

RCSI Surgical Skills Catalogue 2020-21



Table of contents

About	3
Foreword	4
General surgery	5
Trauma & Orthopaedics	39
Ear, Nose, Throat	45
Plastics	59
Urology	67
Neurosurgery	75
Ophthalmology	81
Cardiothoracic	87
Oral Maxillofacial	93
Vascular	97
Obstetrics & Gynaecology	109
Future direction	111



The clinical simulation facility at RCSI SIM, opened in 2017, is the largest of its kind in Europe. Central to the coordination of activities in the centre are the RCSI SIM Team who are responsible for its management and setting up each practical skills station. Working closely with faculty, the team continuously strive to excel and innovate to ensure the best possible learning experience for healthcare professionals who come through its doors. This is typified in our mission statement, "to improve patient safety, education and research through experiential simulation-based learning techniques and tools".

Dear Colleagues

The challenges faced by 21st-century healthcare providers are significant, addressing the human, economic and social consequences of a global pandemic, responding to changing patient demographics with ageing societies and meeting evolving patient expectations. Training is a critical part of our response to equip people with the knowledge, skills and tools required to stay competitive and engaged. RCSI were innovators in simulation-based education, opening Ireland's first medical simulation centre in Beaumont Hospital in 2000. Over the following twenty years, simulation has allowed RCSI to optimize educational experiences for our learners integrating best practices in teaching and learning technologies.

Simulation enhances the range of clinical experiences for our learners to encourage, challenge, and motivate them to realize their full potential and enter healthcare practice competent and prepared. RCSI students and surgical trainees are able to hone critical competencies in a safe, highly immersive and feedback rich environment. Simulation provides the efficiency and effectiveness of high quality teaching and learning in health while minimising risks to patients, to learners and to the healthcare system overall.

RCSI's mission is to educate, nurture and discover for the benefit of human health. Simulation is an effective decision-making tool that provides understanding of the complexities involved in healthcare service provision. By integrating research with teaching, we aim to provide the model for practice development and health systems research to optimise patient care pathways.

RCSI SIM is home to a multidisciplinary team of clinical experts, technical experts and scientists who are driving innovations in immersive experiential learning and we are able to adapt to the evolving needs of learners and society worldwide. This guide to simulated technical skills details some of the surgical training models currently in use at our centre and we would be delighted to collaborate with interested groups to expand on this range.

Yours sincerely,

Dr. Claire Condron, MBA, PhD

Director of Simulation Education, RCSI

General Surgery

Breast

Breast biopsy

Low fidelity trainer used to give learners the experience of taking a breast biopsy. A segment of the sweet potato is cored into the centre of the conference pear, to simulate soft then hard tissue.

- Sweet potato
- Conference pear
- Manual and automated tru-cut biopsy needle
- Fruit corer







Further details:

This practical is a component of the CST Year 1 curriculum.

Learners are taught how to safely carry out this task and attempt the procedure with a hands on practical.

Expert feedback from faculty follows subsequent practice.

Multiple procedure trainer

Four procedures in one task trainer by Imperial College London. Learners can practice lymph node dissection, sentinel node biopsy, wide local excision and wire guided excision on this high fidelity silicone based task trainer.

- Silicone model
- Wire, tru-cut needle
- Instruments, scalpel, sutures



Further details:

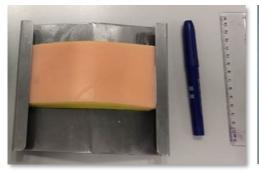
This advanced trainer is primarily used in general surgery SpR teaching.

Learners can carry out sequential breast surgery procedures, under expert supervision.

Nipple reconstruction

Learners can perform a nipple reconstruction using a Limbs & Things synthetic skin pad or on biological material.

- Synthetic skin pad
- Pork belly apron
- Instruments, scalpel and sutures
- Marking pen & ruler





Further details:

This practical is a component of the CST Year 3 & 4 general surgery curriculum.

Practical session follows a didactic session on how to safely carry out this task.

Expert feedback from faculty follows subsequent practice.

General Surgery

Colorectal

Appendectomy

Laparoscopic and open surgical models of this technique are represented, both by Delletec, USA.

- Lap box trainer, telepac monitor, camera head, telescope, light source.
- Instruments, sutures, scalpels & Echelon 2.5mm for lap technique
- Synthetic laparoscopic and open surgery variations of this model, with full anatomical representations





Further details:

This practical is a component of the CST Year 1 curriculum.

Learners are taught how to safely carry out this task and attempt the procedure with a hands on practical.

Expert feedback from faculty follows subsequent practice.

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