

STUDY GUIDE FOR THIRD YEAR BDS

2025

DEPARTMENT OF SURGERY



LAHORE MEDICAL AND DENTAL COLLEGE

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INTRODUCTION

Medical education is a life-long process and BDS curriculum is a part of the continuum of education from pre-medical education, BDS, proceeding to house job, and post-graduation. PMC outlines the guiding principles for undergraduate medical curriculum and has defined the generic competencies and desired outcomes for a medical graduate to provide optimal health care, leading to better health outcomes for patients and societies. These generic competencies set the standards of care for all physicians and form a part of the identity of a doctor. Each competency describes a core ability of a competent physician. This study guide will give an insight to the students about all these competencies and how to plan their educational activities in the subject of surgery during third year BDS.

PURPOSE OF GUIDE: To facilitate learning of the student by enlightening about organization of the learning program, facilitate students in managing their studies through the academic year and guidance on assessments methods, exam rules and regulations.

TARGET AUDIENCE

3RD year BDS students

General Surgery

LEARNING OBJECTIVES (*knowledge, skills, attitude*)

- 1) To equip the students with specific knowledge, essential skills and appropriate attitude towards the human body not just focusing on oral cavity
- 2) To become problem solvers, dealing effectively with familiar and unfamiliar problems
- 3) To become lifelong learners
- 4) To direct their own learning and evaluate this activity
- 5) To be able to reason critically and make justifiable decisions regarding patient management
- 6) To practice evidence-based surgery
- 7) To always ensure patient safety
- 8) To ensure compliance with the legal system as it impacts health care and the PMC regulations
- 9) To adopt a multidisciplinary approach for health promoting interventions
- 10) Dental graduates should be able to demonstrate professional values of self and professional accountability, honesty, probity, and ethics
- 11) Dental graduates are expected to demonstrate exemplary professional conduct
- 12) To be able to understand the pathogenesis of specific surgical problems especially in head and neck region.
- 13) To be able to take a thorough focused history and identify the patient's risk factors related to the surgical diseases
- 14) To be able to perform a physical examination on a patient, to diagnose specific surgical diseases and rule out other diseases
- 15) To formulate a provisional diagnosis with justification, and the likely differential diagnoses
- 16) To be able to select appropriate biochemical and microbiological investigations and interpret their reports to confirm the diagnosis
- 17) To be able to select specific radiological investigations for specific diseases
- 18) To be able to apply evidence-based general surgery concepts for the treatment of different diseases
- 19) To be able to learn surgical skills

TEACHING METHODOLOGIES FOR SURGERY

- 1) Interactive Lectures
- 2) Tutorials
- 3) Case based learning(CBL)
- 4) Essential Skills to be learned in the skills lab
- 5) Power point presentations by students
- 6) Small group discussions
- 7) Clinical ward rotations
- 8) CPC's – using modern audio-visual techniques, distant learning using electronic devices and current Information technology facilities
- 9) Journal Club meetings
- 10) Self-directed learning is the most vital part of this module to solve problematic cases, go through different learning resources and discuss with peers and the faculty to clarify difficult concepts

ATTENDANCE REQUIREMENT FOR GENERAL SURGERY

- 1) Students are expected to attend all scheduled teaching sessions and examinations
- 2) Attendance in lectures, tutorials, and wards is mandatory. Absence from these sessions will make the students ineligible to sit the final summative assessment.
- 3) A minimum of 75 % attendance in the lectures and wards is mandatory to appear in the summative UHS examination
- 4) Attendance will be recorded through a log-in/log-out biometrics system
- 5) Absence due to illness must be certified appropriately by the General Physician

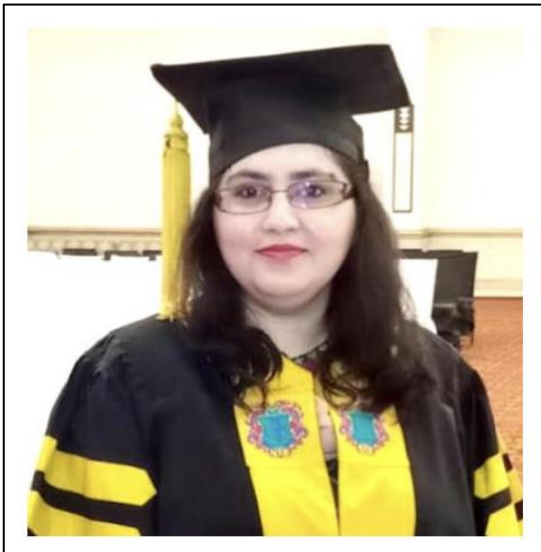
DURATION OF SESSION: March 2025 to December 2025

DEAPRTMENTAL STAFF HIERARCHY/ PLAN

Surgery Department Teaching Faculty for BDS class



Prof Zahid Mahmood (Internal Examiner)/Head of Surgical Unit II



Dr. Rooh-Ul-Ain

Assistant Professor

COURSE TO BE STUDIED (syllabus)

Course outline for 3rd Professional BDS Session 2025

No	Days	Topics	Contents	MIT	Teacher
1	wed	Infections 6 lectures	Wound healing and factors affecting wound healing Complications of wound healing, Sinus, fistula, Cellulitis, Abscess Spread of infection through facial planes	lect.	Prof.Zahid Mahmood
2	Thus	Infections 8 lectures	Cross infection control and sterilization Hospital infections Clinical presentation, diagnosis and treatment of bacterial, viral, fungal and protozoa infections Intracranial complications of dental infections Osteomyelitis	lect.	Dr Rooh-ul-Ain
3	Wed	Salivary Glands 5 lectures	Sialadenitis, Sialolithiasis, Sialosis, Sjogren's syndrome Mikulicz syndrome, Mucocele, Ranula Benign and malignant tumors of salivary gland	lect.	Prof. Zahid Mahmood
4	Wed	Oral Cavity 5 lectures	Epidemiology, classification, clinical presentation, diagnosis and treatment of benign and malignant tumors of oral cavity including epithelial, soft tissue and bone Tongue, lips, buccal mucosa	lect.	Prof. Zahid Mahmood
5	Wed	Neck Pathology 10 lectures	Cervical lymphadenopathy, Branchial cyst, Dermoid cyst Sternomastoid tumor, Cervical rib, Carotid body tumor Carotid aneurysm, Thymic swelling, Cystic hygroma Pharyngeal pouch, Spinal abscess Thyroid gland. Thyroglossal cyst Parathyroid gland	lect.	Prof. Zahid Mahmood
			Mid Term Examination		
6	Thus	Trauma 4 lectures	Principles of pre-hospital, emergency and definitive care of trauma victim with special emphasis on management of	lect.	Dr Rooh-ul-Ain

			Airway, Breathing, Circulation, CPR protocols Head injury, Chest trauma, Abdominal trauma Maxillofacial trauma Principle of fracture healing		
7	Thus	Neoplasia 4 lectures	Definition Difference between benign and malignant tumors Carcinogens, Characteristics of malignancy Method of spread, Diagnosis Treatment, Radiotherapy complications Chemotherapy complications Basal cell CA, Squamous cell CA Melanoma, Osteosarcoma	lect.	Dr Rooh-ul-Ain
8	Thus	Hemorrhage, shock, burns 8 lectures	Causes, presentation, diagnosis and management of primary and secondary and reactionary hemorrhage, nutrition, fluid therapy Vasovagal, cardiogenic, septic, anaphylactic, neurogenic hypoglycemic and hypovolemic shock	lect.	Dr Afza
9	Thus	Larynx, Maxilla, Trachea & Esophagus (8. lecturers)	Maxillary sinusitis Carcinoma Maxillary sinus, Carcinoma Larynx, Tracheostomy, Ca esophagus Achalasia Cleft lip, Cleft palate	lect.	Dr Afza
			Send up		December 2025

GENERAL SURGERY

Surgical Principles

Eliciting a thorough medical history, carrying out a meticulous clinical examination, diagnosis and treatment planning.

Application of invasive and non-invasive diagnostic modalities in surgical practice

Cross infection control and sterilization

Surgical instruments and their use

Sutures and suturing techniques

Protocols of operation theatre, ward work, patient clerking and out-patient clinics

Introduction to basic surgical skills

Healing and Repair of Wounds

Mechanism of healing and repair in both hard and soft tissues.

Complications of wound healing and their management

Surgical Infections

Clinical presentation, diagnosis and treatment of bacterial, viral, fungal, and protozoal infections including hospital infections.

Cellulitis, spread of infection through fascial planes, Ludwig's angina, intracranial complications of dental infection

Osteomyelitis.

Chronic sinuses and fistulae of the oral & maxillofacial region.

Trauma Care

Principles of pre-hospital, emergency and definitive care of trauma victims with special emphasis on the management of airway, bleeding and circulation and CPR protocols.

Principles of management of head, chest and abdominal injuries

Principles of nutrition and fluid intake in trauma victims

Presentation, diagnosis and treatment of maxillofacial trauma

Hemorrhage, Shock, Burns

Causes, presentation, diagnosis and management of primary and secondary hemorrhage; vasovagal, cardiogenic, septic, anaphylactic, neurogenic hypoglycemic, and hypovolemic shock

Presentation and management of burns victims.

Oral & Maxillofacial Pathology

Epidemiology, classification, clinical presentation, diagnosis and treatment of benign and malignant tumors of oral cavity including epithelial, soft tissue, and bone tumors. Special emphasis should be laid down on the oral squamous cell carcinoma, basal cell carcinoma, melanoma and osteosarcoma

Epidemiology, classification, clinical presentation, diagnosis and treatment of odontogenic tumors and cysts with special emphasis on ameloblastoma, Pindborg tumor, dentigerous cyst, radicular cyst and keratocyst.

Maxillary sinusitis, carcinoma and other pathological lesions of maxillary sinus
Sialadenitis, sialolithiasis, sialosis, Sjogren's syndrome, Minkowski's syndrome.

Cystic lesions like mucocele, ranula of salivary glands.

Epidemiology, classification, clinical presentation, diagnosis and treatment of benign and malignant tumors of salivary glands.

Neck pathology

Cervical lymphadenopathy, thyroid gland, thyroglossal cyst, parathyroid gland, branchial cyst, dermoid cyst, sternomastoid tumor, cervical rib, carotid body tumor, carotid aneurysm, thymic swellings, cystic hygroma, pharyngeal pouch, spinal abscess etc
Carcinoma of the esophagus and larynx

Developmental Pathology

Developmental defects of oral and para-oral structure with special emphasis on the cleft lip and palate.

Clinical Assignments

General surgical OPD, wards and emergency

Recommended Books

Text book of general surgery by Bailey & Love

An Introduction to the Symptoms & Signs of Surgical Disease Norman Browse

Clinical Methods in General Surgery by S. DAS

Clinical Methods in General Surgery by Hamilton & Bailey

Text book of Surgery by Ijaz Ahsan

ASSESSMENT METHODOLOGY

Formative

Theory, single best multiple-choice question and SEQ test at the end of each topic finished and all topics tests at end of session

Clinical ward test, comprising of 2 short cases (70 marks) and OSPE comprising of 10 stations (30 marks)

Total marks= 100

MARKS UHS PAPER

SEQ 45

MCQ 45

Clinical 90 (30 OSPE, 30 each for internal and external examiner)

Internal Assessment 20

Total 200

LEARNING RESOURCES

Recommended books

- 1) Textbook of surgery by baileys and love
- 2) An introduction of symptoms & Signs of diseases by Norman Browse
- 3) Clinical methods in general surgery by S. Das
- 4) Textbook of surgery by Ejaz Ahsan

Technologies to be used

- 1) Textbooks are the most important part of student learning for this subject
- 2) Bed side learning with patients
- 3) Hands-on activities and practical sessions to enhance the learning.
- 4) Skills lab will be used for simulated learning of the basic skills related to the gastrointestinal system
- 5) Videos from different web portals to familiarize the students with the procedures and protocols.
- 6) Computer and Internet resources are essential to gather the latest information about a specific disease.