Rawalpindi Medical University Rawalpindi







Study guide Clinically Oriented Integrated Modular Curriculum Endocrinology Module. 4th year MBBS. (Batch 49)





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Document Approval

Prepared By	Reviewed By	Approved By
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Document Revision History

Author(s)	Date	Version	Description
Dr Sana Bilal Associate Professor Department of Community Medicine, Dr Mahjabeen sr demo (Community Medicine Department)	2017-2018	1 st	Developed for fourth Year MBBS. Composed of Horizontally Integrated subjects of Community Medicine, Pathology & Pharmacology and vertically integrated with Gynae & Obs.
Dr Sana Bilal Associate Professor Department of Community Medicine, Dr Mahjabeen sr demo (Community Medicine Department)	2019-2020	2 nd	Developed for fourth Year MBBS. Composed of Horizontally Integrated subjects of Community Medicine, Pathology & Pharmacology and vertically integrated with Gynae & Obs, Medicine, Surgery & Pediatrics .Los revised & updated.
Dr Sana Bilal Associate Professor Department of Community Medicine, Dr Imrana Saeed APWMO, (Community Medicine Department)	2021-2022	3 rd	Developed for fourth Year MBBS. Composed of Horizontally Integrated subjects of Community Medicine, Pathology & Pharmacology and vertically integrated with Gynae & Obs, Medicine, Surgery & Pediatrics .Los revised & updated Research & bioethics curriculum incorporated
Dr Sana Bilal Associate Professor Department of Community Medicine , Dr Imrana Saeed APWMO, (Community Medicine Department)	2022-2023	4 th	Developed for fourth Year MBBS. Composed of Horizontally Integrated subjects of Community Medicine, Pathology & Pharmacology and vertically integrated with Gynae & Obs, Medicine, Surgery & Pediatrics. Los revised & updated Research & bioethics curriculum incorporated along with Professionalism
Dr Sana Bilal Associate Professor Department of Community Medicine , Dr Imrana Saeed APWMO, Dr Zaira Azhar PGT (Community Medicine Department)	2023-2024	5 th	Developed for fourth Year MBBS. Composed of Horizontally Integrated subjects of Community Medicine, Pathology & Pharmacology and vertically integrated with Gynae & Obs, Medicine, Surgery & Pediatrics. Los revised & updated. Research & bioethics curriculum incorporated along with Professionalism. Entrepreneurship curriculum incorporated.
Dr Sana Bilal Associate Professor Department of Community Medicine, Dr Mahjabeen Sr Demo (Community Medicine Department)	2024-2025	6 th	Developed for fourth Year MBBS. Composed of Horizontally Integrated subjects of Community Medicine, Pathology & Pharmacology and vertically integrated with Gynae & Obs, Medicine, Surgery & Pediatrics. Los revised & updated. Research & bioethics curriculum updated. Entrepreneurship curriculum updated.



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RMU Motto



University Moto, Vision, Values & Goals

Mission Statement

To impart evidence-based research-oriented health professional education in order to provide best possible patient care and inculcate the values of mutual respect, ethical practice of healthcare and social accountability.

Vision and Values

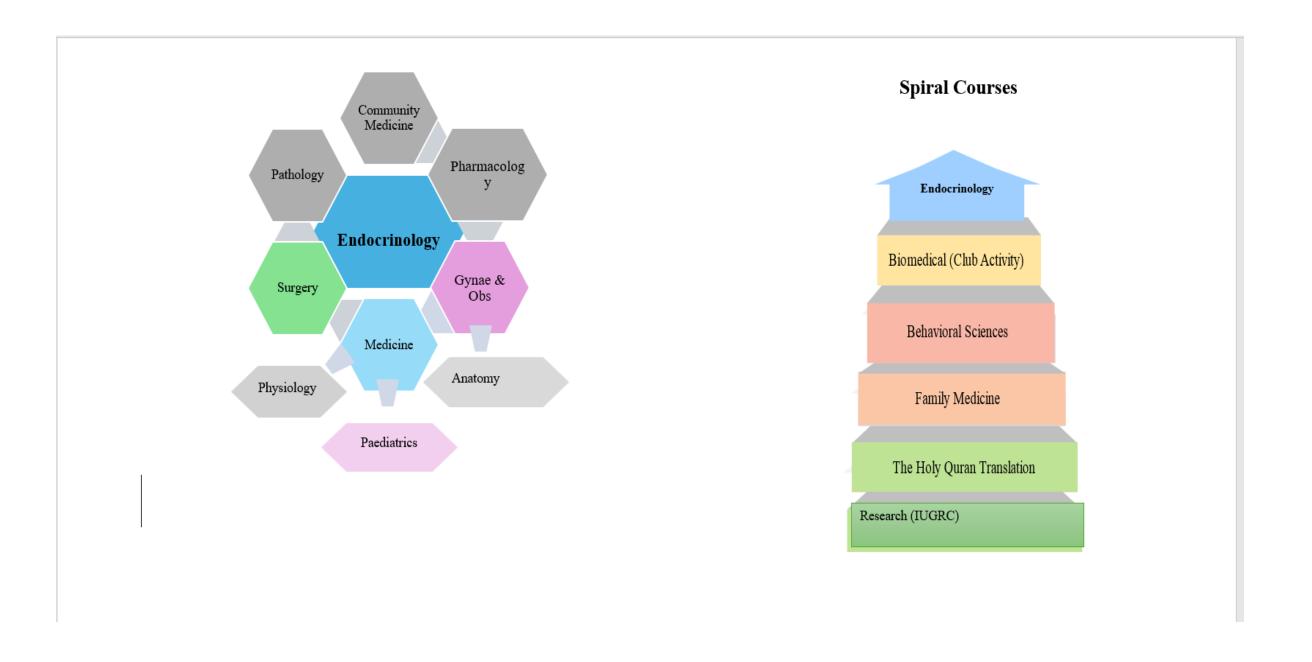
Highly recognized and accredited centre of excellence in Medical Education, using evidence-based training techniques for development of highly competent health professionals, who are lifelong experiential learner and are socially accountable.

Goals of the Undergraduate Integrated Modular Curriculum

The Undergraduate Integrated Learning Program is geared to provide you with quality medical education in an environment designed to:

- Provide thorough grounding in the basic theoretical concepts underpinning the practice of medicine.
- Develop and polish the skills required for providing medical services at all levels of the health care delivery system.
- Help you attain and maintain the highest possible levels of ethical and professional conduct in your future life.
- Kindle a spirit of inquiry and acquisition of knowledge to help you attain personal and professional growth & excellence.

Integration of Disciplines in Endocrinology Block



Discipline Wise Details of Modular Contents

Subjects	Embryology	Histology	General Anatomy	Gross Anatomy
Community Medicine	 Non-Communicable Disease introduction (Hypertension, CHD) Non-Communicable Dise (Diabetes, obesity) Non-Communicable Dise Health care delivery syste Health care delivery syste Health programs of Pakistar 	ease seases (Cancer) em em of Pakistan		
• Pharmacology	 Anti-thyroid Drugs I Anti-thyroid Drugs II Drugs that Affect Bone M Drugs Used in Diabet Drugs used in diabetes II Drugs used in diabetes III Corticosteroid I Corticosteroid III Mineralocorticoid Antagonis Hypothyroidism Corticosteroid Diabetes mellitus 	es I		
• Pathology	 Hypothyroidism and Thyroidism Hyperthyroidism Diabetics mellitus Adrenal Gland/ Hyperadrenalism 	nal tumors Disorders of Po endocrine lulla & MEN Syndrome	ost-	

	Spiral Courses					
The Holy Quran						
Translation						
Bioethics &	• Research ethics					
Professionalism						
Family Medicine	Core concepts of family medicine in Diabetes					
• Research	IUGRC Presentations and Manuscript writing					
	Vertical Integration					
Gynae/Obs						
	Thyroid in Pregnancy					
	 Pregnancy and Diabetes 					
	Complications of Diabetes & Gestational diabetes					
 Pediatrics 	Thyroid Disorders					
	Diabetes Mellitus					
• Surgery	Surgical Interventions of thyroid					
Medicine	• Acromegaly					
	Diabetes Insipidus					
	Hypothyroidism					
	Hyperthyroidism Thyroid Disorder					
	Diabetes and Hypoglycemia					
	Diabetes Mellitus/DKA					
	Cushing's Syndrome and Addison's Disease					

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1- Endocrinology Module Team

Module Name: Endocrinology

Module-order: V

Duration of Module: 4 Weeks

	Durwing of Figure 1 77 cons					
MODULE COMMITTEE			MODULE TASK FORCE TEAM			
1.	Vice Chancellor RMU	Prof. Dr. Muhammad Umar	1.	Coordinator	Dr. Mehjabeen Qureshi	
				Co- coordinator	Dr Asif Magsood	
					•	
2.	Director DME	Prof. Dr. Rai Muhammad	2.	DME focal person	Dr Maryum Batool	
۷.	Director DIVIE		۷.	DWIE local person	Di Maryum Batooi	
		Asghar				
3.	Convener Curriculum	Prof. Dr. Naeem Akhter				
4.	Dean Basic Sciences	Prof. Dr. Ayesha Yousaf				
5.	Additional Director DME	Dr. Khola Noreen				
6.	Associate Dean					
7.	Chairperson Community	Prof. Dr. Rozina Shahadat	DME Implementation Team			
	Medicine			•		
8.	Focal Person Pharmacology	Dr.Attiya Munir	1.	Director DME	Prof. Dr. Rai Muhammad	
					Asghar	
9.	Focal Person Community	Dr. Sana Bilal	2.	Add. Director DME	Dr. Khola Noreen	
	Medicine					
10.	Focal person Pathology	Dr. Syeda Ayesha	3.	Deputy Director DME	Dr. Saadia Chaudhary	
11.	Focal person family medicine	Dr Saadia		1 0		
	•		4.	Assistant Director DME/Module planner &	Dr. Omaima Asif	
				Implementation coordinator		
			5.	Editor	Dr. Omaima Asif	

Module Preparation team

Professor Dr Rozina Shahadat Khan HOD Community Medicine Department

Dr Mehjabeen Qureshi Coordinator

Dr Asif Maqsood

Co-Coordinator

Department of Community Medicine Rawalpindi Medical University

2-University Motto, Vision, Values & Goals Mission Statement

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- i. Provide thorough grounding in the basic theoretical concepts underpinning the practice of medicine.
- ii. Develop and polish the skills required for providing medical services at all levels of the Health care delivery system in future life.
- iii. Kindle a spirit of inquiry and acquisition of knowledge to help you attain personal and professional growth & excellence.

Introduction to Endocrinology Module

Introduction: Endocrinology module provides integration of core concepts that underlie the foundation of basic sciences and their use in clinical medicine. This will (Even)tually lead to developing critical thinking for integration and application of basic knowledge for clinical application.

Rationale: System based learning structure is adopted. The Endocrinology module is designed to impart basic knowledge. This knowledge will serve as a base on which the student will construct further knowledge about the etiology, pathogenesis, pr(Even)tion of diseases and the principles of their therapeutics and management.

Module outcomes:

Knowledge

Each student will be able to acquire knowledge about the basic concepts of diseases in the community, use technology based medical education and to appreciate concepts & importance of

- Research
- Biomedical ethics
- Family medicine
- Artificial Intelligence Skills

Interpret and analyze various practical & practices of clinical sciences.

Attitude

Demonstrate a professional attitude. Team building spirit and good communication skills.

This module will run in 4 weeks. The content covered will be made visible through introductory titles of the teaching sessions. Instructional strategies are given in the timetable and learning objectives are briefed in study guides. Study guides will also be available on university website.

3-Terms & Abbreviations

Contents

- Domains of Learning
- Teaching and Learning Methodologies/Strategies
 - **→** Large Group Interactive Session (LGIS)
 - **→** Small Group Discussion (SGD)
 - → Self-Directed Learning (SDL)
 - **→** Case Based Learning (CBL)
 - → Peer assisted learning (PAL)
 - → Clinical / skill lab

Tables and figures

- → Table1. Domains of learning according to Blooms Taxonomy
- → Figure 1. Prof Umar's Model of Integrated Lecture
- → Table 2. Standardization of teaching content in Small Group Discussions
- → Table 3. Steps of taking Small Group Discussions

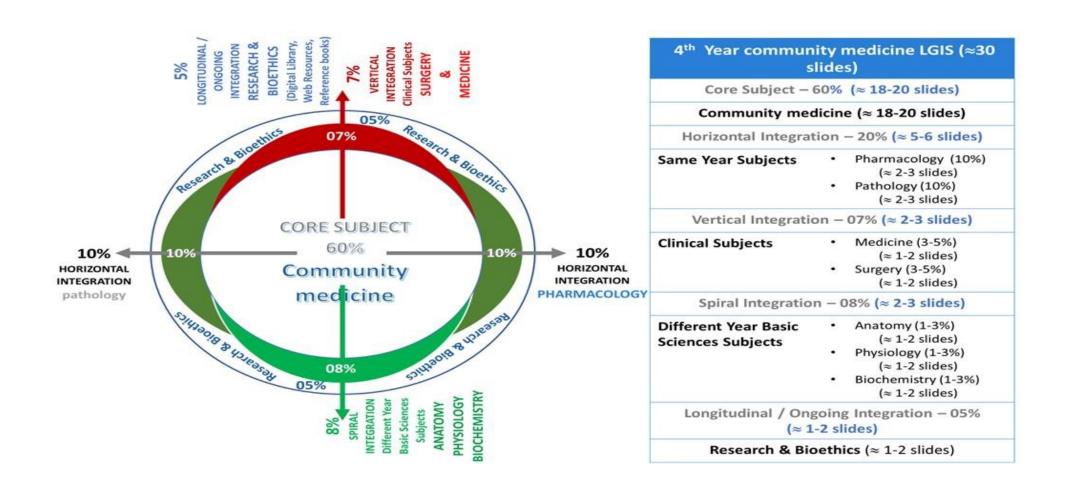
4- Domains Of Learning According to Blooms Taxonomy

Abbreviation	Domains of learning
C	Cognitive Domain: knowledge and mental skills.
C1	Remembering
C2	Understanding
C3	Applying
C4	Analyzing
C5	Evaluating
C6	Creating
P	Psychomotor Domain: motor skills.
P1	Imitation
P2	Manipulation
Р3	Precision
P4	Articulation
P5	Naturalization
A	Affective Domain: feelings, values, dispositions, attitudes, etc
A1	Receive
A2	Respond
A3	Value
A4	Organize
A5	Internalize

5-Teaching and Learning Methodologies / Strategies

Large Group Interactive Session (LGIS)

The large group interactive session is structured format of Prof Umar Model of Integrated lecture. It will be followed for delivery of all LGIS. Lecturer will introduce a topic or common clinical condition and explains the underlying phenomena through questions, pictures, videos of patients, interviews and exercises, etc. Students are actively involved in the learning process.



6-Small Group Discussion (SGD)

This format helps students to clarify concepts acquire skills and attitudes. Sessions are structured with the help of specific exercises such as patient case, interviews or discussion topics or power point presentations. Students exchange opinions and apply knowledge gained from lectures, SGDs and self-study. The facilitator role is to ask probing questions, summarize and helps to clarify the concepts.

Standardization of teaching content in SGD

S. No	Contents	Approximate share in %
1	Title of SGD	
2	Learning Objectives from Study Guides	
3	Horizontal Integration	5%+5% = 10%
4	Core Concepts of the Topic	70%
5	Vertical Integration	10%
6	Related Advance Research points	3%
7	Biomedical Ethical points	2%
8	Spiral integration	5%

Step 1	Sharing of Learning objectives by using students Study guides	First 5 minutes
Step 2	Asking students pre-planned questions from previous teaching	5minutes
	sessionto develop co-relation (these questions will be standardized)	
Step 3	Students divided into groups of three and allocation of learning	5minutes
	objectives	
Step 4	ACTIVITY: Students will discuss the learning objectives among	15 minutes
	themselves	
Step 5	Each group of students will present its learning objectives	20 min
Step 6	Discussion of learning content in the main group	30min
Step 7	Clarification of concept by the facilitator by asking structured	15 min
	questions from learning content	
Step 8	Questions on core concepts	
Step 9	Questions on horizontal integration	
Step 10	Questions on vertical integration	
Step 11	Questions on related research article	
Step 12	Questions on related ethics content	
Step 13	Students Assessment on online MS teams (5 MCQs)	5 min
Step 14	Summarization of main points by the facilitator	5 min
Step 15	Students feedback on the SGD and entry into log book	5 min
Step 16	Ending remarks	

7-Self Directed Learning (SDL)

- Self- directed learning is a process where students take primary charge of planning, continuing, and evaluating their learning experiences.
- Home based / time assignment.
- Learning objectives are briefed in study guide
- Learning resources including pages, book names etc. or link / web site
- Assessment: it will be online on LMS on a predefined schedule

Case Based Learning (CBL)

- It's a learner centered model which engages students in discussion of specific scenarios that resemble typically are real world examples.
- Case scenario will be given to the students
- Will engage students in discussion of specific scenarios that resemble or typically are real-world examples.

8-Learning Objectives, Teaching Strategies & Assessments

Learning objectives are given to the students and will be based on:

- Purpose to provide students with a relevant opportunity to see theory in practice Require students to analyze data in order to reach a conclusion.
- Develop analytic, communicative and collaborative skills along with content

- **Contents of the Module** 1. Horizontally Integrated Basic Sciences (Pharmacology, Pathology, Community Medicine) 2. Large Group Interactive Session (LGIS): i. Pathology ii. Community Medicine iii. Pharmacology iv. Medicine v. Surgery vi. Gynae & Obs vii. pediatrics 3. Small Group Discussions (SGD) i Pathology ii. Community Medicine iii. Pharmacology 4.Self-Directed Topic, Learning Objectives & References (SDL) i Pathology ii. Community Medicine
 - iii. Pharmacology
- 5. Peer Assisted Learning (PAL)

Community medicine

6. Skill Lab

Pathology

Pharmacology

7. Case Based Learning (CBL)

- . Pathology
- ii. Pharmacology
- 8. Wards, operation theatres
- i. Surgery
- ii. Medicine
- iii. Gynae& obs

Horizontally Integrated Basic Sciences

S no	Subjects	Teaching hours without practical/PAL
1	Pathology (LGIS+SGD+CBL)	13
2	Community medicine (LGIS+SGD)	7
2	Community medicine (EGIS+SGD)	,
3	Pharmacology (LGIS+SGD+CBL)	13

PATHOLOGY

Large Group Interactive Session (LGIS)

Topic	Contents Outlines (Major Topics & Sub- Topics)	Learning objectives After The Session Students Will Be Able To:	Learning domain	Teaching strategy	Assessment tool
Hypothyroidism and Thyroid Tumors	 Pathophysiology of thyroid gland Introduction types, causes &sign symptoms of hypothyroidism Pathophysiology of Hashimoto's Thyroid function test 	The students should be able to 1) explain hypothyroidism 2)classify and explain benign and malignant neoplasms of thyroid	C2 C2	LGIS	MCQs, SEQs, OSPE Viva
Hyperthyroidism	 Introduction types, causes &sign symptoms of hyperthyroidism Pathophysiology of Grave's disease Thyroid function test 	The students should be able to 1) compare and differentiate between hyperthyroidism and hypothyroidism 2)to describe pathophysiology of graves' disease.	С3	LGIS	MCQs, SEQs, OSPE Viva
Diabetics mellitus	 Introduction , classification & causes of Diabetes Mellitus Plasma glucose regulation Pathophysiology of DM Investigation for DM 	 Students should be able to classify Diabetes Mellitus Diagnose, and explain pathogenesis of diabetes along with glucose homeostasis. 	C2 C3	LGIS	MCQs, SEQs, OSPE Viva
Adrenal Gland/ Hyperadrenalism	 Introduction to Hyperadrenalism Types Investigation of Hyperadrenalism 	Students should be able to 1) explain pathophysiology of Cushing syndrome 2) explain the pathophysiology of hyperaldosteronism and adrenogenital syndromes	C2 C3	LGIS	MCQs, SEQs, OSPE Viva
Hypoadrenalism and adrenal tumors	 Introduction to hypoadrenalism Types Investigation of hypoadrenalism 	Students should be able to 1) describe the pathophysiology of Addison's disease and other hypo adrenal disorders 2)To describe the pathophysiology and microscopic features for diagnosis of adrenal cortical adenoma and carcinoma	C2, C3	LGIS	MCQs, SEQs, OSPE Viva

Small Group Discussion (SGDs)

Demonstration	Contents Outlines (Major Topics & Sub- Topics)	Learning objectives After the Session Students Will Be Able To:	Learning domain	Teaching strategy	Assessment tool
Disorders of Post- Pituitary Hormones	 Introduction to post pituitary gland and hormones secreted Diseases /disorders of post pituitary gland Investigations 	 explain hypopituitarism and posterior pituitary gland diseases 	C2	SGD	MCQs, SEQs, OSPE Viva
Parathyroid Disorders	Introduction to parathyroid disorders and its Investigations	 explain Parathyroid Disorders, clinical features and pathophysiology 	C2	SGD	MCQs, SEQs, OSPE Viva
Parathyroid Adenoma/carcinoma	Introduction to parathyroid adenoma /carcinoma, clinical features, pathophysiology and its Investigations	• explain Parathyroid Adenoma/carcinoma, clinical features and pathophysiology	C2	SGD	MCQs, SEQs, OSPE Viva
Pancreatic tumors, Neuroendocrine	Introduction to Pancreatic tumors, Neuroendocrine, clinical features, pathophysiology and its Investigations	 explain Pancreatic tumors, Neuroendocrine diseases 	C3	SGD	MCQs, SEQs, OSPE Viva
Disorders of Adrenal medulla & MEN Syndrome	Introduction to adrenal medulla gland Diseases /disorders of adrenal medulla Features of MEN, S syndrome Investigations	 describe the pathophysiology and microscopic features of pheochromocytoma explain the diagnostic features of MEN 1 and MEN 2 syndromes. 	C2	SGD	MCQs, SEQs, OSPE Viva

Case Based Learning (CBL)

ТОРІС	Contents Outlines (Major Topics & Sub- Topics)	Learning objectives At the end of session students will be able to:	Learning Domain	Assessment tool
Complications of Diabetes Mellitus	Pathophysiology diagnosis and complications of diabetes mellitus	 Describe in detail the complications, pathological findings and organ involvement in diabetes Explain the lab investigations required to diagnose diabetes 	C2 C2	MCQs
Pineal gland	Pathophysiology, functions, diagnosis and investigations	 Describe in detail the pathological findings Explain the lab investigations required for diagnose 	C2 C2	MCQs

Skill Lab

Topic	Contents Outlines (Major Topics & Sub- Topics)	Learning objectives At the end of session student will be able to:	Learning Domain	Assessment tool
Thyroiditis, Multinodular goiter	Classify and identify various types of thyroiditis & Multinodular goiter	 Classify different types of thyroiditis Identify gross features and microscopic features such as Massive lymphoplasmacytic infiltration with lymphoid follicles formation and large active germinal center in Hashimoto's thyroiditis Explain the gross features asymmetrically enlarged gland with Irregular nodules and microscopic features such as varied sized dilated follicles with hyperplastic epithelium in multinodular ceitagened graye's disease. 	C1 C2	OSPE/OSCE
		 goiter and grave's disease Identify microscopic features such as closely packed small follicles lined by cuboidal epithelium, within a fibrous capsule in follicular adenoma Identify gross and microscopic features as complex, branching, randomly oriented papillae with fibrovascular cores and specific nuclear features in papillary carcinoma of thyroid 	C2	

Chronic pancreatitis & pancreatic carcinoma	Pancreatic pathologies and differences between them	 Identify and explain the gross and microscopic features of chronic pancreatitis Differentiate between normal pancreas and pancreatic adenocarcinoma /pancreatic carcinoma. Differentiate between pancreatic carcinoma and chronic pancreatitis 	C2 C3 C3	OSPE/OSCE
Parathyroid adenoma/carcinoma	Pathogenesis of parathyroid adenoma	 Identify and explain the gross and microscopic features of pituitary adenoma Identify and explain the gross and microscopic features of 	C2	OSPE/OSCE
		parathyroid adenoma and how to differentiate it from carcinoma	C3	

Self-Directed Learning (SDL)

SR. NO.	ТОРІС	LEARNING OUTCOMES At the end of session students will be able to:	REFERENCE
01	contributions of the endocrine system to homeostasis	Describes the effects of endocrine system on homeostasis.	Robin Basic Pathology 10 th Edition Chapter Endocrine System Page: 749
02	Summarize the site of production, regulation, thyroid gland	Discuss steps of production and regulation of Thyroid hormone	Robin Basic Pathology 10 th Edition Chapter Endocrine System Page: 755 – 756
03	Investigations of a case of goiter	Know basic laboratory investigations of a case of Goiter	Robin Basic Pathology 10 th Edition Chapter Endocrine System Page: 762 – 763
04	Investigations of Diabetes Mellitus	Know basic laboratory investigations of a case of Diabetes Mellitus	Robin Basic Pathology 10 th Edition Chapter Endocrine System Page: 772

Staff / Human Resource Distribution of Department of Pathology

Sr.no.	Designation	Total number of teaching staff
1	Professor	01
2	Associate professor	02
3	Assistant professor	04
4	Demonstrators	12

Detail of Contact hours (faculty) & contact hours (students)

Sr. no.	Hours Calculation for Various Type of Teaching Strategies	Total Hours (Faculty)	Total Hours (Students)	Faculty level
1	LGIS (5). 1hrs each session (half class sessions)	2 x 5= 10 hrs.	5	Professor, associate, and assistant professors
2	SGD (5) approx. 1hrs each session. 1/4 th class	2 x 5= 10hrs.	5	Assistant professors
3	CBL (2) approx. 1hrs per session. (4 small group sessions. 1session per day)	$2 \times 4 = 8 \text{hrs.}$	2	Demonstrator (subject specialists) supervised by professional faculties
4	SDL (4)	$1 \times 4 = 4 \text{ hrs.}$	4	Demonstrators (subject specialists)
		Total: 32hrs	16 hrs	

Categorization of Modular Content of Pathology Department

Category A*	Category B**			Category C***	
LGIS	LGIS		SGDs	SDL	CBL
Hypothyroidism and Thyroid Tumors	Adrenal Gland/ Hypoadrenalism		Disorders of Post-Pituitary Hormones	contributions of the endocrine system to homeostasis.	1
Hyperthyroidism	Hypoadrenalism adrenal tumors	and	Disorders of Adrenal medulla & MEN Syndrome	Summarize the site of production, regulation, thyroid gland	Pineal gland
Diabetics mellitus			Parathyroid disorders	Investigations of a case of goiter	
			Parathyroid Adenoma /carcinoma	Investigations of Diabetes Mellitus	
			Pancreatic tumors and neuroendocrine disorders		

Category A*: Fundamental & Complex Concepts taken by Professors, Assc Prof and Assistant Professors

Category B**: Intermediate concepts. Exercises. By Professorial faculty and Senior Demonstrators/ subject specialists.

Category C***: Relatively lower complex concepts, exercises/ applications. By Assistant professors, Demonstrators)

Pathology Faculty Wise Lecture Allocation

Sr. No.	Faculty Nominated	Designation	No Of Lectures
1.	Prof Mobina Ahsan Dodhy	Chairperson	04
	·	Professor of Pathology	
2.	Dr. Fatima tuz Zahra	Assistant Professor	05
3.	Dr. Rabiya Khalid	Assistant Professor	05
4.	Dr. Kiran Fatima	Assistant Professor	04
5.	Dr. Sarah Rafi	Demonstrator	03
6.	Dr. Amina Noor	Demonstrator	01
7.	Dr. Mehreen Fatima	Sr. Demonstrator	03
8.	Dr. Mudassira Zahid	Associate Professor	04
9.	Dr. Unaiza Aslam	Demonstrator	01
10.	Dr. Nida Fatima	Demonstrator	01
11.	Dr. Abid Hassan	APMO	01
12.	Dr. Faiza Zafar	Sr. Demonstrator	01
13.	Dr. Syeda Aisha	Demonstrator	01
14.	Dr. Syed Iqbal Haider	Sr. Demonstrator	01

COMMUNITY MEDICINE

Large Group Interactive Session (LGIS)

Topic	Contents Outlines (Major Topics & Sub-Topics)	Learning objectives After the Session Students Will Be Able To:	Learning domain	Assessment tool
Non-Communicable Disease introduction (Hypertension ,CHD)	 Epidemiology of Hypertension, CHD Prevention of hypertension, CHD Classification Rules of halves 	 Explain criteria of Chronic Non-Communicable diseases. (NCDs) Appraise the burden of NCDs in inter- & national context. Describe list of major NCDs of the region. Describe common Risk Factors of NCDs. Explain gaps in knowledge in natural history of NCDs & General preventive approaches Explain epidemiology, prevention & control strategies for cardiovascular diseases (CHDs) Explain epidemiology, prevention & control strategies for Hypertension Explain rules of halves & tracking of Blood Pressure strategy (hypertension) 	C2 C2 C2 C2 C2 C3 C3	MCQs, SEQs, OSPE, Viva
Non-Communicable Disease (Diabetes, obesity)	 Epidemiology of diabetes & obesity Prevention & control of diabetes & obesity Classification of diabetes & obesity & Assessment of Body mass index 	 Describe the risk factors and their importance in causation of diabetes & obesity Apprehend the burden of diabetes & in Pakistan Classify diabetes & obesity Define & Measure obesity via different methods of obesity assessment Calculate body mass index and interpret the results Recommend approaches to prevention and control of diabetes and obesity in community 	C2 C2 C2 C2 C3 C3	MCQs, SEQs, OSPE, Viva
Non-Communicable Diseases (Cancer)	 Epidemiology of cancers Prevention & control of cancers Warning signs of cancer 	 Differentiate categories of cancers Identify epidemiology of cancers recommend the approaches for prevention of cancers in the community 	C2 C2 C3	MCQs, SEQs, OSPE Viva
Health care delivery system	Objectives, components & models of Health care system	 Define health system Enlist health system models Comprehend components of healthcare delivery system Illustrate the functions and objectives of health system 	C1 C1 C3 C2	MCQs, SEQs, OSPE Viva

Health care delivery system of Pakistan	Levels and functions of healthcare system Tiers & functions of healthcare system of Pakistan	Describe the levels of health care system Elaborate the healthcare services available at all levels of healthcare system Describe the tiers of health care system of Pakistan Discuss the functions of healthcare system of Pakistan	C2 C2 C3 C2	MCQs, SEQs, OSPE Viva
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Small Group Discussion (SGDs)

Topic	Contents Outlines (Major Topics & Sub- Topics)	Learning objectives At the end of session student will be able to:	Learning domain	Assessment tool
Health programs of Pakistan	 Malaria control program TB control program AIDS control program Hepatitis control program National program of family planning 	 Explain program and National Health programs. Enlist & elaborate important national health programs Discuss the key points regarding National Program for family planning and primary healthcare, EPI, AIDs Control program, Hepatitis control 	C2 C2 C3	MCQs, SEQs, OSPE and Viva Voce

Self-Directed Learning (SDL)

#	Topics	Learning objectives.	Learning resource
		Students will be able to	
1	Epidemiology of Stroke	• Describe problem statement of stroke.	K Park Ed. 27 th (pg. 377-78)
		• Risk factors of stroke	
		Strategies for stroke control in population	
2	Epidemiology of Rheumatic Heart	• Describe problem statement of RHDs.	K Park Ed. 27 th (pg. 378-81)
	disease (RHDs)	• Epidemiological factors of RHDs.	
		WHO criteria for diagnosis of RHDs	
		 Approaches for Pr(Even)tion of RHDs in population 	
3	Adolescent health	 Discuss normal adolescent development, its impact on health 	K Park Ed. 27 th (pg. 670-73)
		 Counselling of adolescents with specific conditions 	
		 Identification of normal growth and pubertal development 	
		 Manage common health &mental health conditions, 	
		nutritionrelated disorders	
		 Identify signs of substance use and substance use disorders 	

Peer Assisted Learning (PAL) IUGRC

Indictors of accomplishment Prior readings / assigned work	Learning objectives/ competencies	Learning outcomes By the end of lecture student will be able to:	Assessment strategy
Endo session 1 Preparing students for students Report writing and oral presentation	 Interpret & apply basic principles of manuscript writing of research report Perceive authorships requirements or rules of drafting manuscript of a research report for publication in indexed journal Write discussion section of draft Report research as oral presentation and poster presentation according to standard guidelines Finalization of preparation of PowerPoint presentation for final research day practice basic communication skills 	At the end of session students should be able to; -explain principles of research manuscript writing for publication -write report for oral presentation - reporting on poster - explain rules of discussion on results of study - clarify types of citations included in discussion section - explain conclusion, recommendation and acknowledge part of research report.	1. MCQ in each block exam 2.Viva exam at the end of the session
Edo session 2 Research presentations			

Staff / Human Resource of Department of Community Medicine

Sr.no.	Designation	Total number of teaching staff
1	Professor	01
2	Associate professor	02
3	Assistant professor	04
4	demonstrators	04
5	PGTs	07

Categorization of The Content of Community Medicine

Category A*	Catego	ory B**	Category C***	
LGIS	LGIS	SDGS	SDL	IUGRC SESSIONS (PAL)
Fundamental concepts of epidemiology, prevention & control of non-communicable diseases (NCDs), risk factors of hypertension, CHD, Stroke	Health systems	Health programs in Pakistan	Epidemiology of Stroke	Manuscript writing
Fundamental concepts of epidemiology, prevention & control of noncommunicable diseases (NCDs) diabetes	Health care delivery system of Pakistan		Epidemiology of Rheumatic Heart disease (RHDs)	Defense of research (presentations)
Fundamental concepts of epidemiology, prevention & control of noncommunicable diseases (NCDs) Cancers			Adolescent health	

Category A*: Fundamental & Complex Concepts taken by Professors, Associate Professors and Assistant Professors; Category B**: Intermediate concepts. Exercises. By Professorial faculty and Senior Demonstrators/ subject specialists.

Category C***: Relatively lower complex concepts, exercises/ applications. By Assistant professors, Demonstrators & senior PGTs)

Community medicine Faculty Wise Lectures Allocation

Sr no	Faculty nominated	No of lectures
1.	Prof Dr Rozina Shahadat Khan	02
2.	(Assc Prof) Dr. Khola Noreen	02
3.	(Assc Prof) Dr. Sana Bilal	01
4.	(Asst Prof) Dr. Afifa kulsoom	02
5.	(Asst Prof) Dr Mehwish Riaz	02
6.	(Asst Prof)Dr. Farah Pervaiz	01
7.	(APMO) Dr. Imrana Saeed	02
8.	(APMO) Dr Narjis Zaidi	02
9.	(Sr Demo) Dr. Mehjabeen Qureshi	02
10.	(Sr Demo) Dr. Asif Maqsood	01

Detail of Contact Hours community medicine (Faculty & Students)

Sr. no.	Hours Calculation for Various Type of Teaching Strategies	Total Hours (Faculty)	Total Hours (Students)	Faculty level
1	LGIS (6). 1hrs each session (half class sessions)	2 x 6= 12 hrs.	6	Professor, associate, and assistant professors
2	SGD (1) approx. 2hrs each session. 1/2class	1 x 2= 2 hrs.	1	Demos (subject specialists), Senior PGTs
3	PAL (IUGRC) (2) approx. 2hrs per session. (16 small groups)	2 x 16 =32hrs.	4	Demos (subject specialists) supervised by senior faculties
4	SDL (3)	$3 \times 1 = 3 \text{ hrs.}$	3	Demos (subject specialists)
		Total: 49 hrs	14hrs	

PHARMACOLOGY

Large Group Interactive Session (LGIS)

Торіс	Contents Outline & Sub- Topics)	Learning Objectives	Learning Domain	Assessment Tool
Anti-thyroid Drugs I	Thyroid preparations	 Describe different Thyroid Preparations Describe the drugs that block each step of thyroid hormone synthesis Classify Anti-thyroid Drugs 	C1 C2 C2	MCQ/SEQ
Anti-thyroid Drugs II	 Mechanism of action Adverse effects Use of beta blockers in hypothyroidism 	 Describe the mechanism of action & adverse effects of the groups of anti-thyroid drugs Explain the use of Beta Blockers in the treatment of Hyperthyroidism Enumerate the uses of Anti-thyroid Drugs Explain the rationale for use of different drugs in thyroid storm 	C2 C2 C2 C2	MCQ/SEQ
Drugs that Affect Bone Mineral Homeostasis I	 Principal hormonal Regulators Pharmacokinetics and pharmacodynamics of vitamin d 	 Enumerate principal hormonal regulators of bone mineral homeostasis Explain pharmacokinetics and pharmacodynamics of Vitamin D Enumerate non hormonal agents affecting bone mineral homeostasis 	C2 C2 C2	MCQ/SEQ
Drugs Used in Diabetes I	 Oral hypoglycemic Sulfonylureas Meglitinides 	 Classify Oral Hypoglycemic Describe the mechanism of action of Sulfonylureas Compare first- and second-generation Sulfonylureas Describe adverse effects of sulfonylureas Describe the mechanism of action of Meglitinides Compare Sulfonylureas & Meglitinides 	C2 C2 C2 C2 C2 C2 C2 C2	MCQ/SEQ

Drugs used in diabetes	Biguanides Alpha-glucosidase inhibitors Thiazolidinediones Amylin analogs	 Discuss the mechanism of action & adverse effects of Biguanides Differentiate between Sulfonylureas and Biguanides Discuss the mechanism of action & adverse effects of Alpha-Glucosidase Inhibitors Discuss the mechanism of action & adverse effects of Thiazolidinedione Describe the mechanism of action & adverse effects of Amylin analogs Describe the mechanism of action & adverse effects of GLP-1 analogs and Gliptins Discuss uses of Oral Anti-diabetics 	C2 C2 C2 C2 C2 C2 C2 C2 C3	MCQ/SEQ
Drugs used in diabetes III	• Insulin	 Classify Insulins Compare animal & human insulins Discuss the kinetics of different insulins with clinical significance Describe the uses & adverse effects of Insulins Describe insulin resistance 	C1 C2	MCQ/SEQ
Corticosteroid I	Classification Mechanism of action	Classify corticosteroids Describe the mechanism of action of	C1	MCQ/SEQ
Corticosteroid II	•	 Corticosteroids Describe the actions of glucocorticoids Describe the Uses of Corticosteroids 	C2	
Corticosteroid III	Uses Adverse effects Contraindications	 Describe the adverse effects of Corticosteroids Justify the tapering off of corticosteroids Describe the contraindications of corticosteroids 	C2 C3 C2	MCQ/SEQ

Small Group Discussion (SGD)

Торіс	Learning objectives At the end of sessions, students will be able to:	Learning domain	Assessment
Mineralocorticoid Antagonist	 Enumerate mineralocorticoid antagonists Describe the mechanism of action of mineralocorticoid antagonists 	C2 C2	MCQ
Glucocorticoid Antagonists	 Enumerate glucocorticoid antagonists Describe the mechanism of action of glucocorticoid antagonists 	C2 C2	MCQ

Case Based Learning (CBL)

Topic	Learning objectives At the end of the session students will be able to:	Learning Domain	Assessment tool
Hypothyroidism	Describe different Thyroid Preparations Dose adjustment in different scenarios	C2 C3	PBQ / Scenario Based Questions
Corticosteroid	 Classify corticosteroids Describe the mechanism of action of corticosteroids Describe the actions of glucocorticoids Describe the Uses of Corticosteroids Describe the adverse effects of Corticosteroids Justify the tapering off of corticosteroids Identify the contraindications of corticosteroids 	C2 C2 C2 C2 C2 C3	PBQ / Scenario Based Questions
Diabetes mellitus	 Classify the drugs used in the management of DM Identify the drug group preferred in the given case 	C2 C3	PBQ / Scenario Based Questions

Skill Lab

Code	Торіс	Learning objectives At the end of session student will be able to:	Learning domain	Assessment tool
Practical	P-Drug & Prescription writing	P -Drug and prescription writing on Diabetes Mellitus type II Graves' Disease Adrenal Insufficiency	C2	OSPE

Self-Directed Learning (SDL)

TOPIC	LEARNING OUTCOMES At the end of session students will be able to:	REFERENCE
Post Covid incidence of thyroid diseases and their pharmacological treatment	 define hypothyroidism Correlate lab results of thyroid function tests and patient's symptoms Discuss pathophysiology of thyroid disease in association with Covid Discuss the role of drugs used for hypothyroidism in post Covid patients 	Thyroid and COVID-19: a review on pathophysiological, clinical and organizational aspects https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7992516/#:~:text=Thyroid%20and%20COVID%2D19%3A%20a%20review%20on%20pathophysiological%2C%20clinical%20and%20organizational%20aspects The Association Between COVID-19 and Thyroxine Levels: A Meta-Analysishttps://www.frontiersin.org/articles/779692
Bisphosphonates and bone mineral diseases	 Classify drugs used for bone mineral diseases Describe mechanism of action and uses of bisphosphonates Describe adverse effects of bisphosphonates 	The Effect of Bisphosphonates on Fracture Healing Time and Changes in Bone Mass Density: METAAnalysishttps://www.frontiersin.org/articles/10.3389/fendo.2021. 688269/full#:~:text=10.3389/fendo.2021.688269-,The%20Effect%20of %20Bisphosphonates%20on%20Fracture%20Healing%20Time%20and %20Changes%20in

Nuclear receptors coactivators	Enumerate the drugs acting through steroid receptor activation	Nuclear Integration of Glucocorticoid Receptor and Nuclear Factor-κB Signaling by CREB-binding Protein and Steroid Receptor Coactivator-1* https://www.jbc.org/article/S0021-9258(19)59316-4/fulltext#:~:text=Nuclear%20Integration%20of%20Glucocorticoid%20 Receptor%20and%20Nuclear%20Factor%2D%CE%BAB%20Signaling %20by%20CREB%2Dbinding%20Protein%20and%20Steroid%20Receptor%20Coactivator%2D1*
DPP-4 INHIBITORS AND PANCREATIC CARCINOMA	Risk of dipeptidyl peptidase-4 (DPP-4) inhibitors on sitespecific cancer: A systematic review and meta-analysis https://onlinelibrary.wiley.com/doi/abs/10.1002/dmrr.3004	Dipeptidyl Peptidase-4 Inhibitor—Associated Pancreatic Carcinoma https://journals.sagepub.com/doi/abs/10.1177/1060028015610123?jou rnalCode=aopd#:~:text=Dipeptidyl%20Peptidase%2D4%20Inhibito r%E2%80%93Associated%20Pancreatic%20Carcinoma

Human Resource Distribution of Department of Pharmacology

Sr.no.	Designation	Total number of teaching staff
1	Professor	00
2	Associate professor	00
3	Assistant professor	02
4	Demonstrators	07
5	PGTs	0

Detail of Contact hours (faculty) & contact hours (students)

Sr. no.	Hours Calculation for Various Type of Teaching Strategies	Total Hours (Faculty)	Total Hours (Students)	Faculty level
1	LGIS (08). 1hrs each session (half class sessions)	2 x 08= 16 hrs. Facilitator x hours	8	Professor, associate, and assistant professors
2	SGD/ (2) approx. 1hrs each session. 1/4 th class	9 x 2= 18 hrs. Facilitator x hours	2	Demos (subject specialists), Senior PGTs
3	Practical (1) approx. 2hrs per session	$2 \times 9 = 18 \text{ hrs.}$ Facilitator x hours	2	Demos (subject specialists) supervised by professional faculties
4	CBL (3)	9 x 3 =27hrs. Facilitator x hours	3	Demos (subject specialists)
		Total: 79	15 hrs	

Categorization of Modular Content of Pharmacology Department

Category A*	Category B**	Category C***		
LGIS	Practical	SDGS/CBLS	SDL	
Anti-thyroid Drugs I Anti-thyroid Drugs II Drugs that Affect Bone Mineral Homeostasis I Drugs Used in Diabetes I Drugs used in diabetes II Drugs used in diabetes III Corticosteroid I	P -Drug and prescription writing on Diabetes Mellitus type II Graves' Disease Adrenal Insufficiency	Mineralocorticoid Antagonist Glucocorticoid Antagonists Hypothyroidism Corticosteroid Diabetes mellitus	Post Covid incidence of thyroid diseases and their pharmacological treatment Bisphosphonates and bone mineral diseases Nuclear receptors coactivators DPP-4 Inhibitors And Pancreatic Carcinoma	

Category A*: Fundamental & Complex Concepts taken by Professors, Associate Professors and Assistant Professors Category B**: Intermediate concepts. Exercises. By Professorial faculty and Senior Demonstrators/ subject specialists. Category C***: Relatively lower complex concepts, exercises/ applications. By Assistant professors, Demonstrators)

Pharmacology department Lecture Distribution

Sr No.	Faculty Nominated	No of Lectures
1	Associate Professor	00
2	Assistant Professor Dr Zunera	09
3	Assistant Professor Dr Attiya	08
4	Demo Dr Zaheer	06
5	Demo Dr Ayesha	06
6	Demo Dr Arsheen	07
7	Demo Dr Zoefishan	06
8	Demo Dr Mamuna	06
9	Demo Dr Uzma	09
10.	Dema Dr Saba	06

Vertically Integrated Clinical Subjects

Learning Objectives of Surgery (LGIS)

Topic of The Session	Contents Outlines (Major Topics & SubTopics)	Learning Objectives At the end of session student will be able to:	Learning Domain	Assessment tools
Surgical intervention of parathyroid gland	Surgical anatomy of parathyroid gland, managing patient with parathyroid pathology	 Discuss the surgical anatomy of parathyroid gland Enlist diseases treatable with surgery Discuss briefly parathyroid adenoma, hyperplasia and carcinoma Outline pre-operative work up for parathyroid gland 	C2 C1 C2	MCQ/SEQ
Surgical intervention of pancreatic tumor	Surgical diseases of pancreas and their management	 Approach towards a patient with parathyroid pathology. Discuss the surgical anatomy of pancreas Explain the prevention of pancreatic tumors Enlist the surgical diseases of pancreas Approach towards a patient with suspected SOL in pancreas Do pre-operative preparation of patient with SOL Elaborate the protocol for surgery of distal pancreas 	C2 C2 C2 C1 C3 C2 C3	MCQ/SEQ
Surgical intervention of adrenal gland	Surgical anatomy and surgical intervention of adrenal gland	 Discuss the surgical anatomy of adrenal gland Approach adrenal towards a patient with incidental SOL in gland Describe pheochromocytoma Illustrate pre-operative workup for pheochromocytoma Prepare a patient for pheochromocytoma Discuss Surgical procedure for pheochromocytoma including minimally invasive surgery 	C2 C2 C2 C2 C3 C2	MCQ/SEQ
Surgical intervention of Thyroid gland	Surgical anatomy of thyroid, diseases of thyroid and their management	 Briefly describe anatomy of the thyroid gland and vascular supply Enlist important clinical signs and symptoms of different benign and malignant diseases of thyroid Approach towards a patient with thyroid pathology. Outline pre-operative work up for thyroid gland Managing patient with thyroid pathology Enlist the surgical procedure of thyroid 	C2 C2 C2	MCQs/SEQs
			C3 C3 C2	

Learning Objectives of Medicine (LGIS)

Topic Of The Session	Opic Of The Session (Major Topics & SubTopics) Contents Outlines (Major Topics & SubTopics) Learning Objectives At the end of session student will be able to:		Learning Domain	Assessment tools
Acromegaly	Clinical features & investigations of acromegaly along with its management	 Identify clinical presentation and physical findings in acromegaly. Describe laboratory workup of acromegaly. Explain various therapeutic options in management of acromegaly Recall clinical conditions associated with acromegaly. 	C2 C2 C2 C2	MCQ/SEQ
Diabetes Insipidus	Clinical features & management of diabetes insipidus	 Explain the clinical presentation and physical findings in DI. Differentiate between central DI and nephrogenic DI and describe etiology of both types. Describe importance of water deprivation test in diagnosis and differentiation between both types of DI Discuss various treatment options available for management of diabetes insipidus. 	C2 C3 C2 C2 C2	MCQ/SEQ
Hypothyroidism	Causes, C/F, investigations, treatment & complications of hypothyroidism	 Define hypothyroidism Discuss Causes of hypothyroidism Discuss clinical features (especially congenital hypothyroidism) Discuss lab investigations and their interpretation. Treatment and plan of management Discuss Complications and counseling aspects 	C1 C2 C2 C3 C2 C3	MCQ/SEQ
Hyperthyroidism Thyroid Disorder	Thyroiditis & Grave's disease Comparison of hyper and hypothyroidism	 Compare and differentiate between hyperthyroidism and hypothyroidism Explain thyroiditis and graves' disease. Enlist various types of thyroid disorders. Differentiate between clinical features of hyperthyroidism and hyperthyroidism. 	C3 C2 C1	MCQ/SEQ MCQ/SEQ
Diabetes and Hypoglycemia	n e e e e e e e e e e e e e e e e e e e	 Enlist types of diabetes mellitus. Diagnose diabetes mellitus. Develop management plan for diabetes mellitus, including both pharmacological and nonpharmacological therapies. Identify clinical features of hypoglycemia and discuss management plan 	C2 C3 C3	MCQ/SEQ

Diabetes Mellitus/DKA	C/F of diabetic ketoacidosis and its diagnosis Managing complication of DM	 Define Diabetes ketoacidosis Discuss its clinical features Plan relevant investigations Diagnose and manage complications of diabetes mellitus. (DKA, HONK) Discuss treatment and management plan. Outline DKA and its management Counsel the parents. Do follow-up 	C1 C2 C3 C3 C2 C2 C2 C2 C3 C3	MCQ/SEQ
Cushing's Syndrome and Addison's Disease	C/F, diagnosis, causes and management of Cushing's Syndrome and Addison's Disease	 Identify clinical presentation of Cushing's disease and describe diagnostic workup and management plan of Cushing's syndrome. Differentiate between Cushing's disease and syndrome. Enlist various causes of Cushing's syndrome Identify causes and clinical features of Addison's disease Differentiate between primary and secondary Addison's disease 	C2 C1 C2 C2	MCQ/SEQ
Hyperaldosteronism	C/F, diagnosis, causes and management of Hyperaldosteronism	Identify clinical presentation of Hyperaldosteronism and describe diagnostic workup and management	C2 C1 C2 C2	MCQ/SEQ

Learning Objectives of Obstetrics and Gynecology (LGIS)

Topic Of The Session	Contents Outlines (Major Topics & Sub-Topics)	Learning Objectives After The Session Students Will Be Able To:	Learning Domain	Assessment tools
Thyroid in pregnancy	C/F of thyroid disorders in pregnancy & management	 Enlist thyroid disorders during pregnancy Illustrate clinical presentation of thyroid disorders in pregnancy Discuss feto-maternal effects of thyroid disorder Discuss the management of these disorders 	C1 C2 C2 C3	MCQ/SAQ
DM in pregnancy	Diagnosing gestational diabetes & its management	 Define different types of diabetes during pregnancy Discuss screening for diagnosis of gestational diabetes Elaborate management of diabetes 	C1 C2 C2	MCQ/SAQ

Complications of Diabetes & Gestational diabetes	Pathophysiology diagnosis and complications of gestational diabetes	 Describe in detail the complications, pathological findings and organ involvement in diabetes and gestational diabetes Explain the lab investigations required to diagnose diabetes 	C2 C2	MCQ/SEQ
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Learning Objectives of Pediatrics (LGIS)

Topic Of The Session	Contents Outlines (Major Topics & Sub-Topics)	Learning Objectives (At the end of session students will be able to)	Learning Domain	Assessment tools
Diabetes Mellitus	Diabetes mellitus and its complications	 Explain pathophysiology and clinical presentation of Diabetes Mellitus Plan relevant investigations Recognize complications of diabetes mellitus Manage disease and its complications Counsel the parents and patient 	C2 C3 C2 C3 C3	MCQ/SAQ
Hypothyroidism	Hypothyroidism and its clinical presentation	 Enlist causes Discuss clinical presentation at various ages Plan, interpret Investigations and take appropriate action Treat and counsel the parents Do follow-up 	C1 C2 C3 C3 C3	MCQ/SAQ

Learning Objectives of Bioethics (LGIS)

Broad	Major syllabus with sub- topics	Learning objectives	Learning domain	Assessment tools	Suggested reading	sources
topic					G	

Informed	Discussion will cover; Prerequisites of inform consent in different situations	At the end of the session students should be able to; • Recognize the importance of obtaining valid consent from a patient for investigations and treatment • Analyze how to proceed • Elucidate how to proceed if a patient is incompetent to give consent • Reflect when it is justifiable to refrain from obtaining patient consent • Formulate the decision about giving relevant information to a patient or family by a medical student/doctor • Critically appraise the Inappropriate and • Appropriate Informed Consent Form	C2	1-2MCQs of level C1 to C3 will cover this session teachings	http://nbcpakistan.o rg.pk/assets/may16bioethicsfacilitator- book may-16%2c- 2017.pdf (page 74)
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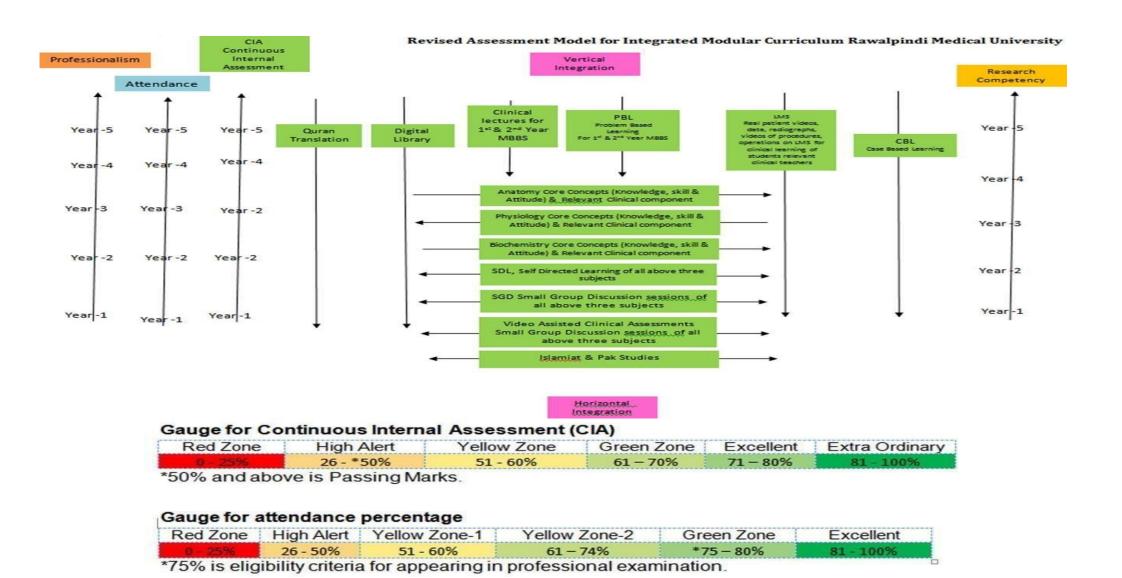
Learning Objectives of Family Medicine (LGIS)

Broad topic	Major syllabus with subtopics	Learning objectives	Learning domain	Assessment tools
Core concepts of family medicine in (Noncommunicable diseases)	Discussion will cover; Diabetes mellitus and obesity its psychological impacts on families	 At the end of the session students should be able to; Explain the management strategies of a diabetic patient in general practice including the psychosocial impact of disease on patient and their families Describe the strategies for pr(Even)tion of diabetes mellitus and its complications Identify the red-flags in a diabetic patient and appropriately refer to specialty care when required Describe the aetiology, risk factors and complications of obesity Explain the role of diet, exercise and antiobesity drugs in the management of obesity and its complications Identify the red-flags in an obese patient and appropriately refer to specialty care when required Explain the psychosocial impact of disease on patient and their families 	C3 C2 C2 C2 C2 C2 C3	MCQS

9- Assessment Policies:

CONTENTS:

- 1. Assessment Plan
- 2. Types of Assessment
- 3. Modular Examinations
- 4. Block examinations



University has followed the guidelines of Pakistan Medical and Dental Council for assessment. Assessment is conducted for SDL, SGD, mid modular, block/module levels.

Types of Assessment:

The assessment is formative and summative.

Formative Assessment: Formative assessment is taken from topics of SDL, SGD, LGIS (LMS).

Summative Assessment: Summative assessment is taken at the mid modular, modular/block levels.

Modular Examinations:

Theory Paper:

There is an examination at the end of module. The content of the whole teaching of the module are tested in this examination.

It consists of paper with objective type questions, extended matching question, short answer questions and structured essay questions. The distribution of the questions is based on the Table of Specifications of the module.

Viva Voce:

Structured table viva voce is conducted including the practical content of the module.

Block Examination

On completion of a block which consists of two modules, there is a block examination which consists of one theory paper, viva and video assisted & practical OSPE.

Theory Paper

There is one written paper for each subject. The paper consists of objective type questions, extended matching question, short answer questions and structured essay questions. The distribution of the questions is based on the Table of Specifications of the module.

Block OSPE: This covers the practical content of whole block.

Assessment plan

Types of Assessment:

- 1. Formative
- 2. summative

Formative Assessment

Formative assessment will be done at the end of module as reflective writing & multiple-choice questions through LMS. Assessment of clinical lectures will also be on LMS. Tool for this assessment will be one best choice question.

Summative Assessment:

Summative assessment will be taken weekly through LMS as well as at the end of module/ block and will be subject wise

Assessment Frequency & Time in Endocrinology Module

	Endocrinology Module	Type of Assessments	Т	T otal Assessment Time			
Sr#	Types of Assessments	Nature of assessment	Assessment Time	Summative Assessment Time	Formative Assessment Time	Formative	Summative
1	Weekly LMS based assessments (pathology 20, Community Medicine 20, pharmacology20) (60 MCQs)60 marks	summative	60 Minutes per wk.=3hrs	15 hours	1hr 30 Minutes	02	05
3	End Module Examinations	Summative	Detailed below				
	Breakup of EOM Assessment						
	i. Community medicine (5SEQs,5 SAQs, 1 EMQ & 25 MCQs) 100 marks	Summative	3 Hrs.				
	ii. Pathology 5SEQs,7 SAQs, 1 EMQ and 25 MCQs) 100 marks	Summative	3 Hrs.				
	iii. pharmacology 5SEQs,7 SAQs, 1 EMQ and 25 MCQs) 100 marks	Summative	3 Hrs.				
4	iv (video assisted OSPE) for each subject 10 stations(50 marks)	Summative	50 minutes				
	V. Ward test at the end of two weeks rotation in clinical subjects & End of clerkship C med		1 hr. 40 min				
5.	I. Reflective writing	formative	45+45=90 min				
	II. End Module LMS based MCQs (45 MCQs) 45 marks						

Table of specifications (TOS) End of week assessment of endocrinology module (LMS-MCQs)

S.	Discipline			Marks			
No		Assessment		C1	C2	C3	
			LMS 1				
1.	Community medicine	summative	20	4	5	11	20
2.	Pathology	Summative	20	4	5	11	20
3.	Pharmacology	summative	20	3	5	12	20
			LMS II				
4.	Medicine & Allied	formative	10	2	3	5	10
5.	Surgery & Allied	formative	10	2	3	5	10
6.	Bioethics, Research, AI Longitudinally running disciplines	formative	10	2	3	5	10
	Total		90	17	24	49	90

Type of Assessment -----Community Medicine

S. No	Mode of Assessment	Type of Assessment	Schedule of Assessment	Venue	Frequency
1.	End of wk. MCQ based Test	summative	Weekly	LMS	01 x no. of weeks
2.	Theory (MCQ+SEQ+ SAQs + EMQ)	Summative	End of module	On campus	01
3.	End of module AV OSPE	Summative	End of module	On campus	01
4.	End of clerkship Exam MCQs, OSCE	summative	end of clerkship batch	On campus	01 x 2 wks

Type of Assessment----- Pharmacology

S. No	Mode of Assessment	Type of	Schedule of Assessment	Venue	Frequency
		Assessment			
1.	End of wk. MCQ based Test	summative	Weekly	LMS	01 x no. of weeks
2.	Theory (MCQ+SEQ+ SAQs	Summative	End of module	On campus	01
	+ EMQ)				
3.	End of module AV OSPE	Summative	End of module	On campus	01
4.	End of Skill lab Exam, MCQs	summative	End of module	On campus	01
	1,1200				

Types of Assessment----- Pathology

S. No	Mode of Assessment	Type of Assessment	Schedule of	Venue	Remarks
			Assessment		

1.	End of wk. MCQ based test	summative	Weekly	LMS	01 x no. of weeks
2.	Theory (MCQ+SEQ+SAQs + EMQ)	Summative	End of module	On campus	01
3.	End of module AV OSPE	formative	End of module	O	01
4.	End of Skill lab Exam, MCQs,	summative		On campus	01

Table of Specification for end of block Assessment (TOS)

Block Name& Order	Modules Names & Numbers			Theory		Scheme of Integration Practical Assessment																
		Subject	25 MCQs (1 mark	5+1 SAQ +EMQ (5	5 SEQs (9marks each)	Sul	ore oject.)%	V In	ri- & erti- iteg. 0%	Int	oiral teg. 1%	Total marks Theory	marl SS				Total marks Practical	Total Block marks	End of block LMS MCQs			
			each)	marks each)									Mod	ule I	Modu	ıle 2	Observed	Unobserved	Video assisted			
Populi	Endocrinology	Community medicine	25	25+5	45	19	46	4	12	2	7	100						<u>-</u>	10 stations			
Population Medicine reproduction	i i	Pharmacology	25	25+5	45	19	46	4	12	2	7	100							10 stations			
edicin		Pathology	25	25+5	45	19	46	4	12	2	7	100							10 stations			
e &	Population Med & Reproduction	Community medicine	25	25+5	45	19	46	4	12	2	7	100	Viva marks	Book marks	Viva marks	Book marks	10 stations	10 stations	10 stations	200	400	30
	tion Med duction	Pharmacology	25	25+5	45	19	46	4	12	2	7	100	45 45	5	45	5	50	50	10	300	400	30
	_	Pathology	25	25+5	45	19	46	4	12	2	7	100	45	5	45	5	50	50	10	300	400	30

11- Timetable

Rawalpindi Medical University Rawalpindi Tentative Time Table 4thyear MBBS-Endocrinology Module 2025 (1stweek)

DATE / DAY	8:00 AM -	9:00 AM	09:00a	m – 10:00am	BRE	10:3	0am – 12:00pm	12:00pm - 02:00pm
Monday	LGIS		ETHICS (LG	IS)	Ak	CLINICA	L CLERKSHIP of commu	nity medicine attached as annexures at
9.6.25	Quran class		Informed cons		BREAK 10:00AM		the end o ity oriented clerkship and o	f document ther rotations will remain same. These
	Qari Abdul Wahid lec	hall 1	(odd) lec hall	1 (Even) lec hall 2	OAN		will be comple	ted at end of yr.
			Dr Affifa Kalsoom AP	Assoc Prof Dr Khola Noreen	10:30			
Tuesday	MEDICINE(LGIS)		COMMUNIT	Y MEDICINE	-			
10.6.25	Acromegaly			Non- Communicable, HTN, CHD				
	(odd) lec hall 1	(Even) lec hall 2	(odd) lec hall	1 (Even) lec hall 2				
	Dr Nida	Dr Shahzad Manzoor	Dr Imrana Saeed APMO	Assc Prof Dr. Sana Bilal				
Wednesday	PATHOLOGY (SGD))	MEDICINE (LGIS)				
11.6.25.	Posterior Pituitary Ho Disord	ormones and their	Diabe	tes Insipidus				
	(odd) lec hall 1,3	(Even) lec hall 2,6	(odd) lec hall	1 (Even) lec hall 2				
	DR Fatima Zahra, Dr Rabiya Khalid	Dr Sara, Dr Kiran Fatima	Dr Saima Ambreen	Dr Shahzad Manzoor				
Thursday	PATHOLOGY (LGI	S)	FAMILY M	EDICINE (LGIS)				
12.6.25	Hypothyroidism and T	hyroid Tumors		ts of FM in NCDs tes, Obesity)				
	(odd) lec hall 1	Lec hall 2		Combined class				
	Prof Mobeena	Dr Mudassira	Dr Saadia HO medicine dep	` .				
Friday	08:00AM -	09:45AM	1	09:45AM - 10:30	10:30AM - 11	:15AM	11:15AM - 12:00PM	
13.6.25.	PAL/ski			LOGY (LGIS)	PHARMACO (LGIS)	LOGY	MEDICINE (LGIS)	
	Community Medic IUGRC Session Multinodula	/ Thyroiditis,	Нуре	erthyroidism	Anti-thyroid classificat	Drugs	Thyroid Disorders 1 hypothyroidism	

	Batch A-H	Batch I-P	(odd) lec hall 4	` '		(odd) lec (Even)lec (hall 4 hall 5		(odd) lec hall 4 (Even)lec hall 5					
	All demonstrators& senior faculty	Dr Amina Noor	Dr. Rabiya Khalid	Dr. Fatima Zahra	Dr Attiya	Dr. Zunaira	Dr M	ojeeb I	Dr Nida				
Saturday SEMINAR	08:00AM - 09	:45AM	09:45.	AM – 10:30	10:30AM	– 11:15AM	BRE K	11:45A 12:30		12:30PN 01:15P	_	01:15PM	I – 02:00PM
THYROID	PAL/ skill lab Community Medicin	e / Pathology	PHARMAC	COLOGY (LGIS)	(LGIS)	EDIATRICS 11: 15	\$ 8	MEDICI	NE (LGIS)	Gynae	(LGIS)	Surg	ery (LGIS)
14.6.25.	IUGRC Session/ T Multinodular go		Action	rugs (Mechanism of erse Effects)	Hypothyroidism			thyroiditis of hyp	disease, comparison & hyper pidisim	Thyroid Pregnan		Surgical I thyroid Di	ntervention In sease
	Batch I-P	BatchA-H	(odd) lec hall	(Even) lec hall 5	(odd) lec hall 4	(Even) lec hall 5		(odd) lec hall 4	(Even) lec hall 5		(Even) lec hall 5	(odd) lec hall 4	(Even) lec hall 5
	All demonstrators	Dr. iqbal	Dr Attiya	Dr. Zunera	Dr Hina Sattar AP	Dr Huma Asghar SR		Dr Nida	Dr Mujeeb	Amna			Dr. Umer Qaiser

Rawalpindi Medical University Rawalpindi Tentative Time Table 4thyear Mbbs-Endocrinology Module 2025 (2ndweek)

DATE / DAY	8:00 AM –	9:00 AM	09:00am – 10:00am		BREAK	10:30am – 12:00pm	12:00pm - 02:00pm
Monday 16.6.25	PHARMACOL	LOGY (CBL)	COMMUNITY MEDICINE (LGIS)			CLINICAL CLERKSHIP of commu annexures at the end of document Comn	•
	Hyperthyroidism (Clinical	Non-Communicable diseases		10:00	other rotations will remain same. These v	vill be completed at end of yr.
	Pharmacolog	gy)	obesity, diabetes	3	0,2		
	lec hall 1 & 2	lec hall 6 &	(odd) lec hall 1	(Even) lec hall 2	Ž		
		Pharma lab					
	Dr Attiya	Dr Zunera			10:30		
	Dr Zoefeshan	Dr Saba	Dr. Narjis Zaidi	Dr Affifa	0		
	Dr Zaheer	Dr Memuna	APMO	KalsoomAP			
	Dr Uzma	Dr Arsheen	ZII WIO	Kaisoomi ti			
	Dr Ayesha						
Tuesday	PATHOLOGY (SGD)	PHARMACOL	OGY (LGIS)			
17.6.25.	Parathyroid	Disorders	Drugs that Af	fect Bone Mineral			
				neostasis			
	(odd) lec hall 1,3	(Even) lec	(odd) lec hall	(Even) lec hall 2			
		hall 2,toxi lab	` '	` ,			
	Dr Sara	Dr Kiran	Dr Attiya I	Or. Arsheen			
	Dr Mehreen Fatima	Fatima					
		Dr Mudassira					
		Zahid					

Wednesday	PATHOLOGY (SGD)		SURGERY	(LGIS)									
18.6.25	Pancreatic tu	imors	Surgical Inter	rvention of Parathyroid Gland									
	(odd) lec hall 1,3	(Even) lec hall 2,6	(odd) lec hal	(Even) lec hall 2									
	Prof. shabih Dr Kiran Fatima	Dr Rabiya Dr Fatima Zahra	Dr Zafar Iqbal	Dr. Umar Qaiser									
Thursday	PATHOLOGY (LGIS)	,	PHARM	MACOLOGY (LGIS)									
19.6.25.	Diabates Me	ellitus	Anti-Diabetio	c drugs (Classification)									
	(odd) lec hall 1	(Even) lec hall 2	(odd) lec hal	l (Even) lec hall 2									
	Prof Mobeena	Dr Mudassira	Dr Zunera	Dr. uzma									
Friday	08:00AM - 09	:45AM	09:	45AM - 10:30	10:30AN	M – 11:15AM	11:	15AM – 12	:00PM				
20.6.25.	SGD / Skill	lab	PHARMAC	OLOGY (LGIS)	MEDIC	CINE (LGIS)	PEI	DIATRICS	(LGIS)				
	Community Medicin Health programs/ Chron Pancreatic Car	nic Pancreatitis,	Anti-Diabetic	Drugs (Parenteral)		betes and oglycemia	Diab	etes Mellitu	ıs/DKA I				
	Batch A-H	I-P	(odd) lec hall 4	(Even) lec hall 5	(odd) lec hall 4	(Even) lec hall 5	(odd) lee	c hall 4 (E	Even) lec hall 5				
	Dr Asif , Dr Mehwish	Dr Nida	Dr Zunera	Dr. uzma	Dr Nida l	Dr. Mujeeb	Dr Hina S AP	Sattar Dr SR	. Sonia Fazal				
Saturday	08:00AM - 09	:45AM	09:	45AM - 10:30	10:30AN	M – 11:15AM	1::	11:45AM	-12:30PM	12:30PM	- 01:15PM	01:15PM	I – 02:00PM
SEMINAR DAY	SGD / Skill		PHARM	ACOLOGY (LGIS)	GYNAE	OBS (LGIS)	:BREAK 1:45 AM		INE(LGIS)	(LC	TRICS GIS)		(LGIS)
21.6.25.	Community Medicin Health programs/ Chron Pancreatic Car	nic Pancreatitis,	Oral	Hypoglycemics	Diabetes	in Pregnancy	_ ^	Diabet	es DKA I	manageme	Mellitus ent/DKA II		ation of EYE etes Mellitus
	А-Н	I-P	(odd) lec hall 4	(Even) lec hall 5	(odd) lec hall 4	(Even) lec	hall 5	(odd) lec hall 4	(Even) lec hall 5	(odd) lec hall 4	(Even) lec hall 5	(odd) lec hall	(Even) lec hall 5
	Dr Asif , Dr Mehwish	Dr Haider	Dr Zunera	Dr. Uzma	Dr. saima khan	Dr Ammarah		Dr Nida	Dr Mujeeb	Dr Huma Asghar SR	Dr. Maria Shamsher	•	Dr Misbah

Rawalpindi Medical University Rawalpindi Tentative Time Table 4thyear Mbbs-Endocrinology Module 2025 (3rdweek)

DATE / DAY	8:00 AM -	9:00 AM	09:00am – 10:0	00am	10:30am – 12:00pm	12:00pm - 02:00pm
	COMMUNITY (LGI		PHARMACOLOG	GY (CBL)	CLINICAL CLERKSHIP of comm	unity medicine attached as annexures at the end
Monday 23.6.25.	Epidemiology & Non Communic (Cance	able diseases	Drugs used in Diabet (Clinical Pharmacolo		Community oriented clerkship and	of document other rotations will remain same. These will be leted at end of yr.
	(odd) lec hall 1	(Even) lec hall 2		hall 6 & rmacy lab		

	Dr Imrana Saeed	Dr Narjis	Dr Asma Dr Zoefeshan Dr Zaheer Dr Uzma	Dr Zunera Dr Saba Dr Memuna Dr Arsheen Dr Ayesha	BREAK 10:00AM							
	PATHOLOGY (S	SGD)	SURGERY	(LGIS)	:00A							
	Pancreatic tumor	s	Surgical inte	ervention of	1 1							
Tuesday	lec hall 1,3	lec hall 2,toxi	Pancreatic T (odd) lec hal		10:30							
24.6.25.	·	lab	ì	hall 2	_							
24.0.23.	Prof. Mobina	Dr Mehreen Fatima Dr										
	Dr Sara	Mudasira		Dr Umar Qaiser								
	DATHOLOGY (Zahid	DATHOLOG									
	PATHOLOGY (C Complications		PATHOLOG	renal								
Wednesday	Melli			eradrenalism								
	lec hall 1,3	lec hall 2,6	(odd) lec hall	1 (Even) lec hall 2								
25.6.25.	DR Unaiza	Dr Aiysha,	Dr Rabiya	Dr.Fatimatu								
	Dr Muddasira	Dr Iqbal	Khalid	Zahra								
	MEDICINE (LG)	IS)	Surgery (LG	IS)								
	Hyperaldos	teronism		tervention of								
Thursday 26.6.25.	(odd) lec hall 1	(Even) lec hall		al Gland (Even) lec hall 2								
	Dr Nida			Or Umar Qaiser	-							
	08:00AM -	09:45AM		M – 10:30	10:	30AM – 1	1:15AM	11:15AM – 12:00PM				
Friday 27.6.25.	PAL/ ski			NE (LGIS)	PATHOL (LGIS	5)		ACOLOGY(LGIS)				
27.0.20.	Community Pharmac			Syndrome and n Disease	Hypoadrenal adrenal tu		Corticoste	roids (Classification)				
	IUGRC Sessio	n/P-Drug &										
	Prescription Batch A-H	n writing I-P	(odd) log ball 4	(Even) lec hall 5	(odd) log ball	(Evon)	(add) laa	(Even) lec hall 5	1			
	Бакп А-п	I-r	(odd) fec ffan 4	(Even) lec nan 5	4	lec hall 5		(Even) lec nan 5				
	All demonstrators	DI Zociesiian	Dr Saima Ambreen	Dr Mujeeb	Dr. Kiran Fatima	Dr. Mudasira Zahid		Dr Zunera				
	08:00AM -	09:45AM	09:45A	M – 10:30	10:30AM - 1	1:15AM	BR	11:45AM –	30PM –	0	1:15PM – 0	2:00PM
	PAL/ski COMMUNITY PHARMAC	MEDICINE /	PHARMACO	DLOGY (LGIS)	PHARMACO (CBL	DLOGY	EAK	12:30PM SURGERY (LGIS)	:15PM OLOGY	PHARM (SGD)	MACOLOG	Y
Saturday 28.6.25.	IUGRC Session/P- Prescription writin			s (Mechanism of dverse effects)	Corticoste (Clinic Pharmaco	al		Neuroendocrine Disorders	eal Gland hologies	Glucoco	orticoids Ant	agonist
	I-P	Batch A-H	(odd) lec hall 4	(Even) lec hall 5	lec hall 3 & 4	lec hall 5,6		(odd) lec hall 4	(odd) lec hall 3,4	(Even) lec hall 5.6	lec hall 3 & 4	lec hall 5 & 6

All demonstrators&	Di Attiya	,	Dr. Zunera	Dr Attiya Dr Zoefeshan Dr Zaheer Dr Uzma Dr Ayesha	Dr Zunera Dr Saba Dr Memuna Dr Arsheen		Dr. Rabia	Dr. Umar Qaiser	Mobina Dr	Dr Faire		
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Rawalpindi Medical University Rawalpindi Tentative Time Table 4thyear Mbbs-Endocrinology Module 202 (4^{rth}week)

DATE / DAY	8:00 AM	– 9:00 AM	09:00am	– 10:00am Y MEDICINE	표 [10:30a	ım – 12:00pm	12:00pm - 02:00pm
	PATHOLO	OGY (SGD)	COMMUNIT (LGIS)				res at the end of docume
		drenal medulla Syndrome	Health	systems	10:00AM		
Monday 30.6.25.	lec hall 1,3	lec hall 2,6	(odd) lec hall	(Even) lec hall	Y 10:		
	Dr Mudassira Zahid Dr Fatima Zahra	Dr Rabiya Khalid Dr Mehreen Fatima	Dr Imran Younis	Dr Khola Noreen		IICAL CLERKSHIP of community oriented clerkship and	annexu
			PHARMACO	LOGY (SGD)	at end	of yr.	
Tuesday	Healthcare del Pakistan	ivery system of	Mineralocortic	oid Antagonist			
1.7.25	(odd) lec hall	(odd) lec hall	lec hall 1 &2	lec hall 3, Toxi lab			
	Dr Imran Younis	Dr Mehwish Riaz	Dr Asma Dr Zoefeshan Dr Zaheer	Dr Zunera Dr Saba Dr Memuna			
			Dr Uzma ,drAyesha	Dr Arsheen			
Wednesday 2.7.25.	SDL/Pr	ep Leavo	e		_		

Thursday 3.7.25.	Module Exam Community Medicine
Friday 4.7.25.	Module Exam Pathology
Saturday 5.7.25.	Module Exam Pharmacology

NOTE; Venue for CBL & SGDs is subject to availably of lecture halls. Sometimes due to over lapping of activities, change of venue will be notified.

SCHEDULE OF IUGRC SESSION, 2024

Batch	Batch Incharge	Senior Faculty
A.	Dr Mehreen Noor	Dr Khola Noreen
В.	Dr Bushra Farooqi	Dr Sana Bilal
C.	Dr Maria Jabeen	Dr Afifa Kulsoom
D.	Dr Narjis Zaidi	Dr Mehwish Riaz
E.	Dr Asif Maqsood	Dr Asif Maqsood
F.	Dr Saba Maryum	Dr Farah Pervaiz
G.	Dr Imrana Saeed	Dr Sana Bilal
Н.	Dr Mehrish Saleem.	Dr Mehwish Riaz
I.	Dr Mehjabeen Qureshi	Dr Sana Bilal
J.	Dr Mehreen Noor	Dr Mehwish Riaz
K.	Dr Maria Jabeen	Dr Khola Noreen
L.	Dr Ayesha Zujaja	Dr Asif Maqsood
M.	Dr Zaira Azhar	Dr AbdulQudoos
N.	Dr Bushra Farooqi	Dr Farah Pervaiz
0.	Dr Saba Maryum	Dr Rizwana Shahid
P.	Dr Mehrish Saleem	Dr Afifa Kulsoom

Community Oriented Clerkship Module (annex I)

Theme (AIM):

The primary purpose of this module is to educate students in those areas of the subject of CM&PH which are learnt better by onsite presence of the students at certain sites, processes, agencies which have public health relevance and in general community setting. Moreover some, areas of the subject which demands close interactive teachings in small group like HHS data analysis & report writing skills, contraceptive use skills, vaccination skills, etc are also covered during this rotation. All opportunities available within and outside the institution within affordable logistics, time, are focused for this purpose. A short time of this batch rotation is dedicated for health education communication practices as Health awareness work and other social work.

LEARNING OUTCOMES (LOS):

At the end of this learning module students are expected to achieve following Public health Competencies as will be able to:

- 1. Undertake a population-based health survey (HHS)
- 2. Appreciate working of First level Care Facility (Public Sector)
- 3. Perform Community Immunization / EPI vaccinations.
- 4. Develop Hospital waste management plans.
- 5. Develop Community based health awareness message.
- 6. Communicate for Health awareness in community settings.
- 7. Commemorate International public health days.
- 8. Develop Hospital administration Plans.
- 9. Undertake Pr(Even)tive healthcare inquiries and NCDs Risk Factors Surveillance
- 10. Counsel for the contraceptive devices to the community

MODULE OUTLINE:

- A batch comprising 20-22 students is posted in the department of CM & PH for a period of 2weeks (Monday to Thursday-04 hrs. /day & for 32hrs in total). This schedule is run over the whole academic year, till all students of 4th year MBBS class passes through this rotation.
- Batch formation and schedules of rotation for whole class as notified by the DME / Student's section will be followed accordingly.
- At commencement of the academic year overall batch learning module coordinator, nomination of batch in-charges, senior faculty in charges and calendar schedule of batch rotation for all batches over the whole academic year will be notified by the Department of CM & PH.

Domains of learning: learning will occur in all the three domains C, A & P **SOPS OF**

LEARNING & ASSESSMENTS:

- Active participation will be graded by the batch in charge (under a check list) during the activity / session and grades/marks will be entered in the practical manual as out of 05 (Max marks 05) by the batch in charge. O5 Max Marks are reserved for CHC (HMDTD and Health awareness work.
- Assessment will be done by **OSPE / MCQs Exam / Viva voce** at the end of each module and credit will be objectively recorded for the purpose of internal assessment. (Max mark 10)
- General assessment of the subject learning will be through MCQs, SEQs & OSPE on the relevant subjects in the relevant end of modules, block exams and Send up Exams.
- Students are required to report / write the relevant work in Practical Journal, House Hold Survey Report Book and log all the clerkship activities in the Logbook on daily basis.

Da	Activity -I	Activity –	Activity III	Act-V	Sites of	Assessment	Session outcome (level of learning)
y	10.30 –	II 11.00-	11.30- 01.00pm	01.00 - 2.00pm	teaching-		
	11.00	11.30am			learning		

	Session topic	Session topic	Session topic	Session topic			
1st day	instructing / demonstrati on on Practical Manual based Assignment s	Visit to CHC SGIS on Health days commemor ation work, Display material, PPT.	• SGIS on HMDTD practicum. Topic finalization, CHC- Message draft outlines finalization.	 PPT based Demo on How to conduct & report HHS. Guidelines on PHI work to be done during clinical rotations / ward duties 	Demonstration on n / lec Hall 3 CHC - Dept. CM NTB RMU.	 1-2 OSPE in end of clerkship exam (credit will part of IA) Assessment of HHS -Report (Max marks:5 part practical /viva exam 4th Prof MBBS) 	 Construct a health message. (C6) Prepare Health days commemoration stuff, Display material, PPT, (P) Undertake a health survey. (HHS) (C3)
2 nd day	Follow up session on HM-DTD work - HHS work - health days commemorat ion work	SGIS/ Briefing / PPT based guidelines on field visit of the day (EPI services center HFH)	FV to the EPI center HFH	Health awareness work (HAW)	• Demo Room, • EPI Center HFH • OPD, hospital shelters sites for health awareness work (HAW)	1-2 OSPE in end of clerkship exam (credit will part of IA) Grade of performance in EPI visit reporting. Credit of HAW	Explain cold chain component at EPI center Vaccinate (EPI) vaccines to the clients. Comprehend EPI system
p p	Follow up session on HM- DTD work & HHS	SGIS / Briefing / PPT based guidelines on FV to MCH & FP Services Center HFH	FV to the MCH services & FP center HFH	Health awareness work (HAW)	HFH OPD, hospital shelters sites for HAW	of clerkship exam (credit will part of IA)	 Identify CP devices available at MHC FP center Counsel clients for use of a contraception method Place CP devices to client (P)

4 th day	HM- DTD FV work & HHS dis	nidelines on hose was waste dis sposal system in release	spital	Health awareness work (HAW)	•FP Center HFH OPD, hospital shelters sites for HAW	 End of module OSPE Grade of performance in visits to sites 	 Explain hospital waste disposal system Develop a hospital waste management plan Explains various domains of hospital management (C2) 				
5 th day week 2)	SGIS / PPT based briefing on Hospital management & administrati on	Visit to Hospital management administration office	&	Health awareness work (HAW	HHF	 End of module OSPE Grade of performance in visits to sites 					
6 th day	SGIS / PPT based briefing on visit to First level of health care facility (FLCF) BHU/RHC	Field visit to RHC Khayaban Sir-Syed (RHC) or BHU		• Demo room / lec Hall 3 NTB / CPC-Hall. • RHC / BHU	Health awareness work (HAW at site visited	 End of module OSPE Report credit in PJ 	 Explain working of FLCF Appreciate PHC elements at FLCF. (C2) 				
7 th day	Health days commemoration (walk/ seminar/ presentation/ CHC-message dissemination work (10.30 – 12.00pm)			Opm ompletion & assessn actical Journal work HS-report book, ogbook etc. edback discussion o	Σ,	 Communication skills Comprehend frequency Preventable RFs of NCDs in the real population (RF surveillance) Undertake a preventive Healthcare inquiry 					



RAWALPINDI MEDICAL UNIVERSITY, RAWALPINDI

CLINICAL TRAINING ROTATIONS 4TH YEAR MBBS CLASS (SESSION 2021-2022)

STARTING w.e.f 24-02-2025 ENDING 16-11-2025.

In Continuation of this letter No. T-9/1101/RMU, RWP Dated: 22-02-2025

Date	Nephrology- HFH- / Dermatology- BBH	Urology	Ortho-+ Trauma BBH	C.MED	E.N.T. H.F.H.	E.N.T B.B.H	E.N.T D.H.Q	РАТНО	EYE H.F.H	EYE B.B.H	EYE DHQ	PEADS H.F.H	PEADS B.B.H.	Psychiatry BBH	Family Medicine- HFH / Psychiatry -BBH	NEUROSUR GERY
24-02-25 To 09-03-25	A1 A2	В	C 1 C 2	D	E	F	G	н	1	J	К	L	М	N	01 02	P
10-03-25 to 23-03-25	B1 B2	С	D1 D2	E	F	G	н	I	J	К	L			O	P 1 P 2	Α
24-03-25 To 20-04-25 Spring Vacation	C1 C2	D	E1 E2	F	G	н	-	J	К	L	М	N	0	Р	A 1 A 2	В
21-04-25 To 11-05-25 student week	D1 D2	E	F1 F2	G	н	ı	J	к	L	M	N	P	0	А	B 1 B 2	С
12-04-25	E1	F	G1	Н	I	J	К	L	М	N	0		Α	В	C 1	D

То	E2		G2												C 2	
25-05-25																
26-05-25																
То	F1	G	H1	ı	J	К	L	M	N	О	P			С	D 1	E
08-06-25	F2		H2	-			_								D 2	_
09-06-25												В				
То																
13-07-25	G1	н	I1	J	К	L	M	N	О	P	Α			D	E 1	F
Summer	G2	"	12	,			IVI	IN.		, r					E 2	r
vacation																
													С			
14-07-25																
То	H1		J1								В				F 1	
27-07-25	H2	I	J2	K	L	M	N	0	Р	Α				E	F2	G
28-07-25												D				Н
То	I1		K1						A						G 1	
		J		L	M	N	0	P		В				F		
10-08-25	12		К2								С				G 2	
													E			
11-08-25	J1		L1		N						D				H 1	
То	J2	К	L2	M	"	0	Р	Α	В	С				G	H 2	1
24-08-25	JZ		LZ									F			П	
25-08-25	K1	,	M1	N.	0	-		-	_	-	E			11	11	•
То	К2	L	M2	N		P	Α	В	С	D			G	Н	I 2	J

07-09-25																
08-09-25 To 21-09-25	L1 L2	М	N1 N2	O	P	А	В	С	D	E	F	н		ı	G 1 G 2	К
22-09-25 To 05-10-25	M1 M2	N	01 02	P	A	В	С	D	E	F	G		ı	J	K 1 K 2	ι
06-10-25 To 19-10-25	N1 N2	o	P1 P2	A	В	С	D	E	F	G	Н	J		К	L1 L2	М
20-10-25 To 02-11-25	O1 O2	P	A1 A2	В	С	D	E	F	G	н	ı		К	L	M 1 M 2	N
03-11-25 To 16-11-25	P1 P2	A	B1 B2	С	D	E	F	G	н	1	J	ι		М	N 1 N 2	0
Date	Nephrology / Dermatology	Urology BBH	Ortho+ Trauma BBH	C.MED	E.N.T. H.F.H.	E.N.T B.B.H	E.N.T D.H.Q	РАТНО	EYE H.F.H	EYE B.B.H	EYE DHQ	PEADS H.F.H	PEADS B.B.H.	Psychiatry BBH	Family Medicine- HFH / Psychiatry -BBH	NEUROSUR GERY

Vice Chancellor

Rawalpindi Medical University

Rawalpindi

No.T-9/	/RMU. RWP. Dated	2025.

12- Research

Cultivating the culture of Research has always been envisioned as one of the main pillars of Rawalpindi Medical University, as a means to develop healthcare professionals capable of contributing to the development of their country and the world. For the purpose thereof, right from the inception of Rawalpindi Medical University, efforts were concentrated to establish a comprehensive framework for research in Rawalpindi Medical University, as a matter of prime importance. With team efforts of specialists in the field of research, framework was made during

the first year of the RMU, for the development and promotion of clear scheme and plan for establishment of required components for not to promote entrepreneurship through research for future development of

Research
Directory

Research
Publication
JRMC
SJRMC
Research
Model

Research
Model

Research
Research
Model

Research
Research
Research
Research
Student
Research
Form
Research
Society

Research activities in RMU, called the Research Model of RMU, giving only promoting, facilitating and monitoring the research activities but also RMU itself.

13- Biomedical Ethics

Ethical choices, both minor and major, confront us every day in the provision of health care for persons with diverse values living in a pluralistic and multicultural society.

Four commonly accepted principles of health care ethics, excerpted from Beauchamp and Childress (2008), include the:

- 1. Principle of respect for autonomy,
- 2. Principle of no maleficence, 3. Principle of beneficence, and 4. Principle of justice.

14- Family Medicine

Family Medicine is the primary care medical specialty concerned with provision of comprehensive health care to the individual and the family regardless of sex, age or type of problem. It is the specialty of breadth that integrates the biological, clinical and behavioral sciences. Family physicians can themselves provide care for the majority of conditions encountered in the ambulatory setting and integrate all necessary health care services.

15- Artificial Intelligence

Artificial intelligence in medicine is the use of machine learning models to search medical data and uncover insights to help improve health outcomes and patient experiences. Artificial intelligence (AI) is quickly becoming an integral part of modern healthcare. AI algorithms and other applications powered by AI are being used to support medical professionals in clinical settings and in ongoing research. Currently, the most common roles for AI in medical settings are clinical decision support and imaging analysis.