUS LightHouse, he believes that student development through human communities and connections is essential to a complete university experience that cannot be replaced digitally.

W303: DESIGNING AND APPLYING EFFECTIVE QUESTIONNAIRES

Speaker: Marcus Henning, Mataroria Lyndon

Workshop Description

This workshop aims to cover the key components of questionnaire design and development followed by research application. It is ideal for individuals who aim to use, or are designing, questionnaires for their research or practice. The workshop follows a step-by-step process and involves some discussion around the application of psychometric statistical methods.

Workshop Objectives

At the end of the course the participants will be able to:

- Explain the processes involved in designing questionnaires, including reliability and validity issues
 - Create and implement an effective questionnaire
 - Demonstrate basic skills using Google forms
 - Understand how to perform fundamental psychometric analysis
 - Apply questionnaires to research problems
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Who Should Attend

Speaker Bios

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