

**LEARNING UNIT:** VI

**COURSE COORDINATORS:** Dr. Rowena Sudario-Lumague/ Dr. Felixberto Lukban

**COURSE CODE:** Surgery 251

**COURSE TITLE:** Integrated Clinical Clerkship II in Surgery

**COURSE DESCRIPTION:** This is a 4-week course that involves direct participation of students in the in-patient care of general surgery and trauma patients.

**LEARNING OUTCOMES ADDRESSED:**

L1 Clinical Competence

L2 Effective Communication Skills

L3 Leadership

L4 Generation and Utilization of Relevant Knowledge

L5 Inter-professional practice

L6 System-based Approach to Health Care Practice

L7 Lifelong personal and professional development

L8 Adherence to Professional and Ethical standards

L9 Volunteerism, Nationalism and Internationalism

L10 Advocacy for Social Equity and Social Accountability

L11 Effective teaching and Organizational Skills

For each Learning Outcome addressed, indicate if the learning is:

I = Introduced in the course

P = Practiced in the course with supervision

D = Demonstrated in the course even without supervision; this implies proficiency in performing the task

### INSTRUCTIONAL DESIGN

Learning Objectives	LO Addressed	Content	Teaching/Learning Strategies	Resources	Evaluation
<p><b>COGNITIVE</b></p> <p>1. Apply the basic surgical principles in the pre-operative and post-operative care of actual patients</p> <p>a. Relate theoretical knowledge to actual patient care</p> <p>b. Formulate a management plan during the course of the patient's stay in the hospital</p>	<p>1 – P/D</p> <p>2 – D</p> <p>3 – P</p> <p>4 – P</p> <p>5 – D</p> <p>6 – D</p> <p>8 – D</p> <p>11 – D</p>	<p>See must know surgical principles</p> <p>See must know surgical diseases</p> <p>See must know Acute Care Surgery Diseases</p>	<p>Ward patient assignment</p> <p>Incoming notes/progress notes writing</p> <p>SGD with consultant in charge</p> <p>ER duties</p>	<p>Resident and Consultant supervision</p> <p>Surgery Textbooks</p>	<p>GS Team Evaluation</p> <p>SGD evaluation</p> <p>Quizzes</p> <p>Final Exam</p> <p>Comprehensive Exam</p>
<p>2. Integrate the pathophysiology of the patient's disease to the history and physical examination findings to arrive at a clinical diagnosis and differentials of common surgical disorders and surgical emergencies</p> <p>a. Obtain a complete medical history</p> <p>b. Perform a complete physical examination</p> <p>c. Formulate a correct clinical diagnosis</p> <p>d. List a number of differential diagnoses and justify each</p>	<p>1 – D</p> <p>2 – D</p> <p>3 – P</p> <p>4 – P</p> <p>5 – D</p> <p>6 – D</p> <p>8 – D</p> <p>11 – D</p>	<p>See must know surgical diseases</p> <p>See must know Acute Care Surgery Diseases</p>	<p>Ward patient assignment</p> <p>Incoming notes/progress notes writing</p> <p>SGD with consultant in charge</p> <p>ER duties</p>	<p>Resident and Consultant supervision</p> <p>Surgery Textbooks</p>	<p>GS Team Evaluation</p> <p>SGD evaluation</p>

<p>3. Propose a diagnostic plan and perform specific diagnostic procedures to arrive at a correct diagnosis of common surgical disorders and surgical emergencies</p> <p>a. Outline a logical diagnostic plan</p> <p>b. Perform proper specimen collection and/or advise relatives on how to collect and send specimens</p> <p>c. Interpret results of diagnostic examinations</p>	<p>1 – P/D</p> <p>2 – D</p> <p>3 – P</p> <p>4 – P</p> <p>5 – D</p> <p>6 – D</p> <p>8 – D</p> <p>11 – D</p>	<p>See must know surgical diseases</p> <p>See must know Acute Care Surgery Diseases</p>	<p>Ward patient assignment</p> <p>Incoming notes/progress notes writing</p> <p>SGD with consultant in charge</p> <p>ER duties</p>	<p>Resident and Consultant supervision</p> <p>Surgery Textbooks</p>	<p>GS Team Evaluation</p> <p>SGD evaluation</p>
<p>4. Propose a therapeutic plan for common surgical disorders and surgical emergencies</p> <p>a. Refer patients with surgical disorders that need the attention of a surgical specialist</p> <p>b. Formulate a surgical plan to address the surgical condition</p> <p>c. Incorporate the appropriate medical management in the therapeutic plan</p> <p>d. Describe how the specific surgical procedure is done</p> <p>e. Identify the benefits and risks of a specific surgical procedure</p>	<p>1 – P/D</p> <p>2 – D</p> <p>3 – P</p> <p>4 – P</p> <p>5 – D</p> <p>6 – D</p> <p>8 – D</p> <p>11 – D</p>	<p>See must know surgical diseases</p> <p>See must know Acute Care Surgery Diseases</p>	<p>Ward patient assignment</p> <p>Incoming notes/progress notes writing</p> <p>SGD with consultant in charge</p> <p>ER duties</p>	<p>Resident and Consultant supervision</p> <p>Surgery Textbooks</p> <p>Online videos of common surgical procedures and operations (VLE)</p>	<p>GS Team Evaluation</p> <p>SGD evaluation</p>

5. Create an instructional material for patients.	1 – D 2 – D 3 – P 4 – P 5 – D 6 – D 7 – P 8 – D 10 – P 11 – D	See must know surgical diseases	PHL presentation	Surgery Textbooks	PHL Evaluation
<b>PSYCHOMOTOR</b> 6. Perform or participate in specific surgical procedures with the supervision of either a consultant or resident	1 – D 2 – D 4 – P 6 – D 8 – D	Perform the following procedures with supervision: 1. Nasogastric tube insertion 2. Urethral catheterization 3. Hand scrubbing, gloving, gowning 4. Suturing of simple lacerations 5. Wound care and dressing	Ward, OR and ER duties Return demo video submission	VLE videos Resident and Consultant supervision Surgery Textbooks	Portfolio Return demo video evaluation
7. Participate in the performance of major surgical elective and emergency operations	1 – D 2 – D 4 – P 5 – P 6 – D 8 – D	Assist or observe in the following operations: 1. Thyroidectomy 2. Mastectomy 3. Colon or Rectal surgery 4. Cholecystectomy/Bile duct exploration	OR duties	Resident and Consultant supervision	Portfolio

		5. Appendectomy 6. Hernia surgery 7. Closed tube thoracotomy 8. Laparotomy for emergency and elective cases			
8. Effectively communicate to a patient and his relatives the clinical situation and the need for diagnostic and therapeutic measures a. Explain to the patient and his relatives the surgical condition and the psychosocial issues related to it b. Enumerate and describe the appropriate diagnostic work up needed to arrive at a correct diagnosis c. Explain in simple terms the therapeutic plan	1 – D 2 – D 4 – P 6 – D 8 – D 10 – P 11 – D	See must know surgical diseases See must know Acute Care Surgery Diseases	Ward patient assignment	Resident and Consultant supervision	GS Team Evaluation
9. Organize relevant medical information in an electronic data record a. Fill in the clinical abstract, physical examination findings and diagnosis of patients assigned in the wards b. Update the information relevant to the patient's course in the wards c. Comply with existing rules and regulations on patient privacy	1 – D 2 – D 4 – P 5 – D 6 – D 8 – D 11 – D	Medical Notes Writing Data Privacy Act	Ward patient assignments Incoming notes/progress notes writing	RADISH	GS Team Evaluation

<b>AFFECTIVE</b> 10. Develop the values of professionalism, teamwork, and patient safety in managing patients as part of a medical team	1 – D 2 – D 5 – D 6 – D 7 – P 8 – D 10 – P	Medical Code of Ethics	Ward, OR and ER duties SGD with consultant in charge	Department and Division conferences Team Rounds	GS Team Evaluation Peer evaluation Attendance
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### List of Must Know Topics

#### Must know Surgical Principles

1. Fluid and electrolyte therapy and acid-base balance
2. Surgical infections
3. Peri-operative analgesia and sedation
4. Peri-operative complications

#### Must know Surgical Diseases

1. Thyroid Cancer
2. Benign thyroid diseases
3. Breast Cancer
4. Benign breast diseases
5. Soft tissue sarcoma
6. Gastrointestinal malignancies
  - a. Colonic Cancer
  - b. Rectal Cancer
  - c. Gastric and Esophageal Cancer
  - d. Hepatocellular and Pancreatic Cancer
7. Benign anorectal diseases
8. Diverticulitis

9. Cholecystitis, Cholelithiasis, and Choledocholithiasis
10. Abdominal wall and groin hernia

**Must Know Acute Care Surgery Diseases**

1. Acute appendicitis
2. Perforated peptic ulcer
3. Partial/Complete Gut Obstruction
4. Incarcerated/Strangulated hernia
5. Gastrointestinal bleeding
6. Acute cholecystitis
7. Cholangitis
8. Tension pneumothorax
9. Cardiac tamponade
10. Massive hemothorax
11. Blunt chest and abdominal injuries
12. Penetrating abdominal injury
13. Multiple injuries with traumatic brain injury