

Surgical Foundations Lecture Curriculum 2020-2021 Academic Year G. Paloschi Conference Room Burr 2

<u>Date</u>	<u>Time</u>	<u>Topics</u>	<u>EPA</u>	<u>Facilitator</u>
Wednesday, Sept 9 th Paloschi Rm	1:00-2:30pm	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. Borschneck
	2:30-4:00pm	FLUIDS IN THE SURGICAL PATIENT • Fluid compartments • Body water compartments • Osmotic and volume regulation • Regulation of acid / base		Dr. Winthrop
Wednesday, Sept. 23 rd	1:00 – 2:30pm	Skills Lab • Vascular Anastomosis		Dr. Yacob
SL206A	2:30 – 4:00pm	Skills Lab • Bowel Anastomosis		Dr. Patel
Wednesday, Oct. 14 th Paloschi Rm	1:00 – 3:00pm	INITIAL MANAGEMENT OF THE CRITICALLY ILL PATIENT Basic approach to the critically ill patient ABCS clinical assessment seeking assistance functioning within a team triaging importance of tests/procedures Developing and narrowing down your differential diagnosis Common labs to order and their interpretation Imaging to order and interpretation Patient scenarios	F1	Dr. Bridge



Wednesday,	1:00 – 2:30pm	ELECTROLYTES IN THE SURGICAL PATIENT		
Oct. 21 st	2.55	Basic metabolism		
30.21		Na, K, Mg, PO4, Ca		
Zoom		Complications of too high / low		Dr. Winthrop
		Replacement		
		Considerations (amount / rate of replacement)		
Wednesday,	1:00 – 3:30pm	FOUNDATIONAL ASPECT OF SURGICAL PROCEDURES		
Nov. 4 th	1.00 - 5.50pm			
NOV. 4		lecture content patient positioning common complications		
		o patient positioning - common complications		
Paloschi Rm		breaks in sterility		
raiosciii Niii		o protocols when sterility breeched		
		exposures		
		o needle sticks	F5	Dr. Hamiou
		o mucosal exposures	F5	Dr. Harvey
		o prophylaxis - antibiotic, antithrombotic,		
		immunizations		
		o blood borne pathogens		
		■ HIV, HCV, HBV		
		 management of surgical specimens for malignancy, infection 		
Made and a		fresh vs. frozen, solutions for storage and transport		
Wednesday, Nov. 11 th	1.00 4.000	TRAUMA OSCE	F2	Due Veels and Veesens
	1:00 – 4:00pm		F2	Drs. Yach and Kassam
SL206A Wednesday	1:00 - 2:30pm	ASSESSING AND PERFORMING RISK OPTIMIZATION IN PRE-OP		
Wednesday, Nov. 18 th	1.00 - 2.50pm	PATIENTS		
INUV. 10		Session 1		
		Elements of clinical assessment for all surgical procedures.	F2	Dr. Harrison
		procedures	F3	Dr. Harrison
		History and physical Pro on labs and imaging		
		Pre-op labs and imaging		
		Recognizing need for pre-operative consults		
		 Medicine, anesthesia 		



		G. Falosem conference Room Barr 2		
Paloschi Rm		 Post-op care considerations 		
		 need for ICU, step-down 		
		Antibiotic prophylaxis		
		 standard for specific procedures 		
		alternatives (ex for allergy)		
	2:30 – 4:00pm	ASSESSING AND PERFORMING RISK OPTIMIZATION IN PRE-OP PATIENTS Session 2		
		Concerns with specific populations		
		Pregnancy - physiologic changes		
		o Elderly		
		o Immunocompromised –		
		 Morbid obesity 		
		o DM	5 2	Du Hamisan
		o Pediatrics	F3	Dr. Harrison
		 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		
Wednesday,	1:00 – 2:30pm	INFECTION - BASICS / REVIEW		
Dec. 2 nd		Review host defences		
		SIRS, septic shock		
Paloschi Rm		 common bacterial types 		Dr. Perez Patrigeon
		MRSA, VRE, C diff		
		community vs. hospital acquired		
		antibiotic coverage		
Wednesday,	1:00 -3:00pm	MANAGING UNCOMPLICATED POST-OP PATIENTS		
Dec. 16 th	1.00 3.00pm	Discharging the patient		
DCC. 10				
Paloschi Rm		 organizing and implementing a post-op care plan 		Dr. Agrawal
r alusciii Mili		communication to patient and family		DI. Agiawai
		anticipated course, post-op restrictions, things for		
		concern, follow-up plans, etc		
		concern, ronow-up pians, etc		



	1	G. Paloschi Conference Room Burr 2		
		 contents and distribution of discharge summary transfer to other facilities ex. SMOL, other hospitals 		
		follow-up imaging and labs		
		 discharge resources home care educational resources for patients and families 		
		 allied health care physio, OT, dietary, their scope and role in the health care team 		
Wednesday, Jan. 6 th 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.	F4	Dr. Mann



	3:00- 4:00pm	POST-OPERATIVE SURGICAL INFECTIONS	
	3.00 1.00pm	Review common (respiratory, UTI, etc.)	
		vascular / hematogenous	Dr. Borschneck
		surgical site (superficial and deep) necrotizing fasciitis	
Modposday	1:00 – 2:30pm	NUTRITIONAL MANAGEMENT	
Wednesday, Jan. 20 th	1:00 – 2:30pm		
Jan. 20		Basal metabolic requirements (protein, CHO, lipid)	
		Starvation	
Paloschi Rm		Refeeding	Dr. Winthrop
Palosciii Kiii		Starvation	·
		Enteric and parenteral feeding	
		Risks/complications TPN	
Wednesday,	1:00 – 2:30pm	WOUND HEALING	
February 3 rd		Phases of normal/abnormal/delayed wound healing	
		Healing in specific tissues	
		Factors that alter/impair wound healing	Du Mantau
Paloschi Rm		 Patient factors (obesity, DM, 	Dr. Martou
		o Immunosuppressive,)	
		 Management strategies 	
		 Pressure sores (risk factors, prevention, management) 	
	2:30 – 4:00pm	BURNS	
		Burn resuscitation fluids	
		 Parkland formula (rule of 9s) 	
		Burn depth	
		% BSA burns	Dr. Winthrop
		Risk/prognosis	
		Nutritional requirements	
		 Infection risks/management 	
		Inhalation injury	
Wednesday	1:00 – 4:00pm	Surgical Foundations National Practice Exam	
February?			



	•	G. Palosciii Collierence Nooni Buli 2	
Wednesday,	1:00 – 2:30pm	Renal disease and the surgical patient	
March 3 rd		Basics of renal physiology	
		Pathophysiology, diagnosis, treatment of	Dr. Holland
Paloschi Rm		 Renal failure (pre/renal/post) 	Dr. Holland
		o SIADH	
		o DI	
	2:30-3:30pm	LAWSUITS	Dr. Martou
		Common Causes	Dr. Martou
Tuesday,	1:00 – 2:30pm	PULMONARY PHYSIOLOGY AND THE SURGICAL PATIENT	
March 16 th		Basics of pulmonary physiology	
		 Pathophysiology / diagnosis/treatment of common 	
		pulmonary complications	
		o COPD	Dr. Heffernan
Paloschi Rm		PE / fat embolism	
		 Pneumonia (hospital and community acquired) 	
		 Pneumothorax 	
		o Effusion	
	2:30 – 4:00pm	NEUROLOGY / NEUROSURGERY	
		TIA / CVA	Dr. Haji
		 Aneurysms 	Di. Haji
		Brian death	
Wednesday,	1:00 – 2:30pm	HEMOSTASIS	
March 31 st		 intrinsic / extrinsic pathways 	
		 hyper / hypocoaguable states 	
		platelet function	Dr. Borschneck
		 screening for bleeding diathesis 	Di. Boiscilleck
		 anticoagulants 	
		 plavix, ticegrelor 	
		 heparin, warfarin, NOACs 	
Paloschi Rm	2:30 – 4:00pm	Transfusion	
		 Products (PRBC, FFP, platelets, cryo, albumen) 	Dr. Borschneck
		 Storage, how they're produced, costs 	Di. Boiscilleck
		 Indications 	



		Risks / complications	
Wednesday,	1:00-3:00pm	GI DISEASE AND THE SURGICAL PATIENT	
April 14 th		 Pathophysiology, diagnosis, treatment of: 	
		 Stress gastritis. GI bleeding, Ileus 	Dr. Rieder
Paloschi Rm		 Screening practices 	
		 Malignancy 	
	3:00 – 4:00pm	Vascular Disease (pathophysiology and management)	
		Compartment syndrome	Dr. Zelt
		 DVT, Arterial insufficiency/ischemia. AAA, aortic 	Dr. Zeit
		dissection	
Wednesday	1:00 – 2:30pm	PANCREAS	
April 28 th		 Anatomy / physiology review 	Dr. Jalink
		Acute and chronic pancreatitis	Dr. Jaillik
		Benign and malignant lesions	
	2:30 – 4:00pm	TRANSPLANT	
Paloschi Rm		 autograft, allograft, xenograft 	Dr. McGregor
		 graft rejection (hyperacute, acute, chronic) 	Dr. McGregor
		 principles of compatibility and screening 	
Wednesday,	1:00 – 2:30pm	The Endocrine system and the Surgical patient	
May 12 th		Stress response	
		• DM	Dr. Walker
		Thyroid, parathyroid	
		Other (pheo, stress steroid dosing)	
Paloschi Rm	2:30 – 4:00pm	Radiology	
		Chest (Cxr, CT)	
		o Basics	Dr. Petsikas
		Case Scenarios Abda (Aur. CT)	
		Abdo (Axr, CT)Basics and Case Scenarios	
Wednesday,	1:00 – 2:30pm	SHOCK	
May 26 th	1.00 - 2.30pill	• SIRS	
iviay ZU		Types of shock	
		Circulatory	
		Distributive	



		G. I diosem conference Room Barr 2	
Paloschi Rm		 Cardiogenic Hypovolemia Obstructive Rivers Trial Algorithm Multiple organ dysfunction 	
	2:30- 4:00pm	Cardiac Physiology and the surgical patient Basics of cardiac physiology Pathophysiology, diagnosis, treatment of CAD, CHF Valvular heart disease Cardiomyopathy Cardiac arrhythmias Cardiac tamponade ECMO	Dr. Ribeiro
Wednesday June 9 th Paloschi Rm	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. Caycedo
Wednesday, June 16 th Paloschi Rm	1:00 – 2:30pm	LIVER Review anatomy / function Acute liver failure Chronic liver failure Cirrhosis Ascites, varices Benign lesions HCC	Drs. Nanji/Jalink



	Metastatic disease	
2:30 - 4:00pm	GALLBLADDER AND EXTRA-HEPATIC BILIARY SYSTEM	
	Anatomy / physiology review	
	Gallstones, cholecystitis, choledocholithiasis, cholangitis, biliary	Drs. Nanji/Jalink
	pancreatitis	
	Malignancy	