



Jordan University of Science and Technology
Faculty of Medicine
Doctor Of Medicine (Md) Department

MED610 General Surgery (2) - JNQF Level: 7

Summer Semester 2022-2023

Course Catalog

9 Credit Hours. An eight-week General Surgery rotation is a clinical experience that introduces students to basic principles of surgery and related problems. Its curriculum is defined by learning objectives and encompasses inpatient-hospital and outpatient-office experiences. During the clerkship, students evaluate and follow patients. 7 weeks of general surgery and one week of Urology make up the rotation. Functioning as members of the patient-care team, the team pre- and post-operative evaluation and management, and visiting the operating theaters to see some surgical procedures. Daily rounds and faculty/preceptor interactions allow students to discuss patient problems in detail. Faculty members provide students with regular feedback, advice, and direction. Objectives: ? To recognize and understand common surgical conditions including emergency ones ? Evaluate and assess patients with surgical diseases ? To be aware of what treatment modalities that are available, including non-operative ? To understand the principles of preoperative care and optimization ? To understand postoperative care and possible complications ? To be able to explain in general terms to a patient the implications of a common surgical diagnosis ? To be able to interpret common laboratory and radiologic tests ? To have sufficient basic understanding of surgery to help with future career choice Learning opportunities: ? Morning reports ? Ward rounds ? On calls (Seeing emergency referrals/attendances in the emergency unit) ? Case-based discussion. ? Intensive Care Unit ? Outpatient clinics ? Seminars We anticipate much of the curriculum can be covered by ward rounds, but important and rare conditions will need additional reading by the student and formal teaching.

Text Book

Title	Browse's Introduction to The Symptoms and Signs of Surgical Disease, Fourth edition,
Author(s)	Norman L. Browse, John Black, Kevin G. Burnand, William E. G. Thomas
Edition	4th Edition
Short Name	1
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
2	Bailey & Love's Short Practice of Surgery	P. Ronan O'Connell, Norman S. Williams, Andrew W. McCaskie	27th Edition	

3	SCHWARTZ'S PRINCIPLES OF SURGERY	F. Brunicardi, Dana Andersen, Timothy Billiar, David Dunn, John Hunter, Lillian Kao, Jeffrey Matthews, Raphael Pollock	11th Edition	
4	Schwartz' Principles of Surgery: Self-Assessment and Board Review	F. Charles Brunicardi, Dana Anderson, Timothy R. Billiar, David L. Dunn, John G. Hunter, Raphael E. Pollock	8th Edition	
5	Current Surgical Therapy	John L. Cameron MD, Andrew M. Cameron MD PhD FACS	14th Edition	

Instructor	
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Class Schedule & Room
Section 1: Lecture Time: U : - Room: U

Tentative List of Topics Covered		
Weeks	Topic	References
Weeks 1, 2, 3, 4, 5, 6, 7, 8	Blood Transfusion	From 2, From 3, From 4, From 5
Weeks 1, 2, 3, 4, 5, 6, 7, 8	Multiple injuries: first aid and triage	From 2, From 3, From 4, From 5
Weeks 1, 2, 3, 4, 5, 6, 7, 8	Abdominal trauma	From 1, From 2, From 3, From 4, From 5
Weeks 1, 2, 3, 4, 5, 6, 7, 8	Chest trauma	From 1, From 2
Weeks 1, 2, 3, 4, 5, 6, 7, 8	Intestinal obstruction	From 1, From 2, From 3, From 4, From 5

Weeks 1, 2, 3, 4, 5, 6, 7, 8	Difficulty swallowing / dyspepsia /dysphagia	From 1, From 2
Weeks 1, 2, 3, 4, 5, 6, 7, 8	Gall bladder diseases including obstructive jaundice	From 1, From 2, From 3, From 4, From 5
Weeks 1, 2, 3, 4, 5, 6, 7, 8	Hernias	From 1, From 2, From 3, From 4, From 5
Weeks 1, 2, 3, 4, 5, 6, 7, 8	Lumps in scrotum / scrotal pain	From 1, From 2, From 5
Weeks 1, 2, 3, 4, 5, 6, 7, 8	Urolithiasis	From 1, From 2, From 5
Weeks 1, 2, 3, 4, 5, 6, 7, 8	Urinary retention or flow obstruction	From 1, From 2, From 5
Weeks 1, 2, 3, 4, 5, 6, 7, 8	Infertility	From 1, From 2, From 5
Weeks 1, 2, 3, 4, 5, 6, 7, 8	Leg/foot ulceration	From 1, From 2, From 3, From 4, From 5
Weeks 1, 2, 3, 4, 5, 6, 7, 8	Acute and chronic Limb Ischemia	From 1, From 2, From 3, From 4, From 5
Weeks 1, 2, 3, 4, 5, 6, 7, 8	Diseases of the salivary glands	From 1, From 2
Weeks 1, 2, 3, 4, 5, 6, 7, 8	Breast diseases including tumours	From 1, From 2, From 3, From 4, From 5

Weeks 1, 2, 3, 4, 5, 6, 7, 8	Lumps in the neck	From 1, From 2, From 3, From 4, From 5
Weeks 1, 2, 3, 4, 5, 6, 7, 8	Groin lump in child	From 1, From 2, From 3, From 4, From 5
Weeks 1, 2, 3, 4, 5, 6, 7, 8	Varicose veins and lymphatic diseases	From 1, From 2, From 3, From 4, From 5
Weeks 1, 2, 3, 4, 5, 6, 7, 8	Gastric & Esophageal diseases	From 1, From 2, From 3, From 4, From 5
Weeks 1, 2, 3, 4, 5, 6, 7, 8	Pancreatitis and pancreatic tumours	From 1, From 2, From 3, From 4, From 5
Weeks 1, 2, 3, 4, 5, 6, 7, 8	Liver tumours and cysts	From 1, From 2, From 3, From 4, From 5
Weeks 1, 2, 3, 4, 5, 6, 7, 8	Diseases of the colon including colonic tumours, diverticulosis and mesenteric ischemia	From 1, From 2, From 3, From 4, From 5
Weeks 1, 2, 3, 4, 5, 6, 7, 8	Anorectal conditions	From 1, From 2, From 3, From 4, From 5
Weeks 1, 2, 3, 4, 5, 6, 7, 8	Diseases of the prostate	From 1, From 2, From 5
Weeks 1, 2, 3, 4, 5, 6, 7, 8	Kidney and bladder tumours	From 1, From 2, From 5

Weeks 1, 2, 3, 4, 5, 6, 7, 8	Surgical aspects of thyroid & parathyroid diseases	From 1, From 2, From 3, From 4, From 5
Weeks 1, 2, 3, 4, 5, 6, 7, 8	Morbid obesity surgery	From 1, From 2, From 3, From 4, From 5
Weeks 1, 2, 3, 4, 5, 6, 7, 8	Burns and skin coverage	From 1, From 2, From 3, From 4, From 5
Weeks 1, 2, 3, 4, 5, 6, 7, 8	Pneumothorax, empyema, lung cysts, and mediastinal tumors	From 1, From 2, From 5
Weeks 1, 2, 3, 4, 5, 6, 7, 8	Surgical vascular access for dialysis (AV fistulae and grafts)	From 1, From 2, From 3, From 4, From 5
Weeks 1, 2, 3, 4, 5, 6, 7, 8	Perioperative care and management including pre- and post- operative care	From 1, From 2, From 5
Weeks 1, 2, 3, 4, 5, 6, 7, 8	Fluids, electrolytes, and shock	From 2, From 3, From 4, From 5
Weeks 1, 2, 3, 4, 5, 6, 7, 8	Enteral and parenteral nutrition	From 2, From 3, From 4, From 5
Weeks 1, 2, 3, 4, 5, 6, 7, 8	Wound healing and infection	From 1, From 2
Weeks 1, 2, 3, 4, 5, 6, 7, 8	Principles of cardiac surgery	From 2, From 3

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
To recognize and understand common surgical conditions including emergency ones [1PLO2, 1PLO3, 1PLO4] [1L7K1]	20%	

To understand basic and clinical knowledge of surgical diseases to gain the ability to evaluate and assess patients with surgical diseases [1PLO1, 1PLO4] [1L7K1]	20%	
To be aware of what treatment modalities that are available, including non-operative management [1PLO4, 1PLO10] [1L7S1]	10%	
To apply the principles of preoperative and postoperative care and optimization [1PLO5, 1PLO11] [1L7S2]	10%	
To obtain the skill required for explaining the implications of common surgical diagnosis in general terms to patients and their families [1PLO11, 1PLO13] [1L7S2]	10%	
To practice critical thinking and logical approach toward surgical conditions when taking medical history, examining the patients, and interpreting laboratory and radiologic tests [1PLO9, 1PLO10, 1PLO11, 1PLO14] [1L7C4]	15%	
To practice good conduct of ethics and professional attitude toward supervisors, peers, staff, patients, and their families [1PLO12, 1PLO13] [1L7C2]	15%	

Relationship to Program Student Outcomes (Out of 100%)													
PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12	PLO13	PLO14
10	6.67	6.67	21.67	5				3.75	8.75	13.75	7.5	12.5	3.75

Relationship to NQF Outcomes (Out of 100%)				
L7K1	L7S1	L7S2	L7C2	L7C4
40	10	20	15	15

Evaluation	
Assessment Tool	Weight
multiple choice questions exam	40%
Clinical rotation evaluation and assessment	20%
Mini OSCE exam at end of rotation	18%
OSCE and oral exam at end of rotation	12%
Oral Examination at end of year	10%

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