



DEPARTMENT OF ANAESTHESIA & PAIN MEDICINE



LAHORE MEDICAL AND DENTAL COLLEGE

Mission of LMDC

The Lahore Medical & Dental College is committed in its pursuit of excellence to providing the best academic facilities and atmosphere to its students.

Our mission is to: “Train future leaders of medicine who set new standards in knowledge, care and compassion”.

The well qualified and committed faculty of LMDC provides combination of nurturing support and challenge to the students to reach their maximum potential.

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DEPARTMENTAL FACULTY & HIERARCHY

<u>Department of Anaesthesia</u>	
<u>Faculty Staff</u>	
Prof. Dr. Leena Aziz Professor & HOD MBBS, DA, FCPS	
Dr. Shahid Rasool Dar Assistant Professor MBBS, FCPS	
Dr. Muhammad Abdur Rashid Senior Registrar MBBS, MCPS	
Dr. Waseem Younis Senior Registrar MBBS, FCPS	

<p>Dr. Kashif Hussain</p> <p>Senior Registrar</p> <p>MBBS,MCPS</p>	
<p>Dr. Ali Umair</p> <p>Consultant</p> <p>MBBS,MCPS</p>	
<p>Dr. Muhammad Saqib</p> <p>Consultant</p> <p>MBBS,MCPS</p>	
<p>Dr. Adnan Nawaz</p> <p>Senior Registrar</p> <p>MBBS,MCPS</p>	
<p>Dr. Umer Farooq</p> <p>Consultant</p> <p>MBBS, FCPS</p>	

Dr. Namra Nadeem

Senior Registrar

MBBS, FCPS



INTRODUCTION

Medical education is a continuous process that begins with pre-medical education and continues through MBBS, house jobs, and post-graduation. The MBBS curriculum is a component of this continuum. The PM&DC describes the guiding principles for undergraduate medical education and has identified the general competences and intended results for a medical graduate to offer optimal health care, resulting in better health outcomes for patients and society. These fundamental skills are a component of a doctor's identity and establish the minimum standards of care for all doctors. Each competence explains a fundamental skill possessed by an effective doctor. The students will get knowledge of all these abilities and learn how to organize their academic pursuits in the field of anesthesia for their final year after reading this study guide.

PURPOSE OF GUIDE

To help undergraduate students study the topic of anesthesia effectively, by educating them on how the learning program is organized, assisting students in managing their academic workload during the academic year, providing advice on assessment strategies and exam rules and regulations.

- **LEVEL OF STUDENT**

- a. 03rd - 5th year MBBS students

- **DURATION OF SESSION**

- b. March 2024 to December 2024

LEARNING OBJECTIVES (*knowledge, skills, attitude*)

- 1) To equip the students with specific knowledge, essential skills and appropriate attitude towards the specialty of anaesthesia
- 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 medicine
- 7) To always ensure patient safety
- 8) To ensure compliance with the legal system as it impacts health care and the PM&DC regulations
- 9) To adopt a multidisciplinary approach for health promoting interventions
- 10) Medical graduates should be able to demonstrate professional values of self and professional accountability, honesty, probity, and ethics
- 11) Medical graduates are expected to demonstrate exemplary professional conduct
- 12) To be able to determine the risk stratification of Anaesthesia regarding various surgeries
- 13) To be able to select appropriate hematological, biochemical and microbiological investigations and interpret their reports for risk stratification for anesthesia
- 14) To be able to select specific radiological investigations for specific diseases
- 15) To be able to apply perioperative concepts for optimization
- 16) To be able to write perioperative plan in appropriate format
- 17) To keep patients pain free preoperatively
- 18) management of indoor & outdoor pain

SYLLABUS

The Course Outline is as follows:

The students will be taught all these topics.

Introduction and Basics of Anaesthesia
• Introduction and History taking
• Anatomy and Physiology of various system
• Basic resuscitation technique
• Airway Management
Cardiac Concerns
• Hypertension
• CCF
• Pacemaker / IHD
• Valvular heart disease
Respiratory Concerns
• Asthma
• COPD
• Tuberculosis
• Lung pathologies
Renal Concerns
• AKI
• CKD
• Renal Failure
Hematologic
• Hemophilia's
• Transfusion reaction
• Blood loss calculation
• IV Fluids
Infections
• Bacterial infections (Staphylococcal/Streptococcal)
• Fungal infections
• Sterilization
• Hepatitis B,C , HIV
• PPE
Pain Management
• Acute Pain Management
• Chronic Pain Management
• Multimodal Pain Management

TEACHING & LEARNING METHODOLOGIES FOR ANAESTHESIA

- Interactive Lectures
- Student Presentations
- Case Based Learning
- Tutorials
- Essential Skills
- Small Group Discussions
- Pain Clinic & Pre-Op Clinic OPD
- CPC's – Using Modern Audio-Visual Techniques, Distant Learning Using Electronic Devices and Current Information Technology Facilities.
- Journal Club Meetings
- 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

- Students are expected to attend all scheduled teaching sessions and examinations
- Attendance in lectures, tutorials, is mandatory.
- A minimum of 75 % attendance in the lectures and wards is mandatory to appear in the summative UHS examination
- Attendance will be recorded through a log-in/log-out biometrics system

LEARNING RESOURCES

- ***Recommended books***

1. Basic of Anaesthesia Smith & Aitken Head's.
2. Davidson's Principles and Practices of Medicine.
3. Kumar and Clark's Clinical Medicine.
4. Text Book of Anaesthesia (Miller).

- ***Technologies to be used***

1. Textbooks are the most important part of student learning for this subject
2. Preop Clinic & Pain Clinic
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 skin
5. Videos and slides 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.

ASSESSMENT METHODOLOGY

Formative

- **Theory**, single best multiple choice questions at the end of each topic completed. MCQs and SEQs for all topics tests at end of session.
- **Clinical ward test**, comprising of 10 MCQs, 1 SEQ and viva voce contributed by ward attendance and histories taken
- Total marks= 100

Summative UHS examination (to be held at the end of 5th year MBBS)

- Anaesthesia will be a part of Paper-II (medicine).
- It will include:
 - Introduction and Basics of Anaesthesia
 - Application
 - Complication
 - Type
 - Airway Management
 - Reactions
 - Systemic Concerns
 - General Anaesthesia
 - Regional Anaesthesia
 - Pain Management

Summative Examination Eetails:

Anaesthesia will be a part of Medicine paper-II The paper will have the portion of Anaesthesia in the following pattern

6 MCQs.....1 marks each

1 SEQ.....5 marks each

TABLE OF SPECIFICATION FOR MEDICINE EXAM

Anaesthesia will be included in medicine-II. 1 SEQ and 6 MCQs will be the part of the paper.

S.NO	TOPIC	MCQs
1	Introduction and basics of Anaesthesia	01
2	Complications of Anaesthesia	01
3	Airway management	01
4	Types of Anaesthesia	01
5	Prevention of infection & Sterilization	01
6	Cardio Pulmonary Resuscitation	01

***1 SEQ will come from any of the aforementioned topics**

ONLINE TEACHING:

- During covid-19 pandemic, teaching was continued online for Final Year MBBS. Online time tables were formulated by consensus of all the concerned departments. Students, faculty and concerned staff was optimally trained and facilitated by IT and DME.
- Lectures and clinical (Bedside) teaching were held using google meet and Microsoft teams. Class tests were conducted in google class room.
- Assignments, hand-outs, and other necessary information were shared on web portal of LMDC, google class room and Microsoft teams.
- Online tests were conducted using zoom software program.
- Online attendance record was meticulously maintained and added to the total record.
- In case of lockdown or any such crisis similar strategies would be employed for both synchronous and asynchronous e-learning program.

ROBUST FEEDBACK SYSTEMS:

- Feedback on attendance report is forwarded to students and parents on daily basis.
- Feedback on academic performance: Academic performance report is also regularly forwarded to students and parents.
- Individual students are given feedback on their academic performance in one to one session.
- MCQ and SEQ papers are also discussed with students in small groups. Parents of weak students are regularly contacted.

5TH YEAR MBBS TIME TABLE 2025

Lahore Medical & Dental College

Canal Bank North, Tulpura, Lahore

Phone No. 0346-4418891-98

No. LMDC/2551-72/2025, Dated: 25-3-25



LAHORE
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5th YEAR M.B.B.S. TIMETABLE SESSION 2020-2021 w.e.f. 03-04-2025 (session start: 03-03-2025)

DAYS & TIME	08:00 a.m. to 08:50 a.m.	08:50 a.m. to 09:40 a.m.	09:40 a.m. to 10:30 a.m.	10:30 a.m. to 11:00 a.m.	11:00 a.m. to 02:45 p.m.	02:45 p.m. to 03:00 p.m.
MONDAY	Surgery-I / Radiology (06-10-25 to 24-11-25) Lecture Theatre No. 2	Paediatrics Lecture Theatre No. 2	Medicine Lecture Theatre No. 2	Travel to GTTH & Break	Ward / SDL / Skill Lab	Travel to LMDC
TUESDAY	Surgery-II Lecture Theatre No. 2	Paediatrics Lecture Theatre No. 2	Medicine Lecture Theatre No. 2		Ward / SDL	
WEDNESDAY	Obs. / Gynae Lecture Theatre No. 2	Orthopaedics Lecture Theatre No. 2	Medicine Lecture Theatre No. 2		Ward / SDL	
THURSDAY	Surgery-II / Anaesthesia (09-10-25 to 27-11-25) Lecture Theatre No. 2	Obs. / Gynae Lecture Theatre No. 2	Medicine Lecture Theatre No. 2		Ward / SDL	
FRIDAY	Surgery-I Lecture Theatre No. 2	Urology Lecture Theatre No. 2	Dermatology 07-03-25 to 01-08-25 Psychiatry 08-08-25 to 28-11-25 Lecture Theatre No. 2	10:30 a.m. to 10:45 a.m.	* 10:45 a.m. to 12:45 p.m.	12:45 p.m. to 01:00 p.m.
				Travel to GTTH	Ward / SDL	Travel to LMDC
					** 10:45 a.m. to 11:55 a.m.	11:55 a.m. to 12:10 p.m.
					Ward / SDL	*** CPC Auditorium

CC:-

- Principal, LMDC
- Vice Principal, LMDC
- Heads of All concerned Departments, LMDC/GTTH
- HOD Medical Education, LMDC
- Chief Administrative Officer / Director F&A, LMDC
- Director Skills Lab, LMDC
- Director IT, LMDC
- Medical Superintendent, GTTH
- Transport Incharge, LMDC
- Lecture Theatre Incharge, LMDC
- Warden / Assistant Warden Hostels (Boy/Girl)
- Security Supervisor, LMDC
- Class Representative (Boy/Girl)
- M/s Ali Tours, LMDC
- Notice Board

- * In the month of February, March, April, June, July, & September 2025, 1st three Fridays of every month Ward / SDL from 10:45 a.m. to 12:45 p.m. and 4th Friday of every month Ward / SDL from 10:45 a.m. to 11:55 a.m.
- ** In the month of May, August & November 2024, 1st four Fridays of every month Ward / SDL from 10:45 a.m. to 12:45 p.m. and 5th Friday of every month Ward / SDL from 10:45 a.m. to 11:55 a.m.
- *** Last Friday of every month CPC in Auditorium from 12:10 p.m. to 01:00 p.m.
- SDL for 1.5 hours morning ward time (Monday to Thursday) and 30 minutes on Friday.
- SDL for 2 hours evening ward time.

MAJ. GEN. (R) PROF. DR. NAEEM NAQI
PRINCIPAL

SKILLS LAB SCHEDULE FOR 5TH YEAR MBBS 2025

Dispatch # SKLB-18-2025
Date: 04-03-2025

SKILLS SCHEDULE FOR 5th YEAR MBBS 2025 (w.e.f 3-3-25)

Day: Mondays

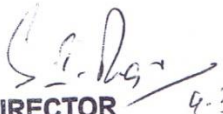
Time: 11:00 to 3:00 pm

Ramzan time: 10:30 am to 2:00 pm

Gynecology Skills		Pediatrics Skills		Surgery –I Skills		Surgery –II Skills	
1. Spontaneous vaginal delivery with episiotomy repair. 2. Breech delivery. 3. Malposition 4. Forceps delivery		Newborn resuscitation		Chest tube intubation Per rectal examination		Skin incisions, surgical knots and Sutures	
10-3-25	A	17-3-25	B	24-3-25	C	7-4-25	D
21-4-25	B	28-4-25	A	5-5-25	D	19-5-25	C
26-5-25	C	2-6-25	D	21-7-25	E	28-7-25	F
4-8-25	D	11-8-25	C	18-8-25	F	25-8-25	E
22-9-25	E	29-9-25	F	6-10-25	A	13-10-25	B
27-10-25	F	3-11-25	E	10-11-25	B	17-11-25	A

Medicine Skills		Anesthesia Skills (students in Medicine-II)		Orthopedics Skills (Students in Surgery-I)		Urology Skills (Students in Surgery-II)	
ACLS		Airway maintenance Endotracheal Intubation		Primary Trauma care		Foley's & Suprapubic Catheterization	
24-3-25	E	7-4-25	F	10-3-25	C	17-3-25	D
5-5-25	F	19-5-25	E	21-4-25	D	28-4-25	C
21-7-25	A	28-7-25	B	26-5-25	E	2-6-25	F
1-9-25	B	8-9-25	A	4-8-25	F	18-8-25	E
20-10-25	C	13-10-25	D	22-9-25	A	29-9-25	B
24-11-25	D	17-11-25	C	27-10-25	B	3-11-25	A

Clinical Session ends on 2-12-2025


DIRECTOR
CLINICAL SKILLS LAB.
Lahore Medical & Dental College
Lahore

PAKISTAN DAY	23 March
EID-UL FITR	30,31 March, 1 st April
YOM-e-TAKBEER	28 May
EID UL ADHA	7-9 June
Summer Break	7 June – 6 July
ASHURA	5-6 July
INDEPENDENCE DAY	14 August
EID MILAD	5 September
ALLAM IQBAL DAY	9 November

COUNSELLING FACILITIES FOR STUDENTS

- **Career Guidance**

- Senior Faculty Member of Anaesthesia Department **Assistant Professor Dr. Shahid Dar** is actively involved in resolving academic and non-academic issues of allocated students.
- Individual students are also referred to the student counsellor, if needed.

- **Psychosocial Counselling**

- Students are guided in resolving personal or psychosocial problems by Dr. Shahid Dar, Assistant Professor and Senior Faculty of the Department.