Module Overview

Rationale	This module is designed to introduce you to details of operating theatre management protocols and the basic science principles upon which these are based. As a general surgeon you must understand theatre protocols and observe and employ standards of behaviour in yourself and others in the team.			
Learning Objectives	By the end of this module you should be able to: 1. Apply the principles of safety, for patients and staff 2. Recognise the principles of specimen handling and management of formalin spills 3. Recognise the principles of effective teamwork and how to apply them 4. Develop strategies to deal with negative and unhelpful behaviours 5. Recognise the elements of theatre functionality and layout 6. Select appropriate equipment for specific surgical procedures, based on an understanding of their properties and application 7. Demonstrate the principles of safe handling of operative equipment			
Topics and keywords Patient Safety Specimen Handling Theatre Team Theatre Design Operative Equipment		Keywords positioning, risks, nerve injuries specimen handling, formalin spills teamwork, surgical assisting design, standard theatre, recovery energy sources, instrumentation, tissue approximation, haemostasis agents		
Recommended Further Reading	Decommended Deading		Learning Objective 1	

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Recommended Further Reading	Recommended Reading		
	Crossley GH, Poole JE, Rozner MA, Asirvatham SJ, Cheng A, Chung MK, et al. (2011). The Heart Rhythm Society (HRS) / American Society of Anaesthesiologists (ASA) Expert Consensus Statement on the Perioperative Management of Patients with Implantable Defibrillators, Pacemakers and Arrhythmia Monitors: Facilities and Patient Management: Executive Summary. <i>Heart Rhythm</i> , 8(7): doi:10.1016/j.hrthm.2011.05.010	7	
	Di Palma, C. (2004). Power at work: navigating hierarchies, teamwork and webs. J of Med Humanities, 25(4): 291-308.	3, 4	
	Harsoor, S.S. & Bala Bhaskar, S (2007). Designing an Ideal Operating Room Complex, <i>Indian Journal of Anaesthesia</i> , 51(3) 193-199 http://www.ijaweb.org/temp/IndianJAnaesth513193-7962597_220705.pdf	5	
	Mazzocco, K. et al (2009). Surgical team behaviors and patient outcomes. The American Journal of Surgery, 197: 678–685.	3, 4	
	Medical Council of New Zealand (MCNZ). Best Health Outcomes for Māori: Practice Implications https://www.mcnz.org.nz/assets/News-and-Publications/Statements/best-health-maoricomplete.pdf	1,2	
	Medical Council of New Zealand (MCNZ). Statement on best practices when providing care to Māori patients & their Whānau https://www.mcnz.org.nz/assets/News-and-Publications/Statements/Statement-on-best-practices-when-providing-care-to-Maori-patients-and-their-whanau.pdf	1,2	
	Medtronic. Principals in Electrosurgery. https://www.asit.org/assets/documents/Prinicpals_in_electrosurgery.pdf	7	
	Queensland Department of Health (2017). Guideline for the management of occupational exposure to blood and body fluids. health.qld.gov.au/qhpolicy/docs/gdl/qh-gdl-321-8.pdf	1, 2	
	RACS. Bullying, Discrimination and Sexual Harassment: Fact Sheet https://www.surgeons.org/media/25495730/2017-08-22_gdl_fes-crm-003_unacceptable_behaviours_factsheet.pdf	3, 4	
	RACS. Code of Conduct. https://www.surgeons.org/media/24167054/2016-04-29_pol_fes-pst-020_code_of_conduct.pdf	3, 4	
	RACS. Discrimination, Bullying and Sexual Harassment. https://www.surgeons.org/media/25155360/2017-05-25_pol_rel-gov-028_discrimination_bullying_and_sexual_harassment.pdf	3,4	
	RACS. eLearning courses and resources: Operating with respect. https://www.surgeons.org/for-health-professionals/register-courses-events/skills-training-courses/owr/	3, 4	
	Royal College of Pathologists of Australia (2016). Fixation of Tissues. https://www.rcpa.edu.au/Library/College-Policies/Guidelines/Fixation-of-Tissues	2	
	SAGES Manual on the Fundamental Use of Surgical Energy (FUSE). Feldman L, Fuchshuber P, Jones DB (Eds). 2012. http://www.springer.com/978-1-4614-2073-6	7	

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Recommended Further Reading	Recommended Reading			
	Sexton, J.B. et al (2006). Teamwork in the operating room: frontline perspectives among hospitals and operating room personnel. Anesthesiology, 105(5): 877-84			
	The Royal Australasian College of Surgeons, Robert Davies Fundamental Skills for Surgery. 3rd edition, McGraw-Hill Medical: Melbourne, 2013.			
	The Royal College of Pathologists of Australasia (2016). Specimen Labelling at Point of Collection. https://www.rcpa.edu.au/getattachment/6bf47a5a-4838-4e41-ba27-eb3284e84a2f/Specimen-Labelling-at-Point-of-Collection.aspx			
	The Royal College of Pathologists of Australasia (2016). Surgical Specimen Cut Up. https://www.rcpa.edu.au/getattachment/6bccad73-3c6b-4baa-b320-dc2c3a8ce843/Surgical-Specimen-Cut-Up.aspx			
	Tikanga Māori: A Guide for Health Care Workers (2017). Capital & Coast District Health Board: Wellington. https://www.ccdhb.org.nz/our-services/a-to-z-of-our-services/maori-health/43875-tikanga-maori-web.pdf			
	Washington, S.J., and Smurthwaite, G.J. (2009). Positioning the surgical patient. <i>Anaesthesia and Intensive Care Medicine</i> , 10(10): 476-479.			
	World Health Organisation (WHO) (2009). WHO Surgical Safety Checklist. who.int/patientsafety/safesurgery/checklist/en/	1		
Prerequisites	nees are encouraged to complete the RACS ASSET Course, which complements much of the material in this module. RACS ASSET Course is a mandatory requirement of the Surgical Education & Training (SET) Program in General Surgery.			
How this module will be assessed	The e-learning module comprises learning activities and opportunities for Formative Assessment, with feedback. The Summative Assessment comprises twenty (20) Type A, Type X, and Type R multiple choice questions.			

Learning Activities & Formative Assessment

Cognitive level	Learning Objective	Module Topic	Learning Activity	Formative Assessment
Apply	Apply the principles of safety, for patients and staff	Patient Safety	After reading about safe and unsafe patient positioning, cultural considerations, and mechanisms of nerve injury, the learner will undertake a matching exercise identifying consequential mechanisms of injury and nerve injury risks for various patient positioning scenarios. Learners will be able to identify safe positioning of a patient's limbs during general anaesthesia, based on indicators learnt in the module.	Learners will be able to identify corresponding nerve injuries for incorrect patient positioning scenarios, based on indicators learnt in the module.
Analyse	Recognise the principles of specimen handling and management of formalin spills	Specimen Handling	After reading about specimen handling, cultural considerations, formalin spills, and splash management, learners will identify appropriate scenarios for the use of formalin, to demonstrate knowledge of specimen handling.	Learners will identify appropriate specimen handling, based on indicators learnt in the module.
Analyse	Recognise the principles of effective teamwork and how to apply them		After reading about teamwork concepts and fundamentals, learners will reflect on their most recent experience in theatre and rate the teamwork.	Learners will be able to identify elements of teamwork, based on indicators learnt in the module.
Evaluate	Develop strategies to deal with negative and unhelpful behaviours	Theatre Team	After reading about assertiveness and avoidance of negative behaviours, the learner will undertake a matching exercise identifying helpful and unhelpful behaviours. Learners will be able to identify examples of appropriate teamwork, based on indicators learnt in the module.	
Analyse	Recognise the elements of theatre functionality and layout	Theatre Design	After reading about design of the standard theatre, theatre complex, and theatre zone requirements, the learner will undertake an exercise sorting areas and requirements into their respective Zones, to demonstrate knowledge of elements of theatre functionality and layout. Learners will be able to identify areas that are part of the clean zone, based on indicators learnt in the module.	Learners will be able to identify the consequences of a failure in laminar flow, based on indicators learnt in the module.

Learning Activities & Formative Assessment

Cognitive level	Learning Objective	Module Topic	Learning Activity	Formative Assessment
Evaluate	Select appropriate equipment for specific surgical procedures, based on an understanding of their properties and application	Operative Equipment	After reading about commonly used instruments in surgery, surgical haemostats, sealants, and adhesives, the learner will undertake a matching exercise identifying appropriate scenarios for the use of wound glue.	Learners will be able to identify appropriate electrosurgery mechanisms for use in various scenarios, based on indicators learnt in the module.
Apply	Demonstrate the principles of safe handling of operative equipment		Learners will be able to identify appropriate use of instruments for tissue dissection and transection, based on principles learnt in the module.	