

**Surgical Foundations Lecture Curriculum
2023-2024 Academic Year
G. Paloschi Conference Room Burr 2**

Date	Time	Topics	EPA/ACS module	Facilitator
Wednesday, Sept. 13 SL206A	12:30- 4:30	Bootcamp and Trauma OSCE MANDATORY	D2, D4, D5, D7 & F3	Drs. Giles, Jones & Kassam
Wednesday, Sept. 27 Paloschi Rm	1:00-2:30pm	FLUIDS IN THE SURGICAL PATIENT • Fluid compartments • Body water compartments • Osmotic and volume regulation • Regulation of acid / base	10: Fluid & Electrolytes	Dr. Winthrop
	2:30-4:00pm	Research Ethics Module – resident complete on their own		Residents on Own
Wednesday, Oct. 4 Paloschi Rm	1:00 – 3:30pm	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. Diaz Dileria
Wednesday, Oct. 18 NMB-206	12:30 – 2:30pm	Skills Lab • Bowel Anastomosis		Dr. Szasz
	2:30 – 4:30pm	Skills Lab • Vascular Anastomosis		Dr. Yacob

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Wednesday, Nov. 1 Paloschi Rm	1:00- 2:30pm	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 diagnosis • Common labs to order and their interpretation • Imaging to order and interpretation • Patient scenarios		Dr. Rocca
	2:30-4:00pm	ELECTROLYTES IN THE SURGICAL PATIENT • Basic metabolism • Na, K, Mg, PO₄, Ca • Complications of too high / low • Replacement • Considerations (amount / rate of replacement)	10: Fluid & Electrolytes	Dr. Winthrop
Wednesday, Nov. 15 Paloschi Rm	1:00 -2:30pm	NUTRITIONAL MANAGEMENT • Basal metabolic requirements (protein, CHO, lipid) • Starvation • Refeeding • Enteric and parenteral feeding • Risks/complications TPN	9: Nutritional Support	Dr. Winthrop
	3:00 – 4:00pm	CONSULT SYSTEM ANESTHESIA		Dr. Leitch

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Wednesday, Nov. 29 Paloschi Rm	1:00 – 3:00pm	PATIENT EDUCATION AND INFORMED CONSENT • Elements required for informed consent • Assessing decision making capacity ◦ surrogate decision makers • legal implications • proper documentation • emergency consent / implied consent • cultural awareness / implications • Language barriers ◦ Strategies and potential concerns with using translators, family members, etc. • managing conflict of interest ◦ between physician and patient ◦ between family and patient • patient scenarios ◦ Dealing with difficult cases such as language barriers, JW patient, Conflict of interest, cultural differences.		Dr. Engel
	3:00- 4:00pm	LAWSUITS • Common Causes		Dr. Martou
Wednesday, Dec. 13 Paloschi Rm	1:00 – 2:30pm	THE ENDOCRINE SYSTEM AND THE SURGICAL PATIENT • Stress response • DM • Thyroid, parathyroid • Other (pheo, stress steroid dosing)		Dr. Walker
	2:30 – 4:00pm	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. Winthrop

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Wednesday, Jan. 3	1:00 - 2:30pm	INFECTION - BASICS / REVIEW • Review host defences • SIRS, septic shock • common bacterial types • MRSA, VRE, C diff • community vs. hospital acquired • antibiotic coverage		Dr. Martou
	2:30 – 4:00pm	POST-OPERATIVE SURGICAL INFECTIONS • Review common (respiratory, UTI, etc.) • vascular / hematogenous • surgical site (superficial and deep) necrotizing fasciitis		
Wednesday, Jan. 17	1:00 – 1:30pm	Mandatory New Program Director Briefing (In-Person)		Dr. Yacob
	1:30 – 3:00pm	MANAGING UNCOMPLICATED POST-OP PATIENTS • Discharging the patient • organizing and implementing a post-op care plan • communication to patient and family - o anticipated course, post-op restrictions, things for concern, follow-up plans, etc • contents and distribution of discharge summary • transfer to other facilities - o ex. SMOL, other hospitals • follow-up imaging and labs • discharge resources - o home care - o educational resources for patients and families - o allied health care - o physio, OT, dietary, their scope and role in the health care team		Dr. Frank

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	3:00-4:00pm	PALLIATIVE CARE / END OF LIFE • Palliative care principles ◦ Drugs and dosing • Options for in hospital / home care • Physician-assisted suicide • Legal and ethical issues		
Wednesday, Jan. 31 Paloschi Rm	1:00 – 2:30pm	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)	8: Wound Management	Dr. Martou
	2:30 – 4:00pm	Non-Accidental Trauma (New to 2023-2024) • 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)		Postponed
Wednesday, Feb. 7 Paloschi Rm	1:00 – 2:30pm	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		Dr. Borschneck
	2:30 - 4:00pm	Fatigue Risk Management		Dr. Jones

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Wednesday, Feb. 21 Paloschi Rm	1:00 - 2:30pm	ASSESSING AND 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)		Dr. Bougie
	2:30 – 4:00pm	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 ◦ Alcoholics - recognizing at risk for withdrawal and measures for post-op care • Delirium - Importance of problem, pre-op at risk populations ◦ measures for post-op care ◦ Patient scenarios		Dr. Bougie
Wednesday, March 6 Paloschi Rm	1:00-3:00pm	GI DISEASE AND THE SURGICAL PATIENT • Pathophysiology, diagnosis, treatment of: ◦ Stress gastritis. GI bleeding, Ileus ◦ Screening practices ◦ Malignancy	7: Gastrointestinal Conditions	Dr. Patel
	3:00 – 4:00pm	VASCULAR DISEASE (pathophysiology and management) • Compartment syndrome	12:Vascular	Dr. Yacob

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		DVT, Arterial insufficiency/ischemia. AAA, aortic dissection		
Wednesday March 20	1:00 – 2:30pm	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
Paloschi Rm	3:00 – 4:00pm	TRANSPLANT - autograft, allograft, xenograft - graft rejection (hyperacute, acute, chronic) - principles of compatibility and screening		Dr. Skinner
Wednesday, Apr. 3	1:00pm – 3:00pm	ONCOLOGY - Purpose and basis of staging - Basic principles of neoplastic transformation including tumor growth and spread - Pathology requirements for appropriate assessments - 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		Dr. Robinson
	3:00-4:00pm	STATISTICS		Dr. Doiron
Wed, April 10	ALL DAY	Indigenous Health Day (IHD): PGY1's		
Wednesday, April 17	1:00 – 2:30pm	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
Paloschi Rm				

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	2:30 – 4:00pm	RADIOLOGY • Chest (Cxr, CT) ◦ Basics ◦ Case Scenarios • Abdo (Axr, CT) • Basics and Case Scenarios		Dr. Giles
Wednesday, May 1 Burr 2 Paloschi Rm	1:00 – 2:30pm	HEMOSTASIS • intrinsic / extrinsic pathways • hyper / hypocoaguable states • platelet function • screening for bleeding diathesis • anticoagulants ◦ plavix, ticagrelor ◦ heparin, warfarin, NOACs		Dr. Leung
	2:30-4:00pm	PANCREAS • Anatomy / physiology review • Acute and chronic pancreatitis • Benign and malignant lesions		Dr. Bennett
Wednesday, May 15 Paloschi Rm	1:00 – 2:30pm	SHOCK • SIRS • Types of shock ◦ Circulatory ◦ Distributive ◦ Cardiogenic ◦ Hypovolemia ◦ Obstructive • Rivers Trial Algorithm • Multiple organ dysfunction		Dr. Mewhort

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	2:30- 4:00pm	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
Wednesday, May 29	1:00 – 4:00pm	Surgical Foundations Practice Exam - Mandatory		Douglas Library
Wednesday, June 5 Paloschi Rm	1:00 – 2:30pm	LIVER • Review anatomy / function • Acute liver failure • Chronic liver failure - o Cirrhosis - o Ascites, varices • Benign lesions • HCC • Metastatic disease		Dr. Jalink
	2:30 – 4:00pm	GALLBLADDER AND EXTRA-HEPATIC BILIARY SYSTEM • Anatomy / physiology review • Gallstones, cholecystitis, choledocholithiasis, cholangitis, biliary pancreatitis • Malignancy		Dr. Jalink
Wednesday, June 19	1:00-4:00pm	Resident Retreat/Wellness/Program Debrief Location: Lone Star Patio		Drs. Yacob, Jones & Kim
Wednesday, June 26 Paloschi Rm	1:00 -4:00pm	Practice Exam Review		Dr. Jones

Surgical Foundations Zoom link;

<https://queensu.zoom.us/j/98880170252?pwd=M1dCOG9VUzM3Zy9pbzJFV20wWkg1QT09>

Meeting ID: 988 8017 0252

Passcode: 603805