

AYUB MEDICAL COLLEGE ABBOTTABAD

DEPARTMENT OF MEDICAL EDUCATION



CARDIOVASCULAR SYSTEM II MODULE

3RD YEAR MBBS

BLOCK: I

DURATION: 4 WEEKS

SESSION: 2024

STUDENT NAME

DISCLAIMER

- Developing a study guide is a dynamic process and undergoes iteration according to the needs and priorities.
- This study guide is subjected to the change and modification over the whole academic year.
 - However, students are advised to use it as a guide for respective modules.
- It is to declare that the learning objectives (general and specific) and the distribution of assessment tools (both theory and practical) are obtained from Khyber Medical University, Peshawar. These can be obtained from:
<https://kmu.edu.pk/examination/guidelines>
- The time tables are for guiding purpose. It is to advise that final timetables are always displayed over the notice boards of each lecture hall.
 - Students are encouraged to provide feedback via coordinator.

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1 Module Committee:

s.no	Name	Department	Role
1.	Prof. Dr. Umar Farooq		CEO & Dean
2.	Prof. Dr. Irfan U. Khattak		Director DME
Module Team			
3.	Dr. Salma Shazia.	Forensic medicine	Module Coordinator
4.	Dr. Anila Riyaz	Pathology	Member
5.	Dr. Fozia Jahangir.	Pathology.	Member
6.	Dr. Haq Nawaz	Pharmacology.	Member
7.	Dr. Fahim	Pharmacology.	Member
8.	Dr. Zainab Nazneen	Community medicine.	Member
9.	Dr. Rashid Ali	Medicine.	Member
10.	Dr. Saima Bibi.	Pediatrics.	Member
11.	Dr. Imran Shah	ENT.	Member
12.	Dr. Humera.	Anatomy	Member
13.	Dr. Sarwat Abbasi.	Biochemistry.	Member
14.	Dr. Sehar	Physiology.	Member
15.	Miss Ayesha Saleem	PRIME.	Member

2 What Is A Study Guide?

It is an aid to Inform students how student learning program of the module has been organized, to help students organize and manage their studies throughout the module and guide students on assessment methods, rules and regulations.

2.1 The study guide:

- Communicates information on organization and management of the module.
- This will help the student to contact the right person in case of any difficulty.
- Defines the objectives which are expected to be achieved at the end of the module.
- Identifies the learning strategies such as lectures, small group teachings.

2.2 Module objectives.

- Provides a list of learning resources such as books, computer-assisted learning programs, weblinks, and journals, for students to consult in order to maximize their learning.
- Highlights information on the contribution of continuous on the student's overall performance.
- Includes information on the assessment methods that will be held to determine every student's performance.

2.3 Achievement of objectives.

- ▶ Focuses on information pertaining to examination policy, rules and regulations.



3 Recommended ListOf Icons



Introduction To Case



For Objectives



Critical Questions



Assessment



Resource Material

4 Organization of Module

4.1 Introduction:

This module is based on the cardiovascular system. It starts with the basics from anatomy, physiology, biochemistry, followed by the pathological changes, sign and symptoms, treatment, prevention and medicolegal implications. It improves professionalism, self-management and communication skills among the students of 3rd year MBBS.

4.2 Rational:

After studying this module a student would be able to know about the basic anatomy, physiology and biochemistry of the heart and its related structures which will help them in identifying various diseases related to the CVS in adults and children, their treatment and prevention.



5 Learning Objectives

5.1 General Learning Outcomes

By the end of this module the students would be able to;

Knowledge: To have basic and clinical knowledge along with practical skills to the 3rd year MBBS students. The module is aligned to the general outcomes required at the exit level, and includes sessions on pathological mechanisms, preventive medicine, pharmacological aspects, communication skills, professionalism, self-management, medicolegal aspects, clinical application of knowledge and skills. The purpose is to facilitate the student learning.

Themes

S. No.	Theme Title	Week No.
Theme 1	Chest Pain	2 (1)
Theme 2	blood pressure	1
Theme 3	Shortness of breath	2 (1)

5.2 Specific learning Objectives

Theme 1 (Chest pain)				
Subjects	Topics	Los	MI T	No. of hrs
Anatomy	Gross anatomy of heart, valves and coronary arteries	Describe surface anatomy of the heart and heart valves	LGF	1
		Describe the anatomy of coronary circulation		
		Enumerate heart valves and describe their gross morphology		
Biochemistry	Lipoproteins and cholesterol	Classify and Describe types of lipoproteins	LGF	1

		Summarize cholesterol synthesis		
Pathology	Atherosclerosis	Discuss the risk factors, Morphology, pathological changes and consequences of Atherosclerotic plaque	LGF	1
		Ischemia and infarction	Define Ischemia and infarction, and differentiate it from infarction	LGF
		Discuss Classification and pathophysiology of ischemic heart disease		
		Discuss pathophysiology of myocardial infarction		
Pharmacology	Antianginal drugs	Classify antianginal drugs	LGF	2
		Explain mechanism of action, pharmacokinetics and adverse effects of organic nitrates and calcium channel blockers		
		Explain the rationale for use of β -adrenergic blockers and sodium channel blocker in the management of angina pectoris		
	Lipid lowering drugs	Briefly describe the types of dyslipidemias	LGF	2
		List the lipid lowering drug classes		
		Explain the mechanism of action, effect on serum lipid profile and adverse effects of each of the five drug classes		
		Discuss drug-drug interaction of lipid lowering drugs		
	Anticoagulant drugs	Classify anticoagulant drugs	LGF	2
		Discuss mechanism of action, uses of Unfractionated heparin		
		Compare low molecular weight and unfractionated heparin		
Describe adverse effects of heparin and treatment of heparin overdose				
Describe mechanism of action and uses of direct Xa and IIa inhibitors				
Describe mechanism of action and uses of warfarin				

		Describe adverse effects of warfarin and treatment of warfarin overdose		
		Compare heparin and warfarin in terms of mechanism and onset of action		
		Explain monitoring of anticoagulant therapy		
		Describe important diet and drug interactions of warfarin		
	Antiplatelet and thrombolytic drugs	Classify antiplatelet drugs	LGF	1
		List indications of antiplatelet therapy		
		Explain the mechanism of action and adverse effects of each antiplatelet drug group		
		Name thrombolytic drugs and explain their mechanism of action, uses and adverse effects		
Forensic Medicine	Chest trauma	Describe heart injuries caused by regional injuries	LGF	1
		Discuss chest wall injuries in general		
		Enumerate the complications of rib fracture		
	Sudden death	Define sudden death	LGF	1
	Explain the causes of sudden death			
	Describe autopsy findings in sudden death			
		Describe the medicolegal importance of sudden death		
Community Medicine	Non-communicable diseases:	Define Cardiovascular disease (CVD)	LGF	1
	Cardiovascular diseases of public health importance	Elaborate the concept of CVD risk stratification		
		Describe the epidemiology of cardiovascular diseases and explain cardiovascular diseases of Public Health importance globally and in Pakistan		
		Explain the known risk factors of CVD and cultural, racial and gender difference in CVD prevalence		

		and incidence		
	Hypertension	Describe the epidemiology of hypertension and its public Health importance globally and in Pakistan	LGF	1
General Medicine/Cardiology	Coronary Heart disease	Discuss CAD risk factors and strategies to reduce them	LGF	1
		Discuss strategies for primary and secondary prevention of CHD in outpatient setting		
		Define chronic stable angina, its clinical signs and symptoms, laboratory findings, imaging techniques for assessment of it and management protocols		
		Discuss coronary vasospasm and angina with normal coronary angiograms		
	Acute coronary syndrome	Define Acute coronary syndrome	LGF	1
		Explain the spectrum of illness in ACS and relevant management steps		
		Describe the clinical features and steps of the management of Myocardial infarction		
		Describe risk stratification in myocardial infarction		
		Describe complications of acute MI		
	Hypertrophic cardiomyopathy	Discuss clinical features, imaging protocols, risk stratification and short/long-term management of Cardiomyopathy		
PRIME/MEDICAL EDUCATION	Informed consent	Obtaining informed consent from a patient before an invasive procedure	LGF	2
Theme II: Blood pressure				
Pathology	Blood pressure	Describe the mechanisms of blood pressure regulation Classify shock	LGF	1
	Hypertension	Describe the causes, Pathogenesis, morphology		

		and complications of Hypertension		
	Shock	Describe the pathophysiology and types of shock Describe the stages of shock Define sepsis and septic shock Discuss causes, pathogenesis, and laboratory findings in shock Discuss Disseminated intravascular coagulation in the context of Sepsis Describe classification and pathophysiology of Hemorrhage	LGF	1
	Aneurisms	Discuss pathophysiology of hypertension in pregnancy Describe the etiology, morphology and vascular aneurisms Describe the causes, Pathogenesis and types of Aortic Aneurysm	LGF	1
	Aortic dissection	Describe the pathogenesis, morphology and clinical features of Aortic Dissection		
	Vasculitis	Define vasculitis Classify vasculitides Describe the immunological mechanisms of non-infectious vasculitis Describe the morphology and clinical features of Giant cell arteritis Describe the morphology and clinical features of Takayasu arteritis Describe the morphology and clinical features of Polyarteritis nodosa Describe the morphology and clinical features of Kawasaki disease	LGF	1

		Describe the morphology, serological markers and clinical features of Wegener granulomatosis		
		Describe the morphology and clinical features of Thromboangitis obliterans		
	Diseases of veins	Differentiate between thrombophlebitis and Phlebothrombosis		
		Describe the etiology and clinical features of varicose veins		
		Enlist the benign and malignant tumors of the arteries and veins		
Pharmacology	Antihypertensive drugs	Classify antihypertensive drugs	LGF	5
		Discuss role of diuretics in the management of hypertension		
		Discuss the role of ACE inhibitors, Angiotensin receptor-blocking agents, Renin inhibitor in hypertension		
		Explain the rationale for the use of β -blockers, α -adrenoceptor blocking Hypertension		
		Describe the direct vasodilators (mechanism of action and drug toxicity) in relation to antihypertensive drug therapy		
		Describe the role of Calcium channel blockers in hypertension		
General Medicine/Cardiology	Hypertension	Define and classify hypertension	LGF	1
		Discuss drug treatment protocols for hypertension		
		Describe the risk factors and complications of hypertension		
		Describe the management of hypertensive emergencies and Urgencies		
Forensic medicine	Cardiac poisons	Classify Cardiac Poisons	LGF	2
		Describe the characteristic, clinical signs/symptoms, treatment and medicolegal aspects of cardiac glycosides		

		Discuss cardiac effects of methylphenidate, cocaine and Ice		
		Describe the characteristic, clinical signs/symptoms, treatment and medico legal aspects of Oleander		
PRIME/MEDICAL EDUCATION	Counselling skills	Develops counselling skills in professional life	LGF	2
Theme III: Shortness of breath				
Physiology	Cardiac cycle	Outline major events in cardiac cycle Discuss physiology of heart sounds and murmurs	LGF	1
Pathology	Congestive heart failure	Describe the types, etiology, pathogenesis, and clinical features of congestive heart failure	LGF	1
	Cardiomyopathies	Describe the Pathological patterns, causes, morphological changes and clinical features of Cardiomyopathies	LGF	1
	Congenital heart diseases	Describe the Etiology, Pathogenesis and clinical features of Tetralogy of Fallots, ASD, VSD and pulmonary stenosis	LGF	1
	Valvular heart diseases	Describe the Etiology, pathogenesis and clinical features of Aortic stenosis, Aortic regurgitation, Mitral stenosis and Mitral Regurgitation	LGF	1
	Rheumatic fever	Discuss pathophysiology and laboratory findings in rheumatic Fever	LGF	1
	Rheumatic heart disease	Discuss pathological changes and morphology of rheumatic heart disease		
	Thrombosis and Embolism	Describe the mechanism and pathogenetic mechanisms of vascular thrombosis Enlist hypercoagulable states Define embolism Discuss types of embolism	LGF	1

		Describe the etiology, pathogenesis, morphology and clinical features of pulmonary embolism		
	Endocarditis	Discuss Etiology, Pathogenesis, Morphology, diagnostic criteria, clinical features and complications of infective endocarditis	LGF	1
		Discuss the types of non-infected vegetation		
Pharmacology	Drugs used in heart failure	Define the different classes of the drug used in the treatment of heart failure	LGF	2
		Explain the pharmacological effects, clinical uses, adverse effects and drug interactions of digitalis glycosides		
		Explain the signs symptoms and treatment of digoxin overdose		
		Enlist positive inotropic drugs (other than digoxin) that are used in heart failure		
		Classify the five major groups of diuretic drugs and relate them to their site of action		
		Discuss the mechanism of action, clinical applications and adverse effects of carbonic anhydrase enzyme inhibitors, osmotic diuretics, thiazide diuretics, loop diuretics and potassium sparing diuretics		
		Enlist potassium sparing and potassium losing diuretics		
	Antiarrhythmic drugs	Classify antiarrhythmic drugs	LGF	2
		Describe the effect of different classes of antiarrhythmic drugs on membrane potential of cardiomyocytes		
		Explain the mechanism of action of all the classes of antiarrhythmic drugs		
		Discuss the adverse effects and		

		clinical uses of antiarrhythmic drugs		
		Discuss workup and management of pulmonary edema		
General Medicine/Cardiology	Heart failure	Enlist and explain causes of heart failure	LGF	1
		Describe workup and management of heart failure		
	Disorders of heart rate and rhythm	Classify arrhythmias and heart blocks	LGF	1
		Describe the etiology, ECG findings and management of Atrial fibrillation		
		Discuss types, workup and management of ventricular arrhythmias		
	Pulmonary embolism	Describe the etiology, clinical features and diagnostic workup of pulmonary embolism	LGF	1
		Discuss risk stratification and management of pulmonary embolism		
	Pulmonary hypertension	Discuss cardiac causes of pulmonary hypertension and outline their management		
	Myocarditis	Discuss causes and management of myocarditis		
	Pericardial diseases	Define and classify pericarditis		
Discuss clinical findings and treatment of pericarditis				
Describe the etiology and management of pericardial effusion				
Pediatrics	Cyanotic and acyanotic congenital heart disease	Delineate the difference between the acyanotic and cyanotic heart disease conditions	LGF	1
		Enumerate the various defects, involving both conditions		
	Rheumatic fever	Describe the etiology of rheumatic fever	LGF	1
		Describe Duckett Johns criteria for diagnosis of RF		
		Discuss about primary and secondary prophylaxis of rheumatic heart disease		

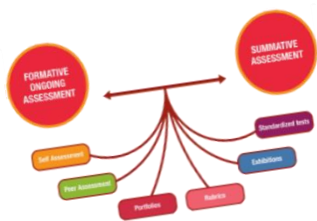
PRIME/MEDICAL EDUCATION	SWOT Analysis	Perform SWOT analysis for a particular task	LGF	1
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Practical/ Small Group Discussions			
Subjects	Topics	Hours	Los
Pharmacology	Myocardial Infarction	02	Construct a prescription for a patient with Myocardial Infarction
	Hypertension	02	Construct a prescription for a patient with Hypertension
	Congestive Cardiac Failure	02	Construct a prescription for a patient with Congestive Cardiac Failure
Pathology	Lipid Profile	02	Demonstrate Estimation of total cholesterol
	Hemangioma	02	Identify the morphological changes occurring in hemangioma
Forensic medicine	Cardiac toxins	02	Identify the following cardiogenic toxins: <ul style="list-style-type: none"> • Digitalis • Cannabis • Heroin

MIT:mode of information transfer. E.g. lecture, SGD, DSL, Practical, skill lab etc

S. No	Subject	Hours needed
1.	Anatomy	01
2.	Physiology	01
3.	Biochemistry	01
4.	Pathology	13
5.	Pharmacology	16
6.	Forensic medicine	04
7.	Community medicine	02
8.	General medicine / cardiology	06
9.	Pediatrics	02

10.	PRIME/MEDICAL EDUCATION	05
	Total	
	Practicals	
	Pharmacology	06
	Forensic Medicine	02
	Pathology	04



6 Examination and Methods of Assessment:

The year-3 will be assessed in 3 blocks.

- 1) Block-1 (Foundation 2 and Infection and Inflammation modules) will be assessed in **paper-G**.
- 2) Block-2 (Multisystem, blood and MSK modules) will be assessed in **paper-H**.
- 3) Block-3 (CVS and Respiratory module) will be assessed in **paper-I**.
- 4) Each written paper consists of 120 MCQs.
- 5) Internal assessment will be added to final marks in KMU.
- 6) In OSPE, each station will be allotted 6 marks, and a total of 120 (+10% marks of internal assessment) marks are allocated for each OSPE/OSCE examination.
- 7) Practical assessment will be in the form of OSPE/OSCE which will also include embedded viva stations. The details of each section are given in the tables given below.

Table-1: Total Marks Distribution 3rd Year MBBS

Assessment Plan of 3 rd Year MBBS						
Theory paper	Modules	Theory marks	Internal assessment theory (10%)	OSPE/OSPE	Internal assessment OSPE/OSPE (10%)	Total Marks
Paper G	Foundation-II	120	14	120	14	268
	Inf.&Inflamm.I					
Paper H	Multisystem I Blood II MSK-II	120	13	120	14	267
Paper I	CVS-II	120	13	120	12	265
	Respiratory-II					
Total Marks		360	40	360	40	800

Paper-I (CVS and Respiratory Module)

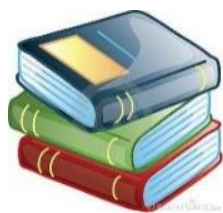
MCQs

Subject	CVS	Respiratory module	Total MCQs
Pharmacology	12	5	17
Pathology	20	22	42
Forensic medicine	4	9	13
Community medicine	2	6	8
ENT	0	6	6
PRIME	2	1	3
Research	1	1	2
Medicine	13	2	15
Pediatrics	3	5	8
Anatomy	1	1	2
Physiology	1	1	2
Biochemistry	1	1	2
Total	60	60	120

Table-6: OSPE

Subject	OSPE/OSCE	Viva stations	Total*
Pharmacology	5	2	7
Pathology	2	2	4
Forensic medicine	3	2	5
Community medicine	0	2	2
Medicine (history and physical examination)	1	0	1
Pediatrics (history and physical examination)	1	0	1
Total	12	8	20

* A minimum of 20 stations will be used in final exams. Total marks will be 120 (6marks for each station).



7 Learning Opportunities and Resources

7.1 Books:

1. ANATOMY:

- K.L. Moore, Clinically Oriented Anatomy
- Snell's regional anatomy.
- R J Last.

2. PHYSIOLOGY:

- Guyton.
- Hall ganong.

3. Biochemistry: text books of :

- Harper.
- Lipponcott.
- Chatterjee.

4. Pharmacology.

- Goodman and Gillman's, 13th edition.
- Katzung pharmacology. 14th edition.
- Kripathi 8th edition.
- Lipponcott. 6th edition.

5. Forensic medicine and toxicology.

- Nasib R. Awan. Principles and practice of Forensic Medicine 1st ed. 2002.
- Parikh, C.K. Parikh's Textbook of Medical Jurisprudence, Forensic Medicine and Toxicology. 7th ed. 2005.
- Knight B. Simpson's Forensic Medicine. 11th ed. 1993.
- Knight and Pekka. Principles of forensic medicine. 3rd ed. 2004
- Krishan VIJ. Text book of forensic medicine and toxicology (principles and practice). 4th ed. 2007
- Dikshit P.C. Text book of forensic medicine and toxicology. 1st ed. 2010
- Polson. Polson's Essential of Forensic Medicine. 4th edition. 2010.
 - Rao. Atlas of Forensic Medicine (latest edition).

6. Pathology.

- Robbins Basic Pathology

7. Community medicine.

- Community Medicine by Parikh
- Community Medicine by M Illyas
- Basic Statistics for the Health Sciences by Jan W Kuzma
- Park K. Park's textbook for preventive and social medicine. 23rd ed. Bhanot publishers: Jabalpur; 2015

8. Medicine.

- Davidson's Principles and practice of medicine.
- Kumar and Clarks, clinical medicine.

9. Ent.

- Logan Turner's Diseases of Nose, Throat and ear. 10th edition.
- Diseases of ear, nose and throat and head and neck surgery, 7th edition by Dhingra.
- Oxford handbook of ENT and Head and Neck surgery 3RD Edition.

10. Pediatrics

- Nelson's Textbook of pediatrics.

7.2 Website:

Community medicine.

Link for free download PDF:https://medicalstudyzone.com/download-parks-textbook-of-preventive-and-social-medicine-25th-edition-pdf-free/#Download_Park8217s_Textbook_of_Preventive_and_Social_Medicine_PDF_free

1. Ansari I. Textbook of Communtiy Medicine
2. WHO link for COVID 19: https://www.who.int/emergencies/diseases/novel-coronavirus-2019?adgroupsurvey={adgroupsurvey}&gclid=Cj0KCQiA5OuNBhCRARIsACgaiqWRf0GVqPOJh4TfnsKjoLx9pTR0ThMqVVQl1eFaZWA2vxooqACgdMwaAtcmEALw_wcB
3. McIntosh K. <https://www.uptodate.com/contents/covid-19-epidemiology-virology-and-prevention>

FORENSIC MEDICINE.

- <https://worldofmedicalsaviours.com/textbook-of-forensic-medicine-and-toxicology-by-nagesh-kumar-rao-pdf-free-download/>

8 Timetables

AYUB MEDICAL COLLEGE, ABBOTTABAD
Department of Medical Education
Class Session 2024
CVS II, Week 01: Theme 01 (Chest Pain)

Days/ Date	8 – 9 AM	9 – 10 AM	10 – 11 AM	11 AM – 12 PM	12 – 12.45 PM	PRACTICAL	
						1:15 – 2 PM	2 – 3 PM
Mon	Gross Anatomy of heart, valves & coronary arteries Anatomy L1 (LH-3) Dr. Gul-e-Shahwar	Events in cardiac cycle & physiology of heart sounds & murmurs Physiology L-1 Dr. Muhammad Orakzai	HOSPITAL/CLINICAL TEACHING		Lipoproteins & Cholesterol Biochemistry L1 (LH-3) Dr. Asma Rafique	A: Pathology B: Forensic Medicine C: Pharmacology D: Community Medicine	
Tue	Chest trauma Forensic Medicine L1 (LH-3) Dr. Salma shazia	Atherosclerosis Pathology L1 (LH-3) Dr. Shabana	HOSPITAL/CLINICAL TEACHING		Antianginal drugs Pharmacology L1 (LH-3) Dr. Wajid Ali	A: Community Medicine B: Pathology C: Forensic Medicine D: Pharmacology	
Wed	Antianginal drugs Pharmacology L2 (LH-3) Dr. Wajid Ali	Anticoagulant drugs Pharmacology L3 (LH-3) Prof. Sumbal Tariq	HOSPITAL/CLINICAL TEACHING		Anticoagulants drugs Pharmacology L4 (LH-3) Prof. Sumbal Tariq	Communication/ counselling skills PRIME (Surgery) L1, (LH-3) Dr. Firdos	SDL
Thurs	PRACTICAL A. Pharmacology B. Community Medicine C. Pathology Forensic Medicine		HOSPITAL/CLINICAL TEACHING		Antiplatelet & Thrombolytic drugs Pharmacology L5 (LH-3) Prof. Sumbal Tariq	Informed Consent PRIME (Surgery) L2, (LH-3) Dr. Yousaf	Lipid lowering drugs Pharmacology L6, (LH-3) Dr. Faheem
Fri	PRACTICAL A. Forensic Medicine B. Pharmacology C. Community Medicine D. Pathology		Lipid lowering drugs Pharmacology L7 (LH-3) Dr. Faheem	Coronary Heart Disease Medicine L1 (LH-3) Dr. Fakhar	Acute Coronary syndrome Medicine L2 (LH-3) Dr. Salim Awan	12:45 – 1:30	1:30 – 3:00
						Jumma Prayer	SDL

Practical Detail:

Pharmacology: Construct a prescription for a patient with myocardial infarction

Pathology: Lipid profile

Forensic Medicine: Identify the following cardiogenic toxins : digitalis, oleander, cannabis, heroin

Community Medicine: copy checking, practice session, research

 Module Coordinator

AYUB MEDICAL COLLEGE, ABBOTTABAD
 Department of Medical Education
 Class Session 2024
CVS II, Week 02: Theme 02 (Blood Pressure)

Days / Date	8 – 9 AM	9 – 10 AM	10 – 11 AM	11 AM – 12 PM	12 – 12.45 PM	12:45 -1:15	PRACTICAL	
							1:15 – 2 PM	2 – 3 PM
Mon	Cardiovascular diseases of public health importance Community Medicine L1 (LH-3) Dr. Awais	Sudden death Forensic Medicine L2 (LH-3) Dr. Omair	HOSPITAL/CLINICAL TEACHING		Ischemia & infarction Pathology L2 , (LH-3) Dr. Fozia	PRAYER BREAK	A: Pathology B: Forensic Medicine C: Pharmacology D: Community Medicine	
Tue	Blood pressure & hypertension Pathology L3 (LH-3) Dr. Shabana	Antihypertensive drugs Pharmacology L8 (LH-3) Dr. Adeel Alam	HOSPITAL/CLINICAL TEACHING		shock Pathology L4 , (LH-3) Dr. Fozia		A: Community Medicine B: Pathology C: Forensic Medicine D: Pharmacology	
Wed	Hypertension + Hypertrophic cardiomyopathy Medicine L3 (LH-3) Dr. Fakhar	Cardiac Poisons Forensic Medicine L3 (LH-3) Dr. Sadia Habiba	HOSPITAL/CLINICAL TEACHING		Antihypertensive drugs Pharmacology L9 (LH-3) Dr. Adeel Alam		H-BLOCK EXAM	
Thurs	A. Pharmacology B. Community Medicine C. Pathology Forensic Medicine		HOSPITAL/CLINICAL TEACHING		Aneurysms & aortic dissection Pathology L5 (LH-3) Dr. Fozia		Positive attitude process PRIME (Surgery) L3 (LH-3) Dr. Fazale Junaid	SDL
Fri	PRACTICAL A. Forensic Medicine B. Pharmacology C. Community Medicine D. Pathology		Vasculitis, disease of veins Pathology L6 (LH-3) Dr. Shabana	Antihypertensive drugs Pharmacology L10 (LH-3) Dr. Adeel Alam	Cardiac Poisons Forensic Medicine L4 (LH-3) Dr. Sadia Habiba		12:45 – 1:30	1:30 – 3:00
						JUMMA PRAYER	SDL	

Practical Detail:

Pharmacy: :Construct a prescription for a patient with angina pectories

Pathology: Malaria

Forensic Medicine: Thanatology) + Injuries

Community Medicine: BHU + EPI center

 Module Coordinator

AYUB MEDICAL COLLEGE, ABBOTTABAD

Department of Medical Education

Class Session 2024

CVS II, Week 03: Theme 03 (Shortness of Breath)

Days / Date	8 – 9 AM	9:00 – 10:00	10:00 – 11:00	11:00 – 12:00	12:00 – 12:45	12:45 – 1:15	PRACTICAL	
							1:15 – 2:00	2:00 – 3:00
Mon	GANTT Chart Community Medicine L4 PRIME (LH-3) Dr. Rizwana	SWOT Analysis PRIME (C.Med)-L5 (LH-3) Dr. Sobia	HOSPITAL/CLINICAL TEACHING		Congestive heart failure Pathology L7 (LH-3) Dr. Fozia	PRAYER BREAK	A: Pathology B: Forensic Medicine C: Pharmacology D: Community Medicine	
Tue	Cyanotic & cyanotic congenital heart disease Peads-L1 (LH-3) Dr. Saima Bibi	Cardiomyopathies Pathology L8 (LH-3) Dr. Fozia	HOSPITAL/CLINICAL TEACHING		Drugs for heart failure Pharmacology L-11 (LH-3) Prof. Sumbal Tariq		A: Community Medicine B: Pathology C: Forensic Medicine D: Pharmacology	
Wed	Congenital heart disease Pathology L-9 (LH-3) Dr. Shabana	Valvular heart disease Pathology L-10 (LH-3) Dr. Shabana	HOSPITAL/CLINICAL TEACHING		Drugs for heart failure Pharmacology L12 (LH-3) Prof. Sumbal Tariq		Heart Failure Medicine L4 (LH-3) Dr. Nighat Jamal	SDL
Thurs	Pharmacology Community Medicine Pathology Forensic Medicine		HOSPITAL/CLINICAL TEACHING		Diuretics Pharmacology L-13 (LH-3) Dr. azfar kamal		Diuretics Pharmacology L-14 (LH-3) Dr. azfar kamal	SDL
Fri	PRACTICAL Forensic Medicine Pharmacology Community Medicine Pathology		Antiarrhythmic drugs Pharmacology L15 (LH-3) Dr. Saad Mufti	Rheumatic Fever Peads-L2 (LH-3) Dr. Tousif Ahmed	SDL		12:45 – 1:30	1:30 – 3:00
						Jumma Prayer	SDL	

Practical Detail:

Pharmacology: Construct a prescription for a patient with hyper tension (pharmacy lab)

Pathology: Hemangioma.

Forensic Medicine: Practice session/copy checking/presentations.

Community Medicine: Practice session/copy checking/ research

Module Coordinator

AYUB MEDICAL COLLEGE, ABBOTTABAD

Department of Medical Education

Class Session 2024

CVS II, Week 04: Theme 03 (Shortness of Breath) + Respiratory II, Week 01: Theme 01 (Cough with sputum, and fever)

Days/ Date	8:00 – 9:00	9:00 – 10:00	10:00 – 11:00	11:00 – 12:00	12:00 – 12:45	12:45- 1:15	PRACTICAL	
							1:15 – 2:00	2:00 – 3:00
Mon	Rheumatic fever & Rheumatic heart disease Pathology L-11 (LH-3) Dr. Fozia	Disorders of heart rate and rhythm Medicine L5 (LH-3) Dr. Saleem Awan	HOSPITAL/CLINICAL TEACHING		Antiarrhythmic drugs Pharmacology L16 (LH-3) Dr. Saad Mufti	PRAYER BREAK	A: Pathology B: Forensic Medicine C: Pharmacology D: Community Medicine	
Tue	Anatomy of Respiratory System Anatomy L1 (LH-3) Dr. Obaid Kazmi	Mechanism of Ventilation Physiology L1 (LH-3) Dr. Izhar	HOSPITAL/CLINICAL TEACHING		Hypo/Hyperventilation Biochemistry L1 (LH-3) Dr. Maria		A: Community Medicine B: Pathology C: Forensic Medicine D: Pharmacology	
Wed	Thrombosis and embolism Pathology-L12 (LH-3) Dr. Shabana	Asphyxia Forensic Med L1 (LH-3) Dr. Salma Shazia	HOSPITAL/CLINICAL TEACHING		Endocarditis Pathology-L13 (LH-3) Dr. Fozia		SDL	
Thurs	A. Pharmacology B. Community Medicine C. Pathology Forensic Medicine		HOSPITAL/CLINICAL TEACHING		Hypertension Community Med: L-2 Dr. Awais (LH-3)		SDL	
Fri	PRACTICAL E. Forensic Medicine F. Pharmacology G. Community Medicine Pathology		Social determinants of health Community Med Family Medicine L-1 Dr. Ashfaq (LH-3)	Pulmonary embolism & hypertension, Myocarditis & Pericarditis Medicine L6 (LH-3) Dr. Adnan	SDL		12:45- 1:30	1:30-3:00
						Jumma Prayer	SDL	

Practical Detail:

Pharmacology: Construct a prescription for a patient suffering from CCF (Pharmacy Lab.)

Pathology: Cardiac enzymes.

Forensic Medicine: Copy checking.

Community Medicine: mask wearing.

9 For inquiry and troubleshooting



Please contact
To be added

10 Course Feedback Form

CourseTitle: _____

Semester/Module _____ Dates: _____

Please fill the short questionnaire to make the course better.

Please respond below with 1, 2, 3, 4 or 5, where 1 and 5 are explained.

THE DESIGN OF THE MOD/LUE

- A. Were objectives of the course clear to you? Y N
- B. The course contents met with your expectations
 1. Strongly disagree 5. Strongly agree
- C. The lecture sequence was well-planned
 1. Strongly disagree 5. Strongly agree
- D. The contents were illustrated with
 1. Too few examples 5. Adequate examples
- E. The level of the course was
 1. Too low 5. Too high
- F. The course contents compared with your expectations
 1. Too theoretical 5. Too empirical
- G. The course exposed you to new knowledge and practices
 1. Strongly disagree 5. Strongly agree
- H. Will you recommend this course to your colleagues?
 1. Not at all 5. Very strongly

THE CONDUCT OF THE MOD/LUE

- A. The lectures were clear and easy to understand
 1. Strongly disagree 5. Strongly agree
- B. The teaching aids were effectively used
 1. Strongly disagree 5. Strongly agree
- C. The course material handed out was adequate
 1. Strongly disagree 5. Strongly agree
- D. The instructors encouraged interaction and were helpful
 1. Strongly disagree 5. Strongly agree
- E. Were objectives of the course realized? Y N
- F. Please give overall rating of the course

90% - 100% ()	60% - 70% ()
80% - 90% ()	50% - 60% ()
70% - 80% ()	below 50% ()

Please comment on the strengths of the course and the way it was conducted.

Please comment on the weaknesses of the course and the way it was conducted.

Please give suggestions for the improvement of the course.

Optional - Your name and contact address:

Thank you!!