

Anaesthesiology and Emergency Medicine Beginners' Bootcamp 2021

The Department of Anaesthesiology, in collaboration with the Department of Emergency Medicine, launches a combined 'Anaesthesiology and Emergency Medicine Bootcamp' for new Anaesthetics and Emergency Medicine Trainees in the Pillar Centre, Mater Hospital.

Interdisciplinary team training improves communication as well as transfer of knowledge across two or more disciplines. In recent years, there has been an expansion in interdisciplinary education, the fundamental concept of which is a shared vision model that leads to better interdependent collaboration. Multidisciplinary training breaks down traditional barriers and drives creativity and innovative thinking. Educational materials that cross between different disciplines enable sharing of data, techniques and tools, creating stronger team dynamics within the hospital system for better patient and organisational outcomes.

The Pillar Centre for Transformative Healthcare opened its doors to a unique, flexible, interdisciplinary educational space within a hospital setting. Given this opportunity, simulation experts from Anaesthesiology and Emergency Medicine (EM) in the Mater Hospital came together to develop an interdisciplinary bootcamp for novice trainees and nurses from both disciplines.

The model applied is based on the first 'Anaesthesia Bootcamp' launched in July 2018, as a collaborated project between the Department of Anaesthesiology in St Vincent's University Hospital (SVUH) and the College of Anaesthetists of Ireland (CAI). The aim of the bootcamp was to better prepare the novice trainee for the beginning of their clinical rotation and lay the fundamental principles on which further knowledge and skills can be built. Our bootcamp's design has been tailored to trainees in both Anaesthesiology and Emergency Medicine, to give them an early exposure to the core skills and knowledge that make the cornerstone of resuscitation. The first intake of participants on this collaborated interdisciplinary project will include eight anaesthesia trainees, three newly qualified anaesthetic nurses, six EM trainees and three EM nurses. While our anaesthesia participants are mainly from the Mater Hospital, we are also welcoming junior anaesthetic trainees from Rotunda and Cappagh Hospital. The faculty consists of Consultants from both disciplines, Simulation NCHDs, the Head of the Clinical Engineering Department, the Perioperative Clinical Nurse Facilitator and the Nurse Lead for the Mater Simulation Programme.

The Bootcamp is set to be an intensive 2-day simulation-based course that will comprise of interactive lectures, equipment demonstration, workshops and high-fidelity simulated scenarios. Day 1 is designed to give the novice anaesthetic and EM trainee a grounding in the main aspects of airway management while also focusing on the Difficult Airway Society (DAS) guidelines and the Association of Anaesthetists of Great Britain and Ireland (AAGBI) guidelines and checklist for the anaesthetic machine. Day 2 is focused on vascular access using advanced ultrasound-guided task trainers for central line and arterial line insertion, as well as commonly performed procedures in Anaesthesia and EM, including neuraxial blocks, planar blocks and chest drain insertion. We also incorporate a dedicated lecture on human factors and crisis resource management in order to lay early emphasis on the importance of non-technical skills that are pivotal in promoting good teamwork and key decision-making processes. Our expert faculty will lead high-fidelity simulated scenarios, where participants are expected to showcase technical and non-technical skills and knowledge they have gained in the interactive lectures and workshops into crisis resource management of critical incidents in a multi-disciplinary simulated environment.

Over the course of the two days, the learning objectives, similar to the original bootcamp, include an understanding of basic anaesthetic techniques, airway management, performing a comprehensive

preoperative anaesthetic assessment, preparing commonly used medications, preventing drug errors as well as assessment of patients in the post-operative environment. At the end of the programme, participants will take part in an MCQ for immediate post-training evaluation. Furthermore, data and metrics from the course will be used to conduct a qualitative course evaluation and simulation research.

Our aim is make this course a sustainable induction curriculum that will help Anaesthesiology and Emergency Medicine trainees in the Mater Hospital towards their future milestones.

Dr Zeenat Nawoor-Quinn
Course Director and Coordinator
Consultant Anaesthesiologist
The Mater Hospital

Faculty

Dr Zeenat Nawoor-Quinn, Consultant Anaesthesiologist
Dr Niamh Hayes, Consultant Anaesthesiologist
Dr Tomas Breslin, Consultant in Emergency Medicine
Dr Ger O'Connor, Consultant in Emergency Medicine
Mr Andrew Kennedy, Head of Clinical Engineer Department
Dr Damian Kerrigan, Anaesthesia SAT 5 & Simulation Trainee
Ms Aoibhin Ghoss, Perioperative Clinical Nurse Facilitator
Dr Conor Skerritt, Consultant Anaesthesiologist
Dr Georgi Valchev, Consultant Anaesthesiologist
Dr Cian McDermott, Consultant in Emergency Medicine
Ms Caoimhe Fitzsimmons, Nurse Lead, Mater Simulation Programme
Dr Aneurin Moorthy, Clinical Tutor & Anaesthesiologist

Acknowledgement

Anaesthesia Bootcamp July 2018 – Department of Anaesthesiology, Intensive Care and Pain Medicine, St Vincent's University Hospital (SVUH) Dublin, in association with the College of Anaesthesiologists Simulation Training (CAST) Centre at the College of Anaesthesiologists of Ireland (CAI).
Prof C Burlacu, Dr C Duffy, Dr Z Nawoor-Quinn

Special Thanks

Dr Kathryn Byrne, Consultant Anaesthesiologist, Head of Anaesthesiology Division
Ms Erin Daly, Operations Manager, The Pillar Centre
Mr Cronan Morrison, Medical Student, MMUH
Ms Orla Gaynor, Resuscitation Officer, MMUH
Cardiac Services, Dublin
Norso Medical Limited
Oxygen Care Limited