

**Surgical Foundations Lecture Curriculum
2025-2026 Academic Year
G. Paloschi Conference Room Burr 2**

Date	Time	Topics	EPA/ACS module	Facilitator	SF Competencies
Wed.Sept.10 NMB -2nd Flr	12:30- 4:30	Bootcamp and Trauma OSCE MANDATORY	D2, D4, D5, D7 & F3	Drs. Giles, Jones & Kassam	
Wed.Sept.24 Paloschi Rm	1:00 - 2:30	Research Ethics (Zoom)		Meera Sidhu	C1.0-5.0/HA1.0-2.0/P 1.0-4.0
	2:30 – 4:00	In House Practice Exam		on own	
Wed.Oct.1 Paloschi Rm	1:00-2:30	FOUNDATIONAL ASPECT OF SURGICAL PROCEDURES - lecture content - patient positioning - common complications - breaks in sterility - protocols when sterility breached - exposures - needle sticks - mucosal exposures - prophylaxis - antibiotic, antithrombotic, immunizations - blood borne pathogens - HIV, HCV, HBV - management of surgical specimens - for malignancy, infection - fresh vs. frozen, solutions for storage and transport		Dr. Teng	ME 1.3.14.2, 1.3.16.1-6, 3.4.20, 5.1
	2:30 - 4:00	Trauma Cases		On Own	
Wed. Oct.15 Skills Rm	12:30- 2:30	Skills Lab Bowel Anastomosis		Dr. Winthrop	ME 3.4.14,17,.18
	2:30 - 4:00	Skills Lab Vascular Anastomosis		Dr. Zelt	ME 3.4.14,17,.18

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Wed.Oct. 22 Paloschi Rm	1:00-2:30	PATIENT EDUCATION AND INFORMED CONSENT • Elements required for informed consent • Assessing decision making capacity - o surrogate decision makers • legal implications • proper documentation • emergency consent / implied consent • cultural awareness / implications • Language barriers - o Strategies and potential concerns with using translators, family members, etc. • managing conflict of interest - o between physician and patient - o between family and patient • patient scenarios - o Dealing with difficult cases such as language barriers, JW patient, Conflict of interest, cultural differences.		Dr. Jones	ME 3.1,2,3, 5.2 Com 1.0-5.0 C 1.0-3.0
	2:30 - 4:00	THE MAKING OF A NEW SURGEON • An emphasis on Non-Technical Surgical Skills		CMPPA	P 3.0
Wed.Oct. 29 Don Gordon	8:00-3:30	PGME - Research Gateway Register Here by October 1, 2025		All PGY1's	
Wed.Nov.12 Paloschi Rm	1:00 – 2:30	INITIAL MANAGEMENT OF THE CRITICALLY ILL PATIENT • Basic approach to the critically ill patient - o ABCs - o clinical assessment - o seeking assistance - o functioning within a team - o triaging importance of tests/procedures - o Developing and narrowing down your differential diarrhea • Common labs to order and their interpretation • Imaging to order and interpretation • Patient scenarios		Dr. Rocca	ME 1.3.2, 1.3.7, 1.3.18.1-4, 10 (4.1.1.2.1-9)
	2:30 - 4:00	RESIDENT WELLNESS SERIES - RESILIENCE		Dr. Martou	

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Wed. Nov. 19	1:30-3:30	Quality Improvement/Patient Safety Academic Half-Day Choosing Wisely/Resource Utilization		Dr. Genevieve Digby	
Wed. Nov. 26 Paloschi Rm	1:00 -2:30	Financial Risk 101 and PARO benefits (OMA) (Zoom)		Shawnee Balfour	L 4.0
	2:30 – 4:00	PALLIATIVE CARE / END OF LIFE - Palliative care principles - Drugs and dosing - Options for in hospital / home care - Physician-assisted suicide - Legal and ethical issues		Dr. Frank	ME 2.3 Com 1.0-1.6, 2.0-4.0 C 3.0
Wed. Dec. 10 Paloschi Rm	1:00 – 3:00	ASSESSING D PERFORMING RISK OPTIMIZATION IN PRE-OP PATIENTS Session 1 - Elements of clinical assessment for all surgical procedures - History and physical - Pre-op labs and imaging - Recognizing need for pre-operative consults - Medicine, anesthesia - Post-op care considerations - need for ICU, step-down - Antibiotic prophylaxis - standard for specific procedures - alternatives (ex for allergy) ASSESSING AND PERFORMING RISK OPTIMIZATION IN PRE-OP PATIENTS Session 2 - Concerns with specific populations - Pregnancy - physiologic changes - Elderly - Immunocompromised – - Morbid obesity - DM - Pediatrics - Smokers - smoking cessation, post-op nicotine withdraws		Dr. Leitch	ME 1.3.2, 1.3.7, 1.3.10. 1.3.17.4, 1.3.18 &19

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		- o Alcoholics - recognizing at risk for withdrawal and measures for post-op care • Delirium - Importance of problem, pre-op at risk populations - o measures for post-op care - o Patient scenarios			
	3:00- 4:00	RESIDENT WELLNESS SERIES - JOY OF SURGERY		Dr. Farooq	
Wed.Dec.17	1:00 - 4:00	RESIDENT WELLNESS			
Wed. Jan. 7	1:00 - 2:30	FLUIDS IN THE SURGICAL PATIENT • Fluid compartments • Body water compartments • Osmotic and volume regulation • Regulation of acid / base	10: Fluid & Electrolytes	Dr. Robertson	ME 1.3.17.3, 1.3.18
Paloschi Rm	2:30 - 4:00	RESIDENT WELLNESS SERIES - PEER SUPPORT		Dr. Van Houwelingen	P 4.0
Wed.Jan.14	1:00 - 2:30	TIME MANAGEMENT • Perform appropriately timed clinical assessments with recommendations that are presented in an organized manner • Recognize and respond to the complexity, uncertainty, and ambiguity inherent in surgical practice		Dr. Quirt(?)	ME 1.1, 1.4-6
Paloschi Rm	2:30 - 4:00	MORBID OBESITY		Dr. Zevin	ME 2.4.1.9
Wed.Jan.28	1:00 - 2:30	HEMOSTASIS • intrinsic / extrinsic pathways • hyper / hypocoaguable states • platelet function • screening for bleeding diathesis • anticoagulants - o plavix, ticagrelor - o heparin, warfarin, NOACs		Dr. Leung	ME 1.3.18.1,2, 2.4.1.13
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	2:30 - 4:00	SURGERY AND THE PREGNANCY		OB/GYN	ME 2.4.1.10
Wed. Feb. 4 Paloschi Rm	1:00-3:00	In-House Practice Exam		On Own	
Wed. Feb. 18	1:30-3:30	Quality Improvement/Patient Safety Academic Half-Day Quality Improvement Methodology		Dr. Amelia Wilkinson	
Wed. Feb. 26 Paloschi Rm	1:00 – 2:30	THE ENDOCRINE SYSTEM AND THE SURGICAL PATIENT - Stress response - DM - Other (pheo, stress steroid dosing)		Dr. Walker	ME 1.3.3, 2.4.1.1, 2.4.1.4
	2:30 – 4:00	PANCREAS - Anatomy / physiology review - Acute and chronic pancreatitis - Benign and malignant lesions		Dr. Bennett	ME 1.3.18.4,5 2.4.1.4.2
Wed. Mar. 11 Paloschi Rm	1:00-2:30	INFECTION - BASICS / REVIEW - Review host defences - SIRS, septic shock - common bacterial types - MRSA, VRE, C diff - community vs. hospital acquired - antibiotic coverage		Dr. Perez Patrigeon	ME 1.3.4,14.1, 16.3,4,18.12 2.4.3, 4.1.1.2.7
	2:30-4:00	POST-OPERATIVE SURGICAL INFECTIONS - Review common (respiratory, UTI, etc.) - vascular / hematogenous - surgical site (superficial and deep) necrotizing fasciitis			
Wed. Mar. 18 Paloschi Rm	1:00-3:00	GI DISEASE AND THE SURGICAL PATIENT - Pathophysiology, diagnosis, treatment of: - Stress gastritis. GI bleeding, Ileus - Screening practices - Malignancy	7: Gastrointestinal Conditions	Dr. Snow	ME 1.3.18.5, 4.1.1.2.3
	3:00 – 4:00	VASCULAR DISEASE (pathophysiology and management) Compartment syndrome	12:Vascular	Dr.	ME 4.1.1.2.6, 4.1.1.2.8.2

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		DVT, Arterial insufficiency/ischemia. AAA, aortic dissection			
Wed. Mar. 25	1:00-2:30	BURNS - Burn resuscitation fluids - Parkland formula (rule of 9s) - Burn depth % BSA burns - Risk/prognosis - Nutritional requirements - Infection risks/management - Inhalation injury	8: Wound Management	Dr. Martou	ME 2.4.1.1
Paloschi Rm	2:30-4:00	WOUND HEALING - Phases of normal/abnormal/delayed wound healing - Healing in specific tissues - Factors that alter/impair wound healing - Patient factors (obesity, DM, Immunosuppressive,...) - Management strategies - Pressure sores (risk factors, prevention, management)		Dr. Martou	ME 1.3.17.1
Wed. Apr. 8	1:00 – 2:30	RENAL DISEASE AND THE SURGICAL PATIENT - Basics of renal physiology - Pathophysiology, diagnosis, treatment of - Renal failure (pre/renal/post) - SIADH - DI	3:post-op oliguria	Dr. Holland	ME 1.3.18.6, 2.4.1.12, 4.1.1.2.5
Paloschi Rm	2:30-4:00	TRANSPLANT - autograft, allograft, xenograft - graft rejection (hyperacute, acute, chronic) - principles of compatibility and screening		Dr. Skinner	ME 1.3.15, 2.4.1.5, HE 2.3.1
Wed. Apr. 15	1:00 – 3:00	ONCOLOGY - Purpose and basis of staging - Basic principles of neoplastic transformation including tumor growth and spread - Pathology requirements for appropriate assessments		Dr. Robinson	ME 1.3.12
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		• Definition of common pathological terms such as but not limited to neoplasia, malignancy, dysplasia, metaplasia and atypia • Genetics of neoplasia • Genetics of families at risk • Role of environmental carcinogens • Paraneoplastic syndromes • Principles of multi-modality therapy			
	3:00-4:00	STATISTICS		Dr. Doiron	L 1.3, S 3.0
Wed.Apr.22	1:00 – 2:30	Non-Accidental Trauma • Learn to recognize common trauma & non-trauma related pediatric injuries, particularly as it pertains to issues of child maltreatment, including physical, sexual, emotional abuse and neglect. • Participants will gain insight into the available supports, including the Child Advocacy and Assessment Program (CAAP)		Dr. Rakheja	HA 1.3
Paloschi Rm	2:30 – 4:00	RADIOLOGY • Chest (Cxr, CT) ◦ Basics ◦ Case Scenarios • Abdo (Axr, CT) • Basics and Case Scenarios		Dr. Giles	ME 2.2
April 29	1:00 - 2:30	NUTRITIONAL MANAGEMENT • Basal metabolic requirements (protein, CHO, lipid) • Starvation • Refeeding • Enteric and parenteral feeding • Risks/complications TPN	9: Nutritional Support	Margot Lemieux	ME 1.3.3, 1.3.16, 2.4.18
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Wed. May 6	1:00- 4:00	Small Group Learning - PGY2 Exam experience		PGY2	
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Wed. May 13	1:30-3:30	Quality Improvement/Patient Safety Academic Half-Day • <i>Root Cause Analysis and Patient Safety Incident Reporting</i>		Dr. Yuchen Li	
Wed. May 20 Paloschi Rm	1:00 – 2:30	TRANSFUSION MEDICINE • Components and products (RBC, plasma, platelets, fibrinogen concentrates, PCC, and albumin...) ◦ When to order ◦ How to order ◦ How to administer • Risks / complications ◦ How to obtain written informed consent ◦ How to recognize a transfusion reaction ◦ How to report a transfusion reaction • Use of Thromboembolic prophylaxis		Dr. Jeannie Callum	ME 1.3.5.8, 1.3.10, 2.4.1.3, 2.4.3.2, 4.1.1.1.11
	2:30-4:00	PULMONARY PHYSIOLOGY AND THE SURGICAL PATIENT • Basics of pulmonary physiology • Pathophysiology / diagnosis/treatment of common pulmonary complications ◦ COPD ◦ PE / fat embolism ◦ Pneumonia (hospital and community acquired) ◦ Pneumothorax ◦ Effusion		Dr. Liak	ME 1.3.18.10, 2.2.2.1, 2.4.1.11, 4.1.1.2.4
Wed. May 27 Paloschi Rm	1:00 – 2:30	SHOCK • SIRS • Types of shock ◦ Circulatory ◦ Distributive ◦ Cardiogenic ◦ Hypovolemia ◦ Obstructive • Rivers Trial Algorithm • Multiple organ dysfunction		Dr. Mewhort	ME 1.3.18.1, 2.4.1.13

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	2:30- 4:00	CARDIAC PHYSIOLOGY AND THE SURGICAL PATIENT • Basics of cardiac physiology • Pathophysiology, diagnosis, treatment of - o CAD, CHF - o Valvular heart disease - o Cardiomyopathy - o Cardiac arrhythmias - o Cardiac tamponade • ECMO		Dr. Mewhort	ME 1.3.18.3, 2.4.1.2, 4.1.1.2.2
Wed. June 3 Paloschi Rm	1:00-3:00	Quality Improvement Project - Ergonomics in the OR		Dr. Melanie Trudeau	
Wed. June 10 *this is tentative*	1:00-4:00	Surgical Foundations Practice Exam - Mandatory		Dietary 2 Classroom A	
Wed. June 17 Paloschi Rm	1:00-2:30	LIVER • Review anatomy / function • Acute liver failure • Chronic liver failure - o Cirrhosis - o Ascites, varices • Benign lesions • HCC • Metastatic disease		Dr. Jalink	ME 2.4.1.7
	2:30-4:00	GALLBLADDER AND EXTRA-HEPATIC BILIARY SYSTEM • Anatomy / physiology review • Gallstones, cholecystitis, choledocholithiasis, cholangitis, biliary pancreatitis • Malignancy		Dr. Jalink	2.4.1.7
Wed. June 24	1:00 -4:00	Resident Retreat/Wellness/Program Debrief Location: TBD		Drs. ? Jones and Kim	

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Surgical Foundations Zoom link;

<https://queensu.zoom.us/j/99338294558?pwd=NXJpTTZqZ2RVM2tBL0h2QVRMMTRuQT09>

Meeting ID: 993 3829 4558

Passcode: 775252