MINISTRY OF SCIENCE, HIGHER EDUCATION AND INNOVATIONS OF THE KYRGYZ REPUBLIC

OSH STATE UNIVERSITY

INTERNATIONAL MEDICAL FACULTY

DEPARTMENT OF CLINICAL DISCIPLINES 1

Syllabus

Specialty	General Medicine	Course Code	
Language of Instruction	English	Discipline (Subject)	Propaedeutics of internal diseases
Academic Year	2025-2026	Number of Credits	5
Lecturer Instructor	Phd, Assistant Professor Salieva Rana Abdilazizova Asema Azhimamatova Rakhima Kebekova Ayzat Madraimova Venera	Semester	IV
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Consultations (time/room)		Location	IMF2 308. 309. 313. 306.
Mode of Study	full-time	Course Type	Compulsory

Head of the basic educational program, PhD, Associate Professor _____ Bugubaeva M.M.

Osh, 2025

Course description: The course lasts 2 semesters and covers 150 hours of classes.

Purpose of the discipline

The purpose of teaching the subject "Internal diseases 1 (5^{th} semester)" is to form widely educated professionals who know the methods of research of patients with internal diseases, who know the diagnosis, symptomatology and General principles of treatment of the most common internal diseases in adults.

Prerequisites	Latin, chemistry, biochemistry, biology, normal anatomy, pathological anatomy, normal physiology, pathological physiology, pharmacology
Postrequisites	Internal diseases 2, 3, 4, surgical diseases 1, 2, children's diseases 1, 2, obstetrics and gynecology, neurology, family medicine, clinical pharmacology and other clinical disciplines.

Learning outcomes of the discipline

By the end of the course, the student:

LO (learning outcome) GEP	**LO disciplines**	**Competence**
LO3- is able to determine and implement the priorities of its own activities and ways to improve it on the basis of accepted moral and legal norms of society.	**Be able to:** understand and apply medical ethics, comply with legal and regulatory frameworks, preserve doctor-patient confidentiality and balancing professional obligations with legal requirements.	**PC-1** is capable and ready to comply with the rules of medical ethics, laws and regulations on working with confidential information, and to maintain medical confidentiality.
LO4-is capable of solving standard tasks using medical and technical equipment, information and communication resources and technologies/	**Be able to:** analize and solve routine tasks through the use of medical and technical equipment, as well as information and communication resources and technologies in patient examination.	**PC-7** - is capable and ready to work with medical and technical equipment used in the work of patients, to use the capabilities of modern information technologies to solve professional tasks.
LO5- is capable of assessing morphofunctional, physiological conditions and pathological processes and applying research methods for sick adults and children to solve professional problems.	**Be able to:** apply patient examination (inspection, palpation, percussion and auscultation) for the diagnosing adults and children to address professional challenges according to physiological and pathological conditions.	**PC-5-** is able and ready to conduct and interpret a survey, physical examination, clinical examination, the results of modern laboratory and instrumental sequences, write a medical record of an outpatient and inpatient patient of an adult and a child.
LO7- is able to apply basic knowledge in the field of diagnostic	**Be able to:** apply and interpret clinical, laboratory and	**PC-14** is capable and ready to make a diagnosis based on the results of

activities to solve professional problems.	instrumental diagnostic activities in clinical examination.	biochemical and clinical studies, taking into account the course of pathology in organs, systems and in general. **PC-15-** -is able and ready to analyze the patterns of functioning of individual organs and systems, use knowledge of anatomical and physiological features, basic methods of clinical and laboratory examination and assessment of the functional state of the body of an adult and children, for timely diagnosis of diseases and pathological processes.

4.Chart of Collection Points

credit	hours	ISW	Module 1(25 points)					Module 2 (25 points)					Exam
	40 %	60%	In-class hours		ISW/IWST		SC	In-class hours		ISW/IWST		SC	
			Lec.	Pr.				lec.	pr.				
5	60	90	16	18	45/9			8	18	30/6			(50 points)
Cumulative Points Chart			4	4	8	0	9	4	4	8	0	9	
Module and Exam Results			(M=tcp.+r+s) up to 25					(M=tcp.+r+s) up to 25					50
			Rдоп. = M1 + M2 (25+25)										
Final Grade													100

5.Calendar thematic plan

Calendar thematic plan for lecturer classes

№ **Week**	**topic title**	**Hours**	**Marks**	**Link**
	1-Module			
1	Purpose and objectives of propaedeutics of internal diseases. General principles of diagnosis of internal diseases. Diagnostic process. Diagnosis. Medical documentation. The main symptoms of diseases of the respiratory system: inspection, palpation, percussion, auscultation laboratory and instrumental methods of examination.	2	4	https://www.youtube.com/watch?v=PE0SakAEhDs ER[1,2,3,4] ET [1-2]
2	Syndrome of focal and massive lung tissue consolidation. Syndromes of cavities in the lung and bronchiectasis.	2	4	https://youtu.be/fDVYfYOdiFw?si=pF903RxFV3n2AnGH ER[1,2,3,4] ET [1-2]
3	Syndromes of bronchial obstruction and emphysema. Syndromes of accumulation of fluid and air the pleural cavity.	2	4	https://youtu.be/TEuSV_7gWA8?si=jxYJAOVzzH0HaY0g ER[1,2,3,4] ET [1-2]

4	Respiratory failure. Chronic pulmonary heart disease.	2	4	https://youtu.be/nwAqq1ajdjc?si=pM1yeJjZOHtLjkt0F ER[1,2,3,4] ET [1-2]
5	The main symptoms of diseases of the cardiovascular system detected during questioning, inspection, palpation, percussion, auscultation.	2	4	https://youtu.be/emZEWCbPQd0?si=ulIPhojFE0-3RGfN ER[1,2,3,4] ET [1-2]
6	Main symptoms of diseases of the cardiovascular system diseases determined by BP measurement. Specific symptoms of diseases of the cardiovascular system detected by laboratory research methods.	2	4	https://youtu.be/qJq5hA4pnOk?si=WObFxmty2kxH2djn ER[1,2,3,4] ET [1-2]
7	Specific symptoms of diseases of the cardiovascular system detected by ECG.	2	4	https://youtu.be/RYZ4daFwMa8?si=39vKKpvnJMTNMAzw ER[1,2,3,4] ET [1-2]
8	Specific symptoms of diseases of the cardiovascular system detected by echocardiography. Specific symptoms of diseases of the cardiovascular system detected by X-ray of the heart and coronary angiography.	2	4	https://youtu.be/NtqOZq62MkM?si=Ini-Og8sDZatl6Wa ER[1,2,3,4] ET [1-2]
	2-Module			
9	Syndromes of arterial hypertension and hypotension.	2	4	https://youtu.be/Qm5kB5X70oA?si=tiL9sWCUzzxd4Hsg https://youtu.be/hsBO5HoHqkI?si=YOS5JOei9JTYN6lx ER[1,2,3,4] ET [1-2]
10	Syndromes of coronary insufficiency. Symptoms of cardiomegaly.	2	4	https://youtu.be/EATkbpqlxvc?si=5mn2XorOQ-JQ9ueB ER[1,2,3,4] ET [1-2]
11	Rhythm and conduction disorders of the heart.	2	4	https://youtu.be/JhqVivwes_g?si=pLu_tdlessok6jOF ER[1,2,3,4] ET [1-2]
12	Syndromes lesions of the endocardium (valvular heart disease). Syndromes of myocardial and pericardial damage.	2	4	https://youtu.be/Wyxz0fgp6-A?si=fjgoc35SCDQwoESz ER[1,2,3,4] ET [1-2]
	Total hours / Average current score	**24h**	4	

Calendar thematic plan for practical classes

week	**topic title**	**Hours**	**Marks**			
			Marks *total*	**teaching methods**	**assessment methods**	***link***

	1-Module					
1	Goals and objectives of the subject "Internal Diseases". Basic and additional methods of examination. General inspection and examination of individual tissues and body parts of the patient. Questioning and examining patients with respiratory diseases. Identification of the main symptoms of respiratory diseases during questioning. Rules and techniques of examination of patients with respiratory diseases. Identification of main symptoms of respiratory diseases during inspection.	2	4	D-discussion, RPlay	DOPS T	https://www.youtube.com/watch?v=PE0SakAE-hDs
2	Palpation and percussion of the chest. Identification of main symptoms of respiratory diseases during palpation and percussion of the chest. Auscultation of the lungs. Normal and pathological respiratory sounds. Identification of main symptoms of respiratory diseases during auscultation of the lungs.	2	4	D. *TBL*	OS. APS DOPS	https://youtube.com/shorts/J12ECkh4U9o?si=smvQTXVxRzpQVig0
3	Laboratory and instrumental methods in pulmonology. Interpretation of laboratory test results in respiratory diseases. Identification of main symptoms of respiratory diseases during laboratory tests. Interpretation of instrumental test data in respiratory diseases. Identification of the main symptoms of respiratory diseases during instrumental examination.	2	4	D. TBL	T. OS.	https://www.youtube.com/watch?v=Xwh4M5LM8X4 https://www.youtube.com/watch?v=yJzbiVUL58Y
4	Main syndromes in pulmonology. Symptomatology and general principles of treatment syndrome of lung consolidation: Pneumonia. Lung cancer.	2	4	*D. CBL*	T. OS PSkills	https://www.youtube.com/watch?v=H7IYdIVWCqk https://www.youtube.com/watch?v=IAQp2Zuqeve
5	Syndrome of bronchial obstruction: Asthma. COPD. Emphysema.	2	4	D. CS	T. OS *BT*	https://www.youtube.com/watch?v=TEuSV_7gWA8 https://www.youtube.com/watch?v=ovv8intb9kY

6	Pleural syndrome. Anatomy & Physiology of the pleura. Pleural Effusion Syndrome. Dry (Fibrinous) Pleurisy. Pneumothorax syndrome. *Hydrothorax* syndrome.	2	4	CS, D	T-test. OS	https://www.youtube.com results?search_query Pneumothorax+Syndrome https://www.youtube.com/watch?v gASiQ2I_4KY
7	Questioning and examining patients with cardiovascular diseases.Rules for questioning patients in cardiovascular pathology. Identification of main symptoms of cardiovascular diseases during questioning. Techniques of physical examination of patients with cardiovascular diseases. Identification of main symptoms of cardiovascular diseases during inspection. Palpation and percussion of the heart. Identification of main symptoms of cardiovascular diseases during palpation of the heart. Methodology of examination and palpation of the heart area and large vessels. The apical impulse and its properties. Apical beat. Epigastric pulsation. Pulse and its characteristics. Methodology of percussion of the heart. Determination of the borders of relative and absolute cardiac dullness, heart contours and configuration, and the width of the vascular bundle. Diagnostic significance of determining heart size and changes in the borders of cardiac dullness.	2	4	D, RP	T-test. OS	https://www.youtube.com/watch?v em/EWCbPQd0
8	**Auscultation of the heart.** Techniques of auscultation in patients with cardiovascular diseases. Identification of main symptoms of cardiovascular diseases during cardiac auscultation. Heart sounds and their mechanisms. Diagnostic significance of changes in heart sound intensity. **Splitting and doubling of heart sounds. Gallop and summation rhythms.** Differentiation between organic (structural) and functional (physiological) murmurs, including intracardiac and extracardiac murmurs.	2	4	D, CS	T, OS. PSkills	https://www.youtube.com/watch?v=K_BWCw7s1Xo&t=67s
9	**Palpation and auscultation of vessels.** Examination of the arterial pulse. Determination of blood pressure. Techniques of vessel palpation and auscultation in cardiovascular diseases. Identification of main symptoms of cardiovascular diseases during vessel examination. Rules of arterial pulse examination. Identification of main symptoms of cardiovascular diseases during pulse evaluation. Blood pressure measurement. Identification of cardiovascular symptoms during blood pressure determination.	2	4	CS, D	T, OS. DOPS	https://www.youtube.com watch?v=y1oxuhAD05M

1-Module

10	Laboratory in cardiology. Main laboratory and instrumental diagnostic methods in cardiology. Lipid profile. Dyslipidemia. Brain natriuretic peptide. Electrolytes. Cardiac Biomarkers. **Troponin I / T.** CK-MB. C-reactive protein. Glucose / HbA1c . Thyroid hormones.	2	4	CS. D	T. PSkills	https://www.youtube.com/watch?v=ltddrgJy6lY https://www.youtube.com/watch?v loBxjfulVj0
11	Instrumental methods in cardiology Electrocardiography (ECG). Electrophysiological basis of ECG. Rules and techniques of ECG recording. Identification of main symptoms of cardiovascular diseases during ECG examination. Echocardiography (EchoCG). Rules and techniques of EchoCG recording. Identification of main symptoms of cardiovascular diseases during EchoCG examination. Normal parameters of laboratory and instrumental methods in cardiology. Interpretation of laboratory and instrumental findings in cardiovascular diseases and identification of main pathological symptoms.	2	4	CS. D	OS. T	https://www.youtube.com/watch?v=xIZQRjkwV9Q
12	Arrhythmias: clinical features, pulse, ECG. ECG in myocarditis, pericarditis, and cor pulmonale	2	4	CS, D. *BT*	T. OS	https://youtu.be/zD9aX/Y0pdY?si dRQzt3PtPugGojN
13	Heart defects: symptomatology, mechanisms of hemodynamic disturbances in mitral and aortic defects. Mitral valve stenosis. Mitral Regurgitation. Tricuspid valve stenosis/ Tricuspid valve Regurgitation. Aortic valve stenosis. Aortic valve Regurgitation. Pulmonary valve Regurgitation. Pulmonary valve stenosis. Rheumatic, sclerotic, syphilitic	2	4	CS. D	OS. T	https://youtu.be/BHtSysrnalk?si VTZe9SpVYqmHc/qS
14	Main syndromes in cardiology. Symptomatology and general principles of treatment of hypertension. Cardiac and hemodynamic disorders. Etiology and pathogenesis of hypertension. Clinical characteristics. Types of hemodynamic disorders. Hypertensive crisis, complications. Symptomatic hypertension. Cardiomegaly syndrome.	2	4	CS. D *.BT*	T. OS	https://www.youtube.com/watch?v RU0PNu_6r/ whttps://www.youtube.com/watch?v=Qm5kB5X70oA&t 116s https://www.youtube.com/watch?v= K1

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15	Myocarditis syndrome. Cardial syndrome. Arrhythmic syndrome. Inflammatory–toxic syndrome. Cardiomegaly syndrome. Thromboembolic syndrome (in severe cases).	2	4	CS, D, *BT*	OS, T	https://ww w.youtube .com/watc h?v 6I rp tveKYus &t=105s
16	Syndrome of pericardial disorders. Pain (pericardial) syndrome. Pericardial friction rub syndrome. Pericardial effusion syndrome. Cardiac tamponade syndrome (life-threatening). Restrictive (constrictive) syndrome. Inflammatory syndrome.	2	4	D, RP	OS, T	https://ww w.youtube. com/watch ?v=8WgE XW9C6us https://ww w.youtube .com/watc h?v=PMq eYZ4voks
17	Main syndromes in cardiology. Symptomatology and general principles of treatment of ischemic heart disease. Atherosclerosis and its forms. Diagnosis of different forms of atherosclerosis Ischemic heart disease and its main clinical manifestations. Stages of the process. Chronic forms of ischemic heart disease, diagnosis, and treatment principles. Acute forms of ischemic heart disease: angina pectoris, myocardial infarction, sudden cardiac death. Types and clinical features (by stages of the process). Dynamics of ECG and laboratory parameters. Complications of myocardial infarction: pathogenesis and symptomatology. Principles of treatment.	2	4	CS, D, *BT*	T, OS	https://ww w.youtube. com/watch ?v=nj1428 _JYzI https://ww w.youtube .com/watc h?v=zD9a XZY0pd Y https: ww w.youtube .com/watc h?v=PChi 3kqLK5k &t=66s
18	Syndrome of circulatory insufficiency: acute and chronic vascular and cardiac failure.	2	4	CS, D, TBL	OS, T	https://ww w.youtube .com/watc h?v=2aiR pr5UCZs https://ww w.youtube .com/watc h?v=b3O HSA71z7 U
2-Module						
	Total hours / Average current score	**36 h**	**4**			

Plan of organization IWST(independent work under the supervision of a teacher)
(lecture-6, prac.cl.-9)

№ week.	*Topic*	*Tasks for IWST*	*Hours of IWST*		*Marks*	Assessment tools	*Teach .techn*	*Reference.*	Deadline
			lect	*prac*					
1-3	Chronic obstructive pulmonary disease(COPD): principles of diagnosis and syndrome analysis.	To understand the etiology, pathophysiology, mechanisms of airflow limitation, to know the major syndromes associated with COPD, clinical manifestations, diagnosis, management, and complications.	*2*			*TOS*	*Case presentation*	https://pmc.ncbi.nlm.nih.gov/articles/PMC7723612/?utm_source=chatgpt.com	*1-2week*
2-3	The role of spirometry in evaluating respiratory function: interpretation of results. The role of X-ray and CT in diagnosing respiratory system disease.	Importance of lung function tests in diagnosing respiratory diseases. Spirometry: Definition, indications, procedure, interpretation of normal and abnormal results (obstructive vs. restrictive lung disease). X-ray & CT Scan: Their role in diagnosing lung pathologies, interpretation of common findings (pneumonia, tuberculosis, lung cancer, interstitial lung disease, etc.).		*3*		*OS. T*	*Video Presentation*	https://www.intechopen.com/books/9126?utm_source=	*3-4wee*
4-6	To write and protection a medical history on the topic of Coronary heart disease.	Write a detailed medical history of a patient with coronary artery disease (CAD). The document should include: Patient information, chief complaint, history of present illness, past medical history, physical examination findings, diagnostic tests: Laboratory results, stress test, angiography (if applicable). Treatment plan and prognosis.		*3*		*OS, T*	*Medical sheet*	https://www.cambridge.org/core/books/abs/cambridge-handbook-of-psychology-health-and-medicine/coronary-heart-disease/ADF1DAA3E019B491F221C79848DC902D1	*5-6wee*

Module 1									
10-11	Coronary heart disease syndrome: clinical manifestations, diagnostics, and modern approaches.	To understand the epidemiology and risk factors of CHD, to know the types, symptoms and differential diagnosis, modern approaches to treatment and management.	*2*			***OS, T***		https://www.cambridge.org/core/books/abs/cambridge-handbook-of-psychology-health-and-medicine/coronary-heart-disease/ADF1DAA3E019B49F221C79848DC902D1	*11-12week*
12-13	Pathophysiology and diagnosis of atherosclerosis. Modern approaches to assessing cardiovascular risk.	To understand pathophysiology of atherosclerosis, its diagnostic methods, and contemporary approaches to cardiovascular risk assessment.	*2*			***Test***	***BS,IL ID***	https://eas-society.org/publications/atherosclerosis-journal/	*12-13week*
12	Cardiogenic shock: causes, clinical manifestations and diagnostic algorithm.	Create a **10-15 minute video presentation** explaining a medical concept, disease, or procedure. Your presentation should be **clear, engaging, and evidence-based.**		*3*		***T, OS***	***Video Presentation***	Main 1.2.3.4 Add 6.7.8	*14-15week*
Module 2									
	всего		*6*	*9*	*4*				

Plan of organization IW (75 hours)

№	Topic	Task for ISW	Hours	Assessment tools	Marks	Reference	Deadline
1.	Methods for assessing gas exchange and oxygenation in patients with pulmonary pathologies.	Case history	10	T. OS	4	http://www.ifp.kiev.ua/doc/journals/aa/13/pdf13-4/eng/34_en.pdf	1-week
2.	Biochemical Biomarkers in CVD – Role of troponins, CK-MB, BNP, NT-proBNP in diagnosis and prognosis.Inflammatory Markers in Cardiovascular Risk Assessment – CRP, IL-6, IL-8, TNF-α, fibrinogen.	Referat	8	OS, T	4	https://pmc.ncbi.nlm.nih.gov/articles/PMC10822827/	2-week

3.	Lipid Profile Analysis – Total cholesterol, LDL, HDL, triglycerides, and their significance in atherosclerosis.	Case study	8	OS, T	4	https://assets.cureus.com/uploads/review_article/pdf/329812/20250305-171177-72pwz3.pdf	3-week
4.	Electrocardiography (ECG) in CVD Diagnosis – Detecting arrhythmias, ischemia, and myocardial infarction.	Case history	10	OS, T	4	https://pmc.ncbi.nlm.nih.gov/articles/PMC9820080/?utm_source	4-week
5.	Blood pressure: measurement technique, normal values and pathological changes. Pulse: types, clinical significance and examination methods.	Video presentation	10	OS, T	4	https://pmc.ncbi.nlm.nih.gov/articles/PMC6647819/?utm_source=	5-week
		Module 1					
6.	Diagnostic significance of biochemical markers in heart diseases. Biochemical markers of myocardial damage: troponins, CK-MB, myoglobin. Natriuretic peptides (BNP, NT-proBNP) in hart failure.	Video presentation	10	OS, T	4	https://pubmed.ncbi.nlm.nih.gov/39654943/	10-week
7.	Symptomatology of CHD-2 (acute coronary syndrome and myocardial infarction).	Case history	10	OS, T	4	https://pmc.ncbi.nlm.nih.gov/articles/PMC4975226/?utm_source=	11-week
8.	Lipid profile and its significance in the diagnosis of atherosclerosis and ischemic heart disease. Inflammatory markers (C-reactive protein, erythrocyte sedimentation rate) in myocarditis, endocarditis, pericarditis.	Case study	8	OS, T	4	https://bmccardiovascdisord.biomedcentral.com/articles/10.1186/s12872-020-01835-0?utm_source=	11-week
9.	Echocardiography (EchoCG): assessment of heart chamber size, contractility, and valvular apparatus.	Referat	2	OS, T	4	https://www.msdmanuals.com/professional/cardiovascular-disorders/c	12-week

						oronary-artery-disease/overview-of-acute-coronary-syndromes-acs?rulered irectid=742 &utm_source	
Module 2							
			75h		**4 marks**		

Teaching methods: LV-lectures-visualizations, D- discussion, P- presentation, BS - brainstorming method, RPG - role-playing games, PBL -Problem-Based Learning, , *CBL - Case-Based Learning, TBL - Team-Based Learning, RBL - Research-Based Learning, SP-Standardized Patient, BT-bedside teaching.*
Assessment method: T-test, OS-oral survey, CS-case study, , Kahoot, DOPS -Direct Observation of Procedural Skills. OS-oral survey, APS - assessment of practical skills, self-assessment
The organization of the educational process is carried out on the basis of a credit-modular system according to the requirements, with the use of a modular rating system for assessing the progress of students using the AVN information system.

Requirements:	**Unacceptably:**
a) Mandatory attendance; b) Activity during lectures and practical classes; C) Preparation for classes, homework and IW	a) being Late and leaving universityl: b) Use of cell phones during classes: C) Untimely delivery of tasks.

Bonus points consist of activity in the classroom, performing extracurricular independent work by students, scientific work, attendance of lectures.

Bonus points.	**Penalty point.**
1. Preparation of presentations – 1 points. 2. Production of stands – 1 points. 3.Production of tables: -1 point. 4.Preparation of abstract messages – 1 point. 5.Systematic active work during the semester in practical classesand in lectures - 2 points. 6. 100% attendance-1 points 7.Participation in the work of the SSC - 5 points 8.Preparation of the report and presentation at student conferences - 5 points	1.Regular lateness to classes – 1 point. 2.Missed lectures and classes - 2 points 3.Disrespectful attitude to medical personnel, patients, teacher-2 points. 4.Smoking on the territory of the medical institution - 2 points. 5.Untidy appearance, lack of Bathrobe, cap, replacement shoes - 1 point. 6.Damage to the Cathedral property - 2 points 7.A systematic lack of preparation for practical classes - 2 points. 8.Violation of discipline classes - 1 point

Note: a student can score a maximum of 10 bonus points and penalty points not more than 10 (per semester).

Reference

Electronic resources	1.https://www.cochranelibrary.com/ 2.https://www.tripdatabase.com/ 3. https://www.tandfonline.com/toc/ilal20/current 4. https://professional.diabetes.org/standards-of-care/practice-guidelines-resources
Electronic textbooks	https://ibooks.oshsu.kg/book/?lg=1&id_parent=50&id1=1832&id4= https://ibooks.oshsu.kg/book/?lg=1&id_parent=50&id1=1881&id4
Учебники (библиотека)	**Main reference:** 1. «Propaedeutics of Internal medicine» (textbook for students of medical faculty). A. I. Mamasaidov, Osh 2018. P.182-185. 2. History taking in clinical practice. Krsna Mahbubani West Hampstead Medical Centre London, UK 2023 3. Evidence-Based Physical Examination HANDBOOK Kate Sustersic Gawlik DNP, APRN-CNP, FAANP Bernadette Mazurek Melnyk PhD, APRN-CNP, EBP-C, FAANP, FNAP, FAAN Alice M. Teall DNP, APRN-CNP, FAANP 2022 4. Clinical examination A systematic guide to physical diagnosis Seventh edition Nicholas J Talley 5. Harrisons PRICIPLES OF INTERNAL MEDICINE// Fauci AS, Braunwald E, Kasper DL, Longo DL, Jameson JL, Loscalzo J. //22nd ed. McGraw Hill; 2025. 6. Davidsons Principles & Practice of Medicine//Nicki R. College. Brain R. Walker. Stuart H. Ralston//24th Edition 2022 7. Wilkinson I, Raine T, Wiles K, Goodhart A, Hall C, O'Neill H. *Oxford Handbook of Clinical Medicine.* 11th ed. Oxford University Press; 2024. 8.CURRENT Medical Diagnosis and Treatment_// Maxine A. Papadakis, MD Stephen J McPhee, MD// 64 ed 2025 9. First Aid USMLE Step 2 2023 **Additional reference:** Respiratory Medicine 1. Collins B, Montesi S (eds). *Precision Medicine in Interstitial Lung Disease.* Springer; 2025. 2. Lechtzin N (ed). *Pulmonary Complications of Neuromuscular Disease.* Springer; 2024. 3. Dixon AE, Forno E (eds). *Obesity and Lung Disease: A Guide to Pathophysiology, Evaluation, and Management.* Springer; 2024. 4. Sorino C, Agati S (eds). *Rare and Interstitial Lung Diseases: Clinical Cases and Real-World Discussions.* Springer; 2024. 5. Fan E, Fernando SM, Sahetya S (eds). *Acute Respiratory Distress Syndrome.* Clinics in Chest Medicine; 2025. **Cardiology & Critical Care** 6. Sabatine MS. *Pocket Cardiology.* 3rd ed. Wolters Kluwer; 2024. 7. Marino PL. *The ICU Book.* 5th ed. Wolters Kluwer; 2024. 8. Klein AL, Asher CR. *Clinical Echocardiography Review.* 3rd ed. Wolters Kluwer; 2024. 9. Kollef MH, Isakow W, Oropello JM (eds). *The Washington Manual of Critical Care.* 4th ed. Wolters Kluwer; 2024