Frontier Medical & Dental College Study Guide (Adapted from Bahria University Guide)

4th Year MBBS

FRONTIER MEDICAL & DENTAL COLLEGE
ABBOTTABAD

FMDC STUDY GUIDE

The study guide serves as a useful handy resource, helping you to navigate your journey at FMDC.

The study guide is more than an academic guide.

It not only highlights what, as a student, you should aim to achieve as you work through the curriculum, but also provides essential information about various administrative protocols that you as students of Frontier Medical & Dental College are expected to follow.

Vision Statement of FMDC

To become an internationally recognized medical institution that contributes towards development of community health through excellence in medical education.

Mission Statement of FMDC

To attain highest standard in teaching, learning and research according to WFME and PMDC standards.

Program Learning Outcomes (PLOs)

The MBBS programs aims to produce medical graduates who are able to:

1.0 Knowledge

1.1 Explain the microscopic, macroscopic and gross structure of different organ systems in the human body, including musculoskeletal system with their clinical correlation.
1.2 Explain the normal functions of the human body at the molecular, cellular and organ level with their regulation.
1.3 Describe the basic biochemical reactions, synthesis and function of body enzymes and hormones, metabolism of carbohydrate, proteins and lipids with their clinical correlation and basics of human genetics.
1.4 Describe the general principles and concepts of diseases along with etiology, pathogenesis, gross and microscopic morphology of diseases in different organ systems.
1.5 Describe the pharmacokinetics and pharmacological properties of different drugs in common use for human diseases with their different actions, adverse effects and interactions.
1.6 Describe life cycle, mode of transmission and microbiological properties of pathogens affecting human body including bacteria, viruses and parasites, with emphasis on body defense mechanism with their immunological bases and autoimmune diseases.
1.7 Recognize basics of forensic medicine and toxicology along with their clinical applications.
1.8 Recognize clinical presentations, differential diagnosis, investigations and principles of treatment of common diseases affecting the pediatrics age group including congenital and developmental diseases.
1.9 Recognize clinical presentations, differential diagnosis, investigations and principles of treatment of common internal medicine, psychiatric and dermatological diseases including medical emergencies.
1.10 Recognize clinical presentations, differential diagnosis, investigations and principles of treatment of

common surgical diseases including diseases of the eye and ear and their surgical emergencies.
1.11 Recognize clinical presentations, differential diagnosis, investigations and principles of treatment of common gynecological diseases and stages of normal and abnormal pregnancy and delivery with their complications.
1.12 Recognize basics of biostatistics and methods of medical research.
1.13 Explain the principles of problem solving & management strategies.
1.14 Analyze symptoms and signs of different diseases with their impact in differential diagnosis.
1.15 Interpret the results of commonly used diagnostic procedures (laboratory and radiological).

2.0 Skills

2.1 Perform different laboratory experiments with proper handling of laboratory tools.
2.2 Construct a complete medical history in the outpatient, inpatient or emergency settings.
2.3 Perform and document a complete or focused physical and mental examination with eliciting different special physical signs essential for diagnosing different diseases.
2.4 Illustrate the principles and international guidelines for management of traumatic conditions with emphasis on the severely polytraumatized patients.
2.5 Perform basic clinical procedures under strict supervision as and accordingly listed.

3.0 Attitude

3.1 Show respect, empathy and responsibility with the patients and respect for their privacy and dignity.
3.2 Demonstrate communication with the patients and to provide knowledge to patients and their families about the possible therapies and risks in alternative treatment along with obtaining informed consent.
3.3 Demonstrate how to work with the colleagues in a team and to seek consultation from senior doctors.
3.4 Illustrate and present different case studies and give accurate and clear oral summary of the patient's illness.
3.5 Illustrate ethical behavior expected from the doctors towards patients with recognition of patients' rights, particularly as regards to confidentiality and informed consent, access to health care for the members of the underserved populations.
3.6 Demonstrate professional image in manner, dress, speech and interpersonal relationships that is consistent with the accepted contemporary medical profession standards.

7 Star Competencies

The graduate doctor must be a:

1. **Skillful** – Demonstrates proficiency in clinical and procedural skills, applying them safely and effectively in patient care.
2. **Knowledgeable** – Possesses comprehensive medical knowledge integrating basic, clinical, and applied sciences.
3. **Community Health Promoter** – Advocates for public health, engages in preventive care, and addresses community health challenges.
4. **Critical Thinker** – Analyzes clinical problems, applies evidence-based reasoning, and makes sound clinical decisions.
5. **Professional** – Upholds ethical standards, empathy, and integrity while respecting patients' rights and dignity.
6. **Scholar** – Engages in lifelong learning, research, and academic activities to advance medical practice.

7. **Leader and Role Model** – Demonstrates leadership in healthcare teams, mentors peers, and serves as an example for future professionals.

PMDC'S 7 STAR DOCTOR



POLICIES

This section summarizes some key aspects of policies in vogue at FMDC. The student is advised to read the detail in the latest edition of FMDC's Student Handbook.

Student's Code of Conduct

Every student shall observe the following code of conduct in the University premises, in the University administered hostels (on and off-campus) and places of other activities being held under the auspices of the University:

- Loyalty to Pakistan and refraining from doing anything which is repugnant to its honor and prestige in any way.
- Respect for convictions and traditions of others in matters of religion, conscience and customs while observing own religious duties/customs.
- Truthfulness and honesty in dealing with other people.
- Respect for elders and politeness to all, especially to women, children, elders, the weak and the helpless.
- Special respect for teachers and others in authority in the FMDC and BU.
- Cleanliness of body, mind, speech and habits.
- Helpfulness to fellow beings.
- Devotion to studies and prescribed co-curricular activities.
- Observance of thrift and protection of public property.
- Observance of the rules and regulations of FMDC in force from time to time.

Prohibited Acts & Misconduct/Ill-Discipline

The following acts shall be unacceptable, and their commission shall be construed as misconduct or ill-discipline:

- Breach of the Code of Conduct.
- Smoking in the areas prohibited by the college.
- Consumption or possession of alcoholic drinks or other intoxicating drugs within the college vicinity or while attending off-site instructions, sports, cultural tours or survey camps.
- Organizing or taking part in any function inside the campus, or organizing any club or society of students, except were permitted and in accordance with the prescribed rules and regulations.
- Collecting donations or receiving funds or pecuniary assistance for or on behalf of the college except with the written permission of the Head of the College or any other person authorized in this behalf.
- Staging, inciting or participating in or abetting any walk-out, strike or other form of agitation against FMDC or students, teachers, officers or authorities; inciting others to violence; disruption of the peaceful atmosphere in any way; making inflammatory speeches or gestures which may cause resentment; issuing of pamphlets or cartoons which cast aspersions on the students, teachers, staff or college authorities/bodies; doing anything in a way likely to promote rift and hatred amongst the students; issuing statements in the press; making false accusations against or lowering the prestige of BU or its students, teachers, administrators, staff or bodies.
- Disobeys the lawful orders of a teacher or other person in authority.
- Habitually neglects work or absents from the classroom without valid reason.
- Willfully damages public property or the property of fellow students or any teacher or employees of FMDC.

- Does not pay the fees, fines, or other dues payable under the laid down rules and regulations; uses indecent language; wears immodest dress; makes indecent remarks; gestures; behaves in a disorderly manner; commits any criminal, immoral or dishonorable act (whether committed within the FMDC or outside) or any act which is prejudicial to the interests of FMDC; and/or
- Commits an act of sexual harassment, as defined in the HEC's document 'Policy Guideline against Sexual Harassment in Institutions of Higher Learning'.

Action against Misconduct

Every member of the faculty shall have the power to check any disorder or improper conduct, or any breach of the rules, by students in any part of the campus or outside when the visit is sponsored or organized by it. Misconduct in a classroom when a student is under the charge of a teacher shall not be allowed and a punitive action such as a fine, removal from the classroom or a punishment of greater magnitude may be imposed as decided by the authority so empowered. The Student Advisor, the Admin Officer or any other employee authorized by the college shall be responsible for the maintenance of good behavior and law and order amongst the students on the premises of the college.

Penalties:

A student guilty of an act of indiscipline shall be liable to the penalties specified below or promulgated through written orders/notifications:

Penalty Code	Penalty	Awarding Authority	Appellate Authority
1	Removal from classroom, laboratory, or field work, for a maximum period of two contact hours	Teacher In-Charge	HOD
2	Expulsion from games or field work for not more than one week	Games/ Field Work In-Charge	Head of FMDC
3	Expulsion from educational visits and sports tours	Director Admin	Head of FMDC
4	Suspension from classes for a period not exceeding two weeks	Director/ Principal	Head of FMDC
5	Monetary penalties	Director/ Principal	Head of the FMDC
6	Removal from a position of authority on the advice of the Student Advisor / HOD	Director/ Principal	Head of the FMDC
7	Expulsion from the hostel	Head of FMDC	Next Higher Authority
8	Cancellation of remission of fees/assistantship/scholarship etc.	Head of FMDC	Next Higher Authority
9	Rustication for one or more semester	Head of FMDC with concurrence of BUHO	Rector
10	Expulsion from FMDC	Head of FMDC with concurrence of BUHO	Rector

Procedure In case of breach of discipline:

A teacher, a staff member in whose presence or in relation to whom an act of indiscipline has been committed or who gets to know of such act, may deal with the case him/herself, or if in his/her view the case is one which can be more appropriately dealt by another authority or which warrants a penalty of greater magnitude than they are competent to impose, shall refer the case to the Student Advisor or Deputy Director (Admin & Coord) or the higher authority as the case maybe.

All cases of serious breach of discipline shall be referred to the Disciplinary Committee for investigation which, after due process of investigation, will either impose the penalties if within its powers or recommend them to the Campus Head/Rector, as the case may be.

When a case against a student is referred to the Disciplinary Committee, it may, if it deems fit, suspend the student from the classes till the finalization of the case, with the approval of the Head of FMDC.

Appeals

An appeal against the penalty may be filed by the student with the Appellate Authority within 30 days of announcement of the punishment. No appeal by a student shall be entertained unless it is presented within 30 days from the date of communication of the decision, provided that the Rector may, for valid reasons, extend this period.

No appeal shall lie against the decision of an authority imposing a penalty other than rustication or expulsion except on the grounds that such authority imposed a penalty which it was not competent to impose.

An appeal on the grounds that an authority imposed a penalty which it was not competent to impose, shall lie with the body or person of higher authority than the one who imposed the 44 penalty.

Compensation for loss

The Head FMDC, or any teacher or officer to whom he may delegate the powers, may instruct a student to pay compensation for any loss or damage to property belonging to FMDC, public authority, a fellow student or an employee of FMDC, caused by a willful act or gross negligence of the student. If the student does not pay such compensation within a specified period, the Head of FMDC will proceed against the student in the manner as prescribed in these rules.

Offences during examination

Cases of indiscipline in or around the Examination Hall, and use of unfair means, shall be dealt with by the Examination Committee.

Dress code:

Male students:

1. Dress/Casual Trousers
2. Jeans (Plain blue) without an image, graphics, and write ups
3. Casual Shirts (Half/ Full sleeves)
4. T Shirts without any messages, images, graphics, and write ups
5. Dress/Casual shoes or Joggers with socks (no sandals)
6. Shalwar Kameez with shoes (only on Friday)
7. Suit/ Combination
8. Coat/ Pullovers/ Sweaters/ Jackets in winter

Female students:

1. Shalwar Qameez (no sleeveless)
2. Hijab, Abaya, Chaddar etc.
3. Full length Trousers (no tights) with long shirt/ kurta (knee length)
4. Light jewelry and light makeup
5. Shoes, Sandals and Joggers
6. Dupatta/ Scarf is compulsory with all dresses

NOTE: All FMDC students are expected to wear white coat during classes, laboratory and hospital rotations, as well as outside the campus, when on official visit.

Student card

Students shall be issued ID Cards. The students shall be required to wear their ID Cards in the campus and show them to the authorized persons on demand.

Loss of ID card

In case ID card is lost, it should be immediately reported to Admin Office who will make arrangements for re-issue of a new card by FMDC after payment of fine.

Personal behavior

FMDC expects that all students should sustain professional manner when interacting with colleagues and others. The University recognizes that personalities, characters, and management styles may differ but, notwithstanding these differences, as a minimum standard, all are expected to:

- Work co-operatively with each other to achieve objectives and establish good working relationships.
- All should behave and speak professionally, respectfully, and courteously at all times.
- Tidiness and cleanliness must be always adhered to within the Campus premises which will help us maintain a safe, clean, and professional learning environment.
- Use the college's property, facilities, supplies, and other resources in the most effective and efficient manner.
- Unacceptable behavior such as aggressive or abusive behavior, shouting or personal insults or spreading rumors or gossip, or insulting someone is to be avoided at all costs. All these matters, if experienced, should be reported to the vice principal or your mentor or a senior faculty member.

Punctuality:

Students are expected to arrive in class well in time. All cell phones, smartphones, and other electronic devices must be turned off and hidden from view during class time. Talking and other disruptive behaviors are not permitted while classes are in session. If the students miss a class, they are themselves responsible for the missed part of the course. It is the student's responsibility to contact a classmate or teacher to determine and cover what was missed.

At FMDC classes start immediately after holidays. There is no lag period after leave. There will be no relaxation for students who are absent. **Please inform your parents of this and make your travel arrangements accordingly**. Avoid taking leave for personal reasons like weddings during the academic year.

Conduct in library

The College campus has a well-stocked library, and time spent by the students there will meet your research requirements in a calm place. The libraries also provide electronic access through the internet to databases throughout the world.

Library also provides plagiarism detection services

While using the library, Mobile Phones/ iPods/ laptops should be kept on silent mode. Sleeping, listening/ watching drama and music etc.while staying at library is prohibited.

Rules for borrowing books

1. Students are permitted to borrow 3 books at a time for a maximum period of 14 days. Books borrowed may be re-issued on completion of the time period.
2. A valid college card is must for borrowing the Book(s) and other material
3. Textbooks will be issued for 7 working days only but may be reissued the next day of the due date
4. For the Book(s) returned after the due date, a fine of Rs.10/- per day would be charged.
5. Book Bank books will be issued for a period of whole/ one semester.
6. Writing, underling or marking any book is strictly prohibited. Library books are carefully examined on return and the borrower will be held responsible for any damage
7. Following library material will not be issued and must be consulted in the library:
    a. Reference Material.
    b. Thesis/ Project Reports.
    c. Audio/ Video cassettes/ CDs/ DVD's.
    d. Magazines and periodicals.
    e. Newspapers.

Library Timings

DAY	TIMINGS
WEEKDAYS: MON- SAT	8:30 AM to 8:30 PM
WEEKENDS	9:00 AM to 8:30 PM

Conduct in the hospital

When you are working in the hospital be quiet, avoid rowdiness and unnecessary laughter and chatter. Remember the patients need peace, quiet and their rest. You must always wear a white coat. Ladies will wear their dupattas inside the white coat and the gentlemen's ties must be tucked inside the shirt so that infection is not carried from one area to the next. Shoe covers, sterile aprons, caps and gowns must be worn where appropriate. Be polite to the patients, greet them appropriately and inquire after their health and wish them well. All nursing staff must be addressed appropriately and politely. Don't hang around once your work is done. Do not eat or drink inside the wards and treatment areas. Avoid making phone calls and put your phones on the silent mode.

Conduct in cafeteria and common rooms

Campus has a cafeteria with a variety of food items and snacks available at reasonable rates Students are expected to show care, courtesy towards the cafeteria staff as well as to others. Place garbage and recyclables in the appropriate containers.

This behavior will maintain a clean and enjoyable environment for all.

Academic misconduct and disciplinary committee

The Discipline Committee is responsible for maintaining discipline (both academic as well as conduct), and deals with all cases of indiscipline on the part of students.
It recommends award of penalties/ punishments and renders advice to the Director on administrative matters needed to maintain a peaceful environment on the campus. Intimation will be sent to BUHO for all penalties awarded to a student

Members of the committee

Chairperson	Prof.Dr.Munir Tahir, FMDC
Secretary	Mr. Arif Zaman Student section
Members	• Prof. Dr. Johar Ali Principal FMDC • Prof. Dr. Saif ur Rehman, Physiology Dept FMDC • Assistant Prof.Dr.Saadia Community Medicine, FMDC • Mr.Y.M.Khokhar Exam Dept FMDC
Co-opted member	Varies according to the case

Students are to avoid the following:

a) Unauthorized use of the college & University's name or logo which is property of university.
b) Harassment, sexual or otherwise, or intimidation of any member of university.
c) Coming late for classes. The student may be considered absent and marked accordingly.
d) Improper/inappropriate dress
e) Loud and aggressive behavior in Cafeteria or Common rooms or within the premises of FMDC or the affiliated hospitals.
f) Non clearance of bills/dues. Non-clearance of dues may prevent student from appearing in the professional examination. The student may also be refused permission to attend classes.

Use of mobile phone

a) Use of mobile phone for photography at cafeteria is restricted.
b) Library is 'NO Mobile Zone' area.
c) Use of mobile in class room is prohibited.
d) Students are not allowed to use mobile phone for photography/ video capturing during farewell parties.
e) Making videos, images, Vlogs etc. are monitored through CCTV cameras installed inside and outside building.

Smoking

Student guilty of an act of smoking in the premises of Bahria University/ Constituent Unit or while entering/ attending offsite instructions like sports, cultural tours or survey campus shall be liable to the penalties asunder:

Occasion	Penalties
1st occasion of offence on act of Smoking.	Fine of Rs.5000/- along with warning letter with copy to parents from Director Campus
2nd or onward occasion of offense(s).	Fine of Rs.10,000/- along with warning letter (s) With copy to parents from DG Campus on each offence.

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Student guilty of an act of possession/ consumption/ usage/ supplying of intoxication drugs/ Alcoholic drinks in premises of FMDC and or entering FMDC or events of FMDC being intoxicated

and or

During official/ informal off-site events of the college, shall be liable to expulsion from FMDC.

Criminal conviction

a) Applicants are required to inform FMDC of any criminal conviction. Full details are to be provided.
b) The college reserves the right to refuse admission to any applicant with a criminal conviction that may jeopardize the reputation of the University.
c) Failure to declare any criminal conviction by a student already enrolled in FMDC shall result in immediate cancellation of his/her admission.
d) Where admission to the program is denied on the basis of the criminal conviction, the applicant will be notified of the decision in writing by FMDC.

Academic misconduct

Following acts shall constitute academic misconduct:

a) Cheating.
b) Fabrication.
c) Misuse
d) Forgery.
e) Plagiarism.
f) Facilitating academic misconduct.
g) Academic Dishonesty.

The student is advised to refer to their Student Handbook to become fully cognizant of these terms.

Penalties for academic misconduct

TYPE OF MISCONDUCT	PENALTY
Attempt (Successful/ unsuccessful) to know contents of question papers through unfair means prior to examination	***Minor punishment*** a Warning letter (Copy to parents) b. Fine of Rs.2,000. ***Major punishment*** a. Expulsion from the University b. Fine Rs. 5000/00. c. Letter to parents
Possession of written material, relevant to the subject/paper concerned. • Writing on palm, arm or anywhere on the candidate's body or clothes whether the written material is relevant or irrelevant to the concerned paper. • Possession of Mobile phones, Smartwatches, PDAs and other electronics devices, whether or not carrying any relevant or irrelevant material in the memory.	a. Grade 'F' in the subject. b. Fine Rs 5,000. c. Warning, copy to parents. d. Mobile phones/electronic devices to be confiscated. (will be returned after investigation
Giving/receiving assistance or allowing any other candidate to copy from his/her answer books.	***Minor Punishment*** a. Cancellation of the relevant paper. b. Fine Rs 2,000/-. c. Letter of Warning.

	Major Punishment a. Grade 'F' in the subject.(for students involved) b. Fine Rs 5,000/- c. Letter of Warning.
Removing a leaf from answer book. Taking the whole or a part of an answer book or a continuation sheet into or out of examination hall.	a. Grade "F" in the subject. (for students involved) b. Fine Rs. 5,000. c. Letter of warning
Substituting the whole or a part of an answer book or a continuation sheet not duly issued to him for the examination;	a. Grade 'F' in the subject. (For students involved) b. Fine Rs 5,000. c. Letter of Warning.
Forging, mutilating, altering, erasing or otherwise tampering with marked answer scripts	a. Grade "F" in the subject. (for students involved) b. Fine Rs 5,000. c. Letter of Warning
Impersonation	a. Grade "F" in all subjects of relevant semester studied at BU (including the impersonator/facilitator, if a student of BU). b. Expulsion from the university (including the impersonator/ facilitator, if a student of BU). c. In case the impersonator/facilitator is an ex-student of BU or not a BU student, an FIR may be lodged for the offence, asper law of the land.
Using abusive or obscene language in answer book	a. Grade 'F' in the relevant course. b. Fine Rs 5,000. c. Letter of Warning.
Refusing to obey the Invigilator or Head Invigilator in the Examination Hall and misbehaving, resorting to misconduct, or creating any kind of disturbance in or around the Examination Hall	***Minor Punishment*** a. Grade 'F' in the course. b. Fine Rs 5,000. c. Letter of Warning. ***Major Punishment*** a. Rustication for one Semester. b. Grade 'F' in the course. c. Fine Rs5,000/ d. Letter of Warning.
Communicating or attempting to communicate with Examiners with the intention of influencing Them in the award of marks.	a. Cancellation of relevant paper. b. Fine Rs 5,000. c. Letter of Warning.
Possession of firearms, knives etc. inside and in the close vicinity of Examination Hall	a. Expulsion from the University. b. Fine Rs 5,000. c. Letter of Warning.

Sexual Harassment

All students are required to educate and familiarize themselves about the act/actions categorized as "Sexual Harassment" may it be physical, verbal or while utilizing electronic media and refrain from it being a punishable offence.

Higher Education Commission has issued very strict policy guideline against "Sexual Harassment in Higher Education Institutions (HEI)".

All such policies are strictly applicable and followed at FMDC.

All students are therefore required to go through the entire policy's contents which are available with campus (concerned HODs) and University/ HEC website.

- The Protection against Harassment of Women at Workplace Act, 2010
- The Protection against Harassment of Women at Workplace (Amndt) Ac& 2022.
- HEC Policy on Protection against Sexual Harassment in HEIs effective 01 July 2020

Committee for protection against sexual harassment in FMDC

FOCAL PERSONS	
Prof. Dr. Munir Tahir Dean & Prof of Biochemistry FMDC Associate Prof.Dr.Abir Hussain Dean Dental section	Cell: 03345253446 Email:drmunirtahir355@gmail.com Cell:03339108387
Prof. Dr. Johar Ali Principal & HOD General Surgery	Cell: 03009110744
INQUIRY COMMITTEE	
Prof.Dr.Saif-ur-Rehman; Physiology Dept FMDC Associate.Prof.Dr.Irfan;Anatomy Dept	Cell:03213025911 Cell:03370438990
Prof.Dr.Safdar Malik Asst.Prof.Dr.Zeeshan Baig HOD Maxillofacial surgery	Cell:03145154748 Cell:03214669917
Mr.Arif Zaman student section FMDC Mr.Khurram Shehzad student section FMDC	03009118232 03315719810

Code of conduct for protection against harassment of woman at the work place

1. An informal approach to resolve a complaint of harassment may be though mediation between the parties involved and by providing advice and counseling on a strictly confidential basis.
2. A complainant or a staff member designated by the complainant for the purpose may report an incident of harassment informally to her supervisor, or a member of the Inquiry committee, in which case the supervisor or the committee member may address the issue at her discretion in the spirit of this Code. The request may be made orally or in writing.
3. If the incident or the case reported does constitute harassment of a higher degree and the officer or a member reviewing the case feel that its needs to be complainant, the case can be taken as a formal complaint.
4. A complainant does not necessarily have to take a complaint of harassment through the informal channel. She can launch a formal complaint at any time.
5. The harassment usually occurs between colleagues when they are alone, therefore usually, it is difficult to produce evidence. It is strongly recommended that staff should report offensive behavior immediately to someone they trust, even if they do not wish to make a formal complaint at the time.

HEC policy on protection against sexual harassment in higher education institutions

1. Higher Education Institutions ("HEIs") are highly consequential institutions in society that are dedicated to the pursuit and dissemination of knowledge. Members of the HEI community have several important rights and privileges, central among which is the right to pursue inquiry and search for knowledge without hindrance from unlawful or otherwise unacceptable constraints. The HEC, takes very seriously the freedom of teachers, researchers, scholars, students to live and work in a safe environment in which their dignity is protected.
2. Protection against sexual harassment is important not only because it threatens the freedom and conduciveness of the environment and the institutions of higher learning. At a more fundamental level, such conduct is unacceptable because it's violet personal dignity and shall not be tolerated at HEIs in Pakistan under any circumstance.
3. All administrators, deans, managers, faculty, department chairs, directors of schools or program and others in supervisory or leadership positions have an obligation to be familiar with and to uphold this policy and its procedures along with informing members of their staff about its existence.
4. In order to ensure protection of women against harassment complaint may be lodge by any person who has experienced sexual harassment with either the focal person or with any member of the Sexual Harassment Inquiry Committee.

Students grievances oversight committee

There shall be a Student Grievances Oversight Committee (SGOC), to address grievances of students against any teacher, instructor, or administrative staff, with respect to matters of code of conduct, grades, or any administrative matter. The committee shall comprise:

a) Head of FMDC.
b) HOD.
c) FMDC Exam-In-charge.
d) Two (2) seniors-most FMs of the department.

If grievance is about the award of a grade, the procedure shall be as follows:

a) The student must submit the grievance, in writing, within seven working days of the receipt of the grade, to the HOD who shall forward it to the SGOC.

b) The SGOC shall hear both sides and will give its decision, which shall be final and binding on all parties, within five working days or before the start of registration for the new semester, whichever is earlier.

ATTENDANCE POLICY FOR STUDENTS

Attendance policy for regular students.

PMDC rules for eligibility in annual examinations.

- Minimum attendance requirement is 85% in each subject: attendance is for lectures, demos, practical's, clinics, PBLs, PSILs, CPC, presentations etc: indoor and outdoor
- The attendance is not simply for lectures.
- No shortfall in attendance will be condoned in any case by any authority

Attendance is maintained by the Attendance Department at FMDC.

All students should try and achieve 100% attendance. Every teaching session is essential. For clinical students remember a disease being demonstrated may not be seen during the rest of your stay in the college again. You will make the mistake of a life time by missing the opportunity to attend a clinical demonstration. You must have at least 85% attendance in to be permitted to sit for the professional examination.

- Lecture Attendance is marked at the start of the class.
- Students who come more than 10 minutes late are marked absent.
- A random head count is done to ensure correct entry of attendance.
- The attendance sheet is signed by the teacher and sent to Attendance Department.
- The attendance is entered into the spreadsheet as soon as possible on that day.
- No correction will be made later than 24 hours as the system is then locked.

Attendance for clinics, demonstrations, and practical's etc.

- Student signs the attendance sheet in front of the teacher.
- The teacher countersigns it daily.
- Weekly attendance is given by the CR to the Attendance Department - every Monday.
- Attendance submitted later than Friday of the current week will not be accepted.

FMDC rules permit a 15% short fall for genuine reasons of personal ill health of a life-threatening nature or unavoidable circumstances such as death of a blood relative. This 15%relaxation is not so that you can take a holiday.

If you have less than 85% attendance even for reasons of health, you will be asked to repeat the year. Maintaining adequate attendance is your personal responsibility.

Attendance policy for students repeating a year.

Students who have been asked to repeat the year either because of poor attendance or failure in the professional examination or supplementary examination will attend the classes of the failed subject(s).

- Their previous year attendance will not be considered.
- If their attendance is less than 85% in their current class they will not be allowed to appear in the next examination.
- If a student is repeating one subject, then the attendance must be equal to or more than 85% in that subject. This includes all practical classes, demonstrations, PBL sessions, lectures and clinical classes.

Attendance policy for students appearing in supplementary exams.

1. Only students who have appeared in a professional examination are allowed to appear in the supplementary examination**.**
2. Those who were not eligible for the annual exam are not eligible for the supplementary exam.
3. Those who did not avail the chance will have to repeat the year and cannot appear in the supplementary.
4. Students will be provisionally promoted to the next class while preparing for the supplementary examination.
5. Attendance will be marked in the class to which they have been promoted.
6. The student will prepare for the supplementary exam in his/her own time.
7. In case the student fails to pass the supplementary exam he/she will revert to the previous class and the attendance in the new class will be counted in the class to which they revert.
8. Those students who do not attend classes will be marked absent and may face a shortage of attendance and will be asked to repeat the year.

RESEARCH

FMDC has a strong emphasis on research and students are not only taught research methodology as part of their curriculum, but also actively engage in research work, under the supervisor of faculty members.

FMDC has a Research Advisory Committee that has been specifically formulated to guide students in every aspect of their research, from synopsis writing through to publications in peer reviewed journals.

THE MODULES

Organization of modular curriculum and teaching

Each Academic Year is divided into three Modules

First Year	**Modules**	**I,II,III**
Second Year	**Modules**	**IV,V,VI,**
Third Year	**Modules**	**VII,VIII,IX,**
Fourth Year	**Modules**	**X,XI,Xll,**
Final Year	**Modules**	**XIII,XIV,XV**

The Examining subjects are

- **FIRST AND SECOND YEAR MBBS**
  - Anatomy
  - Physiology
  - Biochemistry
- **THIRD YEAR MBBS**
  - General Pathology
  - Pharmacology
  - Forensic Medicine
- **FOURTH YEAR MBBS**
  - Special pathology
  - Community Health Sciences
  - Ophthalmology
  - Otorhinolaryngology
- **FINAL YEAR MBBS**
  - Medicine & Allied
  - Surgery & Allied
  - Pediatric medicine
  - Obstetrics and Gynecology

You will be taught clinical subjects from 3rd year as this need to be taught in great detail and the final year is not sufficient. **The attendance for the subjects of medicine, surgery, Gynae/Obs and pediatrics will be counted from third year.** You will also be taught ethics, Islamiyat, Pakistan Studies and communication skills.

A weekly schedule is placed on the notice board.

LEARNING METHODS

Following Learning Strategies encourage active learning

- PBL
- PSIL
- Journal Club
- Interactive lecture,
- Practical's,
- Demonstrations,
- Dissection Hall Teaching
- Clinical Skills learning
- Skills Lab
- Small group discussions
- Bed Side Teaching
- Field / Community field Trips
- Self-Study with feedback
- Seminars, Workshops

The program lays emphasis on Problem Based Learning (PBL):

This is a small group activity in which the discussion revolves around a real life problem using the Seven Jump process. Students are expected to consult various learning resources to develop better understanding of the subject. PBL sessions contribute towards internal assessment. Students are expected to attend all PBL sessions.

Self-Directed Study:

Student may achieve the objectives by assuming responsibilities of their own learning. By sharing and discussing with peers, working individually, seeking information from LRC, teachers and resources persons within and outside the college. This is possible by utilizing scheduled self- study period in college, and time outside the college.

Problem Based Learning (PBL): What is it?

It is a student-centered approach encouraging deeper learning. Students learn about a problem by working in groups. In first encounter, a problem which is close to real life situation is given. The problem is generally discussed in two sessions.

Frist Session: Learners in small groups, using existing knowledge, discuss (in the presence of facilitator) and list what they do not know or are not sure of, about the problem, the list is known as learning goals objectives.

Self-Study: Learners have approximately three days, during which learners search for new information required to achieve the learning objectives listed. In this process, learners are encouraged to consult various learning resources in addition to the textbooks. This does not require a tutor.

Second Session: Students present their solution and review what they have learnt. Students engage in self, peer, and tutor review of the classes. Learners discuss learning issues and application of new knowledge to the problem and summarize by integrating prior and new knowledge in understanding the problem.

ASSESMENT POLICY

The student at FMDC will be assessed by following strategy

1. Continuous / Formative Assessment done throughout the Year

- Practical journals, PBL sessions
- Quizzes and tests

Reflective, constructive feedback is provided

2. Internal Assessment based upon 03 end of module exams

Each year is organized in 3 modules. Each module is assessed separately. It is mandatory for students to appear in the end of module exams

End of Module Exam comprises of

- Knowledge assessment by MCQs & SAQs;
- Skills & attitude are assessed by OSPE / OSCEs

The internal evaluation will contribute 20% towards final results

Student not appearing in end of module exams will lose internal evaluation marks

3. Summative Assessment

1. The written examination comprises of one paper with:
    - MCQs section
    - SAQ section

Eligibility criteria for appearing in annual professional examinations

A student will be eligible to appear in the annual professional examination if he/she fulfills the following criteria:

1. **85% attendance**
2. **Must have cleared all financial dues**
3. **Must have appeared in all three end-of-module examinations**
4. **No breach of discipline should have occurred for which the Disciplinary Committee has advocated a punishment**

PASS PERCENTAGE

Passing marks in each subject shall be 65% with 55 % in theory and 55% in practical.

POLICY FOR ELECTIVES

- Electives are not mandatory nor are they a part of the curriculum. Electives are considered add on extra-curricular activities with benefits for selection for jobs or postgraduate training after MBBS.
- The Electives Rotation will be of four weeks duration.
- It will be planned at least six months in advance.
- The Elective will be planned during the **WINTER HOLIDAYS** preferably.
- The institution or department will be of the student's choice.
- During the elective the student will not get credit for attending lectures at FMDC.
- It is the student's responsibility to ensure that his/her overall attendance record is not affected adversely by the elective.
- The student will not proceed on an elective without informing the Dean.
- The student will sign a waiver to the effect that any shortfall in attendance is his /her own responsibility and will be dealt with as per rules of BU & FMDC.
- The adequacy of education during the elective is the student's own responsibility.
- Permission to attend an elective is given by the Chairperson Student Affair Department designated for this purpose at FMDC. This simply implies that the college authorities are aware that the student is away for this period so that admission is not cancelled.
- The student will ensure that the Elective Supervisor completes an evaluation report at the end of the elective.
- FMDC will not provide any financial assistance for the elective.

STUDENT AFFAIRS AND STUDENT ASSIST PROGRAM

Chairperson of student affairs is assigned to cooperate with students and parents concerning academic and non-academic matters and can be contacted according to availability or after setting an appointment.

Students' Affairs office

The Students' Affairs Office coordinates administrative co-curricular and extracurricular activities. Students are advised to approach the coordinator student affairs (CSA) for any academic or non-academic matter.

Liaison with parents

The Students Affairs Office also serves as a bridge between the College Administration and parents. Students' progress reports will be mailed to parents on request at the conclusion of every term and annual examination. Similarly, the issue of short attendance, college discipline, and violation of college rules and regulations are handled by this Office.

Within FMDC & Attached SJTH & KATH always display your Student Identity Card!





WHOM TO CONTACT?

Administration FMDC

Prof. Dr. Munir Tahir Dean MBBS section FMDC

Prof.Dr.Syed Abir Hussain Dean Dental section FMDC

Prof. Dr. Johar Ali Principal MBBS section FMDC

Prof.Dr.Wahid Principal Dental section

Mr.Amir Malik HR & Finance Department

Mr.Awais Finance Department

Chairperson: Madam Dr.Shahina Jamil Khan FMDC

Dental & MBBS sections

CURRICULUM GUIDELINES

MODULE- X

Special Pathology

Oral Cavity, Alimentary Tract & Hepatobiliary System, Respiratory System, Hematopoietic & Lymphoid System

Outcome

By the end of this module, students should be able to discuss the:

1. Etiology, Morphology & Pathogenesis of non-neoplastic and neoplastic lesions of oral cavity, alimentary Canal & Hepatobiliary system
2. Etiology, Morphology & Pathogenesis of neoplastic and non-neoplastic lesions of the respiratory system
3. Etiology, Pathogenesis and morphological findings of the various Hematopoietic & Lymphoid pathologies

Objectives

1. Describe the etiology, pathogenesis, morphological features and management of oral and pharyngeal premalignant and malignant lesions
2. Describe the swellings of the salivary glands including pleomorphic adenoma with their clinical significance
3. Discuss the pathogenesis and complications of gastro-esophageal reflux disease (GERD) and dyspepsia.(L)
4. Describe the causes and management of dysphagia and carcinoma of esophagus
5. Describe the etiology and pathogenesis of acid peptic disease including acute and chronic gastritis
6. Describe the etiology, pathogenesis, morphological and clinical features of tumors of stomach including carcinoma
7. Discuss abdominal tuberculosis and its complications
8. Describe malabsorption syndromes
9. Discuss the diagnosis and management of Crohn's disease and ulcerative colitis
10. Discuss the causes of recurrent diarrheas including irritable bowel syndrome (IBS)
11. Classify non-neoplastic and neoplastic polyps of intestinal tract
12. Describe colorectal carcinoma and its clinical management
13. Discuss the etiology, morphology, clinical features and complications of acute appendicitis
14. Describe the pathogenesis and clinical features of diverticular diseases of GIT
15. Describe the types, causes, clinical features and laboratory diagnosis of jaundice
16. Describe the causes, pathogenesis, clinical features and complications of hepatic failure
17. Describe the clinical features, pathology and complications of cirrhosis
18. Discuss portal hypertension and its clinical presentation
19. Differentiate how viral hepatitis A, B, C, D, E and other viruses affect the liver and their long term effect on the body
20. Discuss the carrier state and differentiate between acute and chronic hepatitis
21. Describe the pathogenesis, clinical and morphological features of liver abscesses
22. Describe the pathogenesis, morphological and clinical features of hemochromatosis and hemosidrosis
23. Describe the clinical and morphological characteristics of Wilson's disease and alpha-1 antitrypsin deficiency
24. Discuss the epidemiology, etiology, pathogenesis, morphological and clinical features of hepatocellular carcinoma and metastatic disease
25. Describe the risk factors, pathogenesis and complications of cholelithiasis and cholecystitis (L)
26. Describe the clinical features and morphological changes seen in carcinoma of gall bladder
27. Discuss the etiology, pathogenesis, clinical and morphological features of acute and chronic pancreatitis
28. Describe the morphological and clinical features of carcinoma of pancreas, bile duct and

periampullary carcinoma

29. Describe pathogenesis, clinical features, differential diagnosis and management of Nasal Allergy and Vasomotor Rhinitis
30. Describe the etiological agents and clinical features of common cold, recent viral infections causing swine flu, bird flu and SARS
31. Discuss the etiology, clinical features, morphology and complications of pneumonia (L)
32. Discuss the clinical presentation, morphology, lab findings, complications, treatment and measures for prevention of pulmonary tuberculosis(L)
33. Discuss the etiology, presenting symptoms, natural history and complications of COPD
34. Describe the etiology, pathogenesis, clinical presentation, natural history and Complications of bronchial asthma
35. Describe neonatal and adult respiratory distress syndrome
36. Discuss interstitial lung disease their diagnosis and management
37. Describe pulmonary function tests in the management of chronic lung diseases and mechanical ventilation
38. Discuss the etiology, pathogenesis, classification, clinical course, complications and Preventive measures of lung cancer(L)
39. Describe the common occupational lung diseases, their preventive measures, natural history and complications
40. Describe the normal values of RBC count, hemoglobin level, packed cell volume, MCH, MCV, MCHC, WBC count and platelet count
41. Describe normal peripheral smear and bone marrow findings and correlate these to Pertinent laboratory tests to evaluate hematologic disorders
42. Classify anemias and apply laboratory values for characterization of anemias and in Clinical decision making
43. Discuss the pathogenesis, clinical features and management of Thalassemia
44. Classify hemolytic anemias and discuss the mechanism of glucose-6-phosphate deficiency
45. Describe aplastic anemia with respect to etiology, pathogenesis, clinical features and lab Diagnosis
46. Classify white blood cell disorders (leukemia and lymphoma) and compare pathologic features of each category (L)
47. Describe multiple myeloma with respect to etiology, pathogenesis, morphology and clinical features
48. Describe coagulation cascade, pertinent laboratory tests and clinical features of bleeding disorders
49. Describe disseminated intravascular coagulation with respect to its etiology, pathogenesis, clinical features and lab diagnosis
50. Define thrombocytopenia and distinguish between quantitative and qualitative platelet disorders
51. Describe ABO and Rhesus blood groups and write an outline of how a blood sample is typed.
52. Discuss latest developments and advances in diagnostic approaches and treatment modalities of Gastrointestinal, respiratory and hematological pathologies.
53. Integrate current advancement and innovative research developments with the established pathological aspects of common GI, respiratory and hematological diseases.

Pathology

Lab Skills / Practicals Module – X (Duration 24hrs)

Identify the following pathological lesions on the basis of gross morphological features:

- Acute appendicitis
- Adenocarcinoma stomach
- Intestinal tuberculosis
- Colorectal carcinoma
- Hepatoma
- Chronic cholecystitis with cholelithiasis
- Carcinoma gall bladder
- Adenocarcinoma of pancreas
- Pulmonary tuberculosis

- Lung carcinoma

Identify the following pathological lesions on the basis of histoapthological features:

- Acute appendicitis
- Chronic hepatitis
- Hepatic cirrhosis
- Hepatoma
- Chronic cholecystitis with cholelithiasis
- Carcinoma gall bladder
- Chronic pancreatitits
- Adenocarcinoma of pancreas
- Pneumonia
- Pulmonary tuberculosis
- Lung carcinoma
- Iron deficiency anemia.
- Megaloblastic anemia.
- Hereditary spherocytosis.
- Sickle cell anemia.
- Leukaemias
- Hodgkin's disease
- Non-hodgkin lymphoma
- Vasculitis

Community Health & Sciences

Epidemiology, Biostats, ARI, Diarrheal Diseases, Immunization, CommunicableDisease-I

Outcome:

1. To study the Epidemiology, Biostats, ARI, Diarrheal Diseases, Immunization, Communicable Disease-I.
2. To study the prevention of diseases in community

1. Describe the common occupational lung diseases, their preventive measures and complications
2. Identify the types of variables
3. Describe different epidemiological study designs
4. Calculate and interpret different measures of association
5. To calculate the screening tests
6. Explain the steps of hypothesis testing
7. Describe different sampling techniques
8. Presentation of various graphical data
9. Define epidemiological transition and surveillance
10. To diagnose the community problems
11. Describe the normal distribution curve
12. Calculate and interpret different measures of central tendency
13. Calculate different measures of dispersion
14. Calculate different rates, ratios and proportions
15. Calculate different measures of morbidity, mortality and disability

16. Explain regression, correlation and coefficient of variance
17. Describe various tests of significance
18. Describe the dynamics of disease transmission
19. Investigate an epidemic

20. Discuss the epidemiology of infectious disease
21. Classify the condition of a child with ARI according to the WHO guidelines for the Management of ARI
22. State the general principles of domiciliary management of ARI according to the WHO Guidelines
23. Describe the basic principles of management of diarrhoea according to Plan A & B of WHO guidelines for management and prevention of diarrhoea
24. Describe the domestic method for the preparation of ORS
25. Describe the epidemiology of vaccine preventable diseases that are included in Expanded program of immunization (EPI) in Pakistan
26. Describe the schedule, dose and route of administration of vaccines included in EPI27. Describe indications and contraindications of vaccines included in the EPI.
27. Describe the aetiology / mode of transmission , incubation period, period of Communicability, signs / symptoms, major complications and prevention measures of vaccine preventable disease of public health importance: Cholera, Typhoid, Dysentery, Poliomyelitis and Hepatitis (A B C D & E)
28. Describe host etiological factors, vector, prevention and management of rabies
29. Design the questionnaire of research
30. Describe the fundamental concepts and methods of statistics in the areas of medical research
31. Identify different epidemiological study designs
32. Describe the principles of investigation of an epidemic.
33. Define epidemiological transition and surveillance
34. Define and calculate different types of screening tests
35. Describe types of data and ways of collection of data
36. Explain organization, categorization and analyses of collected data
37. Recognize different types of variables
38. Identify appropriate graphical presentation for each variable type
39. Compute measures of central tendency and measure of dispersion of the variables
40. Calculate the measures of morbidity, mortality and disability
41. Explain regression, correlation and coefficient of variance
42. Describe various tests of significance
43. Calculate and interpret different measures of association
44. Define the concept of normal distribution curve
45. List the steps of hypothesis testing
46. Differentiate between sampling techniques
47. Develop a questionnaire for research
48. Describe research, research methods, research studies, their designs and work feasibility.

Teaching Strategies	Assessment Tools
Discussion LGIS SGD	Assignment CAT exams

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S. NO.	COURSE CONTENT
1.	Descriptive Study
2.	Variables
3.	Measure of Central Tendency
4.	Measures of dispersion
5.	Hepatitis all types with prevention
6.	Case Control Study
7.	Dynamics of Disease Transmission
8.	Cohort Study
9.	Graphical Representation of Data
10.	ARI and growth chart
11.	Cross-sectional Study
12.	Rate, ratio and proportion
13.	Sampling
14.	Investigation of an epidemic
15.	Association and causation
16.	Randomized Controlled Trial
17.	Questionnaire Designing
18.	Epidemiological Transition
19.	Typhoid Fever
20.	WHO Protocol of Diarrhoea
21.	Normal Distribution Curve
22.	Incidence and Prevalence
23.	Vaccination
24.	Community Diagnosis
25.	Screening
26.	Reference writing
27.	Epidemiological Surveillance
28.	Cholera
29.	Rabies
30.	Correlation and Regression
31.	Hypothesis
32.	Infectious disease epidemiology
33.	Test of significance
34.	Communicable diseases
35.	Preparation of ORS

EXCELLENCE & INNOVATION

Ophthalmology (Eye)

Eyelids, Conjunctiva, Cornea, Sclera & Lacrimal System

OUTCOME:

To take detail history, perform clinical examination, understand rationale of investigation and initiate management of common diseases of THE EYE.

1. Describe the clinical and morphological characteristics of Wilson's disease and alpha-1 antitrypsin deficiency along with ocular findings
2. Describe applied anatomy, physiology and congenital malformations of the eyelids and lacrimal Apparatus
3. Formulate differential diagnosis of the following: Eyelid oedema, erythema, nodular & non-nodular lesions, (Stye, Chalazion), Ocular pain, foreign body sensation and watery eye
4. Describe the lesions of the Eyelashes including trichiasis and districhiasis
5. Describe causes, types and management of injury to eyelids and lacrimal drainage System.
6. Describe differential diagnosis, causes, types and management of benign and malignant tumors of eyelids, orbit and lacrimal gland
7. Describe the types, causes and management of blepharitis
8. Describe causes of entropion & ectropion and their management.
9. Discuss causes, evaluation and management of ptosis.
10. Describe types, clinical features and management of dacryocystitis
11. Present detailed history from a patient with symptoms of the eyelids and lacrimal apparatus
12. Discuss the differential diagnosis and management of proptosis including thyroid disease.
13. Perform the torch examination of Eye.
14. Perform direct ophthalmoscopy.
15. Perform Nasolacrimal drainage system Patency test
16. Perform regurgitation test
17. Palpate draining lymph nodes of Eye.
18. Observe Chalazion and Pterygium surgery
19. Observe eyelid repair and reconstruction surgery
20. Describe applied anatomy and physiology of the conjunctiva, cornea and sclera
21. Discuss differential diagnosis of :
    - Itching, pain, photophobia and foreign body sensation and discharge.
    - Blurring of vision and Conjunctival congestion e.g. ciliary or diffuse.
    - Nodular lesions of the conjunctiva, episclera and sclera
22. Describe the types, clinical features, diagnosis and management of acute and chronic conjunctivitis including spring catarrh and adenoviral keratoconjunctivitis
23. Describe types, clinical features and management of injuries to conjunctiva, cornea & sclera:
24. Describe the degenerative conjuctival diseases including Pterygium, pseudopterygium, Pinguecula and retention cyst along with differences.
25. Describe the clinical presentation and diagnosis of Episcleritis and Scleritis
26. Present a brief overview of contact lenses and refractive corneal surgery
27. Explain complications and types of keratoplasty
28. Discuss the complication of contact lens.
29. Observe removal of corneal foreign body
30. Describe a red eye, including corneal ulcers caused by bacteria, fungi and viruses and their management.

Otorhinolaryngology (ENT)
Nose and Paranasal Sinuses Oral Cavity and Pharynx

OUTCOME

To take detail history, perform clinical examination, understand rationale of investigation and initiate management of common diseases of nose and oral cavity

OBJECTIVES

1. Describe the etiology, pathogenesis, morphological features and management of oral and pharyngeal premalignant and malignant lesions.
2. Describe the swellings of the salivary glands including pleomorphic adenoma with their clinical significance.
3. Describe applied anatomy and physiology of the oral cavity and pharynx
4. Formulate differential diagnosis of:
    - Acute and chronic sore throat
    - dysphagia
    - disturbances of taste sensation/salivation
    - mouth ulcers
    - patches in the mouth & pharynx
5. Describe congenital malformations of the mouth, lips, palate and pharynx
6. Describe types, clinical features and management of Injuries to mouth & pharynx
7. Describe types, clinical features, differential diagnosis and management of stomatitis and oral ulcers.
8. Describe types, clinical features, differential diagnosis and management of acute and chronic pharyngitis
9. Describe etiology, clinical features, differential diagnosis and management of acute, recurrent and chronic tonsillitis, quinsy and enlarged adenoids.
10. Elicit and present detailed history from a patient with oral and pharyngeal symptoms
11. Examine mouth and pharynx with a headlight or head mirror
12. Perform clinical examination of mouth and pharynx
13. Palpate draining lymph nodes
14. Examine salivary glands
15. Perform Indirect Laryngoscopy
16. Observe Tonsillectomy and Adenoidectomy
17. Identify different surgical instruments used in nose, oral cavity and pharynx
18. Interpret the findings of plain X-ray PNS, nasal bone, nasopharynx, carotid angiography and CT scan of the nose & PNS
19. Describe applied anatomy and physiology of the nose and paranasal sinuses.
20. Formulate differential diagnosis of common nasal symptoms: Nasal obstruction, discharge, post- nasal dripping, Sneezing, snoring, Epistaxis, Rhinolalia, Disturbances in sense of smell, Facial pain, headache, Nasal deformity, swelling
21. Describe management of common congenital malformations of the nose
22. Describe causes, types and management of nasal Injuries
23. Describe causes and management of epistaxis
24. Describe pathogenesis, clinical features and management of Deviated Nasal Septum (DNS)
25. Describe pathogenesis, clinical features and management of common septal diseases (Hematoma, Abscess and Perforation)
26. Describe types, clinical features and management of foreign bodies in the nose and Rhinoliths
27. Describe etiology, pathogenesis, clinical features, differential diagnosis and management of acute and chronic Rhino-sinusitis

28. Describe pathogenesis, clinical features, differential diagnosis and management of Nasal Allergy and Vasomotor Rhinitis
29. Describe types, pathogenesis, clinical features, differential diagnosis and management of Nasal Polyp
30. Describe types, clinical features and management of Neoplasia of the Nose & Paranasal Sinuses
31. Elicit and present detailed history from a patient with nasal symptoms
32. Use headlight skillfully for nasal examination
33. Perform external inspection of the nose
34. Perform Anterior Rhinoscopy with the help of nasal speculum
35. Perform Nasal Patency test
36. Observe Posterior Rhinoscopy
37. Palpate Nose and Paranasal sinuses
38. Palpate draining lymph nodes
39. Observe Anterior and posterior Nasal Packing
40. Observe SMR, Septoplasty
41. Observe Antral Washout, SMD, Electric Cautery of turbinate
42. Observe Nasal Polypectomy/FESS
43. Observe removal of foreign bodies
44. Describe the etiological agents and clinical features of common cold, recent viral infections causing swine flu, bird flu and SARS

FRONTIER MEDICAL COLLEGE ABBOTTABAD EXCELLENCE & INNOVATION

Clinical Skills Lab Objectives

By the end of skill sessions, 4th year MBBS students should be able to

- Take history of a patient with ENT complaints
- Examine the patients by adjusting ENT head lights
- Identify instruments used for ENT Examination in outpatient department.
- Perform anterior rhinoscopy.
- Perform posterior rhinoscopy
- Examine oral cavity and oropharynx
- Perform external and functional examination of the nose.

Program Outcomes	Outcomes	MIT	Special Pathology	CHS	Eye	ENT	Assessment Tools
1,2,10,11	**PATHOLOGY: 1,2,3** **CHS:** 1. To study the Epidemiology, Biostats, ARI, Diarrheal Diseases, Immunization, Communicable Disease-I. 2. To study the prevention of	LGIS	1,2,4,5,6,8,9, ,12,15,22, 23,24,26,28, 33,34,35,36, 43,44,45,46, 49	1-35	1,2,3,5,6, 7,22,23,2 4,25,26,3 0	1,2,3, 4,5,6, 7, 8,9,19 ,20,21	BCQs , SEQ, VIVA
		SGD	3,7,16,17,18, 19,20,21,31, 32,37	1-35, case studies	2,4,6,9,10 ,23,26,2 7,28	17,18, 39,40, 4	BCQs , SEQ, OSPE,VIVA
		Lab Skills / Ward Based Teaching	3,5,6,12,13, 17,20,24,25, 27,31,32,38, 40,41,42,46, 48,51	7,10,20,2 3 ,26,34,35	8,9,11,12, 13,14,15 ,16,17,18, 19,20,29	10,11, 12,13, 1 4,15,3	BCQs , SEQ, OSPE,VIVA
		Assignment	11,12,29,30	Case studi es	3,8,9,27,3 0		BCQs , SEQ, OSPE,VIVA
		Self- study	2,6,10,47,50		3,7,12,27		BCQs, SEQ
		Student presentation /Journal club	52, 53	Case studi es	2,9,20,22, 28		OSPE,VIVA,

MIT: Mode of information transfers LGIS:
Large group Interactive session
SGD: Small group discussion
Demo: Demonstration
DIS: Dissections
PBL: Problem based learning

MODULE- XI

Special Pathology

Breast, Urinary, Female Genital, Male Genital & Endocrine System

Outcome

By the end of this module, students should be able to discuss:

1. Etiology, pathogenesis and morphological features of the diseases of urogenital system
2. Pathogenesis and morphological features of benign and malignant lesions of breast
3. Underlying pathogenesis, morphological features and chemical changes of various endocrinological pathologies

Objectives

1. Describe etiology, pathogenesis and management glomerulonephritis, nephrotic and nephritic syndromes
2. Describe the epidemiology, morphology, clinical features and management of renal cell carcinoma and transitional cell carcinoma
3. Discuss acute and chronic renal failure with respect to the etiology, pathogenesis, diagnosis and management
4. Discuss the causes, clinical features and complications of hydronephrosis
5. Describe various types of renal calculi, their pathogenesis, clinical features, diagnosis and management
6. Describe acute and chronic pyelonephritis, cystitis and urethritis with regards to their etiology and pathogenesis
7. Interpret the findings of urine D/R and Culture and sensitivity for various pathologies of urinary tract
8. Describe the etiology, pathogenesis, diagnosis and preventive measures for carcinoma of cervix
9. Discuss the causes, diagnosis and management of dysfunctional uterine bleeding
10. Describe the etiology, pathogenesis and clinical features of endometrial hyperplasia and neoplasms of endometrium and myometrium
11. Describe the types, morphology, clinical features and management of ovarian tumors
12. Describe ectopic pregnancy and toxemia of pregnancy with regards to their pathogenesis and management
13. Describe the diagnosis, clinical features and management of gestational trophoblastic tumors.
14. Discuss the causes, pathogenesis, investigations and treatment of infertility.
15. Describe the causes, pathogenesis, investigations, clinical manifestations and management of breast lumps.
16. Discuss the causes, pathogenesis and management of gynecomastia
17. Describe the etiology, pathogenesis, morphology, diagnosis and management of non-neoplastic and neoplastic prostatic lesions
18. Discuss the causes, pathogenesis, investigations, clinical features and management of congenital, non-neoplastic and neoplastic testicular lesions.
19. Describe the causes, pathogenesis, clinical presentation and management of hyper and hypopituitarism and pituitary tumors
20. Describe diabetes insipidus as regards to its etiology, diagnosis and management
21. Describe the etiology, clinical features, pathogenesis, lab findings and management of syndrome of inappropriate secretion of antidiuretic hormone (SIADH)
22. Discuss the etiology, pathogenesis, clinical features, lab diagnosis and management of hyper and hypoadrenalism.
23. Describe the clinical features, diagnosis and management pheoochromocytoma.
24. Discuss the causes, clinical presentations, diagnostic workup of hypercalcemia and hypocalcemia
25. Describe the morphology, clinical features and management of parathyroid tumors
26. Discuss the causes, differential diagnosis, investigations and management of thyroid swellings
27. Describe the etiology, pathogenesis, clinical manifestations, complications and management of diabetes mellitus

28. Discuss latest developments and advances in diagnostic and prognostic approaches and treatment modalities of important urogenital, breast and endocrinological pathologies.
29. Integrate current advancement and innovative research developments with the established pathological aspects of common urogenital, breast and endocrinological diseases

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Pathology

Lab Skills / Practicals Module – Xi (Duration 24 Hrs)

Identify the following pathological lesions on the basis of gross morphological features:

- Renal cell carcinoma
- Hydronephrosis
- Nephrolithiasis & Renal stones
- Prostate hyperplasia
- Testicular tumors
- Carcinoma cervix
- Endometrial polyp
- Endometrial carcinoma
- Adenomyosis
- Leiomyoma
- Ovarian tumors
- Hydatidiform mole
- Choriocarcinoma
- Fibroadenoma breast
- Carcinoma of breast
- Multinodular goiter
- Follicular adenoma of thyroid
- Adenocarcinoma of thyroid

Identify the following pathological lesions on the basis of histoapthological features:

- Renal cell carcinoma
- Benign Prostatic hyperplasia
- Testicular tumors
- Carcinoma cervix
- Endometrial polyp
- Endometrial carcinoma
- Adenomyosis
- Leiomyoma
- Ovarian tumors
- Hydatidiform mole
- Choriocarcinoma
- Fibroadenoma breast
- Carcinoma of breast
- Nodular adenomatous hyperplasia of thyroid
- Follicular adenoma of thyroid
- Adenocarcinoma of thyroid

Community Health & Sciences

Ear Carriers & Control of Infection, Reproductive Health, Nutrition & Demography

OUTCOMES:

To study the ear carriers & control of infection, reproductive health, nutrition &demography

1. Demonstrate various methods of purification of water
2. Identify different sampling technique used to select a sample
3. Understand the steps of hypothesis testing
4. Discuss the impact of high population growth on national development
5. Discuss the role of social mobilization in community development
6. Describe the impact of urbanization on country
7. Learn to use the HMIS to enter, collect and analyse the data with its application
8. Study the effect of human activities that produces the unnatural changes in climate
9. Demonstrate the classification of water borne diseases and influence of water pollution on health
10. Describe the effect of air and ventilation on health
11. Understand the public health importance of healthy housing
12. Describe the methods of different types of waste disposal with its hazards and safety measures
13. Illustrate the effects of radiation and noise on health
14. Understand the roles of the various phases of disaster management
15. Explain the concepts of 'health for all' and 'primary health care'
16. Illustrate the health system and its pillars and role of leadership in health system
17. Discuss the health system of Pakistan and its challenges
18. Describe the classification of infectious diseases and discuss the important infectious diseases
19. Discuss the prevention & control parasitic diseases of public health importance
20. Identify the importance of Family Planning, its concept and application
21. Recognize the challenges in family planning programs in Pakistan
22. Explain the Integrated Management of Pregnancy and Childbirth(IMPAC) and Integrated Management of Childhood Illness IMNCI
23. Describe the knowledge of safe motherhood and evaluate the quality of system
24. Assess the determinants of Infant mortality / Neonatal mortality.
25. Describe the epidemiology of vaccine preventable diseases that are included in Expanded program of immunization (EPI) in Pakistan
26. Describe the schedule, dose and route of administration of vaccines included in EPI
27. Describe the concepts of Occupational Health, it hazards and Principles of control
28. Health Planning Information and Communication
29. Study the effect of human activities that produces unnatural changes in climate
30. Describe the impact of urbanization on country(causes, issues and challenges)
31. Classify water borne diseases and the influence of water pollution on health
32. Assess the various methods of Waste Disposal and Biomedical Waste Management
33. Describe the methods of different types of waste disposal with its hazards and safety measures
34. Describe the effect of air and ventilation on health
35. Recognize the public health importance of healthy housing
36. Identify the effects of radiation and noise on health
37. Describe the roles of the various phases of disaster management
38. Describe the health system and its pillars and role of leadership in health system
39. Recognize the health system of Pakistan and its challenges
40. Explain how to use the HMIS to enter, collect and analyze the data with its application
41. Compare and contrast accidental deaths with other causes of death. Explain the costs and rates of workplace accidents

42. Describe the causes of accidents and methods for prevention; safety programs and practices that will protect them from hazards

Field visits *help in the conversion of theoretical concepts into its practical application of public Health in various settings. Participate actively by generating reasoning and solution strategies. Acquire a better grasp of linking their clinical knowledge with public health approach.*

Teaching Strategies	Assessment Tools
Discussion LGIS SGD	Assignment CAT exams

S. No.	Course Content
1.	Hypothesis testing
2.	Demographic &social implications of high population growth
3.	Social Mobilization
4.	Urbanization
5.	Major sources of population Data & HMIS
6.	Environmental & global health, basic concepts& types of environment Related health Problems
7.	Water pollution & diseases related to water pollution
8.	Air & Ventilation pollution
9.	Introduction & public health importance of housing
10.	Hazards & safety measures for different types of wastes
11.	Different measures of waste disposal
12.	Other types of pollution—radiation & noises
13.	Disaster management & control
14.	PHC & its Evolution
15.	Health system & its pillar; role of leadership
16.	Health system of Pakistan
17.	Infectious diseases, overview & its classification
18	Important infectious diseases
19	Prevention & control parasitic diseases of public health importance

Ophthalmology (Eye)
Anterior Chamber of Eye

Outcomes:

1. To identify pathologies and management of lens.
2. To diagnose and manage the medical emergencies related to Glaucoma.
3. To identify, diagnose Pathologies of Uvietis.

Objectives:

1. Describe applied anatomy and physiology of the crystalline lens.
2. Describe differential diagnosis of Progressive visual blurring, Coloured halos, Uniocular diplopia , Frequent changes of spectacles
3. Describe aetiology, classification, pathogenesis and clinical features of congenital and acquired cataract.
4. Describe complications and management of hypermature cataract.
5. Present detailed history of cataract
6. Examine cases of cataract and differentiate between mature and immature cataract With a torch and direct ophthalmoscope
7. Describe peri-operative management of ophthalmic patient.
8. Describe surgical procedures for congenital and acquired cataract.
9. Describe peri-operative complications and management of cataract surgery.
10. Describe applied anatomy and physiology of the uveal tract
11. Discuss differential diagnosis of Pain, photophobia, Ciliary congestion and Blurring of vision
12. Describe the types, differential diagnosis and management of anterior, intermediate and posterior uveitis.
13. Differentiate between acute and chronic uveitis.
14. Describe the benign and malignant tumours of uveal tract, retina and optic nerve.
15. Describe Injuries of uveal tract.
16. Describe the investigations of diseases of uveal Tract and ocular tumors
17. Observe intra-ocular injections
18. Observe surgery of ocular tumors
19. Describe the clinical features, types and management of open and narrow angle glaucoma.
20. Observe the measurement of intra ocular pressure, gonioscopy, optic disc cupping and visual fields by projection
21. Demonstrate awareness of the use of laser and surgical procedures in glaucoma

ABBOTTABAD MEDICAL COLLEGE EXCELLENCE & INNOVATION

Otorhinolaryngology (ENT)

Ear and VestibularSystem

OUTCOME

To take detail history, perform clinical examination, understand rationale of investigation and initiate management of common diseases of ear.

OBJECTIVES

1. Describe applied anatomy and physiology of the ear. Formulate differential diagnosis of Earache, Deafness, Discharge, Vertigo, Tinnitus, Itching, swelling and deformity of the ear.
2. Read and identify each type of audiogram, tympanogram and BERA
3. Identify and name different congenital malformations of the ear
4. Identify and describe types and management of different injuries to the ear
5. Describe types and management of foreign bodies in the ears
6. Describe etiology, pathogenesis, complications and management of otitis externa
7. Describe etiology, pathogenesis, complications and management of different types of otitis media
8. Describe clinical features, complications and management of wax in the ear
9. Describe types, clinical features and management of the ear neoplasia
10. Describe etiology, pathogenesis, clinical features, and management of Otosclerosis
11. Describe etiology, pathogenesis, clinical features, and management of Meniere's disease
12. Describe types, etiology, pathogenesis, clinical features, and management of labyrinthitis
13. Describe types, etiology, pathogenesis, clinical features, and management of facial nerve paralysis
14. Describe causes, clinical features, prevention and management of sensori-neural deafness (Ototoxicity, Noise Induced Hearing Loss and Presbycusis)
15. Elicit and present detailed history from a patient with ear symptoms.
16. Examine the ears with the headlight skillfully
17. Inspect external ear and tympanic membrane
18. Handle ear speculum skillfully
19. Check mobility of tympanic membrane
20. Perform Tuning fork tests (Rinne's, Weber's & Schwabach's)
21. Handle Otoscope skillfully
22. Palpate and illicit findings of mastoid region and preauricular region
23. Palpate and illicit findings of cervical lymph nodes
24. Observe syringing/ suction cleaning of the ears
25. Observe removal of foreign body from the ears
26. Observe incision and drainage of mastoid abscess
27. Observe mastoidectomy and tympanoplasty operations
28. Identify and enlist uses of different surgical instruments used in ear
29. Interpret the findings of plain X-ray mastoid

Module - XL Clinical Skills Lab Objectives

- Perform external examination of the ear.
- Perform examination of tympanic membrane and otoscopy.
- Perform hearing assessment tests.
- Perform facial nerve examination.
- Perform vestibular function tests.
- Identify the instruments used in common ENT Surgeries.

PROGRAM OUTCOMES	OUT COMES	MIT	SPECIAL PATHOLOGY	CHS	EYE	ENT	ASSESSMENT TOOLS
1,2,10,11	PATHOLOGY: 1,2,3 CHS: To study the ear carriers & control of infection, reproductive health, nutrition & demography. EYE: 1. To identify pathologies and management of lens. 2. Glaucoma. 3. Uvietis. ENT: To study diseases of ear and vestibular system.	LGIS	1,2,4,5,6,8,9,10,11,14,16,17,18,19,20,21,22,23,25,26	1-19	1,3,8,9,12,14,15,1,9	1-14	BCQ,S. SEQ,S, OSPE, VIVA
		SGD	2,3,15,16,24,25	1-19 case studies	2,4,10,13,16	2,24-29	BCQ,S. SEQ,S, OSPE, VIVA
		Lab Skills /Ward Based Teaching	2,4,7,10,11,13,15,17,18,26	7,10,11,19	6,7,8,17,18,20,21	2,15-23,28,30	OSPE, VIVA,BCQ,S
		Assignment	12,13,	case studies	11,12		BCQ,S, SEQ,S, VIVA
		Self-study	9,13,15,17,16,19		5,21		BCQ,S, SEQ,S, VIVA
		Student's presentations	28, 29	Presentation case studies	1,3,10,13		BCQ,S, SEQ,S, VIVA

MIT: Mode of information transfers
LGIS: Large group Interactive session
SGD: Small group discussion
Demo: Demonstration DIS: Dissections
PBL: Problem based learning

MODULE- XII

Special Pathology

Skin, Blood Vessels, Heart, Musculoskeletal & Nervous System

Outcome

By the end of this module, students should be able to discuss:

1. Various cardiovascular diseases with regards to their etio pathogenesis and morphological features
2. The pathogenic mechanisms underlying various musculoskeletal pathologies and their morphological featured
3. Etiology, pathogenesis and morphological features of the diseases of the nervous system and skin

Objectives

1. Describe the risk factors, pathogenesis, clinical presentations, diagnosis and management of ischemic heart disease
2. Discuss the causes, pathogenesis, clinical features and management of heart failure cases
3. Describe hypertension with respect to its etiology, pathogenesis, clinical features, complications and management)
4. Describe the etiology, types and management of aneurysms
5. Describe various types of vasculitidies and varicose veins on the basis of pathogenesis, morphology and treatment
6. Describe the tumors of blood vessels
7. Describe the etiology, pathogenesis, morphological, clinical features and treatment of osteoporosis
8. Describe the pathogenesis, morphological and clinical features of Osteomyelitis and Paget's disease
9. Describe the morphology, diagnosis and management of bones and catilagenous tumors
10. Describe the pathogenesis, diagnosis and management of osteoarthritis, rheumatoid arthritis, infectious arthritis and crystal induced arthritis
11. Describe the pathogenesis, morphology, clinical features and management of muscular dystrophies
12. Describe the types, diagnosis and management of myopathies
13. Describe the pathogenesis, clinical features, complications and management of increased intracranial pressure
14. Describe the etiology, pathogenesis, morphology, clinical presentation and management of Cerebro-vascular diseases
15. Describe etiology, morphology, clinical features and management of acute and chronic meningitis, encaphlitis and brain abscess
16. Describe the pathogenesis, morphology, clinical features, diagnosis and management of neurodegenerative and demyelinating diseases
17. Describe the types, morphology, clinical features and management of brain and nerve tumors
18. Define the following terms: Macule, papule, nodule, plaque, vesicle, bulla, blister, pustule, scale, lichenification, excoriation, hyperkeratosis, parakeratosis, acanthosis, dyskeratosis, acantholysis, papillomatosus, spongiosis
19. Describe the morphological and clinical features of urticaria
20. Classify eczematous dermatitis based on etiology and describe its pathogenesis and clinical features
21. Describe the pathogenesis, morphology and clinical features of psoriasis and seborrheic dermatitis
22. Describe bullous (blistering) lesions
23. Describe the morphology and clinical features of acne vulgaris
24. Describe verrucous lesions
25. Discuss the causative agents and clinical features of impetigo and scabies
26. Classify pigmented and non-pigmented skin tumors
27. Describe the morphological and clinical features of melanocytic nevi
28. Describe morphology, clinical presentation, diagnosis and management of skin tumors
29. Discuss latest developments and advances in diagnostic and prognostic approaches and treatment modalities of important cardiovascular, musculoskeletal and neurological pathologies.

30. Integrate current advancement and innovative research developments with the established pathological aspects of common cardiovascular, musculoskeletal and neurological diseases.

Pathology Lab Skills / Practicals Module – Xii (Duration 24 Hrs.)

Identify the following pathological lesions on the basis of gross morphological features:

- Osteomyelitis
- Osteosarcoma
- Chondrosarcoma
- Ewing's sarcoma
- Giant cell tumor of bone
- Brain infarct
- Brain abscess
- Cerebral atrophy
- Astrocytoma
- Oligodendroglioma
- Ependymoma
- Medulloblastoma
- Meningioma
- Neurofibroma
- Schwannoma
- Malignant melanoma
- Basal cell carcinoma
- Squamous cell carcinoma

Identify the following pathological lesions on the basis of histopathological features:

- Osteomyelitis
- Osteosarcoma
- Chondrosarcoma
- Ewing's sarcoma
- Giant cell tumor of bone
- Astrocytoma
- Oligodendroglioma
- Ependymoma
- Medulloblastoma
- Meningioma
- Neurofibroma
- Schwannoma
- Malignant melanoma
- Basal cell carcinoma
- Squamous cell carcinoma

PROMISE MEDICAL COLLEGE ABBOTTABAD EXCELLENCE & INNOVATION

Community Health & Sciences

Ergonomics, Communicable Diseases-Ii, Non-Communicable Diseases & Parasitic Diseases

OUTCOMES:

To recognize, identify, Communicable diseases-II, Non-Communicable diseases & Parasitic diseases

1. Recognize the nutritional needs of children and adults
2. Identify the role of diet in causing and preventing various diseases
3. Describe the methods used to assess nutritional status of community
4. Discuss the burden and prevention of behavioural and life-style related diseases
5. Discuss the concepts, definitions and life course approach to RMNCH
6. Describe the strategic approach for RMNCH including Family planning
7. Illustrate the population effects on health and development
8. Identify the challenges in family planning programs in Pakistan
9. Discuss the impact of high population growth on national development
10. Identify the population effects on health and development
11. Explain the concepts of 'health for all' and 'primary health care'
12. Describe the dynamics of disease transmission
13. Discuss the epidemiology of infectious disease
14. Classify infectious diseases and their importance
15. Differentiate between the etiology / mode of transmission, incubation period, period of Communicability, signs / symptoms, major complications and prevention measures of vaccine preventable disease of public health importance: Cholera, Typhoid, Dysentery, Poliomyelitis and Hepatitis (A B C D & E)
16. Classify the condition of a child with ARI according to the WHO guidelines for the Management of ARI
17. State the general principles of domiciliary management of ARI according to the WHO Guidelines
18. Describe the basic principles of management of diarrhea according to Plan A & B of WHO guidelines for management and prevention of diarrhea
19. Describe the domestic method for the preparation of ORS
20. Recognize the nutritional needs of children and adults
21. Identify the role of diet in causing and preventing various diseases
22. Interpret the development of child by the growth chart
23. Discuss the challenges and issues to achieve the SDG 2 in Pakistan and different age groups
24. Identify strategic plans for the prevention of malnutrition and the consequences
25. Recognize different nutritional program in Pakistan
26. Identify the methods used to assess nutritional status of community
27. Recognize the burden and prevention of behavioral and life-style related diseases
28. Discuss the prevention & control parasitic diseases of public health importance.

Teaching Strategies	Assessment Tools
Discussion LGIS SGD	Assignment CAT exams Quizzes

S. No.	Course Content
1.	Nutrition: Concepts, requirements, balanced diet, pyramid
2.	Nutritional issues and challenges in Pakistan
3.	Assessment of nutritional status in a community
4.	Approaches for addressing Malnutrition in Pakistan
5.	Behavioural sciences and life style: Epidemiology of common Public Health problems

6.	Prevention and control of behavioural and life-style related diseases
7.	Life course approach to RMNCH: concepts, definitions, approaches
8.	Strategic approach for RMNCH including Family planning
9.	How population affects health and development?
10.	Family planning programs in Pakistan
11.	IMNCI: strategic approaches
12.	IMNCH: indicators, issues and challenges in Pakistan
13.	Child health and development
14.	Growth charts demonstration and application
15.	Adolescent health and development

TEACHING STRATEGIES ASSESSMENT TOOLS

- Continue assessment test (CAT) exam
- Assignments
- BCQs, SAQs and OSPEs
- LGIS: Large group Interactive session
- SGD: Small group discussion
- Demo: Demonstration
- Ø same goes for all modules.

LAB SKILLS OBJECTIVE ASSESSMENT TOOL

Conduct Research: Identify the tools and skills required to understand research terminology and assess published research · Identify the types of methods best suited for investigating different types of problems and questions · Design a research proposal · Organize and conduct research in appropriate manner Write a research report

SPSS: Practice SPSS (Windows) to examine the distribution of different types of data with the use of descriptive statistics, tabulations and charts · Calculate descriptive Analyze and interpret the results statistics, standard errors and confidence intervals for the means. · Examine the relationships between two variables (e.g. income and educational level) with the use of cross- tabulations and charts · Conduct hypothesis tests and draw inferences

Mendeley: is a free reference manager that can help you collect references, organize your citations, and create bibliographies.

Open Epi Calculator: For sample size calculation

Purification of water: Demonstrate various methods of purification of water BCQ, SAQ, OSPE, VIVA

Domestic preparation of ORS: Demonstrate the preparation of ORS at domestic level BCQ, SAQ, OSPE, VIVA

Vaccination: Recognize the importance of immunization as a critical public health intervention · Identify vaccine-preventable diseases · Identify an appropriate anatomical site for vaccination · Understand the importance of proper vaccine storage and handling · Identify the contraindications and complications associated with vaccination BCQ, SAQ, OSPE, VIVA

Contraception: Understand different methods of contraception and its implications in long term and emergency situation · Describe mechanism of action, benefits, limitations and complications of various BCQ, SAQ.

Incinerator: Understand the function of incinerator. It is a waste treatment process are described as "thermal treatment It converts waste materials into ash, flue gas and heat .This process is usually selected to treat waste that has cannot be recycled, reused in a land fill site

CHS TUTORIAL LIST

LAB SKILL	OBJECTIVE	ASSESSMENT TOOL
Conduct Research Proposal	• Understand the tools and skills required to understand research terminology and assess published research • Identify the types of methods best suited for investigating different types of problems and questions • Design a research proposal • Organize and conduct research in appropriate manner	BCQ, SAQ, OSPE, VIVA **CAT and theory class test after the end of the Module**
SPSS and Mendely	• Practice SPSS (Windows) to examine the distribution of different types of data with the use of descriptive statistics, tabulations and charts • Calculate descriptive statistics, standard errors and confidence intervals for the means. • Examine the relationships between two variables (e.g. income and educational level) with the use of cross-tabulations and charts • Conduct hypothesis tests and draw inferences	

Purification of water	• Demonstrate various methods of purification of water	
Domestic preparation of ORS	• Demonstrate the preparation • of ORS at domestic level	
Vaccination	• Recognize the importance of immunization as a critical public health intervention • Identify vaccine-preventable diseases • Identify an appropriate anatomical site for vaccination • Understand the importance of proper vaccine storage and handling • Identify the contraindications and	
Contraception	• Understand different methods of contraception and its implications in long term and emergency situation • Describe mechanism of action, benefits, limitations and complications of various family planning methods	

LGIS: Large group Interactive session SGD: Small group discussion Demo: Demonstration
DIS: Dissections
PBL: Problem based learning

Modular exams will be held at the end of each module

Field visits help in the conversion of theoretical concepts into its practical application of Public Health in various settings. Participate actively by generating reasoning and solution strategies. Acquire a better grasp of linking their clinical knowledge with public health approach.

Ophthalmology (Eye)
Retinal Diseases, Neuro-Ophthalmology, Squint, Refraction & Ocular Trauma

OUTCOMES: To identify pathologies and manage diseases of retina.

Objectives:

1. Describe applied anatomy and physiology of vitreous and retina.
2. Discuss the differential diagnosis of Floaters, Flashes of light, blurring of vision, falling of curtain in front of eye.
3. Explain differential diagnosis of sudden or gradual painless and painful loss of vision
4. Describe the types, clinical features and management of Injuries to vitreous and retina.
5. Describe types, clinical features, differential diagnosis and management of acute posterior vitreous detachment (PVD)
6. Describe types, etiology, clinical features, differential diagnosis and management of retinal detachment
7. Describe aetiology, stages, clinical features, differential diagnosis, complications and management of diabetic retinopathy (DR), periphlebitis retinae (Eale's disease), hypertensive and atherosclerotic retinopathy.
8. Describe the age related macular degeneration (ARMD),
9. Explain the causes, signs, differentials and management of central retinal arterial and venous occlusion
10. Discuss signs, causes and management of retinitis pigmentosa (RP)
11. Present detailed history of vitreo-retinal disorders
12. Demonstrate use of laser in retinal disorders
13. Observe intravitreal injections
14. Observe surgery for vitreo-retinal disorders
15. Describe applied anatomy & physiology of 2nd to 7th cranial nerves.
16. Describe lesions, types, differential diagnosis and management of optic nerve, 3rd, 4th, 5th& 6th cranial nerves and visual pathways
17. Describe the path way of pupillary reflexes and their lesions.
18. Describe the applied anatomy and physiology of extra ocular muscles.
19. Describe the ocular motility defects Describe lesions, complications, types and management of refractive errors including Amblyopia.
20. Describe the types and management of squint

Otorhinolaryngology (ENT)
Larynx, Head & Neck

OUTCOME

To take detail history, perform clinical examination, understand rationale of investigation and initiate management of common diseases of Larynx and head and neck.

OBJECTIVES

1. Describe applied anatomy and physiology of the larynx, Trachea and neck
2. Formulate differential diagnosis of Cough (laryngeal & pharyngeal causes), hoarseness, stridor, dyspnea, bleeding and pain in the throat.
3. Describe types and management of congenital malformations of the larynx
4. Describe types, clinical features, differential diagnosis and management of laryngeal injuries, stenosis and foreign bodies

5. Describe etiology, pathogenesis, clinical features, differential diagnosis and management of vocal nodules
6. Describe etiology, pathogenesis, clinical features, differential diagnosis and management of vocal cord paralysis
7. Describe etiology, pathogenesis, clinical features, differential diagnosis and management of acute and chronic laryngitis
8. Describe etiology, types, pathology, clinical features, differential diagnosis and management laryngeal neoplsia
9. Describe procedure, indications, contraindications and complications of tracheostomy
10. Describe procedure, indications, contraindications and complications of laryngoscopy, bronchoscopy and esophagoscopy
11. Elicit and present detailed history from a patient with laryngeal symptoms.
12. Use headlight or head mirror skillfully for examination of larynx
13. Perform external examination of the larynx
14. Perform Indirect laryngoscopy
15. Observe direct laryngoscopy and microlaryngoscopy
16. Observe tracheostomy
17. Describe applied anatomy and physiology of the salivary glands.
18. Identify and diagnose a case of salivary calculus, parotitis, sialadenitis or tumour of the salivary gland.
19. Describe pathophysiology, clinical features, investigations and management of a case of salivary calculus, parotitis, sialadenitis or tumour of different salivary glands.
20. Identify and diagnose a case of swelling or mass in the neck.
21. Describe pathophysiology, clinical features, investigations and management of a case of swelling or mass in the neck.
22. Describe types, clinical features and management of neck space infections.
23. Describe general principles, technique, types, clinical uses and safety measures of laser surgery.

FRONTIER MEDICAL COLLEGE ABBOTTABAD EXCELLENCE & INNOVATION

24. Interpret the findings of plain X-ray floor of the mouth, orthopentomogram, sialogram, barium swallow and CT scan of the head & neck.
25. Identify and enlist uses of different surgical instruments used larynx
26. Perform and illicit findings on palpation of cervical lymph nodes.
27. Perform and illicit findings on clinical examination of a swelling or mass in the neck or salivary gland.

Module – XII Clinical Skills Lab Objectives

- Perform external examination and palpation of the neck.
- Examine cervical lymph nodes.
- Perform indirect laryngoscopy.
- Examine salivary glands.
- Examine thyroid glands.

FRONTIER MEDICAL COLLEGE ABBOTTABAD EXCELLENCE & INNOVATION

PROGRAM OUTCOMES	OUT COMES	MIT	SPECIAL PATHOLOGY	CHS	EYE	ENT	ASSESS MENT TOOLS
1,2,10,11	**PATHOLOGY** 1,2,3	LGIS	12,4,5,6,7,9,10,13,14,16,17,18,19,20,21,22, 23,26,27,28	1-15	2,3,4,6,8, 1 8,19,20,	1-10,17-23	BCQ,S. SEQ,S, OSPE, VIVA
		SGD	2,8,11,12,15, 24,25	2,4,8,9,12, 14 Case studies	6,7,8,17	10,15,16, 20, 24,25	BCQ,S. SEQ,S, OSPE, VIVA
		Lab Skills / Ward Based Teaching	9,17,26,27,28	1,3,8,10,14	1,9,10,12,1 3,14,15,1	11-14,25-28	OSPE, VIVA,BCQ,S
		Assignment	15,17	Case studies	11,20		BCQ,S, SEQ,S,
		Self- study	12,19,22,25		10,16,17		BCQ,S, SEQ,S, VIVA
	identify, Communicable diseases-II, Non-Communicable diseases & Parasitic diseases. **EYE:** Identify pathologies and manage diseases of retina. **ENT:** understand	Student's presentations	29,30	Case studies presentation	11,17		BCQ,S, SEQ,S, VIVA

General Surgery

At the end of MBBS 4th year Clinical Rotation, every student should be able to:

1. Apply knowledge of basic and clinical sciences to formulate a probable diagnosis.
2. Interpret surgical diseases on the basis of imaging technique/s.
3. Demonstrate knowledge of peri and post-operative management.
4. Demonstrate knowledge of sterilization and asepsis.
5. Demonstrate professional behavior in theatre.
6. Demonstrate knowledge of Fluid electrolyte balance and Acid Base Balance.
7. Blood transfusions, complications & blood product. Writing blood Transfusion notes.
8. Demonstrate all aspects of Shock

Plastic Surgery

1. Differentiates between malignant and benign ulcer
2. Differentiates between malignant and benign nevi
3. Demonstrate signs of vascular lesion
4. Demonstrate skin and subcutaneous infections
5. Demonstrate congenital deformities of face lips and palate
6. Demonstrate types of skin grafts and causes of rejections

Pediatric Surgery

1. Demonstrate physical examination of infants
2. Demonstrate signs / symptoms of dehydration and fluid overload
3. Demonstrate the knowledge of fluid and electrolyte in children
4. Demonstrate the radiological feature and S/S of congenital causes of intestinal obstructions
5. Demonstrate common congenital Urological problems
6. Learns common surgical diseases in neonate and children
7. Learns problems of hypothermia during surgery

Urology

1. Demonstrate Knowledge of Renal function test and Acute & chronic renal failure
2. Demonstrate knowledge of obstructive uropathology
3. Demonstrate knowledge of congenital problems& calculus uropathy
4. Demonstrate knowledge of urogenital Tumors
5. Demonstrate knowledge of renal tract infection
6. Identify Radiological features of urological deformities

Pediatrics

Introduction

The curriculum of Pediatric is based on common health related problems of Pakistani children. A medical student should have the minimum knowledge and skills to provide comprehensive health care to children, counsel mothers and care givers on immunization, nutritional diet, and risk factors. Medical students should be sensitive to children needs and behavior.

From MBBS fourth to fifth year, students will have several learning opportunities in different clinical settings to achieve the objectives.

Outcomes

Medical Knowledge

- Perform age-appropriate differential diagnosis and critically appraise information to make evidence based decisions
- Demonstrate the ability to generate an age-appropriate differential diagnosis based on the interview and physical examination.

Clinical Care

- Demonstrate an ability to perform an age-appropriate history and physical examination in children of all ages.
- Interpret the results of common diagnostic tests with an emphasis on age related norms.
- Search for relevant information using data sources (textbooks, electronic searches) and critically appraise the information obtained to make evidence based decisions in patient care.

Professional Behavior

Demonstrate a positive attitude and regard for education by demonstrating universal attendance, punctuality, intellectual curiosity, initiative, honesty, responsibility, dedication to being prepared, maturity in soliciting, accepting, and acting on feedback.

Communication Skills

- Demonstrate communication skills with patients and families that convey respect, integrity, flexibility, sensitivity, and compassion while avoiding use of medical jargon.
- Present a complete, well-organized verbal and written summary of the patient's history and physical examination findings, including an assessment and plan modifying the presentation to fit the time constraints and educational goals of the situation.

Learning Objectives

History taking:

1. Taking and presenting age appropriate detailed Pediatric history.
2. Neonatal detailed history taking with special emphasis on antenatal history.

Examination:

3. Examination of newborn.
4. Conducting physical examination of children. Know the normal and abnormal findings and their causes.
5. Understanding normal growth and development.

General Physical Examination:

1. General physical examination and Anthropometry.
2. Performing anthropometry and its interpretation.
3. Plot the anthropometric measurements on the growth charts.
4. Basics about the growth charts.
5. Know the causes of abnormal GP examination findings.

Respiratory Examination:

1. Conduct Chest examination: anterior, posterior and lateral.
2. Signs of respiratory distress

Abdominal examination:

1. Perform the abdominal examination: inspection, palpation, percussion and auscultation.
2. Examine for visceromegaly.

Central nervous system examination:

1. Perform the GCS examination and know the variation in GCS scoring system of infants.
2. Perform lower motor examination.
3. Signs of Upper motor neuron lesion.
4. Cranial nerve examination.
5. Examine for the Cerebellar signs.

Cardiovascular Examination:

1. Perform precordial examination.
2. Examine the peripheral pulses.

Newborn examination:

1. Perform head to toe examination of a neonate.
2. Perform and explain the APGAR scores.
3. Determine the gestational age based on Ballard score.

FRONTIER MEDICAL COLLEGE ABBOTTABAD EXCELLENCE & INNOVATION

COMMUNICATION LEADERSHIP AND PROFESSIONALISM

At the end of each academic year student will be able to

Learning objectives	Instructional strategies
• Communicate in an effective and engaging way for the recipient • Communicate bad news appropriately • Communicate effectively about ethical issues with patients and family • Disclose harmful patient safety incidents to patients and their families accurately and appropriately	• Small group discussion video presentation with multiple scenarios • Role play • Demonstration on Standardized patients • Small group exercises • Student's presentations. • PBL, PSIL, Journal club
• Practice skills to engage in conflict productively and work toward conflict resolution	
• Avoid conflicts of interest • Relates to the patient respectfully including ensuring confidentiality, privacy and autonomy	

INTEGRATED PATIENT SAFETY CURRICULUM

S.No	TOPICS/ THEME	LEARNING OUTCOMES	LEARNING OBJECTIVES	INSTRUCTIONAL STRATEGIES	ASSESSMENT TOOLS
1.	**Introduction to Patient Safety**	• The learners shall be able to ○ Understand the importance of patient safety in healthcare. Recognize common types of medical errors and their impact.	• Define patient safety and its relevance to clinical practice. • Identify and categorize different types of medical errors. • Recognise the Role of a doctor in a Culture of Safety and in Building Safer, More Reliable Systems	LGIS x 1	MCQ SEQ SAQ MEQ EMQ
2.	**From Error to Harm**	• The learners shall be able to ○ Understand the progression from medical error to patient harm. ○ Identify factors contributing to patient harm.	• Explain the mechanisms through which errors lead to harm. • Discuss preventive strategies to minimize harm.	SGD x 1 Interactive workshops x 1	MCQ SEQ SAQ MEQ EMQ

			• Describe the Swiss Cheese Model		
3.	**Human Factors and Safety**	• The learners shall be able to ○ Understand the role of human ○ factors in patient safety. ○ Apply human factors principles to clinical practice.	• Explore the Science of Human Factors • Design Principles to Reduce Human Error • Recognize the Risks and Rewards of Technology • Define human factors and their impact on healthcare delivery. • Analyze case studies to identify human factor issues.	LGIS x 1 SGD x 1	MCQ SEQ SAQ MEQ EMQ
4.	**Teamwork and Communication**	• The learners shall be able to ○ Appreciate the importance of effective teamwork and communication. ○ Develop skills for effective interdisciplinary communication.	• Discuss the fundamentals of Teamwork and Communication • Recognize the Tools and Techniques for Effective Communication • Prioritize Safety During Transitions Across the Continuum of Care • Identify key components of effective teamwork. • Practice communication techniques such as SBAR (Situation, Background, Assessment, Recommendation)	LGIS×1 SGD x 1 Or Role play x1 Communication skills workshop x1	MCQ SEQ SAQ MEQ EMQ
5.	**Responding to Adverse Events**	• The learners shall be able to ○ Learn to respond appropriately to adverse events. ○ Understand the importance of disclosure and apology.	• Explain the steps to take following an adverse event. • Practice delivering a disclosure and apology.	LGIS×2 Skill Lab x 2 Standardized patient encounters. Role play x1	MCQ SEQ SAQ MEQ EMQ OSCE

6.	**Root Cause Analyses and Actions**	• The learners shall be able to ○ Conduct root cause analysis (RCA) for adverse events. ○ Implement actions based on RCA findings.	• Outline the steps involved in conducting an RCA. • Develop action plans to address root causes. • Discuss Actions to Build Safer Systems	LGIS x1 Skill Lab x 1 Problem-based learning session x1	MCQ SEQ SAQ MEQ EMQ OSCE/Action plan presentations
7.	**Achieving Total Systems Safety**	• The learners shall be able to ○ Understand the concept of total systems safety. ○ Develop strategies to promote systems- based safety improvements.	• Explain the principles of systems safety in healthcare. • Identify systems-based approaches to improving safety. • Suggest Eight Recommendations for Total Systems Safety • Support the Health Care Workforce with Patients and Families	SGD x 2	MCQ SEQ SAQ MEQ EMQ
8.	**Pursuing Professional Accountability and a Just Culture**	• The learners shall be able to ○ Appreciate the balance between accountability and a just culture. ○ Foster a culture of safety and learning.	• Define professional accountability and just culture. • Develop strategies to implement a just culture in clinical settings.	LGIS×1, SGD×1 Bed side teaching x 1	MCQ SEQ SAQ MEQ EMQ OSCE

ABBOTTABAD
EXCELLENCE & INNOVATION

LEARNING RESOURCES

Pathology

Recommended Books:

- Cotran RS, Kumar V and Collins T. Robbin's Pathologic Basis of Disease (8th ed.). Philadelphia: W.B. Saunders. 2010.
- Walter JB and Talbot IC. Walter and Israel's General Pathology (7th ed.). New York: Churchill Livingstone. 1996.
- Kumar V, Cotran RS, and Robbins SL. Basic Pathology (8th ed.). Philadelphia: W.B. Saunders. 2007.
- Rubin E, Pathology (4th ed.) Philadelphia: Lippincott-Raven. 2005
- Harsh Mohan. Textbook of Pathology (6th ed.). Jaypee brothers. 2010.
- Damjanov I and Linder J. Anderson's Pathology (10th ed.). Mosby, Elsevier Inc. 2009.
- Rosai J. Rosai and Ackerman's Surgical Pathology (9th ed.). Mosby, Elsevier Inc. 2009.

ATLAS:

- Wheater P et al. Basic Histopathology: A Color Atlas and Text (2nded.). Edinburgh: Churchill Livingstone. 1990.
- Harsh Mohan. Pathology practical book (2nded.). Jaypee brothers, 2007

WEBSITES:

- The internet pathology laboratory for medical education
- Library.**med**.utah.edu/WebPath/webpath.html

Community Health Sciences

Recommended Books

- Park's Textbook of Preventive and Social Medicine- K.Park 20th Edition
- Public Health In Commuity Medicine by Mohammad Iliyas- Iliyas.Shah.Ansari

Ophthalmology (EYE)

Recommended Books

- Basic Ophthalmology 2016 – By Jogi
- Clinical Ophthalmology 2016 –By Jotoi
- Kanski Ophthalmology 8th.ed –By Kanski
- Ophthalmology Undergraduates 2015 –By Devi PG

Otorhinolaryngology(ENT)

Recommended Books

- Lange's Current Otolaryngology, 2008 edition -By L. Lalwani.
- Diseases of Ear, Nose & Throat, 7th edition-By P.L. Dhingra
- Logan Turner's Diseases of ENT, 11th edition -By P.M. Stell
- Principles & Practice of Oto-rhino-laryngology, 6th edition -By Iqbal Hussain Udaipurwala.
- Oto-rhino-laryngology - A problem oriented approach, 2nd edition- By Iqbal Hussain Udaipurwala.
- Scott Brown's Otolaryngology, 8th edition. For references and selected topics

Atlas:

A color atlas of Otorhinolaryngology by Bruce Benjamine. Martin Dunitz. 6 volumes.

Websites:

https://tradownload.co/results/cummings-otolaryngology.html.

FRONTIER MEDICAL COLLEGE ABBOTTABAD EXCELLENCE & INNOVATION

ACADEMIC CALENDAR

BAHRIA UNIVERSITY HEALTH SCIENCES CAMPUS KARACHI
Fourth Professional MBBS
Batch 2021-2026
Academic Calendar
Revsied

Dated: 28 Jan 2025

SESSION STARTS

9th December 2024 (Monday)

TENTH MODULE (12 WEEKS)

Module Starts	-	9th December 2024 (Monday)
Module Ends	-	28th Feb 2025 (Friday)
Theory Examination	-	3rd, 4th, 5th & 6th Mar 2025(Monday to Thursday)
OSPE / Viva Examination	-	7th, 10th & 11th Mar 2025 (Friday, Monday & Tuesday)

ELEVENTH MODULE (12 WEEKS)

Pre-Vacation Session (03 Weeks)

Module Starts	-	12th Mar 2025 (Wednesday)
Module Break	-	28th Mar 2025 (Friday)
Eid-ul-Fitr Vacations*	-	31st Mar 2025 to 4th Apr 2025 (Monday to Friday)

Post-Vacation Session (09 Weeks)

Module Starts	-	7th Apr 2025 (Monday)
Module Ends	-	6th Jun 2025 (Friday)
Eid-Ul-Adha Vacations*	-	9th Jun 2025 to 20th Jun 2025
Theory Examination	-	23rd, 24th, 25th & 26th Jun 2025 (Monday to Thursday)
OSPE / Viva Examination	-	27th, 30th Jun & 1st Jul 2025 (Friday, Monday & Tuesday)

TWELFTH MODULE (12 WEEKS)

Module Starts	-	2nd Jul 2025 (Wednesday)
Module Ends	-	19th Sep 2025 (Friday)
Theory Examination	-	22nd, 23rd, 24th & 25th Sep 2025 (Monday to Thursday)
OSPE / Viva Examination	-	26th, 29th & 30th Sep 2025 (Friday, Monday & Tuesday)

FINAL EXAMINATION: - **November/December 2025**

PROF. DR. SAIFULLAH SHAIKH
Academic Coordinator (Medical)
BUHSCK

DR. KHALID MUSTAFA
Vice Principal (Medical)
BUHSCK

*** Subject to Sighting of Moon**

Frontier Medical and Dental College Abbottabad

Academic Calender 2026-2027

MONTHS, WEEK DAYS & DATES								SCHEDULED ACADEMIC & CO CURRICULAR EVENTS	PUBLIC HOLIDAYS/ HEALTH & AWARENESS DAYS
	SUN	MON	TUE	WED	THU	FRI	SAT	MBBS	
Jan-26					1	2	3	WINTER BREAK	
	4	5	6	7	8	9	10		
	11	12	13	14	15	16	17		
	18	19	20	21	22	23	24		
	25	26	27	28	29	30	31		World Leprosy Day 26th Jan
Feb-26	1	2	3	4	5	6	7		World Cancer Day 4th Feb
	8	9	10	11	12	13	14	Commencement of Modules IV, VII, X, XIII	Kashmir Solidarity Day 5th Feb
	15	16	17	18	19	20	21		
	22	23	24	25	26	27	28		Intl's Women's Day 8th Mar
Mar-26	1	2	3	4	5	6	7	Commencement of Module I Orientation Week	World Kidney Day 12th Mar
	8	9	10	11	12	13	14		World Disabled Day 15th Mar
	15	16	17	18	19	20	21		Eid ul Fitr 21st - 23rd March
	22	23	24	25	26	27	28		Pakistan Day 23rd March
	29	30	31						World Tuberculosis Day 24th Mar
Apr-26				1	2	3	4		Oral Cancer Awareness 1st April
	5	6	7	8	9	10	11		World Health Day 7th Apr
	12	13	14	15	16	17	18		Hemophilia Day 17th Apr
	19	20	21	22	23	24	25		World Liver Day 19th Apr
	26	27	28	29	30			End of Module IV, VII, X, XIII Exams	
May-26						1	2		Labour Day 1st May
	3	4	5	6	7	8	9	Commencement of Modules V, VIII, XI, XIV	Thalassemia Day 8th May
	10	11	12	13	14	15	16		
	17	18	19	20	21	22	23	End of Module I	Eid ul Azha 26th-28th May
	24	25	26	27	28	29	30	Commencement of Module II	Youme Takbeer 28th May
	31								World Tobacco Day 31st May
		1	2	3	4	5	6	Summer Break	
Jun-26	7	8	9	10	11	12	13		World Brain Tumor Day 8th Jun
	14	15	16	17	18	19	20		World Blood Donation Day 14th June
	21	22	23	24	25	26	27		Ashura Days 25th-26th June
	28	29	30					Extracurricural Activities/ Sports Week	
Jul-26				1	2	3	4		National Doctor's Day 1st July
	5	6	7	8	9	10	11		
	12	13	14	15	16	17	18		
	19	20	21	22	23	24	25		
	26	27	28	29	30	31			World Hepatitis Day 28th July
Aug-26							1		1st August Oral Hygiene Day
	2	3	4	5	6	7	8	End Moodular Exam V, VIII, XI,IV Exams	
	9	10	11	12	13	14	15	Commencement of Modules VI, IX, XII, XV	Independence day 14th Aug
	16	17	18	19	20	21	22		
	23	24	25	26	27	28	29	End Moodular Exam II	Eid Milad un-Nabi 25th August
	30	31						Commencement of Module III	
Sep-26			1	2	3	4	5		Defence Day 6th Sep
	6	7	8	9	10	11	12		Research Competition Sep
	13	14	15	16	17	18	19		World Patient Safety Day 17th sept
	20	21	22	23	24	25	26		World Alzeheimer's Day 21st Sep
	27	28	29	30					World Heart Day 28th Sep
Oct-26					1	2	3		Breast Cancer Month-October
	4	5	6	7	8	9	10		Intl Teacher's Day 5th Oct
	11	12	13	14	15	16	17		World Mental Health Day 10th Oct
	18	19	20	21	22	23	24		World Food Day 16th Oct
	25	26	27	28	29	30	31	End of Modules VI, IX, XII, XV Exams	World Osteoporosis Day 20th Oct
									World Polio Day 24th Oct
Nov-26	1	2	3	4	5	6	7		
	8	9	10	11	12	13	14		Iqbal Day 9th Nov
	15	16	17	18	19	20	21	Tentaive Date of MBBS Professional Exam End of Module III	World Immunization Day 10th Nov
	22	23	24	25	26	27	28		World Diabetes Day 14th Nov
	29	30							
									World AIDS Day 1st Dec
			1	2	3	4	5		National Pollution Day 2nd Dec
Dec-26	6	7	8	9	10	11	12	Tentaive Date of MBBS 1ST Professional Exam	Intl Universal Health Coverage Day 12
	13	14	15	16	17	18	19		

	20	21	22	23	24	25	26
	27	28	29	30	31		

Quaid's Day / Christmas Day 25 Dec

	Public Holidays
	Health & Awareness Days
	Modules & College Vocations

Prepared By: DME

Frontier Medical & Dental College