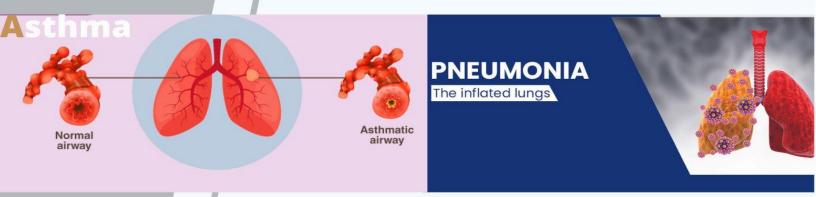
STUDY GUIDE-THIRD YEAR MBBS

15th August- 8th September 2022

Duration: 4 Weeks



RESPIRATORY MODULE II







STUDY GUIDE FOR RESPIRATORY II MODULE

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Module name: Respiratory II Year: Three Duration: 4 weeks (Aug-Sep 2022)

Timetable hours: Lectures, Case-Based Integrated Learning (CBIL), Clinical Rotations, learning experience in LNH outreach centers, Laboratory, Practical, Demonstrations, Skills, Self-Directed Learning

MODULE INTEGRATED COMMITTEE

MODULE COORDINATOR:	Prof. Syed Mukkaram Ali (Forensic Medicine)
CO-COORDINATORS:	Dr. Sadia Qayyum (Forensic Medicine)Dr. Afifa Tabassum (DHPE)

DEPARTMENTS & RESOURCE PERSONS

	BASIC HEALTH SCIENCES	
COMMUNITY MEDICINE Dr. Saima Zainab		
	FORENSIC MEDICINE Professor. Syed Mukkaram Ali	
	MICROBIOLOGY Professor Shaheen Sharafat	
	PATHOLOGY Professor Naveen Faridi	
	PHARMACOLOGY Professor Tabassum Zehra	
DEPA	ARTMENT of HEALTH PROFESSION	IS EDUCATION
Professor NighatHudaDr. Sana Shah	Professor Sobia Ali	• Dr. Afifa Tabassum
LNH&MC MANAGEMENT		
Professor K.U. Makki, Principal, LNH&MC		
Dr. Shaheena Akbani, Director A.A & R.T LNH&MC		

STUDY GUIDE COMPILED BY: Department of Health Professions Education

INTRODUCTION

WHAT IS A STUDY GUIDE?

It is an aid to:

- Inform students how student learning program module has been organized
- Help students organize and manage their studies throughout the module
- Guide students on assessment methods, rules and regulations

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, clinical skills, demonstration,
 tutorial and case based learning that will be implemented to achieve the module objectives.
- Provides a list of learning resources such as books, computer assisted learning programs, web- links and journals for students to consult in order to maximize their learning.
- Highlights information on the contribution of continuous and Term examinations on the student's overall performance.
- Includes information on the assessment methods that will be held to determine every student's achievement of objectives.
- Focuses on information pertaining to examination policy, rules and regulations.

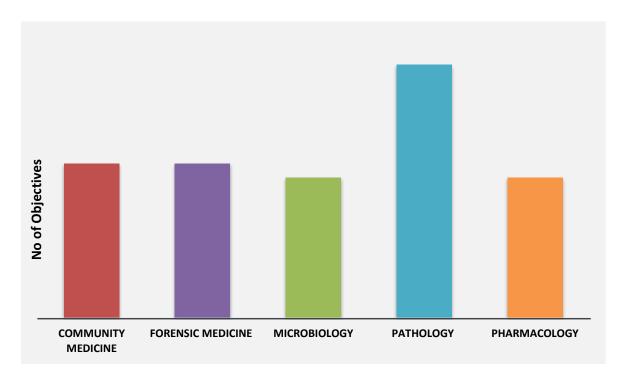
CURRICULUM FRAMEWORK

Students will experience integrated curriculum.

INTEGRATED CURRICULUM comprises of system-based modules such as Foundation II, Blood-II, Locomotor II, Respiratory system-II, CVS-II and GIT Liver II which links basic science knowledge to clinical problems. Integrated teaching means that subjects are presented as a meaningful whole. Students will be able to have better understanding of basic sciences when they repeatedly learn in relation to clinical examples.

LEARNING EXPERIENCES: Case based integrated discussions, skills acquisition in skills lab. Computer-based assignments, learning experiences in clinics, wards, and outreach centers

INTEGRATING DISCIPLINES OF RESPIRATORY MODULE-II



LEARNING METHODOLOGIES

The following teaching / learning methods are used to promote better understanding:

- Interactive Lectures
- Small Group Discussion
- Case- Based Integrated Learning (CBIL)
- Clinical Experiences
 - Clinical Rotations
- Practicals
- Skills session
- Self-Directed Learning

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

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

CASE- BASED INTEGRATED LEARNING (CBIL): A small group discussion format where learning is focused around a series of questions based on a clinical scenario. Students' discuss and answer the questions applying relevant knowledge gained previously in clinical and basic health sciences during the module and construct new knowledge. The CBIL will be provided by the concern department. CBIL will be provided by the concern department.

CLINICAL LEARNING EXPERIENCES: In small groups, students observe patients with signs and symptoms in hospital wards, clinics and outreach centers. This helps students to relate knowledge of basic and clinical sciences of the module and prepare for future practice.

CLINICAL ROTATIONS: In small groups, students rotate in different wards like Medicine, Pediatrics, Surgery, Obs & Gyne, ENT, Eye, Family Medicine clinics, outreach centers & Community Medicine experiences. Here students observe patients, take histories and perform supervised clinical examinations in outpatient and inpatient settings. They also get an opportunity to observe medical personnel working as a team. These rotations help students relate basic medical and clinical knowledge in diverse clinical areas.

PRACTICAL: Basic science practicals related to pharmacology, microbiology, forensic medicine, and community medicine have been schedule for student learning.

SKILLS SESSION: Skills relevant to respective module are observed and practiced where applicable in skills laboratory.

SELF DIRECTED LEARNING: Students' assume responsibilities of their own learning through individual study, sharing and discussing with peers, seeking information from Learning Resource Center, teachers and resource persons within and outside the college. Students can utilize the time within the college scheduled hours of self-directed learning.

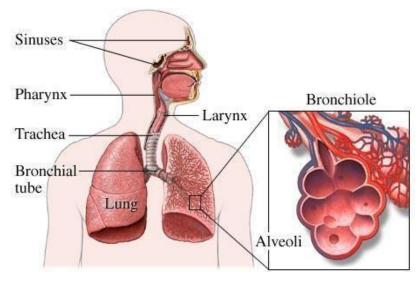
MODULE 4: RESPIRATORY II

RATIONALE

The Respiratory System II (RES II) module is designed to consolidate, and build on the First year Respiratory I module which covered basic medical sciences concepts for understanding the causes and treatment of diseases.

Tuberculosis is considered to be a major cause of ill health in Pakistan. The annual incidence rate of infectious Tuberculosis cases is estimated to be between 85-100/100,000 persons. The exact prevalence of COPD in Pakistan is not known, but a large number of patients attend outpatient and emergency departments across most of the country. The socio economic burden of COPD is considerable. A part from smoking, urban air pollution is an important cause of COPD. Pakistan at present falls in to a low risk lung cancer region in females and a moderate risk region for males and the highest registered increase between 1995 and 2002 was observed in the older age groups (65+).

RES (II) will focus on the respiratory system, its associated diseases, treatment options, and prevention of the diseases such as obstructive lung diseases, hypersensitivity related diseases, pulmonary infections, respiratory failure and restrictive lung diseases. The community medicine learning will aim at sessions on preventive medicine and various program such as TB, DOTS and National tuberculosis control program of Pakistan. The module will enable students to relate their theoretical knowledge to real practice through common clinical presentations, case-based discussions, interactive lectures, patient interactions and simulated-based learning.



- 1. DeMuynckA, SiddiqiS, GhaffarA, SadiqH. Tuberculosis controlin Pakistan: critical analysis of its implementation. JPak Med Assoc. 2001 Jan; 51(1):41-7.
- 2. AnwarSK, Mehmood N, Nasim N, Khurshid M, Khurshid B. Sweeper's lungdisease: across-sectional study of an overlooked illness among sweepers of Pakistan. International journal of chronic obstructive pulmonary disease. 2013; 8:193
- 3. BhurgriY,BhurgriA,UsmanA,SheikhN,FaridiN,MalikJ,AhmedR,KayaniN,PervezS,HasanSH.Patho-epidemiology of lung cancer in Karachi (1995-2002). Asian Pacific journal of cancer prevention. 2006 Jan 25;7(1):60.

COURSE OBJECTIVES AND STRATEGIES

At the end of the module the students will be able to:

COMMUNITY MEDICINE

TOPICS & OBJECTIVES	LEARNING STRATEGIES
1. Introduction to Occupational health & Diseases	
Describe occupational health	
Classify occupational health diseases	
Discuss measures for prevention and control of occupational health diseases	
Describe Lead poisoning	
2. Pneumoconioses and its prevention	
Define pneumoconioses	
List pneumoconioses diseases	Tutorial
Discuss the control and prevention of pneumoconioses	Tutoriai
3. Pulmonary tuberculosis and its prevention	
Discuss the causative organism of tuberculosis	
Explain why Tuberculosis remains a world-wide problem	
List Epidemiological Indices of tuberculosis	
Explain TB-DOTS Therapy	
Discuss Tuberculosis situation in Pakistan	
Discuss the control and prevention of tuberculosis	
4. Asthma and its prevention	
Describe Asthma	
Explain the clinical features & diagnosis criteria of Asthma	
Discuss the control and prevention of Asthma	
5. Chicken pox and its prevention	
Describe Chicken pox disease	
Describe the epidemiology, clinical features and diagnosis criteria of Chicken pox	
Discuss the control and prevention of Chicken pox	
6. Influenza and its prevention	1.1
Describe influenza	Interactive Lecture
Discuss the history of Spanish flu pandemic	Lecture
Describe the epidemiology, clinical features and diagnosis criteria of influenza	
Discuss the control and prevention of influenza	
7. Diphtheria and its prevention	
Discuss the epidemiology of Diphtheria	
Explain the risk factors, consequences & clinical features of Diphtheria	
Discuss the control and prevention of Diphtheria	
8. Measles and its prevention	
Describe the etiology, epidemiology and clinical features of measles	

Tutorial

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Explain the diagnostic criteria of measles	
Discuss the control and prevention of measles	
9. Pertussis and its prevention	
Describe the etiology, epidemiology and clinical features of pertussis	
Explain the diagnostic criteria of pertussis	

10. Air Pollution

- Discuss the situation of air pollution
- List the sources of air pollution
- Explain the effects of air pollution on health

• Discuss the control and prevention of pertussis

- Discuss the concept of greenhouse effects
- Describe the concept of global warming and ozone depletion
- Discuss the methods to control air pollution

11. Pneumonia, SARS & COVID-19

- Define pneumonia
- Classify different types of pneumonia
- Explain the mode of transmission and predisposing factors of pneumonia
- Describe the measures for control and prevention of Pneumonia and SARS
- Describe COVID-19
- Discuss the epidemiology of COVID-19
- Explain clinical features of COVID-19
- Describe the measures for control and prevention of COVID-19

FORENSIC MEDICINE

TOPICS & OBJECTIVES	LEARNING STRATEGIES
1. Asphyxia I	
Define asphyxia	
Summarize the etiology, pathophysiology and classic signs of asphyxia	
Enumerate the different types of asphyxia and violent asphyxial deaths	
Classify tissue anoxia according to Gordon's classification	
List the different types of hanging	
Explain the autopsy findings and medicolegal importance of hanging	
Differentiate between ante-mortem and post-mortem hanging	Interactive
2. Asphyxia II	Lecture
Diagnose strangulation, throttling, suffocation, smothering, gagging and choking based on scenarios	Leotare
Discuss the mechanism, diagnostic features, and autopsy findings of traumatic asphyxia	
3. Asphyxia III	
Define the types, mechanism and postmortem findings of drowning]
Describe the causes of death due to drowning	
Highlight the importance of diatoms in deaths by drowning	
Define Sexual asphyxia (auto-erotic hanging)	

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4. Toxicology- Organophosphate insecticides poisoning	
List commonly used insecticides	
Classify organophosphate compounds]
Describe the mode of action, signs and symptoms, treatment, postmortem findings and medico legal importance of organophosphate and Carbamate poisoning	
5. Toxicology- Chloro group of insecticides (D.D.T.)	
Describe the mode of action, signs, symptoms, treatment and postmortem findings of DDT Poisoning	
6. Spinal Poisons	
Describe the mode of action, signs and symptoms, treatment, postmortem findings and medico legal aspects of poisoning by Strychnine and other spinal poisons	Tutorial
7. Barbiturates and tranquilizers	
 Describe the mode of action, signs and symptoms depending upon concentration in blood, treatment and postmortem findings of poisoning by Barbiturates and tranquilizers (therapeutic poisons) 	Interactive Lecture
8. Toxicology- Irrespirable /Asphyxiants gases I (CO2 & Sewer gas poisoning)	
Describe the mode of action, signs and symptoms, treatment, postmortem findings and medico legal aspects of CO2 & sewer gas poisoning	
9. Toxicology- Irrespirable/Asphyxiants gases II (Carbon monoxide, Hydrogen sulphide and War gases poisoning)	
List the sources of Carbon monoxide	
Describe the mode of action, signs and symptoms, treatment, postmortem findings and medico legal aspects of Carbon monoxide and hydrogen Sulphide poisoning	
Classify war gases	Tutorial
Describe lacrimators and their treatment	
10. Toxicology-Aluminum Phosphide & Paraquat poisoning	
List the sources of Aluminum phosphide and Paraquat]
• Describe the mode of action, signs, symptoms, treatment, postmortem findings and medico legal	
aspects of Aluminum phosphide and Paraquat poisoning	
11. Toxicology Naphthalene Poisoning	
Describe the mode of action, signs, symptoms, treatment, postmortem findings and medico legal	
aspects of Naphthalene poisoning	

PATHOLOGY

TOPICS & OBJECTIVES	LEARNING STRATEGIES
1. Congenital Anomalies of respiratory system, Atelectasis, Pulmonary edema	
Define Atelectasis and Pulmonary edema	
List the types of congenital anomalies, Atelectasis and Pulmonary edema	
Describe the embryologic pathology, microscopic and clinical features of Congenital anomalies of	Interactive
Respiratory system	Lecture
• Discuss the classification, pathogenesis, morphology, causes and clinical features of Atelectasis	
and Pulmonary edema	
Differentiate between pathogenesis of hemodynamic and micro vascular alveolar injury	

2. Acute lung injury (ALI) and acute respiratory distress syndrome (ARDS)

- Define ARDS and ALI
- List the conditions associated with development of ARDS
- Discuss pathogenesis, morphological and clinical features of ARDS / ALI

3. Obstructive lung diseases I (emphysema, chronic bronchitis)

- Define emphysema and chronic bronchitis
- Classify emphysema
- Describe the various clinical forms of emphysema.
- Discuss the etiology, pathogenesis, morphology and clinical features of emphysema and chronic bronchitis

4. Obstructive lung diseases II (asthma, and bronchiectasis)

- Define asthma and bronchiectasis
- Classify asthma
- List the causes of asthma and bronchiectasis
- Discuss the etiology, pathogenesis, morphology and clinical features of asthma and bronchiectasis

5. Chronic Interstitial restrictive lung diseases

- Define restrictive diseases of lung (idiopathic pulmonary fibrosis, Nonspecific Interstitial Pneumonia, Cryptogenic Organizing Pneumonia, pneumoconioses and Pulmonary Involvement in Autoimmune Diseases)
- Classify restrictive diseases of lung
- Discuss the etiopathogenesis, morphology and clinical features of Chronic Interstitial restrictive lung diseases (idiopathic pulmonary fibrosis, Nonspecific Interstitial Pneumonia, Cryptogenic Organizing Pneumonia, pneumoconioses and Pulmonary Involvement in Autoimmune Diseases)

6. Pneumoconioses

- Define Pneumoconioses
- List the causative agents of Pneumoconioses
- Discuss the pathogenesis, morphology and clinical features of Pneumoconioses

7. Granulomatous diseases (Sarcoidosis, hypersensitivity pneumonitis, pulmonary eosinophilia, Smoking related interstitial diseases)

- Define granulomatous diseases (Sarcoidosis)
- Classify granulomatous diseases (Sarcoidosis)
- Discuss the pathogenesis, morphology and clinical features of Granulomatous diseases

8. Pulmonary Infections (Pneumonia)

- Define pneumonia
- Classify pneumonia. (community acquired pneumonia, hospital acquired pneumonia, healthcare associated pneumonia, aspiration pneumonia, chronic pneumonia, necrotizing pneumonia and pneumonia in the immunocompromised host)
- Discuss the morphology, pathogenesis, clinical features and diagnosis of Pulmonary Infections (Pneumonia)
- Discuss briefly aspiration pneumonia and lung abscess

9. Pulmonary tuberculosis

- Define Pulmonary tuberculosis
- Discuss the morphology, pathogenesis, clinical features (primary, secondary latent and miliary) laboratory investigations of pulmonary tuberculosis

3rd YEAR MBBS, RESPIRATORYII MODULE

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10. Lung Tumors	
Describe lung tumors (Squamous cell carcinoma, small cell carcinoma, adenocarcinoma, large cell	
carcinoma)	
Classify lung tumors according to WHO	
Discuss the risk factors, pathogenesis, morphology, clinical features of lung tumors	
Discuss briefly the staging & grading of carcinoma	
11. Pleural pathology (pleural effusion, Pneumothorax, pleural tumors)	Interactive
Discuss briefly pleural effusion and pneumothorax	Lecture/
Discuss the pathogenesis, morphology and clinical course of pleural tumors	Tutorial
12. Pulmonary vascular diseases	
Define pulmonary vascular diseases (pulmonary embolisms, hemorrhage, infarction, hypertension)	Interactive
and diffuse pulmonary hemorrhage syndrome)	Lecture
List the risk factors of pulmonary vascular disease	Lecture
Discuss the pathogenesis, morphology and clinical features of pulmonary vascular disease	
13. Histopathology of Chronic Obstructive Pulmonary Disease (COPD)	
Discuss the histopathology of Chronic Obstructive Pulmonary Disease	
14. Histopathology of pneumonia	
Discuss the etiology and morphology of pneumonia.	
15. Histopathology of Pulmonary Tuberculosis	
Discuss detailed morphology and pathogenesis of Pulmonary Tuberculosis	Practical
16. Pathology of lung tumors	Fractical
Discuss the etiology, morphology and manifestations of lung tumors.	
17. Types of Hemolysis	
Discuss the types of hemolysis on blood agar	
18. Acid Fast Staining	
Discuss the principle, procedure and result of acid fast staining	

MICROBIOLOGY

TOPICS & OBJECTIVES	LEARNING STRATEGIES
1. Classification of streptococci and Streptococcus Pneumoniae	
Discuss the classification of streptococci and important properties, transmission, epidemiology, & pathogenesis of Streptococcus pneumoniae	
Describe clinical findings and laboratory diagnosis of Streptococcus pneumoniae infection	
Discuss treatment and prevention of Streptococcus pneumoniae infection	Interactive
2. Fungi Causing Pneumonia (Coccidioides, Histoplasma, Blastomyces, Paracoccidioides, Aspergillus, Pneumocystis, Mucor and Rhizopus)	
Discuss the properties of fungi causing systemic fungal diseases	
• Discuss the process of transmission, pathogenesis, and clinical findings of these fungal infections	
Discuss the epidemiology of these fungal infections	
Discuss the laboratory diagnosis, treatment and prevention of fungi causing pneumonia	

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3. Mycobacterium Tuberculosis

- Discuss the important properties, transmission, epidemiology, & pathogenesis of Mycobacterium Tuberculosis and Mycobacterium Leprae
- Describe clinical findings and laboratory diagnosis of M. Tuberculosis and M. Leprae
- Discuss treatment and prevention of M. Tuberculosis and M. Leprae

4. Mycobacterium Leprae and Atypical Mycobacteria

- Discuss the important properties, transmission, epidemiology, & pathogenesis of Mycobacterium Leprae
- Describe clinical findings and laboratory diagnosis of M. Leprae
- Discuss treatment and prevention of M. Leprae
- Describe briefly Atypical Mycobacteria

5. Gram positive rods ((Corynebacterium diphtheriae and Listeria monocytogenes, Bacillus and Clostridium)

- Discuss the important properties, transmission, epidemiology, & pathogenesis of (Corynebacterium diphtheriae and Listeria monocytogenes, Bacillus and Clostridium
- Describe the clinical findings and laboratory diagnosis of infections caused by these bacteria
- Discuss treatment and prevention of Corynebacterium diphtheriae and Listeria monocytogenes, Bacillus and clostridium

6. Gram negative rods (Haemophilus, Bordetella, Legionella)

- Discuss the important properties, transmission, epidemiology, & pathogenesis of Gram negative rods
- Describe clinical findings and laboratory diagnosis of Gram negative rods
- Discuss treatment and prevention of Gram negative rods

7. Respiratory viruses (Influenza and Parainfluenza, Respiratory Syncytial virus Coxsackie, Adenoviruses, SARS AND SARS II COVID 19)

- Discuss the important properties, transmission, epidemiology, & pathogenesis of respiratory virus.
- Describe replication cycle, clinical findings and laboratory diagnosis of respiratory virus
- Discuss treatment and prevention of respiratory virus
- Discuss SARS & SARS II (COVID 19)

8. Childhood viruses (Measles, Mumps, Rubella)

- Discuss the important properties, transmission, epidemiology, & pathogenesis of childhood viruses
- Describe replication cycle, clinical findings and laboratory diagnosis of childhood viruses
- Discuss treatment and prevention of childhood viruses

9. Respiratory virus Parainfluenza (adeno, Corona, rhino)

- Discuss the important properties, transmission, epidemiology, & pathogenesis of Parainfluenza virus
- Describe replication cycle, clinical findings and laboratory diagnosis of parainfluenza virus
- Discuss treatment and prevention of parainfluenza virus

10. Bacteria causing atypical pneumonia (nocardia, actinomycetes and mycoplasma)

- Define atypical pneumonia
- Discuss the important properties, pathogenesis of Actinomycetes and Mycoplasma
- Describe clinical findings and laboratory diagnosis of Actinomycetes and Mycoplasma
- Discuss treatment and prevention of Actinomycetes and Mycoplasma

PHARMACOLOGY

TOPICS & OBJECTIVES	LEARNING STRATEGIES
1. Drugs used in the treatment of Bronchial Asthma & COPD	
Classify drugs used in the treatment and prevention of bronchial asthma and COPD	
Discuss the treatment of bronchial asthma and COPD.	
Discuss the basic and clinical pharmacology of drugs used in the treatment of bronchial asthma	
2. Drug used in the treatment of Tuberculosis and Leprosy	
Classify anti-tuberculosis and anti-leprosy drugs	
Discuss the therapeutic classification of Anti-Tuberculosis Therapy (ATT) according to WHO	
Describe mode of action, toxicity and contraindications of ATT	
Describe the drugs used in multi-drug resistant tuberculosis	
Explain the drug management of extensive multi-drug resistant tuberculosis	Interactive Lecture/ Tutorial
Describe the mode of action, pharmacokinetics, toxicity, contraindications and	Tutoriai
drug-drug interactions of anti-leprosy drugs	
Discuss anti-tuberculosis and anti-leprosy drugs with regards to their basic and	
clinical pharmacology	
3. Histamine & Anti-Histamines	
Discuss the properties and role of histamine	
Classify anti-histamines	
Discuss their basic & clinical pharmacology	
4. Anti-Tussives & Mucolytics (Expectorants)	
Describe the anti-tussives & mucolytic drugs	
Discuss their basic and clinical pharmacology	
• Explain the role of anti-tussives and mucolytic drugs in respiratory tract diseases.	
Discuss the basic and clinical pharmacology of anti-tussives and mucolytic drugs	
5. Methods of Administration of drugs in treatment of bronchial Asthma	
Demonstrate the different methods of administration of drugs used in the	
treatment of bronchial asthma	
Discuss their clinical importance	Practical
6. Effects of Histamine and Anti-histamine/Salbutamol on isolated trachea of Rabbit	riactical
Demonstrate the pharmacological action of histamine and anti-histamine drugs on isolated trachea of Rabbit	
Compare these actions with Salbutamol by using Power Lab System	

LEARNING RESOURCES

SUBJECT	RESOURCES
COMMUNITY MEDICINE	TEXT BOOKS 1. Community Medicine by Parikh 2. Community Medicine by M Illyas 3. Basic Statistics for the Health Sciences by Jan W Kuzma TEXT BOOKS
FORENSIC MEDICINE	 Nasib R. Awan. Principles and practice of Forensic Medicine 1st ed. 2002. Parikh, C.K. Parikh's Textbook of Medical Juris prudence, Forensic Medicine and Toxicology. 7th ed. 2005. REFERENCE BOOKS Knight B. Simpson's Forensic Medicine. 11thed. 1993. Knightand Pekka. Principles offorensic medicine. 3rded. 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. 4the dition. 2010. Rao. Atlas of Forensic Medicine (latest edition). Rao. Practical Forensic Medicine 3rd ed, 2007. Knight: Jimpson's Forensic Medicine 10th 1991, 11thed. 1993 Taylor's Principles and Practice of Medical Juris prudence. 15th ed. 1999 CDs: Lectures on Forensic Medicine. Atlas of Forensic Medicine. WEBSITES: www.forensic medicine.co.uk
PATHOLOGY/MICROBIOLOGY	TEXT BOOKS 1. Robbins & Cotran, Pathologic Basis of Disease, 9 th edition. 2. Rapid Review Pathology, 4 th edition by Edward F. Goljan MD WEBSITES: 1. http://library.med.utah.edu/WebPath/webpath.html 2. http://www.pathologyatlas.ro/
PHARMACOLOGY	TEXT BOOKS 1. Lippincot Illustrated Pharmacology 2. Basic and Clinical Pharmacology by Katzung

ASSESSMENT METHODS:

- Best Choice Questions(BCQs) also known as MCQs (Multiple Choice Questions)
- Objective Structured Practical/Clinical Examination (OSPE or OSCE)

Internal Evaluation

- Students will be assessed comprehensively through multiple methods.
- 20% marks of internal evaluation will be added to JSMU final exam. That 20% may include class tests, assignment, practicals and the internal exam which will all have specific marks allocation.

Formative Assessment

Individual department may hold quiz or short answer questions to help students assess their own learning. The marks obtained are not included in the internal evaluation

For JSMU Examination Policy, please consult JSMU website!

More than 75% attendance is needed to sit for the internal and final examinations



LNH&MC EXAMINATION RULES & REGULATIONS

- Student must report to examination hall/venue, 30 minutes before the exam.
- Exam will begin sharp at the given time.
- No student will be allowed to enter the examination hall after 15 minutes of scheduled examination time.
- Students must sit according to their roll numbers mentioned on the seats.
- Cell phones are strictly not allowed in examination hall.
- If any student is found with cell phone in any mode (silent, switched off or on) he/she will be not be allowed to continue their exam.
- No students will be allowed to sit in exam without University Admit Card, LNMC College ID Card and Lab Coat
- Student must bring the following stationary items for the exam: Pen, Pencil, Eraser, and Sharpener.
- Indiscipline in the exam hall/venue is not acceptable. Students must not possess any written material or communicate with their fellow students.

SCHEDULE:

WEEKS	3 RD YEAR	MONTH
		15 th August 2022
4 WEEKS	RESPIRATORY II MODULE	
		8 th September 2022
		12 th September 2022
5 WEEKS	CARDIOVASCULAR II MODULE	
		October 2022*
		October 2022*
6 WEEKS	GIT & LIVER II MODULE	
		November 2022*
PRE PROF. EXAMINATION*		

^{*}Final dates will be announced later