AYUB MEDICAL COLLEGE ABBOTTABAD

DEPARTMENT OF MEDICAL EDUCATION



CARDIOVASCULAR SYSTEM II MODULE

3RD YEAR MBBS

BLOCK: I

DURATION: 4 WEEKS

SESSION:2023

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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	Directo	r DME			
	Module Team					
3.	Dr. Salma Shazia.	Forensic medicine	Module Coordinator			
4.	Dr.AnilaRiyaz	Pathology	Member			
5.	Drfozia Jahangir.	Pathology.	Member			
6.	DrHaq 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.	DrHumera.	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

Week No.

S. No. Theme Title

Theme 1 Chest Pain 2 (1)

Theme 2 blood pressure 1

Theme 3 Shortness of 2 (1)
breath

5.2 Specific learning Objectives

Theme 1 (Chest pain)				
Subjects	Topics	Los	Т	No. of hrs
Anatomy	Gross anatomy of heart, valves and coronary	heart and heart valves	LGF	1
	arteries	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
	lschemia and	Define Ischemia and infarction, and differentiate it from infarction	LGF	1
	infarction	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	Briefly describe the types of dyslipidemias	LGF	2
	drugs	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		
	Anticoagulan t drugs	Classify anticoagulant drugs Discuss mechanism of action, uses of Unfractionated heparin Compare low molecular weight and	LGF	2
		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	Classify antiplatelet drugs	LGF	1
	thrombolytic	List indications of antiplatelet		
	drugs	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	LGF	1
		regional injuries		
		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		
Communit	Non-	Define Cardiovascular disease (CVD)	LGF	1
У	communicabl			
Medicine	e diseases:			
	Cardiovascular	Elaborate the concept of CVD risk		
	diseases of public	stratification		
	health	Describe the epidemiology of		
	importance	cardiovascular diseases and		
		explain cardiovascular diseases of		
		Public Healthimportance		
		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/Cardiolog Y	Coronary Heart disease	Discuss CAD risk factors and strategies to reduce them Discuss strategies for primary and secondary prevention of CHD in outpatient setting	LGF	1
		Define chronic stable angina, its clinical signs and symptoms, laboratory findings, imaging techniques for assessment of itand management protocols Discuss coronary vasospasm and angina with normal coronary angiograms		
	Acute coronary syndrome	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	LGF	1
	Hypertrophic cardiomyopath y	Discuss clinical features, imaging protocols, risk stratification and short/long-term management of hypertrophic Cardiomyopathy		
PRIME/MEDIC AL 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	LGF	1

	pressure regulation Classify shock		
Hypertension	Describe the causes, Pathogenesis, morphology and complications ofHypertension		
Shock	Describe the pathophysiology and types of shock Describe the stages pf shock	LGF	1
	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		
Aneurisms	pathophysiology of Hemorrhage Discuss pathophysiology of hypertension in pregnancy Describe the etiology,	LGF	1
	Describe the etiology, morphology and manifestations of vascular aneurisms		
Aortic dissection	Describe the causes, Pathogenesis and types of Aortic Aneurysm Describe the pathogenesis, morphology and clinical features of		
Vasculitis	Aortic Dissection Define vasculitis		
	Classify vascilitides Describe the immunological mechanisms of non-infectious		
	vasculitis Describe the morphology and clinical features of Giant cell arteritis	LGF	1
	Describe the morphology and clinical features of Takayasu arteritis		

1		Describe the marphalage and aliginal		
		Describe the morphology and clinical		
		features of Polyarteritis		
		nodosa	-	
		Describe the morphology and clinical		
		features of Kawasaki		
		disease		
		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	Antihypertensiv	Classify antihypertensive drugs	LGF	5
	e drugs	-		
		Discuss role of diuretics in the	1	
		management of hypertension		
		Discuss the role of ACE inhibitors,	1	
		Angiotensin receptor-blocking		
		agents, Renin inhibitor in		
		hypertension		
		Explain the rationale for the use of	1	
		β -blockers, α -adrenoceptor blocking		
		agent, centrally		
		acting sympatholytic		
		drugs in		
		Hypertension		
		Describe the direct vasodilators	1	
		(mechanism of action anddrug		
		toxicity) in relation to		
		antihypertensive drug therapy		
		Describe the role of Calcium channel	1	
		blockers in hypertension		
General Medicine/Cardiolog	Hypertension	Define and classify hypertension	LGF	1
_		Discuss drug treatment protocols for	-	
У		Discuss drug treatment protocols for		ļ
		hypertension		ļ
1		Describe the risk factors and	1	

		complications of hypertension		
		Describe the management of		
		hypertensive emergencies and		
		Urgencies		
Forensic medicine	Cardiac poisons	Classify Cardiac Poisons	LGF	2
	parama parama	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/MEDIC	Counselling skills	Develops counselling skills in	LGF	2
AL EDUCATION		professional life		
	Theme III	: Shortness of breath		
Physiology	Cardiac cycle	Outline major events in cardiac cycle	LGF	1
		Discuss physiology of heart sounds		
		and murmurs		
Pathology	Congestive	Describe the types, etiology,	LGF	1
	heart failure	pathogenesis, and clinical features of		
		congestive heart failure		
	Cardiomyopathies		LGF	1
		patterns,		
		causes,		
		morphological		
		changes and clinical features of		
		Cardiomyopathies		
	Congenital	Describe the Etiology, Pathogenesis	LGF	1
	heart diseases	and clinical features of Tetrology of		
		Fallots, ASD, VSD and pulmonary		
		stenosis		1
	Valvular 	Describe the Etiology, pathogenesis	LGF	1
	heart	and clinical features of Aortic		
	diseases	stenosis, Aortic regurgitation, Mitral		
		stenosis and Mitral		
	Dhaumatic force:	Regurgitation	LCE	1
	Rheumatic fever	Discuss pathophysiology and	LGF	1
		laboratory findings in rheumatic		
		Fever		

	Rheumatic	Discuss pathological changes and		
	heart disease	morphology of rheumatic heart		
		disease		
	Thrombosis	Describe the mechanism and	LGF	1
	and Embolism	pathogenetic mechanisms of		
		vascular thrombosis		
		Enlist hypercoagulable states		
		Define embolism		
		Discuss types of embolism		
		Describe the etiology, pathogenesis,		
		morphology and clinical		
		features of pulmonary embolism		
	Endocarditis	Discuss Etiology, Pathogenesis,	LGF	1
		Morphology, diagnosticcriteria,		
		clinical features and complications of	:	
		infective endocarditis		
		Discuss the types of non-infected		
		vegetation		
Pharmacology	Drugs used	Define the different classes of the	LGF	2
	in heart	drug used in the treatment of		
	failure	heart failure		
		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		
	Antiarrhythmi	Classify antiarrhythmic drugs	LGF	2

	c drugs	Describe the effect of different		
	2 41 453	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	Heart failure	Enlist and explain causes of heart	LGF	1
Medicine/Cardiolog		failure		
У		Describe workup and management		
		of heart failure		
	Disorders of	Classify arrhythmias and heart blocks	LGF	1
	heart rate	Describe the etiology, ECG findings		
	and rhythm	and management of Atrial fibrillation		
		Discuss types, workup		
		and management of		
		ventricular arrhythmias		
	Pulmonar	Describe the etiology, clinical	LGF	1
	у	features and diagnostic workup of		
	embolis	pulmonary embolism		
	m	Discuss risk stratification		
		and management of		
		pulmonary embolism		
	Pulmonary	Discuss cardiac causes of pulmonary		
	hypertensio	hypertension and outline their		
	n	management		
	Myocarditis	Discuss causes and management of		
		myocarditis		
	Pericardi	Define and classify pericarditis		
	al	Discuss clinical findings and		
	diseases	treatment of pericarditis		
		Describe the etiology and		
		management of pericardial effusion		
Pediatrics	Cyanotic and	Delineate the difference between	LGF	1
	acyanotic	the acyanotic and cyanotic heart		_
	congenital	disease conditions		
	heart disease	Enumerate the various defects,		
		involving both conditions		
		myorving both conditions		
	Rheumatic fever	Describe the etiology of rheumatic	LGF	1
	1			1

		fever		
		Describe Duckett Johns criteria for		
		diagnosis of RF		
		Discuss about primary and		
		secondary prophylaxis of		
		rheumatic heart disease		
PRIME/MEDIC	SWOT Analysis	Perform SWOT analysis for a	LGF	1
AL EDUCATION		particular task		

	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:				

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

Forensic medicine	04
Community medicine	02
General medicine / cardiology	06
Pediatrics	02
PRIME/MEDICAL EDUCATION	05
Total	
Practicals	
Pharmacology	06
Forensic Medicine	02
Pathology	04
	Community medicine General medicine / cardiology Pediatrics PRIME/MEDICAL EDUCATION Total Practicals Pharmacology Forensic Medicine



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% marksof 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/OSP E	Internal assessment OSPE/OSP E(10%)	Total Mark s		
Paper G	Foundation-II Inf.&Inflamm.I	120	14	120	14	268		
Paper H	Multisystem I Blood II MSK-II	120	13	120	14	267		
Paper I	CVS-II Respiratory-II	120	13	120	12	265		
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
	4	9	13
medicine			
Community	2	6	8
medicine			
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/OSC	Viva	Total*
	E	stations	
Pharmacology	5	2	7
Pathology	2	2	4
Forensic	3	2	5
medicine			
Community	0	2	2
medicine			
Medicine	1	0	1
(history and			
physical			
examination)			
Pediatrics	1	0	1
(history and			
physical			
examination)			
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 Community Medicine
- 2. WHO link for COVID 19: https://www.who.int/emergencies/diseases/novel-coronavirus-2019?adgroupsurvey={adgroupsurvey}&gclid=Cj0KCQiA5OuNBhCRARIsACgaiqWRf0GVqPOJh4TfnsKjoLx9pTR0ThMqVVQl1eFaZWA2vxooqACgdMwaAtcmEALwwcB
- 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 2023

CVS II, Week 01: Theme 01 (Chest Pain)

Days/	0.000	0 40 414	40 44 404	11 AM – 12	42 42 45 514			PRACT	ΓΙCAL		
Date	8 – 9 AM	9 – 10 AM	10 – 11 AM	PM	12 – 12.45 PM		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		L/CLINICAL CHING	Lipoproteins & Cholesterol Biochemistry L1 (LH-3) Dr. Asma Rafique	C: Pharn		A: Fathology B: Forensic Medicine C: Pharmacology D: Community Medicine A: Community Medicine			
Tue	Chest trauma Forensic Medicine L1 (LH-3) Dr. Salma shazia	Atherosclero sis Pathology L1 (LH-3) Dr. Shabana	drugs B. Pati HOSPITAL/CLINICAL Pharmacology		drugs B. Pat		•		A: Comi B. Patho C: Forer D: Phari	ology isic Med	dicine
Wed	Antianginal drugs Pharmacol ogy L2 (LH-3) Dr. Wajid Ali	Anticoagulant drugs Pharmacolo gy L3 (LH-3) Prof. Sumbal Tariq	HOSPITAL/CLINICAL TEACHING		Anticoagulants drugs Pharmacology L4 (LH-3) Prof. Sumbal Tariq		Commu on counse skil PRIN (Surger (LH- Dr. Fir	/ elling ls ME ry) L1,	SDL		
Thurs	A. Pharma	nity Medicine By	HOSPITAL/CLINICAL TEACHING		Antiplatelet & Thrombolytic drugs Pharmacology L5 (LH-3) Prof. Sumbal Tariq		Inforr Cons PRIN (Surger (LH- Dr. Yo	med ent ME ry) L2,	Lipid lowering drugs Pharmacol ogy L6, (LH-3) Dr. Faheem		
Fri	A. Forension	nity Medicine	Lipid lowering drugs Pharmacol ogy 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 1:30 Jumma Prayer		:30 – 3:00 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 2023

CVS II, Week 02: Theme 02 (Blood Pressure)

Days			10 – 11			12:45	PRACT	ΓΙCAL														
/ Date	8 – 9 AM	9 – 10 AM	AM	AM 11 AM – 12 PM 12 -		-1:15	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		TAL/CLINICAL ACHING	Ischemia & infarction PathologyL2, (LH-3) Dr. Fozia		A: Pathol B: Forens Medicine C: Pharm D: Comm Medicine	ic acology unity														
Tue	Blood pressure & hypertension Pathology L3 (LH-3) Dr. Shabana	Antihypertensi ve drugs Pharmacology L8 (LH-3) Dr. Adeel Alam		TAL/CLINICAL ACHING	shock Pathology L4, (LH-3) Dr. Fozia	PRAYER BREAK	PRAYER BREAK	<u>EAK</u>	EAK	EAK	EAK	<u>EAK</u>	EAK	REAK	A: Comm Medicine B. Pathol C: Forens Medicine D: Pharm	ogy ic						
Wed	Hypertension + Hypertropic cardiomyopat hy Medicine L3 (LH-3) Dr. Fakhar	Cardiac Poisons Forensic Medicine L3 (LH-3) Dr. Sadia Habiba		TAL/CLINICAL FACHING	Antihypertensi ve drugs Pharmacology L9 (LH-3) Dr. Adeel Alam			BLC EXA														
Thur s	A. Pharmacolog B. Community C. Pathology Forensic Medicin	Medicine		TAL/CLINICAL ACHING	Aneurysms & aortic dissection Pathology L5 (LH-3) Dr. Fozia		Positive attitude process PRIME (Surgery) L3 (LH-3) Dr. Fazal e Junaid	SDL														
Fri	PRAC A. Forensic Me B. Pharmacolog C. Community D. Pathology	gy	Vasculitis, disease of veins PathologyL 6 (LH-3) Dr. Shabana	Antihypertensi ve drugs Pharmacology L10 (LH-3) Dr. Adeel Alam	Cardiac Poisons Forensic Medicine L4 (LH-3) Dr. Sadia Habiba	12:4! 1:3 JUMI PRAY	O AN	0 – 3:00 SDL														

Practical Detail:

Pathology: Malaria

Forensic Medicine: Thanatology) + Injuries Community Medicine: BHU + EPI center

Module	Coordinator	

AYUB MEDICAL COLLEGE, ABBOTTABAD

Department of Medical Education Class Session 2023

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

Days				11:00 -		12:45		PRACTIC	AL
/ Date	8 – 9 AM	9:00 – 10:00	10:00 – 11:00	12:00	12:00 – 12:45	-1:15	1:15 -	- 2:00	2:00 – 3:00
Mon	GANTT Chart Communit y Medicine L4 PRIME (LH-3) Dr. Rizwana	SWOT Analysis PRIME (C.Med)-L5 (LH-3) Dr. Sobia	HOSPITAL/CLIN TEACHING	IICAL	Congestive heart failure Pathology L7 (LH-3) Dr. Fozia		C: Pha	ensic Me rmacolo nmunity	dicine
Tue	Cyanotic &acyanoti c congenital heart disease Peads-L1 (LH-3) Dr. Saima Bibi	Cardiomyopathi es Pathology L8 (LH-3) Dr. Fozia	HOSPITAL/CLINICAL TEACHING		Drugs for heart failure Pharmacolog y L-11 (LH-3) Prof. Sumbal Tariq		A: Community Medicine B. Pathology C: Forensic Medicine D: Pharmacology		
Wed	Congental heart disease Pathology L-9 (LH-3) Dr. Shabana	Valvular heart disease PathologyL-10 (LH-3) Dr. Shabana	HOSPITAL/CLIN TEACHING	IICAL	Drugs for heart failure Pharmacolog y L12 (LH-3) Prof. Sumbal Tariq		Heart I Medici (LH-3) Dr. Nig Jamal	ine L4	SDL
Thur s	Pharmacology Community Pathology	Pharmacology Community Medicine		Diuretics Pharmacolog y L-13 (LH-3) Dr. azfar kamal	PRAYER BREAK	Diuretics Pharmacolog y L-14 (LH-3) Dr. azfar kamal		SDL	
Fri	PRACTICAL Forensic Me Pharmacolo Community Pathology	gy	Antiarrhythmic drugs Pharmacology L15 (LH-3) Dr. Saad Mufti	Rheum atic Fever Peads- L2 (LH-3) Dr.Tous if Ahmed	SDL	Jumma Prayer	a		

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 2023

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

Days/	8:00 – 9:00	9:00 – 10:00	10:00 – 11:00	11:00 – 12:00	12:00 – 12:45	12:45-	PRAC 1:15	2:00 –		
Date	8:00 – 9:00	9:00 - 10:00	10:00 – 11:00	11:00 – 12:00	12:00 – 12:45	1:15	-	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/CLIN	IICAL TEACHING	Antiarrhythmic drugs Pharmacology L16 (LH-3) Dr. Saad Mufti		D: Comm Medici	ensic ine acology unity ine	sic e ology iity	
Tue	Anatomy of Respiratory System Anatomy L1 (LH-3) Dr. Obaid Kazmi	Mechanism of Ventilation Physiology L1 (LH-3) Dr. Izhar	HOSPITAL/CLIN	IICAL TEACHING	Hypo/Hyperventilation Biochemistry L1 (LH-3) Dr. Maria	PRAYER BREAK	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/CLIN	IICAL TEACHING	Endocarditis Pathology-L13 (LH-3) Dr. Fozia		S	DL	SI	
Thurs	A. Pharmacology B. Community Med C. Pathology Forensic Medicine	icine	HOSPITAL/CLIN	IICAL TEACHING	Hypertension Community Med: L-2 Dr. Awais (LH-3)		S	DL		
	PRACTICA		Social	Pulmonary		12:45-	1:3	30-3:00		
Fri	E. Forensic Medic F. Pharmacology G. Community Me Pathology	-	determinants of heath Community Med	embolism & hypertension, Myocarditis & Pericarditis	SDL	Jumma Praye		SDL		
			Family Medicine L-1 Dr. Ashfaq (LH-3)	Medicine L6 (LH-3) Dr. Adnan						

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.

For inquiry **and** troubleshooting



Please contact

To be added

10 Course Feedback Form

CourseTitle:	
Semester/Module	Dates:
Please fill the short questionnaire to make th	ne course better.
Please respond below with 1, 2, 3, 4 or 5, wh	nere 1 and 5 are explained.
THE DESIGN OF THEMODLUE	
A. Were objectives of the course clearto you?	Y N
$B. \ \ \text{The course contents met with your expectationss}$	
l.Stronglydisagree	5. Stronglyagree
C. The lecture sequence was well-planned	
l.Stronglydisagree	5. Stronglyagree
D. The contents were illustrated with	
l. Toofewexamples	5. Adequateexamples
E. The level of the coursewas	
l.Toolow	5. Toohigh
F. The course contents compared with yourexpectati	
l.Tootheoretical	5. Tooempirical
G. The course exposed you to new knowledge and pra	
l.Stronglydisagree	5. Stronglyagree
H. Will you recommend this course to yourcolleagues	
l. Notatall	5. Verystrongly
THE CONDUCT OF THEMODLUE	
A. The lectures were clear and easy tounderstand	
l.Stronglydisagree	5. Stronglyagree
B. The teaching aids were effectivelyused	
l.Stronglydisagree	5. Stronglyagree
C. The course material handed out wasadequate	
l.Stronglydisagree	5. Stronglyagree
D. The instructors encouraged interaction and wereh	elpful
l.Stronglydisagree	5. Stronglyagree
E. Were objectives of the courserealized? YF. Please give overall rating of thecourse	
90% - 100% ()	60% - 70% ()
80% - 90% ()	50% - 60% ()
70% - 80% ()	below50% ()
Please comment on the strengths of the cour	se and the way it was conducted.

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

lease give suggestions for the improvement of the course.	
ptional - Your name and contact address:	
	Thank you!!