

# **SURGERY I MDSG 401**

**OBJECTIVES**

**COURSE CONTENTS**

**CLINICAL TEACHING**

**INSTRUCTIONAL METHODS**

**TIMETABLE**

**CLINICAL ETHICS FOR MEDICAL STUDENTS:**

**GUIDELINES**

<b>Course Title:</b>	<b>Principles and Practice of Surgery I</b>
<b>Course Designation:</b>	<b>MDSG 401</b>
<b>Course units:</b>	<b>6 credit hours</b>
<b>Course duration:</b>	<b>6 weeks clinical clerkship</b>

## **OBJECTIVES**

**At the end of this course, the student should be able to:**

- I. Reinforce the basic clinical skills learned in Basic Clinical Skills Course
- II. Recognize and interpret the clinical situation(s) correctly and provide a rational diagnosis with or without the help of relevant investigations.
- III. Make a comprehensive list of the patient's problems in order to focus on all such evidence, and list specific investigations as aids to diagnostic precision and further management

- IV. Understand and recognize the value of Para clinical investigations, specimens needed, preparation of the patient for such procedures and their side effects.
- V. Interpret the results of relevant radiological and laboratory investigations and learn to appreciate that sophisticated investigations are no substitute for clinical acumen.
- VI. Appreciate the desire for cost-effective approach to the management of a patient.
- VII. Describe, in a given clinical situation, the principles of treatment and after care.

## **COURSE CONTENTS**

**These topics will be covered in the course as lectures and tutorials:**

- Acute Burn Assessment
- Pathophysiology of Trauma
- Fluid and electrolyte imbalance
- Massive Blood Transfusion
- Intra-peritoneal haemorrhage, diagnosis and management
- Acute Abdomen, differential diagnosis and management
- Intra-peritoneal sepsis
- Dyspepsia\_peptic ulcer and complication
- Pathophysiology of acute intestinal obstruction
- Surgical aspect of Biliary disease
- Ano-rectal Disease
- Common lesion of the breast, nipple discharge
- Aetio.pathology of chronic arterial insufficiency
- Hand infection
- Differential Diagnosis of head and neck swelling

## **CLINICAL TEACHING**

### **Must know (Core Knowledge):**

- Skin Lumps/Swelling
- Wounds & Ulcers
- Lumps in Neck; including Thyroid
- Diabetic Foot
- Breast Masses
- Acute Abdominal Pain
- Inguino-scrotal swellings
- Sickle cell anaemia
- Dyspepsia
- Jaundice
- Vomiting and hematemesis
- Change in bowel habits
- Rectal Bleeding
- Acutely painful limb

### **Should Know**

- Abdominal Masses
- Dysphagia
- Chronic Abdominal Distension
- Chest Pain
- Dyspnoea
- Haemoptysis
- The Polytrauma Patient

- Sudden Collapse
- Fever

### **Could Know**

- Bleeding/discharge from the nipple
- Constipation in Children
- Burn Injuries
- Chronic Leg Pain
- Hand Injuries

## **INSTRUCTIONAL METHODS**

Lectures, Tutorials, Clinical instruction, Interaction: Interaction with the teachers (including demonstrators and residents. Use of the Learning Resources Centers: Libraries, both in the hospital and in the college, Use of selected tape slide programs

### **EVALUATION:**

#### **The components are:**

1. Continuous Assessment: 10%
2. Portfolio Assessment: 10%
3. Final Written Examination: 30%
4. Clinical Examination: 25% ( 1 long case)
5. O.S.C.E.: 25%

## **REFERENCE MATERIAL**

### **Recommended textbooks:**

- An Introduction to the Symptoms and Signs of Surgical Disease by Norman
- Browse. Bailey and Love Short Practice of Surgery ed. Rains and Ritchie

## **TIMETABLE**

### **First Day:**

General introduction to medical students, Explain what would be the timetable, behaviour and ethics. Rounds with the students to the various areas of the hospital. Each batch will be accompanied by their Lecturer

Batches: All Surgical Batches

Venue: Classroom in the hospital.

Time: 0900 hrs – 1100 hrs

### **Clinical Schedule**

710 – 0730	Surgery Meeting in the Auditorium in the Basement
0900 – 1100	Clinics (Ward or Outpatient)
1300 – 1400	Lecture (Lecture hall in hospital)

### **Types of cases to be shown to students:**

The following clinical cases shall be examined and discussed depending on their availability:

1. Swellings

2. Ulcers
3. Hernia, Hydrocoele, Testicular swellings
4. Cervical nodes
5. Thyroid
6. Breast
7. Vascular insufficiency and gangrene
8. Abdomen

**The following ward procedures will be taught:**

1. Dressing techniques
2. Asepsis and antisepsis
3. Catheterization
4. Nasogastric tube
5. Drains
6. Tracheotomy
7. IV cannulation

The emphasis in the second semester in clinical teaching will be on patient interaction, medical interview techniques, elicitation of signs and their anatomical or pathological bases and decision making matrix for provisional diagnosis. Unnecessary stress need not

be laid at this stage on management. In the OR, theatre etiquette, asepsis and antisepsis are to be taught.

### **Lectures**

- Fluid and Electrolyte imbalance
- Acute burn assessment
- Intraperitoneal hemorrhage, diagnosis and management
- Intraperitoneal sepsis
- Aetiopathology of chronic arterial insufficiency
- Acute abdomen, Differential diagnosis and management
- Common lesions of the breast, nipple discharge
- Anorectal disease
- Surgical aspect of biliary disease
- Pathophysiology of Trauma patient