Healthcare Simulation & Patient Safety at NUI Galway
Postgrad Diploma of Science
Masters of Science

Distance Learning
The Irish Centre for Applied Patient Safety and Simulation (ICAPSS) Centre is located on the grounds of Galway University Hospital, Galway, the teaching hospital partnered with NUI Galway.

The centre runs undergraduate and postgraduate education and training programmes for Healthcare Students in NUI Galway and Postgraduate Healthcare Professionals in Galway University Hospital and focuses on high fidelity manikin based simulation and task training.

For anaesthetic trainees in the hospital, there are difficult airway training and regional anaesthetic programmes.

SimSurgery, SimOrtho, transitioning programmes, intern bootcamp, surgical social, orthopaedic core training, skills and drills programmes for all medical disciplines, paediatrics and intensive care staff and a plethora of skills training programmes are run from the ICAPSS simulation centre since 2010.

The School of Nursing has 2 clinical skills laboratories in the undergraduate School of Nursing on the University campus.

The School of Medicine NUI Galway runs a standardised patient programme for medical students. Research into patient safety and improved patient care is a core part of the work of the ICAPSS team. Further information on our research team, interests, projects and publications can be found here: http://www.nuigalway.ie/icapss/
WHAT IS HEALTHCARE SIMULATION?

Our programmes in Healthcare Simulation are a bridge between classroom learning and real-life clinical experience delivered through distance learning.

Healthcare Simulation comprises a range of activities that share a broad, similar purpose… to improve the safety, effectiveness, and efficiency of healthcare services.

Over the past two decades the use of simulation to educate and train healthcare providers has progressed rapidly in terms of both the technology and the educational techniques used.

However, there has been a lack of education and training in how simulation equipment and techniques can be used to educate healthcare practitioners or integrated into existing curricula.

Patient care has changed and healthcare simulation is the modern day methodology for training healthcare professionals through the use of advanced educational technology, deliberate practice and feedback.

Simply put, healthcare simulation is the experiential learning every healthcare professional needs, but cannot always engage in during real-life patient care.

Simulation-based learning and training is a safe learning environment where we can learn from mistakes and improve performance through deliberate practice and through distance learning.

Healthcare simulation encompasses medical simulation, simulation in healthcare, patient simulation, nursing simulation, surgical simulation, team-based training, crew resource management, task training to mastery and clinical simulation.

This course is delivered as much as possible through distance learning online. This delivery method allows the student to study at a time that is convenient to them, no matter where they live. The modules are delivered using a combination of multi-media presentations, online discussion boards, and online tutorials.
Course Overview

Over the past two decades the use of simulation to train healthcare providers has progressed rapidly in terms of both the technology and the educational techniques used. However, there has been a lack of education and training in how this equipment can be used to educate healthcare practitioners or incorporated into existing educational programmes. The main goal of the modules in the Postgraduate Diploma in Healthcare Simulation and Patient Safety is to prepare the student to run a simulation centre and use simulation for research, improving patient safety, testing equipment and processes, and integrating simulation, through distance learning into institutional healthcare training, education and delivery systems.

Course Outline

The one year course is delivered as much as possible through distance learning online. This delivery method allows the student to study at a time that is convenient to them, no matter where they live. The modules are delivered using a combination of multi-media presentations, online discussion boards, and online tutorials. There will also be a need to attend our 4 days sim immersion interactive workshops which give the learner hands on experience and training in high fidelity simulation, task trainers, standardized patients, scenario generation, creation of virtual patient scenarios for e-learning and serious game design.

The course will be delivered in six sequential modules during the academic year.

Module 1.
An introduction to simulation and training in healthcare.

Module 2.
Simulation with manikin and task based trainers.

Module 3.
Standardised patients, virtual patients, and hybrid simulation.

Module 4.
Human factors and patient safety in simulation.

Module 5.
Uses of medical and healthcare simulation beyond education

Module 6.
Running an effective simulation-based education programme.

The course will be assessed by:

- Student participation and reflection on weekly discussion board activities.
- The completion of e-tivities, and one end of module assignment for each module.
- Participation, and reflection on, simulation-based teaching activities.

Cost*

5,000 Euro EEA learner
6,875 Euro non EEA learner

(*Subject to change)
Course Overview

Healthcare simulation is a range of activities that share a broad, similar purpose – to improve the safety, effectiveness, and efficiency of healthcare services. Simulation education is a bridge between classroom learning and real-life clinical experience. Over the past two decades the use of simulation through distance learning to train healthcare providers has progressed rapidly in terms of both the technology and the educational techniques used. However, there has been a lack of education and training in how this equipment can be used to educate healthcare practitioners or incorporated into existing educational programmes.

The main goal of the MSc. Healthcare Simulation and Patient Safety is to prepare the student to deliver healthcare simulation, run a healthcare simulation centre, and carry out research on or using healthcare simulation.

Course Outline

The course is delivered as much as possible online through distance learning. This delivery method allows the student to study at a time that is convenient to them, no matter where they live. The modules are delivered using multimedia presentations, online discussion boards, and online tutorials.

There will also be a need to attend our 4 days sim immersion interactive workshops which give the learner hands on experience and training in high fidelity simulation, task trainers, standardized patients, scenario generation, creation of virtual patient scenarios for e-learning and serious game design. They take place in the simulation centre located at the Irish Centre for Applied Patient Safety and Simulation (ICAPSS) at Galway University Hospital.

Modules 1 to 6 will be delivered during the first academic year. Modules 7 and 8 will be delivered during the second academic year of study.

Module 1. An introduction to simulation and training in healthcare.

Module 2. Simulation with manikin and task based trainers.

Module 3. Standardised patients, virtual patients, and hybrid simulation.


Module 5. Uses of medical and healthcare simulation beyond education.


The course will be assessed by:

- Student participation and reflection on weekly discussion board activities.
- Completion of module assignments. Completion of a research proposal and methodology paper.
- Completion of a 3,000 to 5,000 word simulation-focused research dissertation in the format of a peer-reviewed journal.

Cost:*

10,000 Euro EEA Learner (5,000 Euro per annum)
13,750 Euro Non EEA Learner (6,875 Euro per annum)

(*Subject to change)
WHAT SKILLS WILL I LEARN?

Completing a healthcare simulation and patient safety programme at the Irish Centre for Applied Patient Safety and Simulation (ICAPSS) at Galway University Hospital and NUI Galway will provide the learner with the knowledge and skills required to design and deliver simulation based educational programmes.

Numerous Benefits

Benefits of simulation in your curriculum:

- Advanced teaching and learning resources
- Improved performance in procedural skills
- Improved team performance
- Ability to recreate uncommon but high risk events
- Assessment at the “shows how” level
- Deliberate practice in a safe environment

What are the learning goals for each programme?

PDipSc. Healthcare Simulation and Patient Safety

Prepare the learner to run a simulation centre and use simulation for research, improving patient safety, testing equipment and processes, and integrating simulation into institutional healthcare training, education and delivery systems.

MSc. Healthcare Simulation and Patient Safety

Prepare the learner to deliver healthcare simulation, run a healthcare simulation centre, and carry out research on or using healthcare simulation.
Our vision is to be the centre of excellence for patient safety simulation based learning and research in healthcare.
WHO SHOULD APPLY FOR A HEALTHCARE SIMULATION COURSE?

Are you a healthcare professional who is interested in:
- Running simulation-based educational programmes?
- Using healthcare simulation for the purposes of research?
- Improving patient safety through testing teams, medical devices and/or processes?

If you are a doctor, nurse, health and social care specialist, (speech and language, pharmacy, physiotherapy, dietitian, social work) paramedic or have an interest in simulation technology, you should consider applying for one of our simulation programmes.

The course is distance learning and will be assessed by:
- Student participation and reflection on weekly discussion board activities related to the materials presented during the week of instruction.
- The completion of e-tivities, and one end of module assignment for each module. Participation, and reflection on, simulation-based teaching activities.
- Continual assessment throughout the year, and completion of a research dissertation/final project.
Our Mission is to improve patient safety and quality of care through research and its application in clinical practice.
Kiren Reddy, Specialist registrar in anaesthesia, Ireland.

“This course has encouraged me to re-evaluate how we deliver medical education and how we provide care to our patients. It has given me the tools to effect positive change in my workplace.”

Scott Mullin. Paramedic Program Coordinator, Medicine Hat, Alberta, Canada

“The program offers relevant skills from knowledgeable and experienced simulation champions!

Simulation has been a vital educational tool in my career and the NUI Galway Masters of Science Healthcare Simulation and Patient safety programme has enhanced my ability to teach students more effectively!

The ability to learn with students from various medical professions was extremely useful, an invaluable experience!”

Ms. Linda Ní Chianáin, University Lecturer, School of Nursing and Midwifery, NUI Galway, Ireland.

“An excellent inter-disciplinary course that I would recommend to any healthcare professional. It challenges your critical, analytical and creative side from examining current practice, developing scenarios to testing and modifying simulators. The course can provide you with the necessary skills and credibility to develop nursing and midwifery simulation further at clinical, undergraduate and postgraduate level thus enhancing patient safety.”

Kiren Reddy, Specialist registrar in anaesthesia, Ireland.

“This course has encouraged me to re-evaluate how we deliver medical education and how we provide care to our patients. It has given me the tools to effect positive change in my workplace.”

For more information visit:

https://www.simulationmasters.com/


http://www.nuigalway.ie/icapss/

PAC Code:

GYM77 (MSc. Healthcare Simulation and Patient Safety)
GYM76 (PDipSc. Healthcare Simulation and Patient Safety)
The Irish Centre for Applied Patient Safety and Simulation (ICAPSS) Centre is located on the grounds of Galway University Hospital. It offers programmes for all medical disciplines, paediatrics, and intensive care staff. A variety of skills training programmes are run from the simulation centre. Healthcare simulation encompasses medical simulation, simulation in healthcare, patient simulation, nursing simulation, surgical simulation, team-based training, crew resource management, task training to mastery, and clinical simulation. This course is delivered as much as possible through distance learning. Healthcare simulation is the modern day methodology for patient care. Simply put, healthcare simulation is the experiential learning environment in which we can learn from mistakes and feedback. Healthcare simulation is the safe learning environment where we can practice and feedback. It is a bridge between classroom learning and clinical simulation.


Career Opportunities. In the last decade, there have been large changes in undergraduate and postgraduate healthcare education, delivery of healthcare, and the working environment. These changes have led to a hybrid simulation training system. There will also be a need to attend 4 days of sim immersion interactive workshops which give the learner hands on experience and training in high fidelity simulation. The main goal of the MSc. Healthcare Simulation and Patient Safety is to prepare the student to run a healthcare simulation centre, and carry out research on or using healthcare simulation. The course will be assessed by: Student participation and reflection on weekly discussion board activities. The completion of e-tivities, and one written test on each module. Completion of a research proposal and methodology paper. Completion of a 3,000 to 5,000 word simulation-focused research dissertation in the format of a peer-reviewed journal.

Entry Requirements: An honours Bachelor degree at NFQ Level 8. Demonstrated interest in simulation. Demonstrated proficiency in English. Previous experience or academic qualification.