



Blended delivery of clinical and interpersonal skills teaching using Simulation

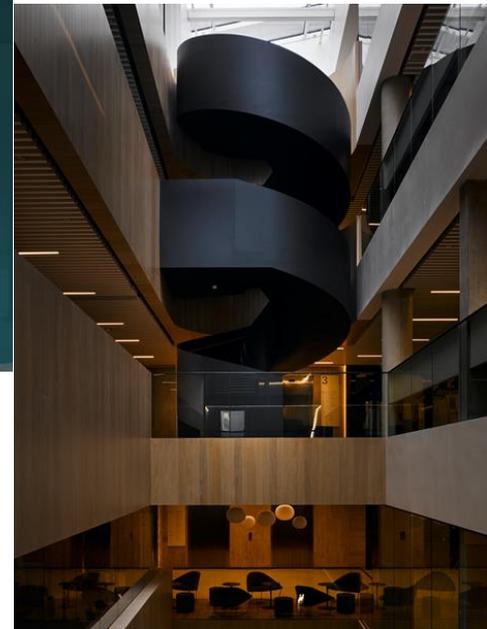
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RCSI DEVELOPING HEALTHCARE LEADERS WHO MAKE A DIFFERENCE WORLDWIDE



National Surgical and Clinical skills Centre, RCSI



Clinical/Technical Skills







Non Technical skills

Human factors programme:

- Teamwork
- Communication
- Professional interactions
- Decision making
- Error and recovery
- Crisis resource management
- Leadership
- Professionalism

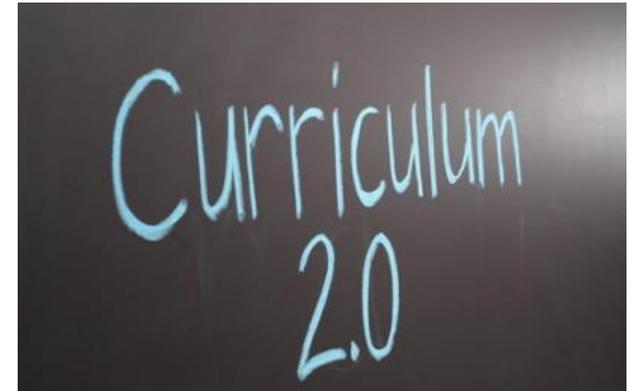


Hybrid Simulation

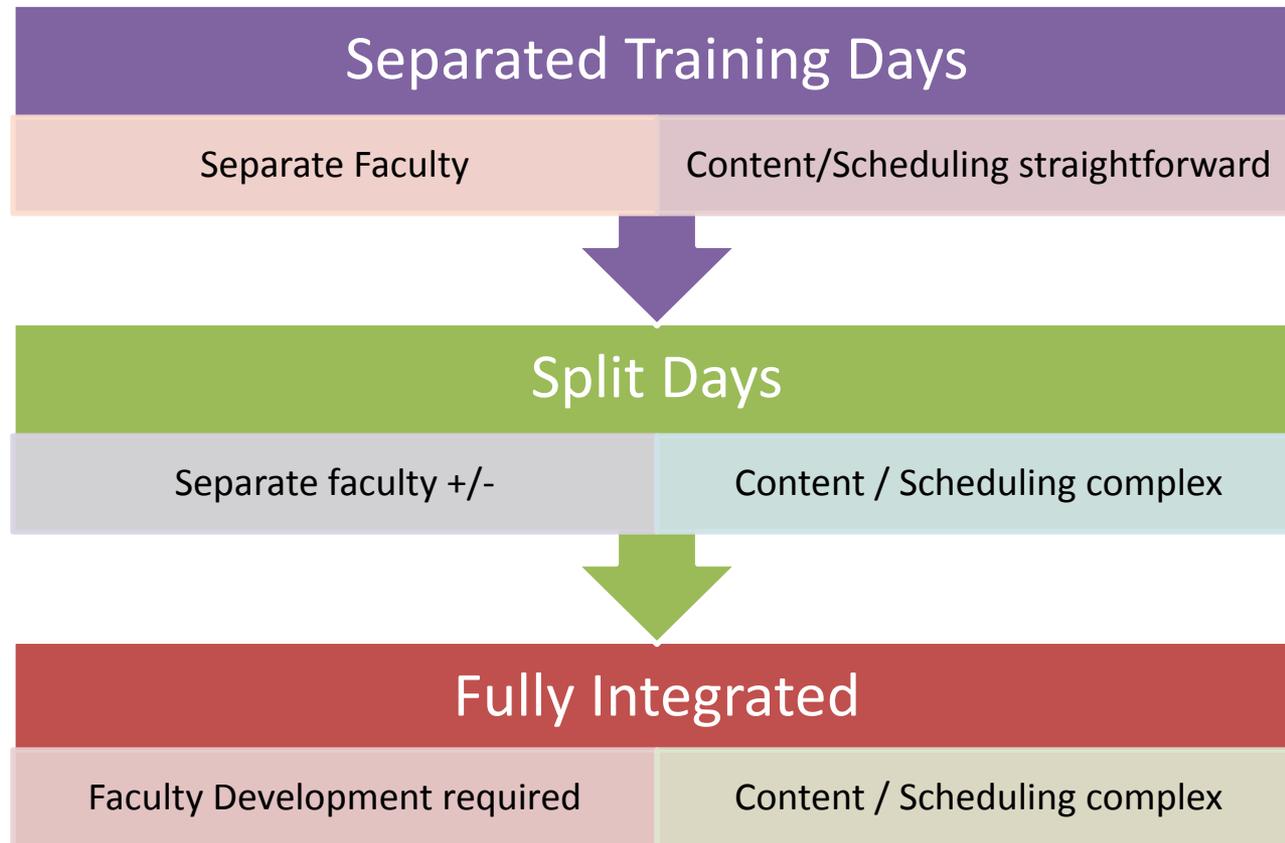


Evolution of an Integrated Curriculum

- Change in surgical training pathway
 - Early specialisation
- Attitudes to human factors training
 - changing
- Protected time available
- Efficiency of delivery
- Curriculum review for new facilities
 - Mannequins adjacent to skills areas
- ‘Unnatural’ separation of TS and NTS teaching



Model for Integrated Curriculum Development



Sample Programme

Course Summary	
Programme	Combined
Course title	CST2 M4 – ‘Trauma 3’
Participants	CST 2 / CSTEM 2 / Ophthalmology
Faculty	<ol style="list-style-type: none">1. Plastic Surgery Consultant - AM2. RCSI core faculty – Full day3. EM faculty – Full day4. RCSI HF Faculty – PM
Duration	9.30 am – 5pm (7.5 hours)
Location / facilities	Skills lab and Simulation area
Technical Support	1 full day technician with mannequin skills
Learning Objectives	<ol style="list-style-type: none">1. Discuss the correct management of maxillofacial trauma2. Demonstrate technique for lateral canthotomy3. Describe key early management principles for burns and upper limb trauma patients4. Demonstrate appropriate interdisciplinary team communication during acute clinical events.

Time / duration	Session title	Content	Delivery	Description/ Set up	Faculty
9.30-10.15	Maxillo-Facial Trauma	Severe facial fractures; airway compromise Peri-ocular trauma	Masterclass discussion style based on cases with detailed photos	Slides / case discussion	Plastics / EM
10.15-10.30	Ophth trauma practical		Practical: lat canthotomy for retrobulbar haematoma		All
10.30-10.45	COFFEE				
10.45-11.45	Upper limb injury: Bone and Soft tissue	Common Hand injuries Digit and limb avulsions Compartment syndrome Foreign body	Masterclass discussion style based on cases with detailed photos	Slides / case discussion	Plastics
11.45-12.45	Burns	Acute management; fluid resuscitation; dressings; escharotomy	Masterclass discussion style based on cases with detailed photos		Plastics / EM
12.45-13.45	LUNCH				
14.00-14.30	Intro to simulation learning environment	Safe learning env; basic assumption; demo of sim equipment.			
14.30-14.45	NTS scenario 1	Multi trauma case - burn	Mannequin simulation		EM / HF / Surgery
14.45 – 15.15	Scenario 1 debrief	Communication and resource allocation during high acuity medical events			EM / HF / Surgery
15.15-15.30	NTS scenario 2	Multi trauma case -distracting limb injury	Mannequin simulation	See tech requirements	EM / HF / Surgery
15.30-16.00	Scenario 2 debrief	Managing inter-professional teamwork			EM / HF / Surgery
16.00-16.15	NTS scenario 3	Trauma case w difficult diagnosis	Mannequin simulation	See tech requirements	EM / HF / Surgery
16.15-16.45	Scenario 3 debrief	CRM / Handover			EM / HF / Surgery
16.45-17.00	Summary and Evaluation forms		Electronic course feedback		All

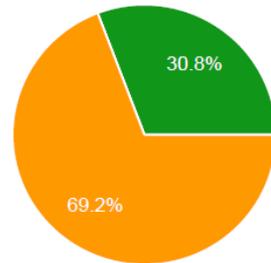
High Fidelity Scenarios



Participant evaluation

Summary

1. Overall, today's session was



Poor	0	0%
Fair	0	0%
Good	9	69.2%
Excellent	4	30.8%

2. What was the most valuable part of the session today?

- Simulations
- Simulation
- Simulation
- Practice

Challenges

- Content creation – multiple sources
- Participant ‘confusion’
- Faculty, faculty, faculty!
 - Regular faculty gaining experience of new curriculum
 - Stand alone Train the Trainers sessions
 - Beware of relying on specific individuals
- Assessment



Thank you

Questions?