MED 3006: INTRODUCTION TO GENERAL SURGERY				
Course Date	March 29-April 22, 2021			
Exam Date	Theoretical Exam: April 22, 2021			
Course Coordinator:	FATİH ÖZDENER			
Academic Unit	Academic Staff	Theoretical hours		
	Leyla Zer, Prof.	8		
	Levent Kaptanoğlu, Prof.	7		
	Metin Kement, Prof.	5		
General Surgery	Emre Sivrikoz, Assoc. Prof.	5		
	Sabri Tekin, Assoc. Prof.	5		
	Ahmet Erkek, Assist. Prof.	4		
	Babek Tabandeh, Assist. Prof.	6		
TOTAL		40		

COURSE AIM:

The aim of this course is to make an introduction to general surgery subjects, provide basic information on the diagnosis and management of some of the most commonly encountered diseases in general surgery practice and give knowledge about the common problems encountered in the emergency service.

LEARNING OUTCOMES:

	e end of this lesson, the student w		
DEP	TOPIC	LEARNING OUTCOMES	
	Introduction to committee,	Define medical terminology	
	medical terminology, surgical	Describe the importance of medical terminology	
	terms (T-1)	Define the common general surgery terms	
	Patient History taking in general surgery (T-1)	 Elicit the patient's chief complaint, history of present illness, past medical history, social, family, occupational histories and complete a review of systems Recognize pertinent positive and negative history findings Establish a positive professional relationship 	
		Perform general examination	
GENER	Physical examination in surgery (T-1)	 Perform general examination Perform local examination (abdomen, breast, inguinoscrotal region, etc.) 	
₽		3. Perform systemic examination	
GENERAL SURGERY	Asepsis, antisepsis and Disinfection (T-1)	 Explain the basic concepts, rules and principles of surgical asepsis, antisepsis, and disinfection Explain the importance of personal protective measures to prevent the spread of infection 	
		Define surgical site infection	
		2. Identify the risk factors associated with	
	Surgical infection and usage of antibiotics (T-1)	3. Explain the principles of infection control/safe practices	
		 Explain the role of microbiology laboratory in the diagnosis and management of infections 	
		5. Explain the safe and appropriate usage of antibiotics	
	Metabolic and endocrine	Define classical concepts of homeostasis	
	response to injury	2. Define mediators of the metabolic response to injury	
	(T-1)	3. Describe physiochemical and biochemical changes that occur during injury and recovery	

	Define hemostasis
Bleeding, hemostasis, blood	2. Describe the mechanisms involved in hemostasis
transfusion	3. Explain the principles of transfusion and list the
(T-1)	indications and contraindications
	4. Discuss the complications of blood transfusion
D	1. Define dyspepsia
Dyspepsia	2. List the causes of dyspepsia
(T-1)	3. Describe the symptoms of dyspepsia
Dysphagia	Define dysphagia
(T-1)	2. List the causes of dysphagia
(1-1)	· · · -
Name and or within a	Identify common causes of nausea and vomiting
Nausea and vomiting	2. Describe the pathophysiologic mechanisms of nau
(T-1)	sea and vomiting
	3. Create goals for treating nausea and vomiting
Upper gastrointestinal bleeding	 Explain the pathophysiology of acute UGIB
(UGIB)	2. List risk factors for UGIB
(T-1)	3. Describe symptoms
\' - /	4. Review how to assess patients presenting with UG
	1. Define hematemesis
Hematemesis	2. List the causes and symptoms of hematemesis
(T-1)	3. Review how to assess patients presenting with
	hematemesis
	Define hematochezia
Rectal bleeding/hematochezia,	2. List the causes and symptoms of hematochezia
Anorectal pain	3. Review how to assess patients presenting with
(T-1)	hematochezia
(1 1)	4. List the anorectal pain causes
Lower gastrointestinal bleeding	List the causes and symptoms of LGIB
(LGIB)	Review how to assess patients presenting with LG
(T-1)	2. Neview flow to assess patients presenting with Lo
(1-2)	1. Define melena
Melena, Algorithms for bleeding	List the cause and symptoms of melena
(T-1)	3. Review how to assess patients presenting with
(1-1)	melena
	Revisit the structure of the breast, relating hormo
	changes to its functions
Approach to breast lump,	Outline the key features of examination and
Nipple discharge	investigation of palpable breast lumps
(T-1)	Describe the history and exam features of pathology
	3. Describe the history and examined three or Dathor
Dungat avaluation	and non-pathologic nipple discharge
Breast evaluation,	and non-pathologic nipple discharge 1. Discuss current breast imaging technologies
Breast radiology	and non-pathologic nipple dischargeDiscuss current breast imaging technologiesDefine the principles and objectives of population
Breast radiology (T-1)	and non-pathologic nipple dischargeDiscuss current breast imaging technologiesDefine the principles and objectives of population screening
Breast radiology (T-1) Breast diseases	 and non-pathologic nipple discharge Discuss current breast imaging technologies Define the principles and objectives of population screening Define the classification of breast diseases
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Breast radiology (T-1) Breast diseases (T-1) Surgical instruments and	 and non-pathologic nipple discharge Discuss current breast imaging technologies Define the principles and objectives of population screening Define the classification of breast diseases List the most common symptoms Describe the types of surgical instruments
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	needed for patients with common co-morbidities
	3. Discuss basic principles of risk assessment
	4. Have an understanding of appropriate use of
- II I	pre-operative lab tests
Postop complications and	Define the most common postoperative complica
patient care	tions
(T-1)	Explain how to manage with these problems
_	Define patient safety
Patient safety in surgery	2. Explain the importance of patient safety
(T-2)	3. Explain the causes of critical incidents and patient
	harm
	4. Define patient safety measures
	1. Explain the importance of nutrition in surgical pa-
Surgical metabolism and	tients
Nutrition	Explain nutritional assessment
(T-2)	3. Define nutritional requirements
Nutrition and the immune	1. Explain the importance of nutrition on the immune
System	system
(T-1)	
Common surgical procedures	 Get knowledge about common surgical procedures
(T-1)	
Surgical techniques	 Describe basic surgical techniques
(T-1)	
() ±/	
Laparoscopic surgery	Define laparoscopy
(T-1)	Explain the benefits of laparoscopic surgery
(, -)	3. Explain what is laparoscopic surgery used for
	1. Explain the roles of history-taking, glycated hemo-
	globin A1c and antihyperglycemic drugs in the per
Perioperative management of	operative
diabetic patient	period
(T-1)	2. Describe insulin management in surgical patients
	3. Identify and describe the significance of optimal
	glycemic targets in the perioperative period
	 Evaluate the nutritional status of the patient
	2. Determine the most appropriate form of nutrition
	support required
Enteral and parenteral putrities	3. Estimate protein and caloric requirements of a pa-
Enteral and parenteral nutrition	tient based on the diseases state
(T-1)	4. Define enteral and parenteral nutrition
	5. Explain enteral and parenteral nutrition methods
	6. Discuss advantages and disadvantages of enteral
	and parenteral nutrition
Anatomy of the insurant of the	Describe the anatomy of inguinal region and inguin
Anatomy of the inguinal region	canal
(T-1)	
(1-1)	
	Explain the causes, symptoms, and diagnosis of
Approach to a patient with groin lump	Explain the causes, symptoms, and diagnosis of lumps in the groin

Inguinal hernias (T-1)	 Define the etiology and pathophysiology of inguinal hernias Discuss locations and associated signs and symptoms Explain complications Explain diagnosis and examination methods
Abdominal pain , discomfort and distention, mass (T-1)	 Describe pathophysiologic mechanisms of abdominal pain and distention Describe common causes of abdominal pain and distention Identify signs and symptoms of a surgical abdomen Explain principal diagnostic studies necessary to make differential diagnosis Define the different types of abdominal mass in terms of site, etiology, and clinical characteristic
Soft tissue tumors (T-1)	Explain the clinical presentation, histopathology, and diagnostic evaluation of the most common soft tissue tumors
Unintentional injuries (freezing, hypothermia, hyperthermia, heatstroke, bites/sting and others) (T-1)	 Define unintentional injury List the examples of unintentional injuries Define hypothermia Recognize the signs and symptoms of freezing injury Discuss the treatment practices for managing freezing injury in the emergency department Define hyperthermia Describe signs and symptoms of hyperthermia Discuss the treatment practices for managing heatstroke in the emergency department Discuss common offending organisms, pathophysiology, assessment findings and management of a patient with a bite or sting. Identify when a casualty is having an allergic reaction to a bite or sting Explain first aid treatment for a casualty who has been bitten or stung
Poisonings (food poisoning, corrosive poisoning and others) (T-1)	 Get knowledge required to manage poisoned patients in the emergency department Explain the importance of airway management and cardiovascular support in a toxic ingestion Explain the principles, methods and controversies of decontamination techniques (gastric lavage, activated charcoal and whole bowel irrigation) Define causes, symptoms, diagnosis, treatment, and prevention of food poisoning Identify intentional versus unintentional caustic ingestions Describe the clinical features, investigations, and complications of corrosive ingestion

Allergic reactions (T-1)	 Describe mechanism, signs and symptoms, proper assessment, and treatment for patient experiencing an allergic reaction Describe emergency medical care for patient in anaphylactic shock
Burns (T-1)	 Explain the rule of nines to estimate total body surface area of the burn Describe partial and full thickness burn wounds
(1-1)	Describe ambulatory management of burn patier