WAH MINDICAL COLLEGE

Wah

Medical

College

2021-2025

Department of Medical Education

STUDY GUIDE 4th YEAR MBBS Y4BX

2021-2025

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VISION

National University of Medical Sciences envisions a world with a better quality of life for all by enhancing our contribution to healthcare, education, innovation, and research.



MISSION

To produce competent medical professional graduates equipped with sound knowledge & research capabilities based on scientific principles, imbued with ethics and moral values primed to serve the community through the profession and pursue research & advanced training in any branch of medicine".

1. Outcomes of WMC MBBS Program:

 At the end of our five-year MBBS program, the graduates should be able to:

 1. Independently manage common, non-critical clinical problems.

 2. Assist in the management of critically ill patients & demonstrate competency in life saving procedures.

 3. Exhibit the attributes of an ethical professional.

 4. Conduct research which brings relevance to health care practices.

5. Act as an efficient community health promoter.

6. Exhibit scientific knowledge in all professional activities.

7. Demonstrate clear and efficient written & verbal communication skills.

8. Exhibit the habits of a lifelong learner.

2. Introduction to the Study Guide:

D Objectives of the Study Guide

Dear Students,

We, at the Department of Medical Education, Wah Medical College, have developed this study guide especially for you. This study guide aims to:

- Inform you about the organization of learning programs in this block which will help you to contact the right person in case of any difficulty.
- Help you in organizing and managing your studies throughout the block
- Guide you on assessment methods, rules, and regulations.
- Define the outcomes which are expected to be achieved at the end of the block.
- Identify the learning strategies that will be implemented to achieve the block outcomes such as lectures, small group discussions, clinical skills, demonstration, tutorial, and case-based learning
- Provide a list of learning resources such as books, and journals for students to consult to maximize their learning.

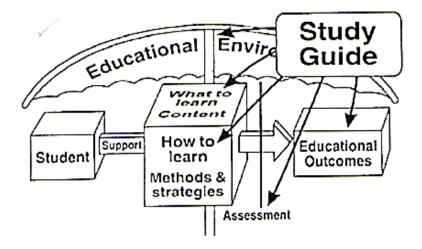


Figure 1. Objectives of the study Guide(HARDEN, J.M. LAIDLAW, E.A. HESKETH, 1999)

II. Commonly used abbreviations & Logos in the study guide Learning Outcomes:

Learning outcomes are statements that define the expected goal of your course, lesson, or activity in terms of demonstrable skills or knowledge that will be acquired by you as a result of instruction. In simple words, these are the things that you must be able to tell or do with the required attitude after learning a particular topic.

1. <u>Educational Strategies:</u>

These are the methodologies through which you will be taught by your instructors. These can include.

Abbreviation	Logos
LGIS: Large Group interactive	
session/Lecture	لفغف
Flipped Classroom	FLIPPED
CBL: Case based learning.	K
Practicals	
Demonstrations	ŕ ⊋
SGD: Small group discussions	
BST: BedSide Teaching	
Skill Lab	
Clinical Teaching (OPD/ OT/ IPD	Ú

Large Group Interactive Sessions

In a large group, the lecturer introduces a topic or common clinical condition and explains the underlying phenomena through questions, pictures, videos of patient's interviews, exercises, etc. Students are actively involved in the learning process.

Flipped classroom

A pedagogical approach in which the conventional notion of classroom-based learning is inverted: students are introduced to the learning material before class with classroom time then being used to deepen understanding through discussion with peers and problem-solving activities facilitated by teachers.

Small Group Discussion

This format helps students to clarify concepts, acquired skills or attitudes. Sessions are structured with the help of specific exercises such as patient cases, interviews, or discussion topics. Students exchange opinions and apply knowledge gained from lectures, tutorials, and self-study. The facilitator's role is to ask probing questions, summarize, or rephrase to help clarify concepts.

Case-Based Learning

This is a small group discussion format where learning is focused around a series of questions based on a clinical scenario. Specifically, designed case scenarios and the learning outcomes to be achieved are shared with the student before the session. Students prepare for the CBL and during class they discuss and answer the questions applying relevant knowledge gained in clinical and basic health sciences during the block. Faculty members are present as a guide and an assessor.

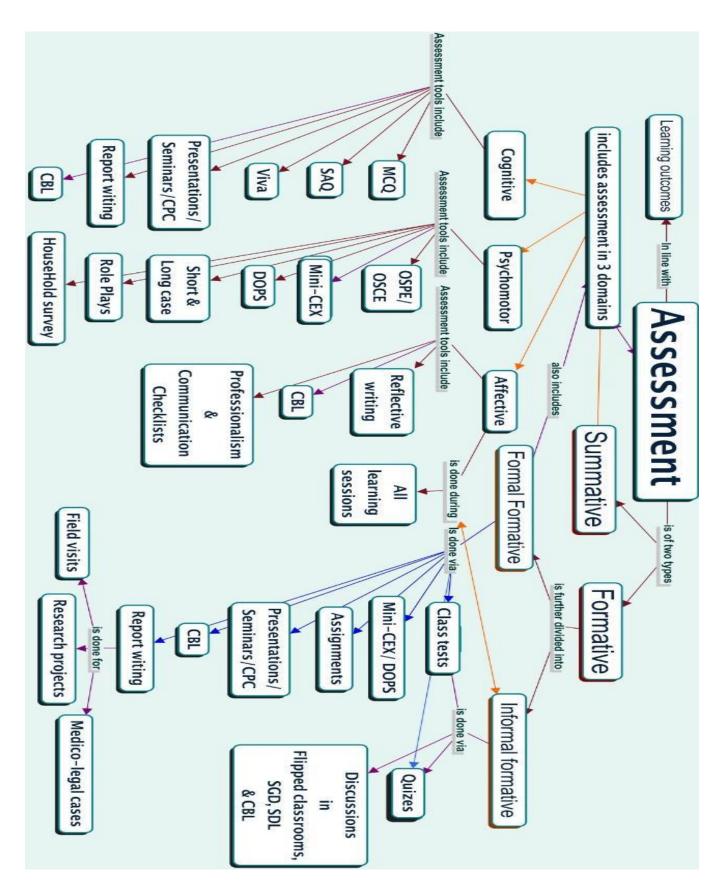
Self-Directed Study

Students assume responsibilities of their own learning through individual study, sharing and discussing with peers, seeking information from the Learning Resource Center, teachers, and resource persons within and outside the college. Students can utilize the time within the college schedule hours for self-study under supervision.

Bedside teaching

Students learn clinical case scenarios/ patient examination firsthand at the patient's bedside with the help of the instructor in case of online teaching, the same cases will be shown to you online with the help of videos and live clinical teaching.

3. Assessment Map & Strategies



i. Internal Assessment.

During the block the students will be continually formatively assessed. The weightage of internal assessment will be 20 % in final professional MBBS Examination. There will be two EOB and one pre-annual examination. There will also be end of rotation exams at the end of each clinical rotation. The scores of the EOB assessment, clinical rotation assessment and pre-annual examination will be used for calculation of the internal assessment. It is mandatory for MBBS students to appear and pass the pre-annual exam with at least 33% marks in each subject as per PMC rules, failing which student is not eligible to appear in the university exam.

ii. Annual Professional Examination.

The University will take the 4th professional Examination as per PMC guidelines at the end of the academic year. Annual Theory & Practical Examination will be of 300 marks each in Special Pathology & Community Medicine & 200 marks each in ENT & Ophthalmology. The pass score will be 50% in theory and practical separately. However, in clinical subjects, students should pass in clinical exams / OSCE (with 50% marks) and unobserved stations (with 50% marks) separately.

Scheme of Assessment

SPECIAL PATHOLOGY, COMMUNITY MEDICINE

Marks of theory paper = 120 Time Allowed = 3 hours Total Marks = MCQs:40% (60 marks) +SEQs:40% (60 Marks) +IA:20% (30 Marks) = 150 Pass Marks = 75 **Paper-1:** 80 MCQs, Time =80 min *Marks of MCQ components shall be rationalized to 40% weightage out of 150. *If a candidate obtains 70 marks is MCQs it will be rationalized as: (70/80*60=52.50) **Paper-2:** 9x SEQs: 7 questions x 6 Marks each + 2 questions x9 Marks each= 60 Marks Time = 100 min **ENT & EYE**

Marks of theory paper = 80 marks, Internal Assessment = 20 marks Time Allowed = 3 hours Total Marks= MCQs:40% (40 marks) +SEQs:40% (40 marks) +IA:20%(20 marks)

Pass Marks = 50 **Paper-1**: 60 MCQs = 40 marks Time = 60 min *Marks of MCQ components shall be rationalized to 40% weightage. *If a candidate obtains 50 marks is MCQs it will be rationalized as: (50/60*40=33.33) **Paper-2:**

Time = 120 min 8x SEQs = 05 Marks Each = 40 Marks

INTERNAL ASSESSMENT - TH	EORY
INTERNAL ASSESSMENT WEIG	GHTING: 20%
Exams	Weightings
Attendance in Lectures:	10%
a. ≥90% = 10%	
b. 80-89% = 7%	
c. 75-79% = 5%	
End of Block/ clinical rotation (theory) Examination	45%
Continuous assessment (average score of all tests attempted	20%
after	
every learning session during the academic year)	$\overline{)}$
Pre-Annual Exam	25%
Total	100%
INTERNAL ASSESSMENT STRU	CTURE - PRACTICAL
INTERNAL ASSESSMENT V	VEIGHTING: 20%
Exams	Weightings
Attendance in Practicals:	10%
a. ≥90% = 10%	
b. 80-89% = 7%	
c. 75-79% = 5%	
*End of Block/ clinical rotation (OSCE) Examination	45%
*Continuous assessment of practical/ clinical skills and attitude	20%
Pre-Annual Exam	25%
Total	100%

4. <u>Structured Summary of Y4BX</u>

Name	Y4BX
Derretier	11
Duration Prerequisite Block	11 weeks 3rd Professional exam
Special Pathology	
Special Factority	• Cardiovascular system, Respiratory system, Gastrointestinal system, Hepatobiliary system and Pancreas.
Community Medicine	• General epidemiology, Infectious disease epidemiology, Biostatistics, Concept of health and disease, Health care delivery system, Screening, Respiratory infections,Occopational health Research
ENT	• Congenital anomalies of the ear, Ear discharge, Referred otalgia, Vertigos, Facial nerve related disorders, Tumours of ear, mastoid bone and acoustic neuroma, Deafness in adults and children
Ophthalmology (EYE)	• Introduction to Ophthalmology and Medical Ethics, Refractive errors, Eye Lid, Surgical Retina, Diabetic Retinopathy, Retinal Vascular Diseases and Hypertensive eye Disease, Macular disorders, Peadiatric Vitreoretina
Gynecology	• Medical complications of pregnancy (Hypertension, cardiac diseases, liver disorders, obstetric cholestasis and venous thromboembolism), Normal labour, preterm labour, preterm prelabour rupture of membranes (PPROM) and multiple pregnancies, Antenatal care, prenatal diagnosis, Common perinatal infections.
Surgery	 Basic principles of cardiovascular surgery Principles of Management of Surgical Gastrointestinal Pathologies Principles of Management of orthopedics Trauma and Pathologies Principles & type of Anaesthesia
Medicine	 Common cardiovascular, Gastroenterology, Pulmonology, Dermatology and Psychiatry Disorders Complications, preventive and safety measures of these disorders, Critically ill patients in A&E department
Peads	• CVS, GIT, Respiration

5. <u>Block Development Committee</u>

Chairperson	Prof. Dr. Musarat Ramzan		
Block In-charge	Prof. Shezadi Sabah Imran		
Members/ Resource	Community Medicine	: Prof. Shezadi Sabah Imran	
persons	Pathology	: Prof. Jamila	
	ENT	: Lt. Col (R) Prof. Muhammad	
		Asad Chughtai	
	Ophthalmology	: Dr. Yaseen Lodhi	
	Surgery	: Brig. Prof. Manan Masood	
	Medicine	: Dr. Syed Asim Ali Shah	
	Gynecology	: Dr. Khair un Nisa	
	Pediatrics	: Dr. Tahir Mehmood	
	Behavioral Sciences	: Miss Sara Rubab	
Study guide developed by	Department of Medical Education Wah Medical College under Supervision of Prof. Dr. Musarat Ramzan		
Resource person for Study Guide	Dr. A	Ambreen Ansar	

6. Course content

Community Medicine

Subject Learning Outcomes

At the end of fourth year MBBS program the student will be able to:

- 1. Apply knowledge of statistics to measure all health problems affecting people at individual and community levels, right from birth to death, considering research and ethical approaches. (PLO 2,3,4,6,7).
- 2. Recommend measures for prevention, protection and education about the common community health problems. (PLO 1,3,5,6,7).
- 3. Evaluate the existing service for its suitability to cater for needs of the people and recommend modifications need fully. (PLO 6).
- 4. Apply relevant statistic to conduct a house hold survey and a mini research project. (PLO 3,4,6,7)
- 5. Demonstrate professionalism and leadership in all situations involving individuals and community. (PLO 3, 7)
- 6. Describe composition, functions and programs of various international health agencies for national and international health care. (PLO 6)

Block Learning Outcomes

At the end of first block, the student of 4th year MBBS will be able to:

- 1. Assess health and disease status of the community using indicators to promote health and prevent disease. (SLO1,3,4)
- 2. Relate the role of public health in providing relevant individual and community healthcare. (SLO1,3,4)
- 3. Apply relevant statistics to conduct a house hold survey. (SLO 4,5)
- 4. Describe health system of the country by applying concepts of Primary Health Care and Leadership. (SLO 2,3)
- 5. Apply epidemiology of common communicable and non-communicable diseases in the global and local context for control and prevention of diseases. (SLO 1, 2)
- 6. Demonstrate computing and soft skills. (SLO 2,4,5)
- 7. Write comprehensive report on assigned tasks. (SLO 2,4,5)
- 8. Demonstrate professional behavior in all learning activities. (SLO 5)

S.#	Торіс	Educational Strategies	Name of Instructor	Importance (Must Know Should Know Could Know)		
1.	General Epidemiology	Flipped class	Prof Dr. Musarat	Must know		
		room	Ramzan			
Lear	Learning Outcomes:					

- Calculate various measures of morbidity, mortality and association.
- Describe uses and limitations of various measures of mortality and morbidity.
- Interpret comparison of mortality at different places.
- Differentiate individual and population-based study designs
- Select the design for confirming associations on the basis of its advantages and disadvantages.
- Differentiate types of errors in research
- Justify the criteria of association and causation in the given situations.

2.	Biostatistics	LGIS/SGD	Prof Dr. S. Sabah	Must know
			Dr. Robina Rizvi	
			Dr. Khola Waheed	
			Dr. Sadia Nadeem	
			Dr Saleh Ahmed	

Learning Outcomes:

- Identify various types of data, data presentation, distributions, sampling techniques and probable errors in research.
- Calculate measures of central tendency, dispersion and ranges of normally distributed data.
- Generalize results of a sample over the population by using appropriate test of significance
- Differentiate various sampling techniques.
- Select relevant sampling technique for a given situation
- Apply steps of hypothesis testing for a given research question

3.	Concept of health and	Flipped Class	Dr. Robina	Must know
	disease	Room	Mushtaq	

Learning Outcomes:

- Apply concept of causation, natural history and disease spectrum in the given situations
- Calculate health indicators.
- Interpret type of agent, levels of prevention and intervention measures in the given scenarios

4.	Infectious	disease	Flipped class	Prof Dr. Musarat	Must know
	epidemiology		room	Ramzan	

Learning Outcomes:

- Differentiate between the terms used to describe a disease.
- Relate relevant levels of prevention with the stages of a disease.
- Interpret patterns of disease distribution in time, place and person.
- Rationalize steps taken to investigate an epidemic.
- Extrapolate control measures for diseases in any affected area.

5.	Screening	Flipped class	Prof. Dr. S. Sabah	Must know
		room	Imran	

Learning Outcomes:

- Compare and contrast screening and diagnostic test
- Correlate favorable characteristics of a disease that make screening useful and relevant for the disease.

- Select an ideal screening test on the basis of its characteristics and ethics.
- Interpret calculated values of the Sensitivity, Specificity, PPV, NPV, False positive and False negative rate and accuracy of the test
- Recognize effect of changes in the cut off value on sensitivity, specificity, false positives, false negative, true positive and true negatives rates.
- Relate validity with precision of a screening test
- Interpret likely errors in screening.
- Explain methods of evaluation of screening program

6.	Occupational health	LGIS/ Flipped	Dr Sadia Nadeem	Must know
		class room		

Learning Outcomes:

- Identify occupational diseases on the basis of clinical and laboratory findings.
- Suggest preventive measures for Occupational Diseases.

7.	Respiratory infections	Flipped	Dr Sadia Nadeem	Must know
		classroom		

Learning Outcomes:

- Compare and contrast the epidemiological determinants, mode of transmission, spectrum, clinical presentations and investigations of gastrointestinal and respiratory infections.
- Suggest strategies for disease control and prevention for every specific disease and in different scenarios.

8.	Health care delivery	Flipped	Dr. S. Sabah Imran	Must know
	System in Pakistan	classroom		

Learning Outcomes:

- Explain the rationale of devolution of power and the problems of health care system in Pakistan
- Identify deficiencies in different health-care facilities
- Differentiate different sectors of health system and functioning
- Recommend improvement in health-care delivery in Pakistan
- Appraise the efficiency of a health system/health outlet

Learning Resources:

1. Text Books

- Park's Textbook of Preventive and Social Medicine
- Public Health and Community Medicine (Shah, Ilyas, Ansari, Irfan's)

2. Reference Books

- Epidemiology by Leon Gordis
- Linnen field- Screening
- Handouts/SDL prepared by faculty

3. Online resources

- <u>Types of data</u>
- <u>Graphical presentation</u>
- <u>Concept of hypothesis testing</u>
- <u>HMIS</u>
- <u>SDGs</u>
- <u>Study designs</u>

Teaching Faculty:

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Dr. Khola Waheed Khan	kholawaheed@wahmedicalcollege.edu.pk
Dr. Sadia Nadeem	sadianadeem@wahmedicalcollege.edu.pk
Dr. Saleh Ahmed	s.ahmed.2345@gmail.com

Assessment formats

Assessment tools (Formative)	Assessment Strategies (Summative)
MCQs, Home assignments, SAQs, class discussion, quiz using google forms	MCQs, SEQs, OSPE, Viva

	C	lerkship M	Iodule	
S. #	Торіс	Educational Strategies	Name of Instructor	Importance (Must Know Should Know Could Know)
	Week 1:	Epidemiology a	nd Biostatistics	
1.	Microsoft word	Hands on training	Dr. Saleh Dr. Ahmed Mughal	Must Know
Learn	ing Outcomes:			
٠	Perform assign commands	on Microsoft W	ord.	
2.	Mendeley	Hands on	Dr. Saleh	Must Know
		training	Dr. Ahmed Mughal	
Learn	ing Outcomes:			
•	Apply Mendeley software	for referencing		
3.	SPSS	Hands on	Dr. Saleh	Must Know
		training	Dr. Ahmed Mughal	
			Mr. Asad Elahi	
Learn	ing Outcomes:			
٠	Analyze provided or collect	cted data using Sl	PSS.	
4.	Press Cutting	SGD	Batch In charge Co In charge	Must Know
5.	HMIS	Field Visit	Dr. Khola Dr. Qandeel Dr. Fatima Dr. Aimen	Should Know
6.	Measures of Morbidity and mortality	SGD		Must Know
Learn	ing Outcomes:		ļ	
	Calculate various measure	s of morbidity, m	ortality and association	n.
7.	Emerging and	SDL	Dr. Sabah	Must Know
	reemerging Diseases	~	Dr. Aimen	
8.	Investigation of	Workshop	Dr Saleh	Must Know
	Epidemic		Dr Qandeel	
Learn	ing Outcomes:			
	Rationalize steps taken to i	investigate an epi	demic.	
	*		lealth and Family pla	nning
9.	Sustainable	SDL	Dr. Khola	Must Know
- •	Development Goals	~~	Dr. Aimen	
10.	MNCH/WGH/BHU	Field visit	Dr. Sadia Dr. Fatima	Must Know
11.	Family planning	SGD	Dr. Yadina Dr Sadia	Must Know
	ing Outcomes:			
	Recommend contraceptive	methods accord	ing to the given situation	n
-	Calculate failure rate of co			J11.

• Calculate failure rate of contraceptive methods (Pearl's Index).

12.	Family planning center	Field visit	Dr. Qandeel Dr. Aimen	Must Know
13.	National Programs of Pakistan	SDL	Dr. Khola Dr. Ahmed	Must Know
14.	Counselling skills	Skills	Dr. Fatima, Dr. Qandeel Dr. Aimen, Dr. Ahmed	Must Know

Learning Outcomes:

Demonstrate the ability to educate the:

- Mother for dietary management of PEM, breast feeding, weaning, preparation and administration of ORS (homemade / packet).
- Women regarding antenatal and postnatal care in the given scenario
- Advise mothers for vaccination in different situations

15.	EPI	Hands on	Dr. Saleh	Must Know
		training	Dr. Aimen	
			Dr. Ahmed	

Learning Outcomes:

- Identify the given vaccine & the compartment of Refrigerator for its storage.
- Administer Polio vaccine following the protocol.
- Demonstrate the site administration of vaccine, recapping & cutting technique of syringe.
- Recognize efficacy of a vaccine on basis of the Vaccine Vial Monitor

16.	EPI Center	Field visit		Must Know	
17.	Press cutting	SGD	Batch In charge	Must Know	
			Co In charge		
V	Week 3: Communicable disease school health and Hospital waste management				
18.	School Health Services	SGD	Dr. Saleh	Must Know	
			Dr. Ahmed		
			Dr. Qandeel		

Learning Outcomes:

- Describe components of School Health, responsibilities of the school Health team members and functions of School Health program
- Assist in training of members of school health teams regarding control of common school health problems.
- Assist in various screening programs among school children.

19.	Visit to School	Field visit		Must Know
20.	Press cutting	SGD		Must Know
21.	Communicable diseases	CBL	Dr. Qandeel Dr. Aimen	Must Know

Learning Outcomes:

- Compare and contrast the gastrointestinal diseases, mode of transmission, spectrum, clinical presentations and investigations of gastrointestinal diseases.
- Recommend strategies for control of gastrointestinal diseases.

22.	Hospital Waste	SDL	Dr. Khola	Must Know
	management			

23.	Visit to Incinerator	Field visit	Dr. Fatima Dr. Ahmed	Must Know
24.	Rural urban health	SDL	Dr. Saleh Hafsa	Should Know
25.	Zoonotic diseases	SGD	Dr Fatima	Must Know
Learn	ing Outcomes:			
• (Compare and contrast the ep	pidemiological d	leterminants, mode o	of transmission,
;	spectrum, clinical presentat	ions and investig	gations of zoonotic d	liseases.
	Suggest strategies for diseas	se control and pr	revention for every s	pecific disease and
j	in different scenarios.			
26.	International health	SDL	Dr. Saleh	Should Know
	agencies			
	Week 4: Non-co		seases and nutritio	
27.	Genetics	SDL	Dr. Fatima	Should Know
28.	Non communicable	Seminar by	Dr. Robina	Must Know
	diseases	students	Dr Ahmed	
			Dr Aimen	
Learn	ing Outcomes:			
	Identify epidemiological de			
• ;	Suggest preventive measure	es for these disea	ses in at-risk individ	luals and
	populations			
29.	Dental health	SDL	Dr. Ahmed	Must Know -
30.	Non-communicable	Communicati	Dr. Fatima	Must Know
	diseases	on Skills	Dr. Aimen	
			Dr. Ahmed	
Learn	ing Outcomes:			
•]	Demonstrate the ability to e	ducate the:		
•]	Individuals about preventio	n of hypertensio	n, diabetes, obesity,	cancer, snake bite,
;	accidents			
•]	Individuals to quit smoking			
•]	Industrial workers and own	ers about preven	tion of occupational	diseases
•]	Individuals/communities or	romoting envi	ronmental measures	to maintain good
]	health			
•]	Individuals / administration	on prevention o	f nosocomial infecti	ons
	Travelers to prevent the trav	-	ems	
31.	Press cutting	SGD	Batch In charge	Must Know
			Co In charge	
32.	Personal Hygiene and	SDL	Dr. Saleh	Must Know
	unsafe Injection			
33.	Hand washing	Hands on	Dr. Qandeel	Must Know
		training	Dr. Aimen	
			Dr. Ahmed	
Learn	ing Outcomes:			
•]				

34.	Visit to Double Dispensary for BMI, Anemia, Dehydration, MUAC and Growth monitoring	Hands on training	All Lecturers	Must Know
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Learning Outcomes:

- Plot the given parameters on a growth chart
- Interpret growth variations visible on the chart in light of the parameters provided
- Assess anemia and dehydration in children
- Categorize the calculated BMI following the given protocol.
- Assess the nutritional status of a child using Shakers Tape

Week 5: Occupational health and Environment					
35.	Press cutting	SGD	Batch In charge	Must Know	
	-		Co in charge		
36.	Occupational health	CBL	Dr. Sadia	Should Know	
			Dr. Qandeel		
			Dr. Aimen		

Learning Outcomes:

- Relate type of pneumoconiosis with the trade of patients
- Identify the clinical condition and its agent on the basis of occupational history, clinical examination and laboratory investigations.
- Identify the special radiological features of patients having pneumoconiosis.
- Suggest preventive and control measures for workers of various trades

	Suggest preventive and con	and measures to		Hudeb
37.	Air and ventilation	SDL	Dr. Saleh	Must Know
			Dr. Ahmed	
38.	Occupational health	Field visit		Should Know
	(factory)			
39.	Water	SDL	Dr. Robina	Must Know
			Dr. Qandeel	
40.	Water treatment plant	Field visit	Dr. Sadia	Must Know
	and sewage treatment		Dr. Fatima	
	plant		Dr. Ahmed	
41.	Temperature pressure and noise	SDL	Dr. Saleh	Must Know
42.	Housing and radiation	SDL	Dr. Robina	Must Know
			Dr. Ahmed	
43.	Reflection	Reflective	Dr. Saleh	Must Know
		writing		

Learning Outcomes:

Reflective writing activity will enable the students to:

- Make connection of theoretical knowledge with practical experience
- Critically evaluate their learning experience
- Become reflective Practitioner in future
- Be self-assessor and lifelong learner
- Demonstrate their writing skills

Learning Outcomes of Press Cuttings:

- Focus attention to current health & related problems such as re-emerging infections, newer epidemics, disasters etc.
- Comment on these problems by highlighting the related determinants.
- Suggest possible alterations for provision of health care to rectify the identified problems.
- Give recommendations for the change of health policy & health care delivery system to ensure better equity & appropriate technology.

Learning Outcomes of Field Visits:

- Gain knowledge of the organization or place of visit.
- Assess critically the existing problems in the observed circumstances of the place of visit and the prevailing condition to which the people are exposed while at work.
- Analyze these problems in the backdrop of whole scenario.
- Apply their theoretical and technical knowledge pertaining to the given situation to formulate purposeful, practice and comprehensive suggestions to solve the problems and hence improving the overall situation.

RESEARCH

Subject Learning Outcomes

After completion of course, the students will be able to:

• Apply knowledge of statistics to measure all health problems affecting people at individual and community levels, right from birth to death, considering research and ethical approaches. (PLO 4).

S.#	Торіс	Educational Strategies	Name of Instructor	Importance (Must Know Should Know Could Know)
1.	Guidelines for medical writing	SGD	Dr S. Sabah Imran Dr Robina Rizvi Dr Khola Waheed Dr Sadia Nadeem Dr Saleh Ahmed	Must know
Learn •	ing Outcomes: Write manuscript accordin	ng to guidelines		
2.	Literature Search & Literature Review	SGD	Dr S. Sabah Imran Dr Robina Rizvi Dr Khola Waheed Dr Sadia Nadeem Dr Saleh Ahmed	Must know
	ing Outcomes:	fia litaratura casa	when calcuted tonia	
3.	Write a review after scienti Data Collection	SGD	Dr S. Sabah Imran Dr Robina Rizvi Dr Khola Waheed Dr Sadia Nadeem Dr Saleh Ahmed	Must know
Learn	ing Outcomes: • Collect data from the	target populatio		

Teaching Faculty:

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Dr. Saleh Ahmed	s.ahmed.2345@gmail.com

Assessment formats

Research project

PCMILE

Subject Learning Outcomes

At the end of fourth year MBBS program the student will be able to:

S. #	ł	Topic/department	Educational	Name of	Importance
			Strategies	Instructor	(Must Know
					Should Know
			I GIG	TT 1 1	Could Know)
1.		Introduction to patient	LGIS	Hassan Ali	Must Know
-		safety / BS			
Lear		g Outcomes:		1 1.	
•		ecognize the role of patient s	•	-	
•	D	iscuss the harms caused by h	1	I I	
2.		Impact of health system	LGIS	Zunaira	Must Know
		complexity on patient care/ BS		Naveed	
Lear	nin	g Outcomes:			
•		xplain system and "complex	2		
•		ifferentiate systems approacl			safety
٠	D	escribe the elements of a safe	e health-care system	m.	
3.	3	Ethical Dilemmas/	Flipped	Dr Ambreen	Must
		DME	Classroom/	Ansar	know
			Student		
			presentations		
Lear	nin	g Outcomes:			
•		entify ethical dilemmas of th	-		provided.
•	Μ	ake a reasonable decision in	the light of learned	d principles	
4.		Case studies/ Surgery		Prof. Dr Naeem	
				Ashraf	
Lear	nin	g Outcomes:			
●	Tł	nis case study highlights the	importance of cont	tinuity of care.	
5.		Effective team player/	LGIS	Hafsa Naeem	Should Know
		BS			
Lear	nin	g Outcomes:			
•	D	iscuss different types of tean	ns in health care		
•	D	iscuss characteristics of an e	ffective team		
•	D	iscuss the role of a patient in	the team		
6.		Case studies		Prof. Dr Naeem Ashraf	
Loor		a Outoomos:	ļ	73111 di	
Lear		g Outcomes:	ance of using shee	Islicte and listoning	to notionts
•	11	nis case illustrates the import		1	-
7.		Role of human factors in	LGIS	Dr Sadia	Must know
Τ.	•	patient safety/ Com Med	<u> </u>	Nadeem	
		g Outcomes:			
•	Еž	xplain the relationship betwe	en human factors a	and patient safety.	

•	D	escribe the Importance of Hu	man Factors in Pat	tient Safety	
8.		Managing clinical risk/		Prof. Dr Naeem	
		Surgery		Ashraf	
Lear	nin	g Outcomes:			
•	Id	entify, assess & Report the k	nown risks or haza	ards in the workpla	ace-Discuss
	in	cident monitoring.			
•	R	espond appropriately to patie	nts & families afte	r an adverse event	t
9.		Introduction to quality	LGIS	Dr Ambreen	Nice to Know
		improvement methods/		Ansar	
		DME			
Lear	nin	g Outcomes:			
•	Ez	xplain			
		1. the science of improvem	nent		
		2. the quality improvement	t model- PDSA		
•	Id	entify tools of TQM – Flowe	charts, cause & effe	ect diagrams, pare	to charts, run
	ch	narts			

Pathology

Subject Learning Outcomes

At the end of the program, students of 4th year MBBS WMC should be able to:

- 1. Correlate etiology and morphological changes of prevalent diseases with pathogenesis. (1,2,6)
- 2. Devise appropriate plan of lab investigations based on signs and symptoms of the patient. (1,2,6)
- 3. Correlate cellular responses to stress and toxic insults with clinical presentation and laboratory reports. (1,2,6)
- 4. Counsel the patients on pre-test preparation and lab reports. (1,2,3,6,7)

Block Learning Outcomes:

At the end of first block, the student of 4th year MBBS should be able to:

- Correlate the etiology, clinical features, pathogenesis, laboratory findings, morphological features and clinico-pathologic consequences of major diseases related to the
 - Cardiovascular system,
 - o Respiratory system,
 - Gastrointestinal system,
 - Hepatobiliary system and
 - Pancreas. (SLO 1, 2, 3, 4)

S.#	Торіс	Educational Strategies	Name of Instructor	Importance (Must Know Should Know Could Know)
1.	Congenital Heart Diseases	LGIS	Asst. Prof. Dr. Fauzia Noreen	Should Know
Class	I again a Autoamaa			

Class Learning Outcomes

- Enumerate relative frequency of different congenital malformations.
- Describe embryogenesis.
- Describe the common clinical features of congenital malformations.
- Differentiate between right to left and left to right shunts and resulting morphological abnormalities.
- Explain the malformations associated with obstructive lesions.

2.	Hypertensive vascular diseases	LGIS	Asst. Prof.	Should Know
	& cardiac failure		Dr. Fauzia	
			Noreen	

Class Learning Outcomes

- Describe the pathogenesis of hypertensive disease and cardiac failure.
- Differentiate between clinical presentation, pathogenesis and morphological features of systemic and pulmonary vascular disease.
- Enumerate predisposing conditions of systemic and pulmonary vascular diseases.

3.	cardiomyopathies, gross and micros Atherosclerosis	LGIS/	Asst. Prof.	Should Know
5.	AUICI USCICI USIS	Practical	Dr. Fauzia	
		Tractical	Noreen	
Class	s Learning Outcomes		roreen	
	Define 'arteriosclerosis' and 'athere	osclerosis'		
•	Describe basic structure of an ather			
•	List modifiable and non-modifiable			
•	Describe the pathogenesis and resp			
•	Enumerate the morphological featu	•••	-	atous plaque.
•	Describe the clinicopathologic cons	•		1 1
4.	Vasculitidis / Raynaud's	LGIS	Asst. Prof.	Should Knov
	Phenomenon		Dr. Fauzia	
			Noreen	
Class	s Learning Outcomes			
	• Define vasculitis and describe two	most important r	athogenetic me	chanisms
	• List the primary forms of vasculitis		athogenetic inc	Chamshis.
	• Differentiate between different forr		ous vasculitis c	on the basis of
-	sites of involvement and microscop			
	• Describe the clinical features accord		f involvement :	and relevant
	laboratory findings.	and to the site o		
5.	Vascular Aneurysms	LGIS	Asst. Prof.	Should Knov
0.		2010	Dr. Fauzia	
			Noreen	
Close	s Learning Outcomes			
A JAN				
	_			
	• Define vascular aneurysms.	se aneurysms and	l arterial dissec	tion
UIAS	Define vascular aneurysms.Differentiate between true and false	-		
	 Define vascular aneurysms. Differentiate between true and fals List the most important predisposition 	-		
148	 Define vascular aneurysms. Differentiate between true and fals List the most important predispositivascular aneurysm formation. 	ng conditions an	d describe the	pathogenesis of
	 Define vascular aneurysms. Differentiate between true and fals List the most important predisposivascular aneurysm formation. Describe the clinical consequence 	ng conditions an s of abdominal a	d describe the particular describe the particular describes the particu	pathogenesis of eurysms.
	 Define vascular aneurysms. Differentiate between true and fals List the most important predispositivascular aneurysm formation. Describe the clinical consequences Enumerate the gross and microscology 	ng conditions an s of abdominal a	d describe the particular describe the particular describes the particu	pathogenesis of eurysms.
	 Define vascular aneurysms. Differentiate between true and fals List the most important predispositivascular aneurysm formation. Describe the clinical consequences Enumerate the gross and microscolabdominal aneurysms. 	ng conditions an s of abdominal a ppic morphologic	d describe the nd thoracic ane al features of th	pathogenesis of eurysms. horacic and
6.	 Define vascular aneurysms. Differentiate between true and fals List the most important predispositivascular aneurysm formation. Describe the clinical consequences Enumerate the gross and microscology 	ng conditions an s of abdominal a opic morphologic LGIS /	d describe the p nd thoracic ane cal features of the Asst. Prof.	pathogenesis of eurysms. horacic and
	 Define vascular aneurysms. Differentiate between true and fals List the most important predispositivascular aneurysm formation. Describe the clinical consequences Enumerate the gross and microscolabdominal aneurysms. 	ng conditions an s of abdominal a ppic morphologic	d describe the p nd thoracic ane al features of th Asst. Prof. Dr.Fauzia	pathogenesis of eurysms.
6.	 Define vascular aneurysms. Differentiate between true and fals List the most important predispositiva vascular aneurysm formation. Describe the clinical consequences Enumerate the gross and microscolabdominal aneurysms. 	ng conditions an s of abdominal a opic morphologic LGIS /	d describe the p nd thoracic ane cal features of the Asst. Prof.	pathogenesis of eurysms. horacic and
6.	 Define vascular aneurysms. Differentiate between true and fals List the most important predispositivascular aneurysm formation. Describe the clinical consequences Enumerate the gross and microscolabdominal aneurysms. Ischemic Heart Disease Learning Outcomes 	ng conditions an s of abdominal a opic morphologic LGIS / Practical	d describe the p nd thoracic ane al features of th Asst. Prof. Dr.Fauzia	pathogenesis of eurysms. horacic and
6.	 Define vascular aneurysms. Differentiate between true and fals List the most important predispositiva vascular aneurysm formation. Describe the clinical consequence. Enumerate the gross and microscore abdominal aneurysms. Ischemic Heart Disease Learning Outcomes Identify the spectrum of ischemic heart between the spectrum of the spectrum of	ng conditions an s of abdominal a opic morphologic LGIS / Practical eart disease.	d describe the p nd thoracic ane cal features of th Asst. Prof. Dr.Fauzia Noreen	pathogenesis of eurysms. horacic and Should Knov
6.	 Define vascular aneurysms. Differentiate between true and fals List the most important predispositivascular aneurysm formation. Describe the clinical consequences Enumerate the gross and microscolabdominal aneurysms. Ischemic Heart Disease Learning Outcomes Identify the spectrum of ischemic heart pathogenesis and elements 	ng conditions an s of abdominal a opic morphologic LGIS / Practical eart disease.	d describe the p nd thoracic ane cal features of th Asst. Prof. Dr.Fauzia Noreen	pathogenesis of eurysms. horacic and Should Knov
6.	 Define vascular aneurysms. Differentiate between true and false List the most important predispositive vascular aneurysm formation. Describe the clinical consequence. Enumerate the gross and microscore abdominal aneurysms. Ischemic Heart Disease S Learning Outcomes Identify the spectrum of ischemic heart progression to ischemia. 	ng conditions an s of abdominal a opic morphologic LGIS / Practical eart disease.	d describe the p nd thoracic ane cal features of th Asst. Prof. Dr.Fauzia Noreen	pathogenesis of eurysms. horacic and Should Knov
6.	 Define vascular aneurysms. Differentiate between true and fals List the most important predispositivascular aneurysm formation. Describe the clinical consequence. Enumerate the gross and microscolabdominal aneurysms. Ischemic Heart Disease Learning Outcomes Identify the spectrum of ischemic heart pathogenesis and elemis sequential progression to ischemia. Define myocardial infarction (MI) and the spectrum of the spectrum	ng conditions an s of abdominal a opic morphologic LGIS / Practical eart disease. eents contributing and describe its p	d describe the p nd thoracic ane cal features of the Asst. Prof. Dr.Fauzia Noreen g to developme pathogenesis.	pathogenesis of eurysms. horacic and Should Knov
6.	 Define vascular aneurysms. Differentiate between true and fals List the most important predispositivascular aneurysm formation. Describe the clinical consequence. Enumerate the gross and microscore abdominal aneurysms. Ischemic Heart Disease Learning Outcomes Identify the spectrum of ischemic heart progression to ischemia. Define myocardial infarction (MI) a Identify the clinical features and lab 	ng conditions an s of abdominal a opic morphologic LGIS / Practical eart disease. ents contributing and describe its p poratory findings	d describe the p nd thoracic ane cal features of the Asst. Prof. Dr.Fauzia Noreen g to developme oathogenesis.	pathogenesis of eurysms. horacic and Should Knov nt and
6.	 Define vascular aneurysms. Differentiate between true and fals List the most important predispositivascular aneurysm formation. Describe the clinical consequence. Enumerate the gross and microscolabdominal aneurysms. Ischemic Heart Disease Learning Outcomes Identify the spectrum of ischemic heart pathogenesis and elemis sequential progression to ischemia. Define myocardial infarction (MI) and the spectrum of the spectrum	ng conditions an s of abdominal a opic morphologic LGIS / Practical eart disease. eants contributing and describe its p poratory findings atterns of infarcti	d describe the p nd thoracic ane cal features of the Asst. Prof. Dr.Fauzia Noreen g to developme oathogenesis.	pathogenesis of eurysms. horacic and Should Knov nt and

microscopic morphological features of MI.
Describe the consequences and complications of MI.

7.	Valvular Heart Disease (RF &	LGIS /	Asst. Prof.	Should Know
	RHD)	Practical	Dr. Fauzia	
			Noreen	
Class	s Learning Outcomes			
•	Enumerate different etiologies of ac	-		
٠	Identify the specific pathogenesis o			
•	Enumerate the common clinical fea			ross and
	microscopic features of rheumatic v	alvular disease.		
8.	Cardiomyopathies	LGIS	Asst. Prof.	Should Knov
	&Pericardial Diseases /		Dr. Fauzia	
	Bacterial endocarditis		Noreen	
Class	s Learning Outcomes			
•	Identify the clinical presentation, ca	uses and function	onal patterns of	
	cardiomyopathies.			
•	Differentiate between hypertrophic,			• •
	respect to left ventricular ejection fr	raction, causes a	nd mechanisms	of heart
	failure.			
	Describe the morphological feature	-		• •
٠	Define infective endocarditis and de	escribe its patho	genesis in relati	on to
	endocardium.	111	C' 1'	
•	Enlist the common clinical features	and laboratory	findings	
		•	-	
٠	Differentiate between morphologica	al features of inf	ective endocard	
•	Differentiate between morphologica heart disease, non-bacterial thrombe	al features of inf	ective endocard	
	Differentiate between morphologica heart disease, non-bacterial thrombo endocarditis.	al features of information of information of the second se	Sective endocards and Libman- S	acks
•	Differentiate between morphologica heart disease, non-bacterial thrombo endocarditis. Enumerate types of Pericardial effu	al features of information of the state of t	Fective endocards and Libman- S common causes.	acks
	Differentiate between morphologica heart disease, non-bacterial thrombo endocarditis. Enumerate types of Pericardial effu Enlist clinical features of Pericardit	al features of information of the state of t	Fective endocards and Libman- S common causes.	acks
•	Differentiate between morphologica heart disease, non-bacterial thrombo endocarditis. Enumerate types of Pericardial effu Enlist clinical features of Pericardit findings.	al features of information of the second sec	Fective endocards and Libman- S common causes the causes and n	acks norphological
	Differentiate between morphologica heart disease, non-bacterial thrombo endocarditis. Enumerate types of Pericardial effu Enlist clinical features of Pericardit	al features of information of the state of t	Fective endocard s and Libman- S common causes the causes and n Asst. Prof.	acks norphological
• • 9.	Differentiate between morphologica heart disease, non-bacterial thrombo endocarditis. Enumerate types of Pericardial effu Enlist clinical features of Pericardit findings. Tumors of the CVS	al features of information of the second sec	Fective endocards and Libman- S common causes the causes and n	acks norphological
• • 9.	Differentiate between morphologica heart disease, non-bacterial thrombo endocarditis. Enumerate types of Pericardial effu Enlist clinical features of Pericardit findings. Tumors of the CVS	al features of infotic endocarditis sions and their of is and describe t LGIS	Fective endocard s and Libman- S common causes the causes and n Asst. Prof.	acks norphological
• • 9.	Differentiate between morphologica heart disease, non-bacterial thrombo endocarditis. Enumerate types of Pericardial effu Enlist clinical features of Pericardit findings. Tumors of the CVS Learning Outcomes Enumerate different primary cardia	al features of infotic endocarditis sions and their of is and describe t LGIS c tumors.	Sective endocards and Libman- S common causes. The causes and n Asst. Prof. Dr. Noreen	acks norphological Should Knov
• • 9.	Differentiate between morphologica heart disease, non-bacterial thrombo endocarditis. Enumerate types of Pericardial effu Enlist clinical features of Pericardit findings. Tumors of the CVS Learning Outcomes Enumerate different primary cardia Describe the morphological feature	al features of infotic endocarditis sions and their of is and describe t LGIS c tumors.	Sective endocards and Libman- S common causes. The causes and n Asst. Prof. Dr. Noreen	acks norphological Should Knov
• • 9.	Differentiate between morphologica heart disease, non-bacterial thrombo endocarditis. Enumerate types of Pericardial effu Enlist clinical features of Pericardit findings. Tumors of the CVS Learning Outcomes Enumerate different primary cardia Describe the morphological feature (atrial myxoma).	al features of infotic endocarditis sions and their of is and describe to LGIS c tumors. s of most comm	Fective endocard s and Libman- S common causes the causes and n Asst. Prof. Dr. Noreen	acks norphological Should Knov
• • 9.	Differentiate between morphologica heart disease, non-bacterial thrombo endocarditis. Enumerate types of Pericardial effu Enlist clinical features of Pericardit findings. Tumors of the CVS Learning Outcomes Enumerate different primary cardia Describe the morphological feature (atrial myxoma). Describe the clinical features related	al features of infotic endocarditis sions and their of is and describe t LGIS c tumors. s of most comm d to atrial myxo	Fective endocard and Libman- S common causes the causes and n Asst. Prof. Dr. Noreen on primary card mas.	acks norphological Should Knov
• 9. Class • •	Differentiate between morphologica heart disease, non-bacterial thrombo endocarditis. Enumerate types of Pericardial effu Enlist clinical features of Pericardit findings. Tumors of the CVS Learning Outcomes Enumerate different primary cardia Describe the morphological feature (atrial myxoma). Describe the clinical features related Enumerate the cardiac effects of no	al features of infotic endocarditis sions and their of is and describe to LGIS c tumors. s of most comm d to atrial myxo n-cardiac neople	Fective endocard and Libman- S common causes the causes and n Asst. Prof. Dr. Noreen on primary card mas.	acks norphological Should Knov liac tumor
• • 9.	Differentiate between morphologica heart disease, non-bacterial thrombo endocarditis. Enumerate types of Pericardial effu Enlist clinical features of Pericardit findings. Tumors of the CVS Learning Outcomes Enumerate different primary cardia Describe the morphological feature (atrial myxoma). Describe the clinical features related	al features of infotic endocarditis sions and their of is and describe t LGIS c tumors. s of most comm d to atrial myxo	Sective endocard s and Libman- S common causes. the causes and n Asst. Prof. Dr. Noreen on primary card mas. asms Assit. Prof.	acks norphological Should Knov liac tumor
• 9. Class • •	Differentiate between morphologica heart disease, non-bacterial thrombo endocarditis. Enumerate types of Pericardial effu Enlist clinical features of Pericardit findings. Tumors of the CVS Learning Outcomes Enumerate different primary cardia Describe the morphological feature (atrial myxoma). Describe the clinical features related Enumerate the cardiac effects of no	al features of infotic endocarditis sions and their of is and describe to LGIS c tumors. s of most comm d to atrial myxo n-cardiac neople	Fective endocards and Libman- S common causes common causes the causes and n Asst. Prof. Dr. Noreen on primary card mas. asms Assit. Prof. Dr. Lubna	acks norphological Should Knov
9. Class • • 10.	Differentiate between morphologica heart disease, non-bacterial thrombo- endocarditis. Enumerate types of Pericardial effu Enlist clinical features of Pericardit findings. Tumors of the CVS Learning Outcomes Enumerate different primary cardia Describe the morphological feature (atrial myxoma). Describe the clinical features related Enumerate the cardiac effects of no Cardiac Biomarkers.	al features of infotic endocarditis sions and their of is and describe to LGIS c tumors. s of most comm d to atrial myxo n-cardiac neople	Sective endocard s and Libman- S common causes. the causes and n Asst. Prof. Dr. Noreen on primary card mas. asms Assit. Prof.	acks norphological Should Knov liac tumor
• 9. Class • • • 10.	Differentiate between morphologica heart disease, non-bacterial thrombo- endocarditis. Enumerate types of Pericardial effu Enlist clinical features of Pericardit findings. Tumors of the CVS Learning Outcomes Enumerate different primary cardia Describe the morphological feature (atrial myxoma). Describe the clinical features related Enumerate the cardiac effects of no Cardiac Biomarkers.	al features of infotic endocarditis sions and their of is and describe to LGIS c tumors. s of most comm d to atrial myxo n-cardiac neople LGIS	Fective endocards and Libman- S common causes. che causes and n Asst. Prof. Dr. Noreen on primary card mas. asms Assit. Prof. Dr. Lubna Ehtizaz	acks norphological Should Knov liac tumor Must Know
9. Class • • 10.	Differentiate between morphologica heart disease, non-bacterial thrombo- endocarditis. Enumerate types of Pericardial effu Enlist clinical features of Pericardit findings. Tumors of the CVS Learning Outcomes Enumerate different primary cardia Describe the morphological feature (atrial myxoma). Describe the clinical features related Enumerate the cardiac effects of no Cardiac Biomarkers. State background scientific informa	al features of infotic endocarditis sions and their of is and describe to LGIS c tumors. s of most comm d to atrial myxo n-cardiac neople LGIS	Fective endocards and Libman- S common causes. che causes and n Asst. Prof. Dr. Noreen on primary card mas. asms Assit. Prof. Dr. Lubna Ehtizaz	acks norphological Should Knov liac tumor Must Know
• 9. Class • • 10. Class	Differentiate between morphologica heart disease, non-bacterial thrombo- endocarditis. Enumerate types of Pericardial effu Enlist clinical features of Pericardit findings. Tumors of the CVS Learning Outcomes Enumerate different primary cardia Describe the morphological feature (atrial myxoma). Describe the clinical features related Enumerate the cardiac effects of no Cardiac Biomarkers. State background scientific informat current and historical markers.	al features of infotic endocarditis sions and their of is and describe to LGIS c tumors. s of most comm d to atrial myxo n-cardiac neople LGIS	Fective endocards and Libman- S common causes. che causes and n Asst. Prof. Dr. Noreen on primary card mas. asms Assit. Prof. Dr. Lubna Ehtizaz cardiac biomar	acks norphological Should Knov liac tumor Must Know kers including
9. Class • • 10.	Differentiate between morphologica heart disease, non-bacterial thrombo- endocarditis. Enumerate types of Pericardial effu Enlist clinical features of Pericardit findings. Tumors of the CVS Learning Outcomes Enumerate different primary cardia Describe the morphological feature (atrial myxoma). Describe the clinical features relate Enumerate the cardiac effects of no Cardiac Biomarkers. State background scientific informatic current and historical markers. Explain and justify the medical use	al features of infotic endocarditis sions and their of is and describe to LGIS c tumors. s of most comm d to atrial myxo n-cardiac neople LGIS ttion concerning and utility of va	Fective endocards and Libman- S common causes. che causes and n Asst. Prof. Dr. Noreen on primary card mas. asms Assit. Prof. Dr. Lubna Ehtizaz cardiac biomar	acks norphological Should Knov liac tumor Must Know kers including
• 9. Class • • • 10. Class	Differentiate between morphologica heart disease, non-bacterial thrombo- endocarditis. Enumerate types of Pericardial effu Enlist clinical features of Pericardit findings. Tumors of the CVS Learning Outcomes Enumerate different primary cardia Describe the morphological feature (atrial myxoma). Describe the clinical features related Enumerate the cardiac effects of no Cardiac Biomarkers. State background scientific informat current and historical markers.	al features of infotic endocarditis sions and their of is and describe to LGIS c tumors. s of most comm d to atrial myxo n-cardiac neople LGIS ttion concerning and utility of vars.	Fective endocards and Libman- S common causes. che causes and n Asst. Prof. Dr. Noreen on primary card mas. asms Assit. Prof. Dr. Lubna Ehtizaz cardiac biomar	acks norphological Should Knov liac tumor Must Know kers including

• Identify possible situations where false positive and false negative cardiac biomarkers results may occur.

11.	Lipid and Lipoproteins	LGIS	Assit. Prof. Dr. Lubna Ehtizaz	Should Know
Class	Learning Outcomes			
	Define the following terms:			
-	 Lipid 			
	Fatty acids			
	 Apo lipoprotein 			
	 Lipoprotein 			
	 Chylomicron Atherosclerosis 			
•		not and this ly com	da	
•	Explain the metabolism of choleste			
•	State the significance of the Apo lip	-		
•	Differentiate the five lipoprotein cla	asses based on cr	nemical makeup	o and clinical
	significance.	• • • • •	1 1 1	
•	List the causes of hyper lipoprotein	emias and state t	he laboratory f	indings
	associated with each.			
12.	ARDS / COPD (Emphysema,	LGIS /	Prof Brig(R)	Should Know
	Ch. Bronchitis)	Practical	Tariq	
			Masood	
			Malik	
• • •	alveolar damage (DAD). Describe the pathogenesis, clinical Describe the spectrum of obstructiv Define Emphysema. Differentiate between Centriacinar, Describe the pathogenesis, clinical Emphysema. Define Chronic bronchitis and desc	e airway disease Panacinar and E features and mor ribe its pathogen	esis. Pistal acinar em phological feat esis.	physema. ures of
•	Describe the clinical and morpholog	-	Chronic bronch	
13.	COPD (Asthma &	LGIS /	Prof Brig(R)	Should Knov
	Bronchiectasis)	Practical	Tariq	
			Masood	
			Malik	
Class	Learning Outcomes			
٠	Define Asthma and describe its path	hogenesis.		
•	Identify the types of Asthma; Atopi	c asthma, Non-a	topic asthma, d	rug-induced
	asthma and occupational asthma.		-	_
•	Describe the morphology and clinic	al features of as	thma.	
•	Describe the term Status asthmaticu			
•	Define bronchiectasis and describe		conditions.	
•	Describe the clinical features, patho			nchiectasis
14.	Interstitial Lung Diseases	LGIS	Prof Brig(R)	Should Knov
17.	Interstitian Dung Diseases		Tariq	

		Massal	
		Masood Malik	
Class Learning Outcomes		IVIAIIK	
 Class Learning Outcomes Describe the spectrum of restrictive/ Differentiate between the term's idia interstitial pneumonia. Describe the pathogenesis, clinical fidiopathic pulmonary fibrosis. Enlist Mineral dust-induced interstit Differentiate between clinical and mpneumoconiosis, silicosis and asbest 15. Pulmonary Vascular Disorders / Granulomatous Diseases Respiratory System Class Learning Outcomes Identify the spectrum of granulomat Define sarcoidosis and identify regio Describe the etiological factors and Identify the risk factors of Pulmonar describe their clinical and morpholo Describe the etiology, pathogenesis, 	eatures and mo features and mo ial lung disease norphological fe tosis. LGIS / Practical cous lung disease ons and popular pathogenesis of ology and prog ry embolism, he gical features.	ary fibrosis and rphological find es. eatures of coal w Prof Brig(R) Tariq Masood Malik es. tions effected. f sarcoidosis. nosis of sarcoido emorrhage and it res of Pulmonar	ings of /orkers Should Knov osis. nfarction and y hypertension
 Describe the etiology, pathogenesis, pneumonias. 16. Pneumonias 	and morpholog LGIS / Practical	gy of viral and b Prof Brig(R) Tariq Masood	acterial Must Know
		Malik	
 Class Learning Outcomes Describe the classification, etiology, bacterial pneumonias. 	, pathogenesis a	and morphology	of viral and
17. Lung Tumors - I	LGIS / Practical	Prof Brig(R) Tariq Masood	Must Know
		Malik	
 List the classification of Lung tumors Identify the major histologic types of 	lung carcinoma		
-	lung carcinoma	ıs.	Must Know

	Describe the morphological features tumors.	s of small cell c	arcinoma of lun	g and carcinoid
19.	Pleura / Pleural Effusion /	LGIS	Prof Brig(R)	Should Know
17.	Pneumothorax	LOID	Tariq	
	1 incumoritor da		Masood	
			Malik	
Class	Learning Outcomes		Within	
C1055	List the causes of pleural effusions	and pleuritis		
•	Describe the etiology and pathogen	-	horax	
•	Identify the causes of malignant me		norum	
•	Describe the morphological feature		nesothelioma	
20.	Respiratory acidosis &	LGIS	Assit. Prof.	Should Knov
20.	alkalosis.	LOID	Dr. Lubna	
			Ehtizaz	
Class	Learning Outcomes		LintiZaz	
	Learning Outcomes Explain normal acid-base balance.			
•	•	on of nU		
•	Explain buffers systems in regulation	-	hasa disardara	
•	Explain compensatory response to a		-base disolutis.	
- 21	Recognize respiratory acidosis and		$D_{rr} \circ f D_{rr} \circ (D)$	Should Vnor
21.	Oral Cavity (Inflammatory	LGIS	Prof Brig(R)	Should Knov
	disorders, non-neoplastic/		Tariq Masood	
	neoplastic disorders)		Malik	
			IVIAIIK	
Class	E Learning Outcomes			
Uass •	List the precancerous conditions of Describe the etiology, pathogenesis tongue.	•	gy of squamous of	cell carcinoma
Class • • 22.	List the precancerous conditions of Describe the etiology, pathogenesis tongue.	•		
•	List the precancerous conditions of Describe the etiology, pathogenesis tongue. Tumors and precancerous	and morpholog	gy of squamous of Prof Brig(R) Tariq	
•	List the precancerous conditions of Describe the etiology, pathogenesis tongue.	and morpholog	Prof Brig(R)	
•	List the precancerous conditions of Describe the etiology, pathogenesis tongue. Tumors and precancerous	and morpholog	Prof Brig(R) Tariq	
• 22.	List the precancerous conditions of Describe the etiology, pathogenesis tongue. Tumors and precancerous conditions of oral cavity	and morpholog	Prof Brig(R) Tariq Masood	
• 22.	List the precancerous conditions of Describe the etiology, pathogenesis tongue. Tumors and precancerous conditions of oral cavity	and morpholog LGIS / Practical	Prof Brig(R) Tariq Masood Malik	
• 22.	List the precancerous conditions of Describe the etiology, pathogenesis tongue. Tumors and precancerous conditions of oral cavity List the benign and malignant tumo	and morpholog LGIS / Practical urs of the saliva	Prof Brig(R) Tariq Masood Malik	Should Know
• 22.	List the precancerous conditions of Describe the etiology, pathogenesis tongue. Tumors and precancerous conditions of oral cavity List the benign and malignant tumo Describe the etiology, pathogenesis	and morpholog LGIS / Practical urs of the saliva and morpholog	Prof Brig(R) Tariq Masood Malik ary glands. gy of pleomorph	Should Know
• 22. Class	List the precancerous conditions of Describe the etiology, pathogenesis tongue. Tumors and precancerous conditions of oral cavity List the benign and malignant tumo Describe the etiology, pathogenesis Describe the morphological feature	and morpholog LGIS / Practical urs of the saliva and morpholog s of adenoid cys	Prof Brig(R) Tariq Masood Malik ary glands. gy of pleomorph stic carcinoma.	Should Know
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• 22. Class • 23. Class	List the precancerous conditions of Describe the etiology, pathogenesis tongue. Tumors and precancerous conditions of oral cavity List the benign and malignant tumo Describe the etiology, pathogenesis Describe the morphological features Motor Disorders of Esophagus, Esophagitis, Barrett Esophagus Learning Outcomes Explain the etiology of the lesion, the effects of the disease, including its se	and morpholog LGIS / Practical urs of the saliva and morpholog s of adenoid cys LGIS	Prof Brig(R) Tariq Masood Malik ary glands. gy of pleomorph stic carcinoma. Assit. Prof. Dr. Lubna Ehtizaz ess (pathogenesi complications. microscopic) of Assit. Prof.	Should Know ic adenoma. Should Know s) and the
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•	Explain the etiology of the lesion, the	he disease proces	ss (pathogenesi	s) and the
	effects of the disease, including its	symptoms and co	omplications.	
•	Identify morphological changes (ma	acroscopic and n	nicroscopic) of	the lesion.
25.	Gastritis / Peptic ulcer disease	LGIS /	Assit. Prof.	Should Know
		Practical	Dr. Lubna	
			Ehtizaz	
Class	Learning Outcomes		Entitud	
€1a55	Explain the etiology of the lesion, the	ha disaasa proca	ss (nathoganasi	s) and the
•	effects of the disease, including its	-		s) and the
	Identify morphological changes (m.	• •	-	the locion
		-		
26.	Gastric Polyps & Gastric	LGIS /	Assit. Prof.	Should Know
	Tumors	Practical	Dr. Lubna	
			Ehtizaz	
Class	Learning Outcomes			
•	Explain the etiology of the lesion, the	he disease proce	ss (pathogenesi	s) and the
	effects of the disease, including its	• •	-	
•	Identify morphological changes (ma	acroscopic and n	nicroscopic) of	the lesion.
27.	Inflammatory Bowel diseases	LGIS /	Prof. Dr.	Should Know
		Practical	Jamila	
Class	Learning Outcomes		•	
•	Explain the etiology of the lesion, the	he disease proce	ss (pathogenesi	s) and the
	effects of the disease, including its			
•	Identify morphological changes (ma			the lesion
28.	Malabsorption & Celiac	LGIS /	Prof. Dr.	Could Know
20.	Disease /entero-colitis	Practical	Jamila	
Class		Tractical	Jamma	
Class	Learning Outcomes	ha diagona progo	aa (nathaganaai	a) and the
•	Explain the etiology of the lesion, the effects of the disease, including its			s) and the
		• •	-	the lacion
•	Identify morphological changes (m	-		1
29.	Malignant Lesions of Small	LGIS /	Prof. Dr.	Should Know
	and Large Intestine	Practical	Jamila	
Class	Learning Outcomes			
•	Explain the etiology of the lesion, the	-		s) and the
	effects of the disease, including its	• •	-	
•	Identify morphological changes (ma	acroscopic and n	nicroscopic) of	the lesion.
30.	Appendicitis	LGIS /	Prof. Dr.	Should Know
		Practical	Jamila	
Class	Learning Outcomes	-	-	-
•	Explain the etiology of the lesion, the	he disease proce	ss (pathogenesi	s) and the
	effects of the disease, including its	-		,
•	Identify morphological changes (m	• •	-	the lesion.
31.	Introduction to Hepatobiliary	LGIS	Assit. Prof.	Should Know
51.	System, Jaundice		Dr. Lubna	
	bysicin, saunuice		Ehtizaz	
Class	Leoming Outcomes		LIIUZAZ	ļ
	Learning Outcomes	•		
	Define jaundice and neonatal jaund	ice.		

Differentiate between physiological	l and pathologica	l jaundice.			
• Identify the causes of jaundice and		•	ic, hepatic and		
post-hepatic jaundice.					
• Plan diagnostic approach and further work up.					
32. Hepatitis (Acute & Chronic)	LGIS	Assit. Prof.	Should Know		
		Dr. Lubna			
		Ehtizaz			
Class Learning Outcomes					
• List hepatitis viruses transmitted by	fecal-oral versu	s blood and bo	dy fluids		
• Discuss the causes, transmission, and	nd symptoms of	viral hepatitis in	nfections.		
• Identify current laboratory testing r	ecommendations	for viral hepat	itis diagnosis		
and treatment.					
33. Cirrhosis / Varices / Portal	LGIS /	Assit. Prof.	Should Know		
hypertension	Practical	Dr. Lubna			
		Ehtizaz			
Class Learning Outcomes					
• Explain the etiology of the lesion, t	-		s) and the		
effects of the disease, including its		-			
Identify morphological changes (m.	acroscopic and n	nicroscopic) of			
34.Drug Induced and Toxic Liver	LGIS	Assit. Prof.	Should Know		
Injury / Metabolic liver		Dr. Lubna			
diseases.		Ehtizaz			
Class Learning Outcomes					
• Explain the etiology of the lesion, the second se	-		s) and the		
effects of the disease, including its	• •	-			
Identify morphological changes (mage)	-	• •			
35. Tumors of the Liver	LGIS /	Assit. Prof.	Must Know		
	Practical	Dr. Lubna			
		Ehtizaz			
Class Learning Outcomes			\ 1 .1		
• Explain the etiology of the lesion, the first of the diagram including its	-		s) and the		
effects of the disease, including its		-	41 1		
• Identify morphological changes (m	-	-	1		
36. Cholestatic disease /	LGIS	Assit. Prof.	Should Know		
Cholelithiasis		Dr. Lubna			
		Ehtizaz			
Class Learning Outcomes	ha dianaa mmaaa	a (nothe conoci	a) and the		
• Explain the etiology of the lesion, the effects of the disease including its	-		s) and the		
 effects of the disease, including its symptoms and complications. Identify morphological changes (macroscopic and microscopic) of the lesion. 					
	LGIS /	Assit. Prof.	Should Know		
37. Gall bladder diseases (Acute & chronic)/ Cholecystitis&	Practical	Dr. Lubna	SHOULD KHOW		
Tumors of Gall bladder.	Tacucal	Ehtizaz			
Class Learning Outcomes		LIIUZAL	<u> </u>		
• Explain the etiology of the lesion, the	he disease proces	ss (nathogenesi	s) and the		
• Explain the eulology of the lesion, the effects of the disease, including its	-		s) and the		
 Identify morphological changes (m. 			the lesion		

38.	Pancreatitis / Diagnosis of	LGIS	Assit. Prof.	Should Know	
	acute pancreatitis.		Dr. Lubna		
	-		Ehtizaz		
Class	Learning Outcomes				
•	Describe the etiology and pathoger	nesis of acute and	d chronic pancr	eatitis.	
•	Identify the clinical and morpholog	ical features of a	cute and chroni	ic pancreatitis.	
•	Interpret the laboratory findings hel	pful in the diagn	osis of acute ar	nd chronic	
	pancreatitis.				
•	Manage patients with acute and chr	onic pancreatitis			
39.	Neoplastic Disorders of	LGIS	Assit. Prof.	Should Know	
	Pancreas		Dr. Lubna		
			Ehtizaz		
Class	Learning Outcomes				
•	Identify the genetic causes of differ	ent types of pane	creatic neoplasr	ns	
•	Explain the classification, pathogen	esis, morpholog	y, treatment and	d complications	
	of benign pancreatic tumors				
	Describe incidence, risk factors, pat	hogenesis and m	norphology of p	ancreatic	
	carcinoma				
•	Identify morphological changes (ma	acroscopic and n	nicroscopic) of	the lesion.	
40.	Liver Function Tests,	LGIS	Assit. Prof.	Must Know	
	Diagnosis of Acute & Chronic		Dr. Lubna		
	Hepatitis		Ehtizaz		
Class	Learning Outcomes				
	Justify the importance of various bi disorders.	ochemical marke	ers in diagnosis	of hepatic	
•	Correlate various biochemical mark	ters with the etio	logy and diseas	e process.	
	Interpret the Liver biomarkers report			-	

Block Learning Outcomes:

At the end of first block, the student of 4th year MBBS should be able to:

• Establish diagnosis of given slides of Special Pathology lesions included in the block, correlating histopathological findings. (SLO 3, 4)

S. No	Systemic Pathology Learning Outcomes	Educational Strategies	Name of Instructor	Importance (Must Know Should Know Could Know)
1	Identify the histopathological changes in Atherosclerosis	Demonstration / Practical	All Lecturers	Should Know
2	Identify the histopathological changes in Rheumatic carditis and Myocardial infarction	Demonstration / Practical	All Lecturers	Should Know
3	Identify the histopathological changes in Pulmonary tuberculosis and Bronchiectasis	Demonstration / Practical	All Lecturers	Should Know

4	Identify the histopathological changes in Lobar Pneumonia and Broncho Pneumonia	Demonstration / Practical	All Lecturers	Should Know
5	Identify the histopathological changes in Chronic Bronchitis and Bronchogenic carcinoma.	Demonstration / Practical	All Lecturers	Should Know
6	Identify the histopathological changes in Pleomorphic Adenoma, Chronic gastritis, Peptic ulcer	Demonstration / Practical	All Lecturers	Should Know
7	Identify the histopathological changes in Carcinoma stomach, Ulcerative colitis, Crohn's disease, TB intestines	Demonstration / Practical	All Lecturers	Should Know
8	Identify the histopathological changes in Cirrhosis, Chronic Viral Hepatitis, Chronic Cholecystitis	Demonstration / Practical	All Lecturers	Should Know
9	Identify the histopathological changes in Rectal Polyps and Colorectal carcinoma	Demonstration / Practical	All Lecturers	Should Know
10	Identify the histopathological changes in Acute appendicitis, Typhoid, Malabsorption	Demonstration / Practical	All Lecturers	Should Know

Learning Resources:

1. Text Books

- i. Robbins Basic Pathology, 10th edition
- ii. Robbins & Cotran Pathologic Basis of Disease, 9th/10th Edition

2. Reference Books

- i. Hoff brand's Essential Hematology, 9th Edition
- ii. Fundamentals of Clinical Chemistry (Tietz) 7th Edition

Teaching Faculty:

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Dr. Fauzia Noreen	drfozia_noreen@gmail.com

Assessment formats

Assessment tools (Formative)	Assessment Strategies (Summative)
MCQs, Home assignments, SAQs	MCQs, SEQs, OSPE, Viva

ENT

Subject Learning Outcomes:

- 1. Diagnose & manage diseases of ear and facial nerve. (PLO1,3,6,7,8)
- 2. Provide primary ENT care for various Ear diseases including emergencies if required refer the patient to appropriate center (PLO1,3,6,7,8)
- 3. Provide awareness regarding prevention of common public ENT health problems (PLO5,7,8)
- Apply principles of medical ethics pertaining to ENT Enlist recent advances in ENT (PLO6)

Block Learning Outcomes:

After completion of ENT course content for 1st block the students would be able to:

- 1. Diagnose congenital anomalies of the ear and counsel patients regarding their management (SLO1,4,5,6)
- 2. Suggest a management plan for a patient with ear discharge after interpreting the relevant investigations if needed (SLO1,4,5,6).
- 3. Differentiate between referred otalgia and that arising from local conditions of ear (SLO1,4,5,6).
- 4. Diagnose various types of vertigos in relation to their pathophysiology and suggest appropriate treatment plans (SLO1,4,5,6).
- 5. Identify and manage a patient with facial nerve related disorders (SLO1,4,5,6).]
- 6. Name the common tumours of ear, mastoid bone and acoustic neuroma from signs and symptoms. (SLO 8)
- 5. Know the causes of deafness in adults and children and their rehabilitation strategies.

Торіс	Educational Strategies	Name of Instructor	Importance (Must Know Should Know Could Know)		
Disease of Pinna	LGIS	HOD/Prof Dr. Muhammad Asad Chughtai	Must Know		
s Learning Outcomes Diagnose and describe a manage	ment plan for disea	ases of Pinna			
Diseases of external Auditory canal	LGIS	HOD/Prof Dr. Muhammad Asad	Must Know		
Class Learning Outcomes					
Acute supportive otitis media	LGIS	HOD/Prof Dr. Muhammad Asad Chughtai	Must know		
Class Learning Outcomes					
 Identify symptoms and signs of Acute supportive otitis media Diagnose and describe a management plan for diseases of Middle ear 					
	Disease of Pinna s Learning Outcomes Diagnose and describe a manage Diseases of external Auditory canal s Learning Outcomes • Diagnose and describe a manage Acute supportive otitis media s Learning Outcomes Identify symptoms and signs o	Strategies Disease of Pinna LGIS s Learning Outcomes Diagnose and describe a management plan for dises Diseases of external LGIS Auditory canal LGIS s Learning Outcomes LGIS • Diagnose and describe a management plan for Acute supportive otitis LGIS s Learning Outcomes LGIS Identify symptoms and signs of Acute supportive	StrategiesInstructorDisease of PinnaLGISHOD/Prof Dr. Muhammad Asad Chughtais Learning OutcomesImage: Character of the second of th		

	Chronic supportive otitis	LGIS	HOD/Prof Dr.	Must know
	media		Muhammad Asad Chughtai	
Clas	ss Learning Outcomes		8	
•	Describe clinical signs and syr	nptoms of chronic	suppurative otitis med	ia
•	Suggest thorough management	-	11	
5.	Complications of chronic	LGIS	HOD/Prof Dr.	Should know
	supportive otitis media		Muhammad Asad	
			Chughtai	
Clas	ss Learning Outcomes			
•	Discuss conditions leading to e	ear discharge and s	suggest managements.	
•	Name various types of condition	ons in the middle e	ear;	
•	Identify symptoms of chronic	discharging ears, a	nticipate complication	s, take
	immediate measures to avert li	fe threatening imp	act, advise relevant inv	vestigations and
	referral for safe care.			
6.	Otosclerosis	LGIS	Dr Aiemen Fatima	Must know
Clas	ss Learning Outcomes			
•		-	-	logy, pathology
	presentation, investigations and	d managements alo	ong with counseling.	
7.	Meniere's disease	LGIS	Dr Anum Ajmal	Should know
	Tinnitus & vertigo			
8.	Deafness. Deafness in adults	LGIS	Dr Anum Ajmal	Should know
0.			J.	
0.	and children			
0.	Rehabilitation strategies of		j i	
	Rehabilitation strategies of deafness		j	
	Rehabilitation strategies of deafness ss Learning Outcomes			
	Rehabilitation strategies of deafness ss Learning Outcomes Differentiate between various	••••••	relation to its pathoph	
	Rehabilitation strategies of deafnessdeafnessSignatureDifferentiate between variousSuggest appropriate treatment	••••••	relation to its pathoph	
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Clas •	Rehabilitation strategies of deafnessRehabilitation strategies of deafnessSugarning OutcomesDifferentiate between variousDifferentiate between variousSuggest appropriate treatment investigations if needed.Enlist the causes of deafDiscuss various options	including rehabilit ness in adults and for rehabilitation of	relation to its pathophy ation after the interpre children of deaf children and ad	tation of
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Class Learning Outcomes

- Explain nature and components of facial nerve and its innervations.
- Identify various nerve lesions topographically in relation to etiology, presentation and early managements to prevent late complications.
- Differentiate Bell's palsy from facial paralysis.
- Advise rehabilitation and proper counseling.

Learning Resources:

1. Reference Book

Dhingra, P. and Dhingra, S. n. d. Diseases of ear, nose and throat & head and neck surgery 7th edition.

Teaching Faculty:

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Assessment formats

Assessment Strategies (Formative)	Assessment Strategies (Summative)
End Block Exam, Bed Side Case Presentation, CBL,	MCQs, SEQs, OSPE & VIVA

Ophthalmology

Subject Learning Outcomes

To equip doctors with essential knowledge, skills and attitude in order to enable them to:

- 1. Provide primary eye care for various ophthalmic diseases including emergencies and if required, refer the patients to appropriate centers (PLO 1,6,7)
- 2. Perform various ophthalmic examination methods essential for all practitioners

(PLO 1,2,6,7)

- **3.** Communicate effectively with the patient, family and community regarding eye diseases and their related issues (PLO 1,2,6.7)
- 4. Assist in pre-operative preparation and post-operative care of ophthalmic surgical procedures. (PLO 1,2,7)
- **5.** Apply principles of medical ethics pertaining to Ophthalmology (**PLO 3,7**)
- 6. Provide awareness regarding prevention of common public ophthalmic health problems (PLO 5,7)

Block Learning Outcomes

After completion of Ophthalmology course content for 1st block the students would be able to:

- Diagnose conditions like ptosis, Entropion, Ectropion, lid tumors and benign lesions, etc., based on their clinical assessment and make a referral to ophthalmologist. (SLO 1,2,3,5)
- 2. Diagnose Dry eyes and diseases of Nasolacrimal System based upon their clinical assessment and make a referral to ophthalmologist. (SLO 1,2,3,6)
- Diagnose different refractive errors and summarize various treatment options. (SLO 1,2,3,5)
- 4. Diagnose conditions like Pterygium, Pinguecula, Conjunctivitis, episcleritis and scleritis and recognize their systemic associations when present. (SLO: 1,3,5,6)

Sr #	Торіс	Educational Strategies	Names of Instructor	Importance (Must Know Should Know Could Know)
1.	Orientation session:	LGIS	Prof. M.	Must Know
	Introduction to ophthalmology		Akmal Khan	
	and medical ethics			
	rning outcomes:			
	• Explain the medicine and surgery	of the eye and	its surrounding	structures and
	connections to the brain.			
	 Define subject learning outcomes. 			
	• Explain the principles of medical	ethics pertainin	g to Ophthalmo	logy
2.	Eye Lid I	LGIS	Prof. M.	Must Know
			Akmal Khan	

Learning outcomes: • Correlate the anatomy and physiology of Lids to its pathological conditions. • Classify ptosis, identify its clinical features and discuss treatment options for ptosis. **Eve Lid II** 3. LGIS Prof. M. Must Know Akmal Khan Learning outcomes: • Identify the clinical features of eyelid margin diseases like blepharitis, entropion, ectropion, trichiasis and discuss their management. • Classify Lid masses. • Differentiate between clinical features and management strategies of different lid masses. Lacrimal system LGIS Dr. Marrium Should Know 4. Shafi Learning outcomes: • Correlate the anatomical and pathophysiological aspects with the clinical features of different lacrimal disorders. • Outline management strategies for nasolacrimal disorders. Dr. Marrium 5. Should Know **Dry Eye** LGIS Shafi Learning outcomes: • Classify dry eye according to its pathogenesis. • Identify the clinical features of dry eye. • Outline management plan for dry eyes. **Refractive Errors I** Dr. Yaseen Must Know LGIS 6. Lodhi Learning outcomes: Identify common refractive conditions of the eye like myopia, hypermetropia and • astigmatism **Refractive Errors II** 7. LGIS Dr. Yaseen Must Know Lodhi Learning outcomes: • Summarize the management strategies of different refractive disorders. • Describe different refractive surgical procedures like excimer, LASIK, LASEK and their basis. Should Know **Conjunctiva I** Flipped Dr. Asma 8. Classroom Aftab Learning outcomes: • Correlate the anatomical and pathophysiological aspects with clinical presentation of conjunctival diseases. • Classify conjunctival diseases. Recognize clinical features of vernal keratoconjunctivitis and discuss treatment •

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Γ	Dr. Asma Aftab d	lrasmaaftab@wahme	dicalcollege edu	u.pk
Γ	Dr. Marrium Shafi d		alculeonege.eu	

Assessment Strategies (Formative)	Assessment Strategies (Summative)
MCQ's, Quiz, Class discussion, Quiz using Google forms	MCQ's , SAQ's , Viva

Medicine

Block Learning Outcomes:

By the end of this block students should know:

- Identify Clinical features, Correlate pathophysiology, Diagnose, investigate and plan management of common cardiovascular, Gastroenterology, Pulmonology, Dermatology and Psychiatry disorders (SLO1,3, 5,6).
- Recognize complications & advise preventive and safety measures and discuss prognosis of these disorders (SLO1, 2,4, 5).
- Diagnose, investigate and plan management of critically ill patients in A&E department (SLO 1, 3, 4, 5).

S. #	Торіс	Educational Strategies	Instructor	Importance (Must Know Should Know Could Know)		
		CVS		Could Know)		
1.	Congenial Heart Disease	LGIS	Dr. Raafe Iqbal	Should Know		
Lear	ning Outcomes:					
•	Identify common etiologies a	nd risk factors for	cyanotic heart defec	ets.		
•	Diagnose cyanotic heart defect diagnostic methods.					
•	Explain the pathophysiology, cyanotic cardiac anomalies.	mannestations, u	lagnosis and manage	ement of a		
•	Elaborate the pathophysiolog obstructive congenital anoma		diagnosis and mana	gement of		
•		ardiac anomalies f				
2.	Hypertension	LGIS	Prof. Dr. Muzamil Jamil	Must Know		
Lear	rning Outcomes:					
•	Rationalize the need for achie	eving recommende	ed BP goals in treatn	nent of		
	hypertension.					
•	Classify anti-hypertensive dru	-	• 1 • .1 • • 1•			
•	Choose appropriate antihyper	-	-			
•	Recognize types of hypertens	• •	e urgency and emerg	ency		
	 Define diagnostic criteria for hypertension. Provide pathophysiological basis of hypertension. 					
•	Propose Life style modification	• •		for patients		
	with hypertension.	ons and non phan	nucciogrear options	for parlones		
•	Diagnose primary hypertension	on from secondary	hypertension.			
3.	CCF	LGIS	Dr. Raafe Iqbal	Must Know		
Lear	ming Outcomes:		-			
•	Define Heart failure					
•	Provide pathophysiological back	asis of Heart failu	re.			

•				
	Diagnose Heart failure.			
٠	List complications of Heart fa	ilure.		
•	Analyze the pharmacological	management in th	e treatment of Hear	t failure
4.	Approach to Patient with Chest Pain	LGIS	Dr. Raafe Iqbal	Must Know
Lear	rning Outcomes:			
•	Generate differential diagnosi	s of the patient wi	th chest pain.	
•	Differentiate between cardiac	-	-	
•	Identify Various causes of life		-	
•	Investigations required and th	-	-	
٠	Outline the emergency manag	-		
5.	Ischemic heart disease	LGIS	Dr. Raafe Iqbal	Must Know
	Angina & Unstable Angina	2015	Di Ruure regui	
Lea	rning Outcomes:			
Lu	Define			
•	 Acute coronary syndromic 	ome (ACS)		
	Angina	onie (neb)		
	Unstable angina pecto	ris (UA)		
	 Non-ST segment eleva 	, ,	nfarction (NSTE M	D
	> ST segment elevation	•		-,
•	Provide pathophysiological ba	•		
•			lenna.	
•	Diagnose ACS and MI.		ienna.	
•	Diagnose ACS and MI. List complications of MI			
•	Diagnose ACS and MI. List complications of MI Analyze the pharmacological	management in th	e treatment of ACS	
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• • •	Diagnose ACS and MI. List complications of MI Analyze the pharmacological Differentiate between male an Examine ACS modifiable and Discuss coronary revasculariz	management in th Id female signs an I non-modifiable r ation n procedure	e treatment of ACS d symptoms of ACS isk factors. s and nursing care.	5.
• • • •	Diagnose ACS and MI. List complications of MI Analyze the pharmacological Differentiate between male an Examine ACS modifiable and Discuss coronary revasculariz Acute coronary	management in th id female signs an non-modifiable r	e treatment of ACS d symptoms of ACS isk factors.	
• • 6.	Diagnose ACS and MI. List complications of MI Analyze the pharmacological Differentiate between male an Examine ACS modifiable and Discuss coronary revasculariz Acute coronary syndrome MI	management in th Id female signs an I non-modifiable r ation n procedure	e treatment of ACS d symptoms of ACS isk factors. s and nursing care.	5.
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6. Lea	Diagnose ACS and MI. List complications of MI Analyze the pharmacological Differentiate between male an Examine ACS modifiable and Discuss coronary revasculariz Acute coronary syndrome MI ming Outcomes: ne Acute coronary syndrome (AC Angina Unstable angina pectoris (UA	management in th ad female signs an non-modifiable r ation n procedure LGIS	e treatment of ACS d symptoms of ACS isk factors. s and nursing care. Dr. Raafe Iqbal	S. Must Know
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Learning Outcomes:

- Describe its Etiology
- Discuss pathophysiology related to clinical presentation Identify its Clinical presentation •
- •
- Formulateits Investigation plan Plan its management •

•	Plan its management			
8.	Acute pericarditis &	LGIS	Dr. Raafe Iqbal	Should Know
	Pericardial Disease			
Lear	ning Outcomes:			
•	Differentiate between types of	f Pericarditis on t	he basis of its etiolog	gy and
	pathophysiology			
•	Identity acute and chronic con	mplications of Pe	ricarditis	
•	Identify the clinical manifesta	ation of Pericardit	is with diagnostic ap	proach of
	Pericarditis.			
•	State principles of manageme			
•	List common causes and und			sion
•	Recognize early signs of peri	-		
•	Justify the role of echo cardio	graphy in the dia	gnosis of pericardial	effusion
9.	Mitral Valve Disease	LGIS	Dr. Raafe Iqbal	Should Know
Lear	ning Outcomes:			
•	List causes of Valvular Heart	Disease		
•	Describe Etiology, pathogene	sis and hemodyn	amics of mitral/aorti	c valve disease.
•	Outline management plan.			
10.	Aotic Valve Disease	LGIS	Dr. Raafe Iqbal	Should Know
Lear	ning Outcomes:			
•	List causes of Valvular Heart	Disease		
•	Describe Etiology, pathogene	esis and hemodyn	amics of mitral/aorti	c valve disease.
•	Outline management plan.			
11	Infective L	GIS	Dr. Raafe Iqbal S	hould Know
	Endocarditis			
Lear	ning Outcomes:			
•	List causes of Infective Endo	carditis.		
•	Describe Etiology, pathogene	esis, clinical featu	res and diagnostic cr	iteria of
	infective Endocarditis.			
•	Outline management plan.			
1		Gastroenterolog		
1.	GERD	LGIS	Dr. Noreen Adil	Must Know
Lea	rning Outcomes:		· • • • •	
•	Identify the causes of Dysper		-	
•	Generate differential diagnos	• • •	-	lcer
•	Establish definitive diagnosis		ory investigations	
•	Develop treatment plan for G	1	D. N	Mart V
2.	Peptic Ulcer Disease	LGIS	Dr. Noreen Adil	Must Know
Lea	rning Outcomes:			
		41		

		71		
•	Identify the causes of Peptic U			
•	Generate differential diagnosi	• • •	-	
•	Establish definitive diagnosis		ry investigations De	velop
	treatment plan for Peptic Ulce			
•	Evaluate prognosis of the pati			
3.	GI Bleeding	LGIS	Dr. Noreen Adil	Must Know
Lea	rning Outcomes:			
•	Define upper GI Bleed			
•	Describe etiology of upper GI	Bleed		
•	Identify its clinical features			
•	Plan evaluation of case of GI	Bleed		
•	Discuss relevant investigation	S		
•	Discuss management			
4.	Diarrheas	LGIS	Prof. D. Muzamil Jamil	Must Know
Lea	rning Outcomes:			
•	Define acute diarrhea			
•	Describe its Pathophysiology			
•	Identify its Clinical presentati	on		
•	Plan Investigation			
•	Discuss detailed management	plan		
5.	Pancreatitis	LGIS	Dr. Jamila Khan	Should Know
Lea	rning Outcomes:			
•	Elaborate the pathophysiology	of Acute and Ch	ronic Pancreatitis	
•	Diagnose the patient on the ba			tions
•	Outline the Treatment plan		0	
•	List its Complications			
6.	Acute Viral Hepatitis	LGIS	Dr. Sohail Iqbal	Must Know
	•		Bhutta	
Lea	rning Outcomes:			
•	Classify viral Hepatitis			
•	Differentiate between differen	t types of Hepatit	is	
•	Interpret investigations for dia			
•	Discuss their modes of transm	• •		
•	Outline the treatment plan and			
•	List the Complications	F8		
•	Plan & advice about its preven	ntion at individual	& community level	
7.	Cirrhosis - Ascites	LGIS	Dr. Sohail Iqbal	Must Know
/.	Chilliosis - Ascius	LOID	Bhutta	Widst Know
Lea	rning Outcomes:			
•	Describe the causes, patholog		-	hosis
•	Explain the pathogenic	mechanism of He	patic Fibrosis	
•	Discuss the Management	nt and prognosis o	of the condition	
•	Elaborate the causes of Ascite	2S		
•	Outline the management	t and prognosis		
•	Outline the managemen	n and prognosis		

8.	Cirrhosis - Hepatic	LGIS	Dr. Shahid	Must Know
	Encephalopathy		Saleem	
Lea	rning Outcomes:			
•	Correlate the causes and patho	ology of hepatic e	ncephalopathy to its	clinical
	features			
•	Enlist precipitating causes of	encephalopathy		
•	Outline the management and	prognosis		
9.	Chronic Viral Hepatitis	LGIS	Prof. Sohail Iqbal Bhutta	Must Know
Lea	rning Outcomes:			
•	Classify viral Hepatitis			
•	Differentiate between differen	nt types of Hepatit	is	
•	Interpret investigations for dia	agnosis of Hepatit	is Band C	
•	Discuss their modes of transm			
•	Outline the treatment plan and	l prognosis		
٠	List the Complications			
10.	Metabolic Liver Disease	LGIS	Prof. Sohail Iqbal	Should Know
			Bhutta	
Lea	rning Outcomes:			
•	Describe the pathophysiology	, Clinical features	investigations and r	nanagement of:
	1. Wilson disease			
	2. Hemochromatosis			
11	3. Primary Biliary Cirrho	1	Dr. Noureen Adil	Should Know
11.	Hepatic Cellular Carcinoma	LGIS	Dr. Noureen Adn	Should Know
Lea	rning Outcomes:			
•	Describe the pathophysiology HCC	r, Clinical features	investigations and r	nanagement of
	nee	Dermatology		
1.	An Introduction to	LGIS	Brig. R Naveed	MUST
	Dermatology	2010	Akhtar	KNOW
Lea	rning Outcomes:			
•	Apply concepts of anatomy a	nd physiology of s	skin to clinical derma	atology give
	pathologic basis of skin lesior			
•	Identify different types of skin			
•	Differentiate characteristics o	f various skin lesi	ons	
2.	Common Bacterial Skin	LGIS	Brig. R Naveed	MUST
	Infections		Akhtar	KNOW
Lea	rning Outcomes:			
•	List the types of Bacterial and	l Mycobacterial In	ifections	
٠	Give clinical features and syn	nptoms of bacteria	and Mycobacterial	infections
•	Develop management plan to	establish diagnosi	is and treat different	infections
3.	Skin Infestations	LGIS	Brig. R Naveed Akhtar	MUST KNOW
Lea	rning Outcomes:			
	0			

1.	Recommend specific treatmen	LGIS	Brig. R Naveed	SHOULD
r.	v ii ui iiiicetionis	LOID	Akhtar	KNOW
.ea	rning Outcomes:	1		
•	List common types of viral in	fections of skin		
•	Establish diagnosis of viral sk		d on clinical features	and
	investigations.			
•	Elaborate various managemen	nt modalities of vi	arl skin infections	
		Psychiatry		
1.	Psychiatric Assessment	LGIS	Dr. Faheem	MUST
			Qasim	KNOW
lea:	rning Outcomes:			
•	Give overview regarding Pher	nomenology and I	Psychiatry disorders	
•	Classify Psychiatry disorders			
•	Elaborate epidemiological and	-		ers
•	Outline diagnostic plan for Ps	í		
<u>)</u> .	Anxiety Disorders I, (GAD	LGIS	Dr. Fatima Amir	MUST
	& Panic Disorder)			KNOW
lea:	rning Outcomes:			
•	Classify Anxiety Disorders			
•	Discuss the Management of A	1		
3.	Anxiety Disorders II,	LGIS	Dr. Faheem	MUST
	(Phobias &OCD)		Qasim	KNOW
	rning Outcomes:			
•	Classify Anxiety Disorders	nviatu Digordara		
• 	Discuss the Management of A Somatoform Disorders	LGIS	Dr. Fatima Amir	SHOULD
ŀ.	Somatororm Disorders	LUIS	DI. Fatilla Allill	KNOW
.ea	rning Outcomes:		I	In to w
•	Classify Somatoform Disorde	rs		
•	Discuss the Management of S		ders	
		nergency Medici		
1.	Aproach to an unconscious	LGIS	Dr. Turab Fatima	MUST
	patient.			KNOW
ea	rning Outcomes:			
•	Generate differential diagnosi	s of the unconscio	ous patient	
•	Identify signs and investigation		-	
•	Justify the utility of Glasgow			
•	Outline the emergency manag			
	Hypothermia	LGIS	Dr. Turab Fatima	SHOULD
2.				KNOW

•	• Devise plan for diagnosis & management of Hypothermia					
3.	3.Triaging and approach to a critical patient inLGISDr. Turab FatimaMUST KNOW					
	emergency					
Lea	Learning Outcomes:					
•	• Correlate severity of patients in ER with the concept of triage.					

Learning Resources:

1. Reference books:

- a. Davidson's Principals & Practice of Medicine 23th EditionElsevier
- b. Current Medical diagnosis & treatment (Latest Edition 2022)

2. Online resources

a. <u>www.medscape.com</u>

3. Library resources

a. Harrison's Principles of Internal Medicine 20th Edition (2018).McGraw Hill Education

Teaching faculty

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Prof. Muzamil Jamil	<u>muzamiljml@gmail.com</u>
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Dr. Syeda Turab Fatima	turabahsan@gmail.com
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Dr. Noureen Adil	noreenazam79@gmail.com

Assessment formats:

Assessment Strategies (Formative)	Assessment Strategies (Summative)
In class discussions	Practical Clinical Exam
SGD	(Short & Long Cases)
	MCQs at the end of block

Surgery

Block Learning Outcomes:

At the end of this block, final year student will be able to:

- 1. Describe the common surgery related, cardiovascular diseases and their clinical presentation; and outline the basic principles of their management. (SLO 1,2,3,4)
- 2. Discuss the common gastrointestinal pathologies and Rationalize appropriate management plan. (SLO1,3,4)
- 3. Diagnose the common and Outline the management upper/Lower limb fractures (SLO 2,3,4,5)
- 4. Describe principles and types Anesthesia.

(Details of skill related Outcomes can be found in surgery Logbooks)

S.#	Торіс	Educational Strategies	Instructor	Importance (Must Know Should Know Could Know)
		CVS		
1.	Cardiac patahlogies Cardiac tumors	LGIS	Asstt. Prof. Dr. Munawer Latif	
Learni	ng Outcomes:			
	Describe the common acquire and outline basic management		oathologies, their cli	nical presentation
2.	Varicose veins	LGIS	Assoc. Prof. Dr. Muhammad Azhar	
Learni	ng Outcomes:			
• I	Elaborate clinical presentation	, etiology and path	ophysiology of vari	cose veins.
• 5	Suggest differential diagnosis	based on assessme	nt of patient.	
	Classify varicose veins.		-	
	Rule out the diagnosis of DVT	Fusing appropriate	investigations.	
	Suggest conservative or surgic	• • • •	-	re indicated.
3.	Aneurysms	LGIS	Prof. Dr. M. Naeem Ashraf	
Learni	ng Outcomes:			
	Elaborate clinical presentation	, etiology and path	ophysiology of ane	urysms
	Suggest clinical workup and n	•••		
4.	Acute and chronic limb	LGIS	Assoc. Prof. Dr.	
	ischemia		Naeem Akhtar	
Learni	ng Outcomes:		·	
• I	dentify clinical manifestation	s and etiology of a	cute and chronic lim	nb ischemia
• I	Relate the major risk factors to imb ischemia.	•••		
• 1	Elaborate differential diagnosi	is of acute limb iscl	hemia.	

	ggest appropriate investigation		-				
	scuss the medical and surgical	-					
5.	Venous Ulcer + DVT	LGIS	Prof. Brig (R). Dr. Mannan Masud				
earnin	g Outcomes:						
• Ela	aborate clinical presentation, e	tiology and p	athophysiology of DV	Г			
• Su	ggest conservative or surgical	management	t of venous ulcer				
6.	Congenital & Development anomalies of limbs and spine		Asstt. Prof .Dr. M. Ikram				
earnin	g Outcomes:	-		-			
	aborate clinical presentation, e	tiology and p	athophysiology of DV	Г			
	ggest conservative or surgical						
7.	Diabetic Foot & Gangrene ulcer	LGIS	Assoc. Prof. Dr .Naeem Akhtar				
Learnin	g Outcomes:						
• De	escribe the causes , risk factors formulate the management plan		-	foot			
		Oral Cavit	y				
8.	CA Tongue	LGIS	Asstt. Prof. Dr. Munawer Latif				
Learnin	g Outcomes:						
	escribe cause, Risk factors & c	linical preser	tation of CA Tongue.				
	ormulate investigation & treatm	-	U				
		GIT					
9.	Esophagus I	LGIS	Assoc. Prof. Dr. M. Azhar				
Learnin	g Outcomes:						
-	escribe the causes, risk factors	and clinical p	presentation of esophage	eal perforation.			
	ormulate the management plan	-		-			
10.	Liver	LGIS	Prof. Brig(R). Mannan Masud				
earnin	g Outcomes:						
	list the common causes of live	er abscess					
• Di	• Discuss the clinical presentation of liver abscess						
 Generate differential diagnosis of SOL Liver 							
• De	evelop plan for diagnosis, treat mplications		evention of SOL liver ar	nd its			
	enerate differential diagnosis o	f SOL Liver					
• De	evelop plan for diagnosis, treat		evention of SOL liver ar	nd its			

complications

 Discuss the causes of Ca stomach Discuss the warning signs which lead to the diagnosis of Ca stomach Discuss the presenting complaints of Ca stomach list the investigations needed to diagnose the case Describe the staging and grading of cancer. Describe the management plan for a patient with Ca stomach 13. Small Gall LGIS Assoc. Prof. Dr. Naeem Akhtar Learning Outcomes: Elaborate the etiology Differential diagnose, Clinical factors of intestinal abstraction Describe the management plan for patient with intestinal obstruction 14. CA Colon LGIS Prof. Brig (R). Dr. Mannan Masud Learning Outcomes: Discusses the pathological basis of CA Colon Elaborate the staging of CA Colon Elaborate the staging of CA Colon Diagnose CA Colon and chronic abdomen based on clinical presentation Develop management and Prevention of CA Colon and chronic Abdomen and their associated complication plan for. 	11.	Disease of Spleen	LGIS	Prof. Brig (R). Dr. Mannan Masud	
 Diagnose pancreatitis using Ranson and Glasgow criteria Enumerate causes of pancreatitis and its predisposing factors Elaborate the Diagnosis of pancreatitis based on its signs and symptoms Manage pancreatitis and its complications Discuss the etiology of Ca Pancreas Discuss the Clinical Presentation and diagnostic workup for carcinoma pancreas Plan the surgical management of Ca Pancreas and its complications I2. Stomach & duodenum LGIS Prof Brig (R). Dr. Muhammad Parvez Learning Outcomes: Discuss the causes of Ca stomach Discuss the presenting complaints of Ca stomach Discuss the presenting complaints of Ca stomach Iist the investigations needed to diagnose the case Describe the staging and grading of cancer. Describe the staging and grading of cancer. Describe the staging and grading of cancer. Describe the etiology Differential diagnose, Clinical factors of intestinal abstraction Describe the etiology Differential diagnose, Clinical factors of intestinal abstraction Describe the management plan for patient with intestinal obstruction IA CA Colon LGIS Prof. Brig (R). Dr. Manana Masud 	Learning	Outcomes:			
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23. Lower Limbs Fractures and LGIS Prof. Dr. Sajid		0	d treatment nlan	of upper limb fract	ure.
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	4 J.	Lower Linios Fractures and	1010	U	

Learning	g Outcomes:			
-	scribe clinical presentation an	d treatment plan	of Lower limb fract	ure and
	location.	1		
24.	General Principles of	LGIS	Asstt. Prof. Dr.	
	orthopedics' trauma		M. Ikram	
	Management			
Learning	g Outcomes:			
-	scuss the principles of orthope	edics trauma man	agement.	
25.	Introduction to trauma	LGIS	Dr Naeem	
	golden HR, ATLS		Ashraf	
Learning	g Outcomes:			
	scribe the principles of protoc	cols of ATLS		
26.	Facial Trauma, Mandible,	LGIS	Asstt. Prof. Dr	
	leforte		.Usman ul haq	
Learning	g Outcomes:			
	scuss principles of facial traur	na, mandible, lef	orte	
27.	Local Anaesthesia and	LGIS	Senior Registrar.	
	pharmacology of Local		Dr Varda	
	Anaesthesia			
Learning	g Outcomes:			
	scuss the mechanism of action	dose, side effect	s of local anesthesia	a
28.	IV Anaesthesia, Induction	LGIS	Prof. Brig(R).	
	agent, general Anaesthesia		Dr. Fareed	
			Azam	
Learning	g Outcomes:	-	-	-
-	scuss clinical presentation wo	rkup for general a	anesthesia	
	chanism of action dose, side e			Anaesthesia
29.	Patient Safety	LGIS	Prof. Dr. Naeem	
			Ashraf	
Learning	g Outcomes:			
	scuss patient's safety training	in clinical practic	ce.	
30.	Patient Safety	LGIS	Prof. Dr. Naeem	
	-		Ashraf	
Learning	g Outcomes:			
	scuss patients safety issue and	protocol in clini	cal practices	

Learning Resources:

1. Reference Books

• Bailey & Loves, Norman brows, clinical methods, Essential Orthopaeidcs (including Clinical method & Anesthesia for medical students

2. Online Resources

• Zoom

3. Library resources

Teaching Faculty:

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Gynecology

Subject Learning Outcomes:

- 1. Triage and refer women to the appropriate facility of care.
- 2. Conservatively manage common illnesses.
- 3. Assist in management of critical cases.
- 4. Counsel patients and their attendants regarding management options and preventive measures.

Block Learning Outcomes:

- 1. Identify the clinical presentation, diagnose and plan management of women with medical complications of pregnancy (Hypertension, cardiac diseases, liver disorders, obstetric cholestasis and venous thromboembolism) and recognizes limitations and escalate care to senior colleagues and other specialties when appropriate.
- 2. Appraise the risk factors and manage patients in normal labour, pre-term labour, preterm prelabour rupture of membranes (PPROM) and having multiple pregnancy.
- 3. Formulat a plan for antenatal care, prenatal diagnosis and is able to assess fetal well-being.
- 4. Identify and manage patients with common perinatal infections.

S.#	Торіс	Educational Strategies	Name of Instructor	Importance (Must Know Should Know Could Know)		
1	Hypertensive disorders of	LGIS	Prof. Mehreen	Must Know		
	pregnancy		Mehdi			
Learn	ing Outcomes:					
•	Enlist and define types of hypertens	ive disorders in	pregnancy			
•	Describe etiology & pathophysiolog	gy of pre-eclamp	osia			
	Explain clinical presentation of PIH					
•	Interpret investigations to diagnose	pre-eclampsia				
•	Manage a patient of PIH and pre-ec	lampsia				
•	Define eclampsia and HELLP synd	rome				
•	Describe risk factors and pathophys	iology of eclam	psia and HELLP s	yndrome		
•	Interpret investigations for eclamps	ia and HELLP s	yndrome			
•	Formulate a management plan for e	clampsia and HI	ELLP syndrome			
2	Cardiac diseases in pregnancy	LGIS	Prof. Dr.	Should Know		
			Kinza Alam			
Learn	ing Outcomes:					
•	• Discuss Pre-pregnancy counselling of patients with heart diseases					
•	Describe antenatal management of	patients with car	diac disease in pre	egnancy		

• Identify high risk cardiac conditions & comprehend NHYA classification of cardiac patients

- Review a general management plan of labour & delivery of cardiac patients
- Outline management of heart failure and specific conditions i.e., IHD, Mitral & aortic stenosis, Marfan syndrome & pulmonary hypertension

	aortic stenosis, Marfan syndrome &	pulmonary hyp	ertension			
3	Antenatal care	LGIS	Prof. Humaira Nasir	Must Know		
Lear	ning Outcomes:					
•	Discuss the aims & importance of a	ntenatal care				
٠	Describe the antenatal booking visit	, Booking histor	y &examination			
٠	Discuss investigations done at book	ing visit & their	importance			
٠	Explain follow up visits & routine a	ntenatal care in	pregnancy			
4	Assessment of fetal wellbeing	LGIS	Dr. Ayesha	Must Know		
	and prenatal diagnosis		Irfan			
Lear	ning Outcomes:					
٠	Discuss the clinical application of u	ltrasound and sc	anning schedule i	n pregnancy		
•	Discuss ultrasound assessment of fe	tal wellbeing, bi	ophysical profile	and its		
	importance					
٠	Explain the Doppler investigations of	done to assess fe	etal well being			
•	Enlist conditions that can be diagno	sed in pre-natal	period and describ	be method		
٠	Describe indications, contraindication	ons and complic	ations of chorioni	c villus		
	sampling, amniocentesis and cordoo	centesis				
•	Discuss down syndrome screening					
5	Preterm labour &PPROM	LGIS	Dr. Shabana Kalsoom	Must Know		
Le	earning Outcomes:		-			
٠	Describe preterm labour, its frequen	cy, pathogenesi	s and consequence	e of preterm		
	labour					
•	Review the Modifiable and non-mo	odifiable risks fo	r Preterm labour			
٠	Plan management of a patient in Pre	eterm labor				
•	Discuss the etiology of preterm prel	abour rupture of	membranes (PPF	ROM)		
•	Diagnose a case of preterm prelabou	ar rupture of me	mbranes			
٠	Formulate a management plan for p	atients having p	reterm prelabour r	upture of		
	membranes					
6	Liver disorders in pregnancy &	LGIS	Dr. Khair-Un-	Should Know		
	obstetric cholestasis		Nisa			
Le	earning Outcomes:					
•	Discuss viral hepatitis, its effects on	pregnancy, risk	of perinatal trans	mission and		
	management during pregnancy					
•	Describe obstetric cholestasis, its et		-	t of pregnancy		
•	Discuss management of women with cholelithiasis during pregnancy					
7	Multiple pregnancy	LGIS	Prof. Mehreen Mehdi	Must Know		
Lear	ning Outcomes:					
•	Review the incidence, predisposing	factors and type	es of twin pregnan	су		
٠	Discuss the antenatal, intrapartum a			-		

• Discuss the antenatal, intrapartum and postpartum complications of multiple pregnancy

• Formulate a management plan for antenatal and intrapartum care of multiple pregnancy

8	Antenatal obstetric	LGIS	Prof. Humaira	Should Know
	complications (Minor ailments		Nasir	
	of pregnancy & Venous			
	thromboembolism)			

Learning Outcomes:

- Review musculoskeletal problems, common gastrointestinal problem hyperemesis gravidarum, hemorrhoids and their management
- Describe etiology and management of varicose veins and edema in pregnancy
- Discuss the incidence and clinical presentation of DVT and pulmonary embolism.
- Select and interpret investigations for DVT and pulmonary embolism.
- Manage a patient with DVT and pulmonary embolism in pregnancy
- Suggest preventive measures for VTE in pregnancy

9	perinatal infections	LGIS	Prof. Dr.	Should Know
			Kinza Alam	

Learning Outcomes:

- Enlist infections causing congenital abnormalities
- Discuss the infective organism, prevalence, clinical features, effect on fetus and management of rubella, syphilis, toxoplasmosis, CMV, chicken pox
- Enlist congenital infections associated with pregnancy loss and preterm birth
- Enlist the infections acquired around the time of delivery with serious neonatal consequences
- Discuss the infective organism, prevalence, screening and management of HIV in pregnancy

10	Normal labour & its	LGIS	Lt Col Zaib	Must Know
	management		Un Nisa	

Learning Outcomes:

- Identify changes in uterus, cervix and hormonal factors that occurs during labor & Diagnose onset of labor
- Explain stages of labour.
- Describe the diameters of normal gynaecoid pelvis, the anatomy and diameters of fetal skull
- Critically appraise the mechanism of normal delivery
- Discuss on admission history taking, general physical examination, abdominal examination and vaginal examination
- Outline management of first, second and third stage of labour

11	Urogynaecology: Urinary	LGIS	Dr. Gulwish	Must Know
	incontinence		Hameed	

Learning Outcomes:

- Identify the causes of urinary incontinence
- Appraise the differentiating points in history indicating cause of incontinence
- Enlist investigations to reach the diagnosis
- Discuss management option of each type of incontinence

• Must know names of surgical procedures for stress incontinence

Learning Resources:

1. Reference Books

- Obstetrics by ten teachers 20th edition
- Gynaecology by ten teachers 20th edition

2. Library resources

- Hacker and Moore's essential obstetrics 6th edition
- High Risk pregnancy 5th edition
- Shaw's text book of gynaecology 17th edition

3. Teaching faculty :

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Dr. Ayesha Irfan	nazayesha2021@gmail.com
Dr. Gulwish Hameed	gulwishhameed@gmail.com

Assessment formats :

Assessment Strategies (Formative)	Assessment Strategies (Summative)
SEQ, MCQ	SEQ, MCQ, OSPE

Pediatrics

Subject Learning Outcomes:

The students should be able to

Diagnose, investigate and plan management of common cardiovascular disorders in children

- Recognize complications & preventive measures and discuss prognosis of pediatric cardiovascular disorders.
- Diagnose, investigate and plan management plan of common GIT disorders.
- Diagnose, investigate and plan management of acute and chronic respiratory illnesses.
- List complications, preventive measures and discuss prognosis of diseases causing respiratory illnesses.

S.#	Торіс	Educational Strategies	Name of Instructor	Importance (Must Know Should Know Could Know)			
		CVS					
1.	Child with Cyanosis	LGIS	Dr Tahir Mahmood	Must Know			
Lear	Learning Outcomes:						
•	Define cyanosis						
•	Describe the basics of cyanosis						
•	List Differential Diagnosis of cyan	osis in a child					
•	Differentiate between central and p	eripheral cyano	sis				
•	• Discuss key areas in history and examination relevant to children presenting with						
	cyanosis						
•	List investigations and outline man						
2.	Cyanotic Congenital Heart	LGIS	Prof Munazza	Must Know			
_	Disease		Saleem				
Lear	ning Outcomes:						
•	Define murmur						
•	List common congenital heart defe	•••					
•	Describe the evaluation through his	• • •		-			
•	Explain the management options for prognosis	or different cyan	otic heart diseases	s and their			
•	Discuss pathophysiology, clinical n	nanifestations a	nd complications of	of			
	Eisenmenger's syndrome						
3.	Acyanotic Congenital Heart	LGIS	Prof Munazza	Must Know			
	Disease		Saleem				
Lear	ning Outcomes:						
•	List common congenital heart defe	1 0	•				
•	Describe the clinical features of lef	U	•				
•	Recognize clinical features of common lesions causing pressure overload						

• Discuss difference between small and large left to right shunts

IT	0	management	steps and prognosis	
1	Decument Abdominal nair	ICIC	Dr. Viron Chah	Must Vasu
4.	Recurrent Abdominal pain	LGIS	Dr Kiran Shah	Must Know
Jear	ning Outcomes:			
•	Cause of recurrent abdominal pair			
•	Identify common associated signs	• •	•	
•	Differentiation b/w organic & inor	rganic causes		
•	Plan diagnostic work up			
•	Outline management startegies	LOIG		
5.	Malabsorption Syndromes / Chronic Diarrhea	LGIS	Dr Tahir Mehmood	Must Know
ogri	ning Outcomes:		Wieliniood	
	Define Chronic & Persistent diarr	hea		
•	List organisms causing diarrhea.	iica.		
•	Classify dehydration			
•	Identify signs & symptoms of deh	vdration		
•	Identify the clinical presentation of	-	on	
•	Identify the signs and symptoms of	-		se.
•	List investigations and outline ma			
•	List complications of malabsorptic	• •		siai arabib.
•	Discuss prognosis.			
6.	Jaundice / Acute Hepatitis	LGIS	Dr Saba	Must Know
0.	Sumarce / freute frepatitis	2015	Mushtaq	indist itilow
Lear	ning Outcomes:			
•	Definition of acute & chronic hep	atitis		
•	Describe etiology of acute & chro	nic hepatitis.		
•	Describe etiology of acute & chro Discuss features of hepatotropic v			
•	Discuss features of hepatotropic v	iruses.	ement.	
• • •	Discuss features of hepatotropic v List complications of hepatitis & o	iruses. outline manag		epatitis.
• • •	Discuss features of hepatotropic v List complications of hepatitis & o List investigations and outline ma	iruses. outline manag nagement step	os of acute/chronic h	1
• • • • •	Discuss features of hepatotropic v List complications of hepatitis & o	iruses. outline manag nagement step	os of acute/chronic h	1
• • • • •	Discuss features of hepatotropic v List complications of hepatitis & o List investigations and outline mai Identify clinical features, list invest	iruses. outline manag nagement step	os of acute/chronic h	1
• • • • 7.	Discuss features of hepatotropic v List complications of hepatitis & o List investigations and outline ma Identify clinical features, list invest Wilson disease.	iruses. outline manag nagement step	os of acute/chronic h	t steps of
	Discuss features of hepatotropic v List complications of hepatitis & o List investigations and outline ma Identify clinical features, list inves Wilson disease. Discuss prognosis.	iruses. outline manag nagement step stigations and	os of acute/chronic h outline managemen Dr Qurat ul	1
	Discuss features of hepatotropic v List complications of hepatitis & o List investigations and outline ma Identify clinical features, list inves Wilson disease. Discuss prognosis. Constipation / Encoperesis	iruses. Dutline manag nagement step stigations and LGIS	os of acute/chronic h outline managemen Dr Qurat ul Ain	t steps of
	Discuss features of hepatotropic v List complications of hepatitis & o List investigations and outline mai Identify clinical features, list invest Wilson disease. Discuss prognosis. Constipation / Encoperesis ning Outcomes: Describe pathophysiology of abd p	iruses. outline manag nagement step stigations and LGIS pain, vomiting	os of acute/chronic h outline managemen Dr Qurat ul Ain g and constipation.	t steps of Must Know
	Discuss features of hepatotropic v List complications of hepatitis & o List investigations and outline ma Identify clinical features, list invest Wilson disease. Discuss prognosis. Constipation / Encoperesis ning Outcomes: Describe pathophysiology of abd p List causes of vomiting and const	iruses. outline manag nagement step stigations and LGIS pain, vomiting ipation in nec	os of acute/chronic h outline managemen Dr Qurat ul Ain g and constipation.	t steps of Must Know
	Discuss features of hepatotropic v List complications of hepatitis & o List investigations and outline mai Identify clinical features, list invest Wilson disease. Discuss prognosis. Constipation / Encoperesis ning Outcomes: Describe pathophysiology of abd p	iruses. Dutline managenent step stigations and LGIS pain, vomiting ipation in nec stipation.	Dr Qurat ul Ain g and constipation. onates, infants and cl	t steps of Must Know
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Leari • •	Discuss features of hepatotropic v List complications of hepatitis & o List investigations and outline mai Identify clinical features, list invest Wilson disease. Discuss prognosis. Constipation / Encoperesis ining Outcomes: Describe pathophysiology of abd p List causes of vomiting and const Discuss the organic causes of const List investigations and outline mai constipation.	iruses. Dutline managenent step stigations and LGIS pain, vomiting ipation in nec stipation.	Dr Qurat ul Ain g and constipation. onates, infants and cl	t steps of Must Know

- Describe the pathophysiology of pneumonia & bronchiolitis
- Identify signs & symptoms of pneumonia & bronchiolitis
- List causative organisms and complications of pneumonia & bronchiolitis.
- List investigations and enumerate management steps of pneumonia & bronchiolitis
- Interpret radiological findings of pneumonia & bronchiolitis.
- Interpret laboratory investigations done in a child with respiratory problem
- List preventive measure of pneumonia
- Discuss prognosis

9.	Chronic cough / Recurrent	LGIS	Dr Sohail	Must Know
	chest infections		Ashraf	

Learning Outcomes:

- List differential diagnosis of child with Chronic cough / Recurrent chest infections
- Describe the pathophysiology of TB, CF, Immotile cilia syndrome Bronchiectasis, Pertusis.
- Identify signs & symptoms of diseases causing Chronic cough / Recurrent chest infections
- List complications of diseases causing Chronic cough / Recurrent chest infections.
- List investigations and enumerate management steps of diseases causing Chronic cough / Recurrent chest infections.
- Interpret radiological findings and investigations of diseases causing Chronic cough / Recurrent chest infections.
- List preventive measure of diseases causing Chronic cough / Recurrent chest infections.
- Discuss prognosis.

10.	Tuberculosis in children	LGIS	Prof Munazza Saleem	Must Know		
	Learning Outcomes:					
•	Definition of TB					

- Epidemiology of TB in Pakistan
- Identify the clinical presentation of TB.
- List investigations and outline management steps of TB.
- List complications.
- Vaccination & Prevention
- Discuss prognosis.

Learning Resources:

- 1. Reference Books
 - Basis of Pediatrics by Parvez Akbar Khan
- 2. Online resources
 - <u>drtahirnoor@hotmail.com</u>
- 3. Library resources
 - Textbook of Pediatrics by PPA
 - Current Pediatric Diagnosis & Treatment
 - Harriet & Lane Handbook of Pediatrics
 - Pediatrics illustrated text book by Tom Lissauer
- Teaching faculty & Student's hours:

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• Assessment formats:

Assessment Strategies (Formative)	Assessment Strategies (Summative)
MCQ, SEQ, Mini CEX	MCQ, SEQ, Long case, short case

Behavioral Science

Subject Class Learning Outcomes:

- 1. Develop an understanding of influence and potential implications of culture and community on health behaviors, perceptions and beliefs.
- 2. A physician will be able to integrate this knowledge into patient care
- 3. Take detailed, accurate and relevant patient history by taking into account selfawareness and reflective writing using social and behavioral sciences approach
- 4. Provide patient centered behavioral guidance and interventions
- 5. Comprehend how social determinants of health influence health outcomes and how physician can use this knowledge in patient care
- 6. Practice professionalism and leadership qualities

7. Integrate their knowledge and skills gained throughout five years into clinical practice

Learning outcomes:

- 1. Discuss significance of Behavioral Sciences in Medical practice (SLO 1, SLO 5)
- 2. List of psychological, sociological and anthropological as well as biological determinants of health and disease in clinical practice (SLO1, SLO 5)
- 3. Analyze human behavior and other factors affecting health and disease by Enhancing doctor's own learning and clinical skill (SLO 4)
- 4. Assess types of human personality and phases of personality development along with intelligence (SLO 4)
- 5. Integrate the principles of medical ethics in professional life (SLO 6)

Sr. No.	Topics	Educational Strategies	Name of instructor	Importance (Must Know Should Know Could Know)
1.	Differentiate: Holistic Vs. Traditional Allopathic Medicine	Lectures/ Presentations	All Faculty	Must Know
Lea		ding of holistic and bio n ng of culture and medical		clinical practice
2.	Culture & Medical Practice	Lectures/ Presentations	All Faculty	Should know
Lea	rning Outcomes:Discuss the culture and	l medical practice in Paki	stan. (BLO 1)	
3.	Discuss Health Care Models and their Clinical Applications 1. Bio-Psycho- Social Model of health and disease	Lectures/ Presentations	All Faculty	Must Know
Lea	rning Outcomes:List the psychological,	sociological and anthrop and disease in clinical pra	•	•

	approach of primary ar	nd secondary prevention of	f disassa/disardar	and promotion
	of health. (BLO 1)			
4.	The Integrated Model of Health	Lectures/Presentations/ (SGD)/ seminars	All Faculty	Should Know
	Care:			
	Correlation of Body,			
	Brain, Mind, Spirit and			
T	Behavioral Sciences			
Lea	rning Outcomes:	assistant and anthron		
	• List the psychological, determinants of health	and disease in clinical pra	-	biological
5.	The Public HealthCare	Lectures/Presentations/		Should Know
5.	Model	(SGD)/ seminars	Zullalla Naveeu	Should Khow
وم]	rning Outcomes:	(SOD)/ seminars		
LCa	• List the psychological,	sociological and anthron	ological as well as	hiological
		and disease in clinical pra	-	bibibgical
6.	Understand human	Lectures/	Zunaira Naveed	Must Know
	behavior through	Presentations/		
	Principles of	Interactive		
	Psychology 1. Sensation	Video ignites/ (LGIS)		
_	and sense organs			
Lea	rning Outcomes:			
	-	or and other factors affec n learning and clinical sk	-	sease by
7.	Perception & factors	Lectures/	Zunaira Naveed	Must Know
	affecting perception	Presentations/		
		Interactive		
		Video/ (LGIS)		
Lea	rning Outcomes:			
	• Analyze human behavi		-	sease by
_	ě	n learning and clinical sk	, , , , , , , , , , , , , , , , , , ,	
8.	Principles of	Lectures/ Presentations	Zunaira Naveed	Must Know
	Psychology:	/Interactive		
	Attention and	Video/ (LGIS)		
r	concentration			
Lea	rning Outcomes:	on and other factors offer	ting health and dis	and he
	•	or and other factors affec n learning and clinical sk	-	sease by
9.	Memory & Thinking	LGIS/ Presentations	Zunaira Naveed	Must Know
		/Interactive		111000
		Video/		
Lea	rning Outcomes:			
	 Analyze human behavi 	or and other factors affec	ting health and dis	sease by
	-	n learning and clinical sk	-	····
10.	Individual human	LGIS/ Presentations/	Zunaira Naveed	Should Know
	differences	Interactive Video/		
	1. Intelligence			
	~			

Learning Outcomes:

• Assess types of human personality and phases of personality development along with intelligence (BLO 4)

Learning Resources:

- Handouts prepared by faculty
- Online resources
- Lecture notes

Teaching Faculty:

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Sara Rubab	Sararubab753@gmail.com

Assessment formats:

Assessment Strategies (Formative)	Assessment Strategies (Summative)
 Directly observed behaviors, Small group discussions, Reflective writing Portfolios MCQs, Home assignments, SAQs/SEQs 	 Assignments, Case studies, Quiz, Presentations MCQs, SAQs/SEQs, OSPE, Viva

7. Rules & Regulations:

i. Student's code of conduct

The Student Code of Conduct sets out the standards of conduct expected of students. It holds individuals and groups responsible for the consequences of their actions. Failure to fulfill these responsibilities may result in the withdrawal of privileges or the imposition of sanctions.

Wah Medical College is a community of students, faculty and staff involved in learning, teaching, research and other activities. All members of WMC community are expected to conduct themselves in a manner that contributes positively to an environment in which respect, civility, diversity, opportunity and inclusiveness are valued, so as to assure the success of both the individual and the community. The Student Code of Conduct reflects a concern for these values and tries to ensure that members of the WMC can make use of and enjoy the activities, facilities and benefits of WMC without undue interference from others.

ii. WMC student code of conduct

- Discipline
- Decent dress
- Good Manners
- Smart Turn Out
- Healthy Activities
- No smoking
- No Abusive Language
- Cooperative Attitude
- Respect for All

iii. Attendance policy

- a. Students are required to mark attendance for every class.
- b. The attendance is compiled by respective department and submitted to student affairs by the 10th of each month.
- c. Students Affair Department will compile the absent report and fine of Rs. 500/for a lecture or for the whole day will be imposed on absent students. It is pertinent to mention here that fine is imposed on students to compel them to attend classes regularly and not to generate the funds.
- A compiled attendance state of all students along with those having attendance less than 75% duly highlighted will be submitted to the Students Affairs
 Department on monthly as well as quarterly basis by the concerned departments.
- e. At the end of academic year, a consolidated state of attendance of students will be submitted to Students Affair Department.
- f. Departments will submit the list of those students having attendance less than
 75% at the end of academic year.
- g. Admission forms of students having attendance less than 75% will NOT be submitted to NUMS for appearing in Annual University Exams.

8. Study tips

Dear Students,

Becoming a doctor is a tough job, but you can make it easier for yourself by adopting some time-tested techniques or habits. It's never too early – or too late – to develop good study habits. The sooner you get into a good self-study pattern, the easier everything will be and the more your chances of getting good marks will improve. Here are our top tips for getting the most out of your self-directed study time. And remember **Perseverance is the Key to Success!**



9. Feedback on the study guide

We value your feedback and will use it for improvement of this Study guide. Kindly provide feedback for this study guide. At the email: <u>dme@wahmedicalcollege.edu.pk</u> <u>dmewahmedicalcollege@gmail.com</u>

10. References:

HARDEN, J.M. LAIDLAW, E.A. HESKETH, R. M. (1999). AMEE Medical Education Guide No 16: Study guides-their use and preparation. *Medical Teacher*, *21*(3), 248–265. https://doi.org/10.1080/01421599979491

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