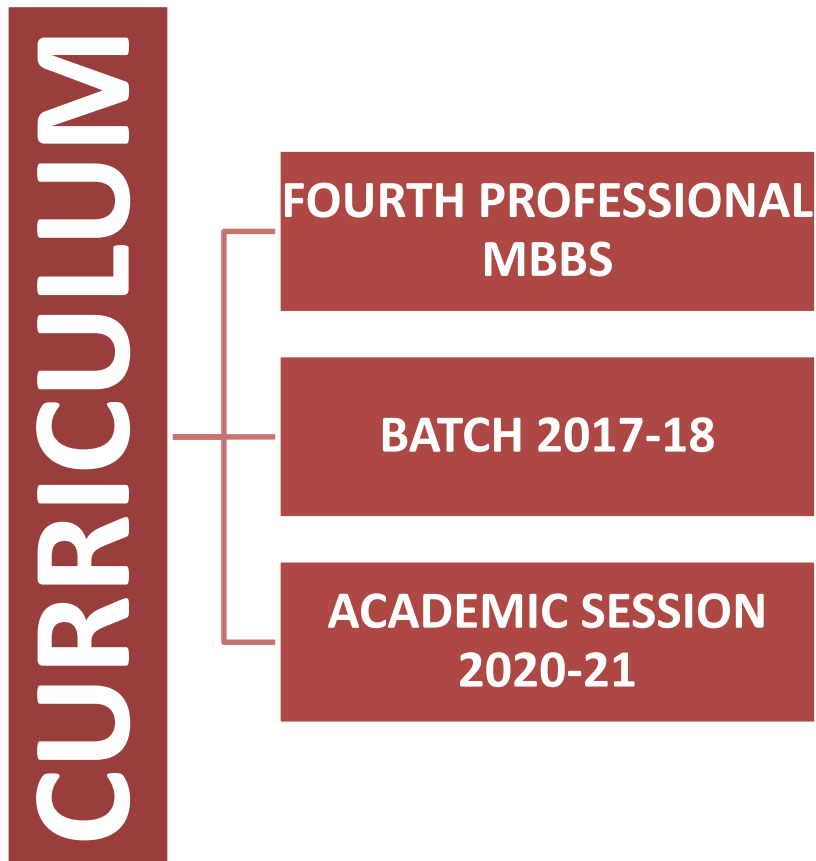




ISO 9001:2008 CERTIFIED

LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCES JAMSHORO SINDH, PAKISTAN



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MESSAGE

On behalf of the Vice Chancellor Prof. Dr. Bikha Ram Devrajani faculty members, I welcome you all to the Seventh Semester (Fourth Year MBBS) class. Liaquat University of Medical and Health Sciences, is nationally and internationally recognized that distinguishes itself as the first ever public sector Medical University achieved ISO 9001:2008 certification and thus became entrenching center for outstanding teaching qualities with moral and ethical values, fantastic learning outcomes, and productivity of the student's knowledge and experience.

We represents brilliant standards in teaching, research and creativity by regular class room activity, OSPE/OSCE pattern of evaluation, strict monitoring of student's attendance and counseling by Director Academics to produce professionals outfitted with highest standards in transfer and application of knowledge to address the health issues of this society.

All this is only possible with support of students, their parents and teachers, which are actually the stakeholders and play fundamental role to achieve upcoming objectives and goals.

Your accomplishments at Liaquat University of Medical and Health Sciences will be the extent of our achievements in delivering high quality education, knowledge and training.

I wish you best of luck and an unforgettable learning experience during your stay at this university.

**DIRECTOR ACADEMICS
LUMHS**

FOURTH PROFESSIONAL MBBS

BATCH 2017-18

ACADEMIC CALENDAR

Classes will start from	29 th March 2021
Ramazan & Eid-ul-Fitr Holidays	01 st to 16 th May 2021
Classes will re-start from	17 th May 2021
Classes will end on	20 th November 2021
Preparation leaves	21 st Nov to 19 th Dec 2021
Theory and OSPE Examination	20 th Dec to 29 th Jan 2022

WEEKLY TIME TABLE

[FROM MONDAY 29TH MARCH 2021 TO 31ST JULY 2021]

GROUP: A VENUE OF LECTURES: PATHOLOGY LEC HALL

GROUP: B VENUE OF LECTURES: PHARMACOLOGY LECTURE HALL

TIME	G	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
08.00 TO 09.00 AM	A	ENT Lecture	ENT Lecture	Pathology Lecture	Community Medicine Lecture	PAEDIATRICS 02/04-02/07 DERMATOLOGY 09/07-30/07
	B	Ophthalmology Lecture	Ophthalmology Lecture	Ophthalmology Lecture	Ophthalmology Lecture	ORTHOPAEDICS 02/04-02/07 UROLOGY 09/07-30/07
09.00 TO 09.45 AM	A	Pathology Lecture	PSYCHIATRY Lecture	ENT Lecture	ENT Lecture	Community Medicine Lec
	B	Community Medicine Lec	Pathology Lecture	Pathology Lecture	Pathology Lecture	Pathology Lecture
09.45 TO 11.30 AM	A	Community Medicine Discussion	<u>9.45 -10.30</u> Pathology Lec	Histo-Pathology Practical A4 A5 A6	Histo-Pathology Practical A1 A2 A3	<u>9.45 -10.30</u>
			<u>10.30-11.15</u> Community Medicine Lec	Clinical Pathology Practical A1 A2 A3	Clinical Pathology Practical A4 A5 A6	Pathology Lecture
	B	Histo- Pathology Practical B1 B2 B3 Clinical Pathology Practical B4 B5 B6	Histo- Pathology Practical B4 B5 B6 Clinical Pathology Practical B1 B2 B3	Community Medicine Discussion	<u>9.45 -10.30</u> Community Medicine Lec	<u>9.45 -10.30</u> Community Medicine Lecture
					<u>10.30-11.30</u> PAEDS SURGERY LEC 01/04-03/06 SKILL LAB GROUP:B1+2+3= 10/06-01/07 GROUP:B4+5+6= 08/07-29/07	

11.30 AM TO 03.00 PM	A B	HOSPITAL POSTING	HOSPITAL POSTING	HOSPITAL POSTING	HOSPITAL POSTING	10.30 AM TO 03.00 PM COMMUNITY MEDICINE FIELD VISIT/ DISCUSSION (ON ALTERNATE WEEKS)
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[FROM MONDAY 02ND AUGUST 2021 TO 20TH NOVEMBER 2021]

GROUP: A VENUE OF LECTURES: : PHARMACOLOGY LEC HALL

GROUP: B VENUE OF LECTURES PATHOLOGY LECTURE HALL

TIME	G	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
08.00 AM TO 09.00 AM	A	Ophthalmology Lecture	Ophthalmology Lecture	Ophthalmology Lecture	Ophthalmology Lecture	ORTHOPAEDICS 06/08-22/10 UROLOGY 29/10-19/11
	B	ENT Lecture	ENT Lecture	Pathology Lecture	Community Medicine Lecture	PAEDIATRICS 06/08-22/10 DERMATOLOGY 29/10-19/11
09.00 AM TO 09.45 AM	A	Community Medicine Lecture	Pathology Lecture	Pathology Lecture	Pathology Lecture	Pathology Lecture
	B	Pathology Lecture	PSYCHIATRY Lecture	ENT Lecture	ENT Lecture	Community Medicine Lecture
09.45 AM TO 11.30 AM	A	Histo-Pathology Practical A1 A2 A3 Clinical Pathology Practical A4 A5 A6	Histo-Pathology Practical A4 A5 A6 Clinical Pathology Practical A1 A2 A3	Community Medicine Discussion	<u>9.45 -10.30</u> Community Medicine Lec	9.45 -10.30 Community Medicine Lecture
					<u>10.30-11.30</u> PAEDS SURGERY LEC 05/08-23/09 SKILL LAB GROUP:A1+2+3= 30/09-21/10 GROUP:A4+5+6= 28/10-18/11	
	B	Community Medicine Discussion	<u>9.45 -10.30</u> Pathology Lec <u>10.30-11.15</u> Community Medicine Lec	Histo Pathology Practical B4 B5 B6 Clinical Pathology Practical B1 B2 B3	Histo Pathology Practical B1 B2 B3 Clinical Pathology Practical B4 B5 B6	
11.30 AM TO 03.00 PM	A B	HOSPITAL POSTING	HOSPITAL POSTING	HOSPITAL POSTING	HOSPITAL POSTING	10.30 AM TO 03.00 PM COMMUNITY MEDICINE FIELD VISIT/ DISCUSSION (ON ALTERNATE WEEKS)

SCHEDULE OF HOSPITAL POSTING

BATCH 2017-18

<u>DATE</u>	ENT		PAEDS	DERMA TOLOGY	PYSCH IATRY	CARDIO LOGY
	I	II				
29 MAR TO 13 APRIL	A1	A2	A3	A4	A5	A6
14 APRIL TO 29 APRIL	A2	A1	A4	A5	A6	A3
17 MAY TO 01 JUNE	A5	A6	A1	A2	A3	A4
02 JUNE TO 17 JUNE	A6	A5	A2	A3	A4	A1
21 JUNE TO 07 JULY	A3	A4	A5	A6	A1	A2
08 JULY TO 29 JULY	A4	A3	A6	A1	A2	A5
02 AUG TO 17 AUG	B1	B2	B3	B4	B5	B6
23 AUG TO 08 SEPT	B2	B1	B4	B5	B6	B3
09 SEPT TO 28 SEPT	B5	B6	B1	B2	B3	B4
29 SEPT TO 14 OCT	B6	B5	B2	B3	B4	B1
18 OCT TO 02 NOV	B3	B4	B5	B6	B1	B2
03 NOV TO 18 NOV	B4	B3	B6	B1	B2	B5
<u>DATE</u>	EYE			NEURO SUR	UROL OGY	PLASTIC SURGERY
	I	II	III			
29 MAR TO 13 APRIL	B1	B2	B3	B4	B5	B6
14 APRIL TO 29 APRIL	B2	B1	B4	B5	B6	B3
17 MAY TO 01 JUNE	B5	B6	B1	B2	B3	B4
02 JUNE TO 17 JUNE	B6	B5	B2	B3	B4	B1
21 JUNE TO 07 JULY	B3	B4	B5	B6	B1	B2
08 JULY TO 29 JULY	B4	B3	B6	B1	B2	B5
02 AUG TO 17 AUG	A1	A2	A3	A4	A5	A6
23 AUG TO 08 SEPT	A2	A1	A4	A5	A6	A3
09 SEPT TO 28 SEPT	A5	A6	A1	A2	A3	A4
29 SEPT TO 14 OCT	A6	A5	A2	A3	A4	A1
18 OCT TO 02 NOV	A3	A4	A5	A6	A1	A2
03 NOV TO 18 NOV	A4	A3	A6	A1	A2	A5

DEPARTMENT OF COMMUNITY MEDICINE

S #	TEACHING FACULTY		
01	PROFESSOR AND DEAN : Prof Khalida Naz Memon		
02	PROFESSOR : Prof. Muhammad Najeeb Memon		
03	ASSOCIATE PROFESSORS AND CHAIRMAN: Dr. Muhammad Ilyas Siddiqui		
04	Dr. Shazia Rahman Shaikh	05	Dr. Gulzar Usman
	ASSISTANT PROFESSORS	06	Dr. Suhail Ahmed Bajrani
07	Dr. Ambreen Sahito	08	Dr. Tariq Feroz
	LECTURERS	09	Dr. Jawad Ahmad Qadri
10	Dr. Wali Muhammad Nizamani	11	Dr. Faiza Memon
12	Dr. Zoheb Rafique Memon	13	Dr. Farah Deebea Shaikh
14	Dr. Sindhia Javed Junejo	15	Dr. Kanwal Naz
16	Dr. Rafaina Shah	17	Dr. Sindhu Almas
18	HEALTH EDUCATION OFFICER: Ms. QuratulAin		

SUBJECT: COMMUNITY MEDICINE

Session - I (LECTURES)

➤ INTRODUCTION

1. Introduction to Community Medicine & Public Health.
2. Basic concepts about health. Health Indicators, Health Dimensions/determinants of health.
3. Health Delivery System of Pakistan.
4. Health policies & Health plans.
5. Natural history of diseases & Levels of prevention.

➤ EPIDEMIOLOGY & RESEARCH METHODOLOGY

1. Introduction, Aims of Epidemiology, Uses of epidemiology.
2. Descriptive Epidemiology: Time distribution of diseases.
3. Descriptive Epidemiology: Place & Person distribution of diseases.
4. Epidemiological study designs/ Cross sectional studies/ Prevalence rate.
5. Introduction to Research Methodology.
6. Sampling techniques.
7. Medical Ethics: Background, Concept and Components
8. Analytical Epidemiology: Case control study & Odds ratio.
9. Analytical Epidemiology: Cohort study, incidence rate, relative risk & attributable risk.
10. Analytical Epidemiology: Experimental study.
11. Association & causation.
12. Investigation of an epidemic.
13. Surveillance.
14. Screening: Definition, types & Uses of screening.
15. Screening: Sensitivity, Specificity & Predictivity.

➤ BIOSTATISTICS

1. Introduction to biostatistics, Health Management Information System (DHIS).
2. Types of variables/Methods of data presentation.
3. Rates, ratios & proportions.
4. Measures of central tendency.
5. Measures of dispersion.
6. Normal Distribution Curve (NDC).
7. Interpretation of data (t-test and Chi-square test).

➤ **MEDICAL DEMOGRAPHY**

1. Introduction, Population profile of Pakistan and Census
2. Population dynamics, size, composition, distribution, growth rate and Population doubling time.
3. Momentum of population, Population transition, Demographic trap & population pyramid.
4. Fertility measure & related statistics.
5. Mortality measures & related statistics: Infant mortality & maternal mortality rates.

➤ **FOOD & NUTRITION**

1. Nutritional problems of public health importance.
2. Malnutrition in less than 5 years age; in over 5 years.
3. Nutritional Requirements of children, adults, in pregnancy & lactation.
4. Assessment of Nutritional Status.

DEMONSTRATION CLASSES IN GROUPS

➤ **INTRODUCTION**

1. Millennium Development Goals & Sustainable Development Goals.
2. Primary Health Care and Human Development Index (HDI).
3. Spectrum of health & Ice-berg phenomenon of diseases.
4. Non-Governmental organizations and International agencies.

➤ **RESEARCH METHODOLOGY**

1. How to write a research project.
2. How to design questionnaire
3. How to enter data in SPSS

➤ **FOOD & NUTRITION**

1. Macronutrient & micronutrient deficiencies.
2. Food surveillance: milk borne, meat borne & fish borne diseases.
3. Balanced diet and Dietary fibers & Dietary goals.
4. Food preservation, food fortification & food adulteration.
5. Food poisoning.

➤ **REPRODUCTIVE HEALTH & CHILD HEALTH PROBLEMS**

1. Safe Motherhood (Domiciliary & institutional care).
2. Family planning, scope and methods of family planning.
3. Maternal & Child Health (MCH), Role of Lady Health Workers (LHWs) & Lady Health Visitors (LHVs).
4. Antenatal, intranatal and postnatal care.
5. Neonatal care, growth and development of infant.
6. IMNCI: Overview - Community and Health System Component.
7. Adolescent Health

➤ **OCCUPATIONAL HEALTH**

1. Introduction to Occupational health hazards and organization of occupational health services.
2. Pneumoconiosis & its control measures.
3. Lead poisoning & its control measures.
4. Occupational health hazards for agricultural & industrial workers- Ergonomics.
5. Measures for prevention of occupational health hazards. Medical & Engineering methods.
6. Disaster classification, preparedness and management.

RESEARCH PROJECTS

The students in groups will be assigned research projects under supervision of a faculty member. The Supervisors for each group will be notified and the students will be required to meet with the Supervisor for the project. The students will start the project work in Session – I and submit it by mid of Session – II. Each group will present the research work in the form of Oral/Poster presentation, which will be evaluated and graded. The marks of projects will be included in Annual examination. The guidelines for the project work and oral/poster presentations will be taught in introductory classes of Research Methodology. The guidelines will also be displayed on notice board in the department.

FIELD VISITS

1. Industry and Social Security Hospital.
2. Regional training Center for family planning.
3. Primary school to assess the nutritional status of school children.
4. Basic Health Unit (BHU).
5. Rural Health Center (RHC).

SKILL LEARNING

(PROBLEM BASED LEARNING)

1. To develop a Questionnaire for a Survey.
2. To calculate BMI & to classify obesity.
3. To do interpretation on growth charts.
4. How to make ORS & how to follow various plans of rehydration.

ROLE PLAYS ON HEALTH EDUCATION / COMMUNICATION

(PROBLEM BASED LEARNING)

1. Role play on counseling the mother for proper weaning of her child.
2. Role play on Plan A & Plan B of rehydration.
3. Role play on counseling for using personal protective measure for prevention of occupational health hazards.

IMNCI HOUSEHOLD SURVEYS ON KEY FAMILY PRACTICES

Two surveys will be conducted by students & facilitated by their group facilitators.

Session - II

(LECTURES)

➤ COMMUNICABLE DISEASES

1. Introduction to Communicable diseases; basic concepts.
2. Chain of transmission & its role in infectious disease control.
3. Epidemiology & Control measures for Tuberculosis.
4. Epidemiology & Control measures for Poliomyelitis.
5. Epidemiology & Control measures for Malaria.
6. Epidemiology & Control measure for Leishmaniasis.
7. Epidemiology & Control measures for Hepatitis and injection safety.
8. Sexually Transmitted Diseases (STDs) & HIV/AIDS & their control measures.
9. Epidemiology & Control measures for Dengue fever.
10. Epidemiology & Control measure for Rabies.

11. Epidemiology & Control measures for Typhoid.
12. Droplet infections: Measles, mumps, rubella.
13. Droplet infections: Influenza.

➤ **EPIDEMIOLOGY OF NON-COMMUNICABLE DISEASES**

1. Introduction & National Action Program for Prevention & Control of Non-Communicable diseases & Health Promotion.
2. Epidemiology & Control measures for Hypertension & Coronary Heart Diseases.
3. Epidemiology & Control measures for Diabetes mellitus.
4. Epidemiology & Control measures for Cancers.
5. Epidemiology & Control measures for Accidents and Injuries.
6. Epidemiology & Control measures for Mental illnesses.
7. Epidemiology & Control measures for Obesity.
8. Epidemiology & Control measures for Acute Rheumatic fever.

➤ **ENVIRONMENTAL HEALTH**

A. WATER

1. Methods of purification of water.
2. World Health Organization (W.H.O) criteria for purification of water.

B. AIR POLLUTION, GLOBAL WARMING & RADIATION

HAZARDS

1. Sources & hazards of air pollution.
2. Global warming- its effects on human health & economy.
3. Radiation Hazards.

C. DISPOSAL OF WASTE

1. Introduction, Public health importance of waste, methods of collection & disposal of refuse.
2. Hospital waste management.

D. MEDICAL ENTOMOLOGY

1. Introduction, Winged insects of public health importance.
2. Wingless insects of public health importance.
3. Methods of control of Arthropods.
4. Prevention and Control of Parasitic diseases of Public health importance.

. DEMONSTRATION CLASSES IN GROUPS

➤ **COMMUNICABLE DISEASES**

1. An overview of infectious disease control programs in Pakistan.
2. Epidemiology & Control measure for Yellow fever.
3. Epidemiology & Control measures for Cholera & other diarrheal diseases.
4. Epidemiology & Control measure for Amebiasis.
5. Epidemiology & Control measure for Hookworm infestation.
6. Epidemiology & Control measure for Tetanus.
7. Droplet infections: Chicken pox.
8. Droplet infections: diphtheria, whooping cough.
9. Droplet infections: Meningitis.

➤ **IMMUNOLOGY & EXPANDED PROGRAM ON IMMUNIZATION (EPI)**

1. Active /passive immunity & Live/ killed vaccines - toxoids.
2. EPI- History, Cold chain, its role in preventing deaths in children.

➤ **ENVIRONMENTAL HEALTH**

A. WATER

1. Hydrological cycle & sources of water pollution.
2. Health hazards arising from consuming polluted water; water borne diseases.
3. Slow sand & Rapid sand filters.

B. AIR & VENTILATION

1. Composition of air, Vitiation of air.

C. DISPOSAL OF WASTE

1. Methods of disposal of human excreta & sewage.

D. OTHER TOPICS OF ENVIRONMENTAL HEALTH

1. Healthful housing
2. Noise pollution.
3. Tobacco & Health.
4. Effects of health and cold extremes.

➤ SOCIAL SCIENCES

1. Introduction, Types of families, social evils including Juvenile delinquency.

➤ INFORMATION, EDUCATION AND COMMUNICATION (IEC)

1. Health Education: Concepts, Aims and Objectives.
2. Contents, principles and stages of health education.
3. Communication methods, barriers & skills including Social Marketing in health education.
4. Planning, organizing and evaluating a health education program.

➤ OTHER TOPICS FOR DEMONSTRATION CLASSES

1. Snake Bite.
2. Personal hygiene.
3. School Health Services.
4. Health advice to travelers.

RESEARCH PROJECTS

- Each Student is required to submit the research project report to Group Supervisor.
- The students will present research findings in scientific format for Oral/Poster Presentation.
- The Oral/Posters will be evaluated and marks will be awarded which will be incorporated in Annual Examination.

FIELD VISITS

1. Physical/mental/social rehabilitation Centre.
2. Visit to hospital to see hospital waste disposal.
3. Visit to an NGO.

SKILL LEARNING.**(PROBLEM BASED LEARNING)**

1. To fill mother's card/Vaccination card.
2. Hand washing.
3. Household methods of purification of water.

ROLE PLAYS ON HEALTH EDUCATION/COMMUNICATION**(PROBLEM BASED LEARNING)**

1. Role play on counseling for immunization.
2. Role play on counseling the mother regarding malaria in her child and using malaria protection measures.
3. Role play on counseling the family head on prevention of a chronic non-communicable diseases.

GUIDELINES FOR RESEARCH PROJECT WRITING FOR 4TH YEAR MBBS STUDENTS

As per guidelines of PMC the undergraduate students of Medical Universities/Colleges have to conduct a research/Survey during their 4th year MBBS, this activity should be conducted in a group of 15 to 20 students. Each group of the students will be facilitated and supervised by a Faculty Member for their research work and a Short/brief booklet of research work will be submitted to the department for the evaluation and in the end a POSTER PRESENTATION seminar/activity will be organized by the department in which all the research projects conducted by students will be presented by them.

The Research Project will have the following format.

- 1. Title /Topic page**
- 2. Dedication (optional)**
- 3. Acknowledgements**
- 4. Table of Contents**
- 5. List of tables**
- 6. List of Figures**
- 7. Abstract**
- 8. Introduction**
- 9. Rationale**
- 10. Aims & Objectives**
- 11. Review of Literature**
- 12. Material and methods (methodology)**
- 13. Results**
- 14. Discussion**
- 15. Conclusion**
- 16. Recommendations**
- 17. Limitations**
- 18. References**
- 19. Appendix**

The Research Project should be written in MS word format (any version) and preferably in Verdana style and font size should be 12 (twelve) and a double space between the lines should be used. alignment should be centrally justified and be correctly formatted to allow clear understanding of the report structure, whereas for tables and Graphs/Charts Excel (software) can be used. It should be free from formatting and typographical mistakes.

The Research report /project should be 1500 to 2000 words in length. This corresponds to 35-40 double spaced size pages. Longer reports/dissertations will not be accepted. Photographs (if any) should be scanned, oversized (A3 or longer) could be used where absolute necessary but properly folded. Only computer drawn tables and graphs are allowed. Preliminary pages should be numbered in lower case Roman numerical- Dedication, certificate, acknowledgment, Abstract. Pages should be numbered, at center bottom of the page.

- The Research Report/ project should be neatly bound with cover.

Most important

- You have limited time and training for data collection
- The problem that you choose should be relevant, feasible, simple and answerable.
- The outcome should be measureable using a valid instrument.
- It should be researchable within the resources available to the student groups.

1. SELECTION OF RESEARCH TOPIC/TITLE / RESEARCH QUESTION.

- The title is meant to convey the research question precisely.
- It should not be too lengthy, yet it must convey the subject and arouse curiosity.
- The population in which the study would be conducted should find a mention in the title as this is the population to which the results are applicable the most.

For Example:

To study the risk factors associated with domestic violence among the women attending the OPD/clinic of a tertiary care hospital of Hyderabad.

If required, the study design can also be included in the title.

For example:

“A case control study to assess the association of consumption of salt with Hypertension among elderly population of Hyderabad”

2. INTRODUCTION

- In this section a brief explanation of why was the topic chosen, its relevance and importance is made.
- A brief account is given about the gaps in the existing knowledge. By the end of the introduction the emphasis should be sharply concentrated on which part of the problem will be dealt with.
- Small portion of the literature review may need to be cited to highlight the importance of answering the problem, but take care limiting the content to that much only. This piece of literature also need to be included in the reference section and cited with respective number at the end of the last sentence.
- Introduction should not be too long; it is best presented in one or two pages only.

3. OBJECTIVE

- The objectives should be listed and numbered
- Each objective must pertain to only one aspect of the study.
- Each objective should be clear, specific and measurable.
- Each objective should begin with an action word like,
- “to determine....; to measure....; to assess....; etc.
- Try to keep the Objectives as few as possible

For example:

Topic: A Study of Socio-Demographic Profile of Run-away Boys of Hyderabad.

OBJECTIVES

1. To study the demographic profile of the run-away boys of Hyderabad.
2. To ascertain the common reasons for running away from home in the study population.
3. To identify the risk factors associated with running away behavior in the study population

4. REVIEW OF LITERATURE (ROL)

- Under this section, the finding of previous studies which have been conducted with one or more objectives similar to your study are cited.
- Include all the relevant studies. Do not be tempted to include only those studies which report results similar to your findings. Equally include the literature which is contrary to or inconsistent with your findings.
- If required, text from books, news releases and government releases may be included.
- The previous studies done in the same area and population as the present study are the most relevant.
- All these (studies, books, government releases) are to be cited in the reference section.
- ROL is not simply the list of previous studies listed in chronologically,
- The student is supposed to read thoroughly, understand and analyze each article and “synthesize” the ROL around the research problem and objectives of the present study /project.
- It summarizes what has been reported on each objectives and what remains to be done.
- How you organize the ROL depends upon the aim and objectives of your study, but the central point is that you have to organize it and make it coherent related to your research objectives.

5. Material & Methods (METHODOLOGY)

This section gives a precise description of what was the study design and how were the participants enrolled. It also tells the equipment and the techniques used for data collection and analysis.

- **Study Design**
- **Study Setting**
- **Study Duration**
- **Study Population**
- **Sample size (calculation/formula) (min-100)**
- **Sample Technique(chosen) (simple random)**
- **Inclusion criteria**, means the group of characteristics that make a participant/subject eligible for the study.
- **Exclusion criteria**, means the group of characteristics that make a participant/subject NOT eligible for the study.
- If participants were categorized like, heavy, moderate, mild etc. then clearly define the criteria for this.
- If needed, you can add the justification of why the participants were chosen as being representative of the target population in the section.

Materials

- This section explain which were the variables assessed.
- What is the operational definition of the assessed variable?
- What was the instrument used to measure the outcome variable?

For example; Questionnaire and Scales applied for the measurement should be explained.

- **Statistics**
- How were the data tabulated and which summary values were calculated?
- Which test of significance have been used
- Mention the software used / or manually analyze the data

6. RESULTS

- The data collected during the study are presented in this section.
- The data is presented in form of Table, Graphs and text.
- The results should proceed in a logical sequence.
- First the basic tables and statements describing the study population are presented e.g. the mean age, age composition of the study population
- Tables and graphs /figure should be numbered.
- The title of the table and figure should be self-explanatory
- The title of a table mention on top of the table and beneath in the case of figure.
- The figure should be accompanied by a key that explain the figure.

7. DISCUSSION

New and important facts emerging from the study are emphasized.
Main findings are summarized.

The findings of the study are compared with those of other similar studies. The similarities are pointed out. Also the difference in the results are highlighted and efforts are made to explain these.

8. CONCLUSION

The conclusion drawn is based on the findings of your study and in the light of other studies included in the “discussion”

For example: In this study among the school students of some government run primary schools in Hyderabad, the prevalence of positive (for round worm eggs) stool samples was significantly lesser in the schools with hand washing health education.

9. RECOMMENDATIONS

These are based on the findings of your study after comparison with similar studies. That means the recommendations are based on the discussion of your study.

- The recommendations for the hand washing can be as.
 - Health education regarding hand washing should be introduced in the government –run primary schools of Hyderabad.

10. LIMITATIONS

For example:

Due to limitation of time, only four schools in the vicinity of our institution were included.

11. REFERENCES

Referencing is a standardized way of acknowledging the sources of information and ideas that we have used in our project/assignments which allows the sources to be identified.

Types of References are, Vancouver system, Harvard system, APA (American Psychological Association) style.

Enlist the studies, books and web sites, etc., which have been cited in the sections of “Introduction”, “Review of Literature” and “discussion” sections, there are numbers of styles for enlisting the references,

References should be numbered consecutively in the order in which they are first mentioned in the text.

Vancouver Reference style is recommended

12. APPENDIX

Details of scales used and questionnaire.

Online Search Engines

- PubMed
- e-journals
- Medline
- WebMD
- embase
- Unicef.org
- WHO.int
- Books Journals
- Offline Sources
- News report
- Government releases

DEPARTMENT OF PATHOLOGY

S #	TEACHING FACULTY		
01	DEAN BASIC MEDICAL SCIENCES: Professor Dr. Ikram Din Ujjan		
02	CHAIRPERSON AND PROFESSOR: Professor Dr. Farzana Memon		
03	PROFESSOR: Professor Abid Hussain Chang		
	ASSOCIATE PROFESSORS		
04	Dr. Tanveer Ahmed Shaikh	05	Dr. Abdul Aziz Shaikh
	ASSISTANT PROFESSORS		
07	Dr. Naila Shaikh	06	Dr. Kiran Aamir
09	Dr. Arshi Naz	08	Dr. Suleman Pirzado
11	Dr. Muhammad Rahil Khan	10	Dr. Zahida Shaikh
	LECTURERS		
14	Dr. Khalid Yousaf Memon	12	Dr. Shariq Anwar Abid
16	Dr. Faheem Ahmed Memon	13	Dr. Khalil Ahmed Memon
18	Dr. Furqan Ahmed Bhatti	15	Dr. Shabnam Rustamani
20	Dr. Amir Ramzan	17	Dr. Muhammad Ali Memon
22	Dr. Sadia Akbar	19	Dr. Abdul Rehman Khalil
24	Dr. Nazia Mumtaz	21	Dr. Sadia Abbasi
26	Dr. Rameez Iqbal Memon	23	Dr. Sidra Kadir
		25	Dr. Sorath Sindhu Mangi
		27	Dr. Yasmeen Bhutto

SUBJECT: SPECIAL PATHOLOGY

TOPICS
<p style="text-align: center;">CHAPTER: GASTRO INTESTINAL TRACT</p> <p>TEACHER: PROFESSOR FARZANA MEMON/ DR. FURQAN AHMED BHATTI</p> <ol style="list-style-type: none"> 1) Introduction, disease of oral cavity and salivary glands 2) Achalasia, esophagitis and hematemesis 3) Barrett's esophagus and tumors of esophagus 4) Gastritis and Peptic ulcer 5) Gastric polyps and tumors 6) Intestinal obstruction and Diseases of appendix 7) Mal absorption, diarrheal disease and Ischemic bowel diseases 8) Inflammatory Bowel diseases 9) Non-neoplastic and Benign lesions of GIT-Polyps 10) Tumors of colon
<p style="text-align: center;">CHAPTER: BLOOD AND LYMPH NODES</p> <p>TEACHERS: PROFESSOR IKRAM DIN UJJAN / DR. KIRAN AAMIR/ DR. FAHEEM AHMED MEMON</p> <ol style="list-style-type: none"> 11) Introduction 12) Iron deficiency anemia 13) Megaloblastic anemia 14) Hemolytic Anemia-I 15) Hemolytic Anemia-II 16) Aplastic anemia 17) Acute myeloid leukemia 18) Acute lymphocytic leukemia 19) Chronic myeloid leukemia 20) Chronic lymphocytic leukemia 21) Multiple myeloma 22) Congenital bleeding disorders 23) Acquired bleeding disorders 24) Blood transfusion 25) Lymphadenitis and lymphadenopathy

26) Hodgkin's lymphoma 27) Non-Hodgkin's Lymphoma-I 28) Non-Hodgkin's Lymphoma-II
<p style="text-align: center;">CHAPTER: RESPIRATORY SYSTEM</p> TEACHER: DR. TANVEER AHMED SHAIKH /DR. KHALID YOUSAF MEMON
29) Introduction 30) Congenital anomalies 31) Upper respiratory tract diseases 32) Obstructive pulmonary disease I 33) Obstructive pulmonary disease II 34) Chronic diffuse interstitial and vascular lung diseases 35) Pneumonias I 36) Pneumonias II 37) Tuberculosis lung 38) Tumors of lung and pleural diseases
<p style="text-align: center;">CHAPTER: DISEASES OF BONES AND JOINTS</p> TEACHER: DR. MUHAMMAD RAHIL KHAN
39) Developmental anomalies 40) Osteomyelitis 41) Cartilage forming tumor 42) Bone forming tumor 43) Arthritis 44) Soft tissue tumors
<p style="text-align: center;">CHAPTER: LIVER AND GALL BLADDER</p> TEACHER: DR. ABDUL AZIZ SHAIKH
45) Jaundice and cholestasis 46) Acute hepatitis 47) Chronic hepatitis 48) Autoimmune and metabolic liver diseases 49) Cirrhosis of liver 50) Tumors of liver 51) Disease of gall bladder
<p style="text-align: center;">CHAPTER: SKIN</p> TEACHER: DR. SULEMAN PIRZADO
52) Inflammatory Diseases 53) Tumors 54) Discussion
<p style="text-align: center;">CHAPTER: CARDIOVASCULAR SYSTEM</p> TEACHER: DR. ABDUL AZIZ SHAIKH / DR. ABDUL REHMAN SHAIKH
<u>BLOOD VESSELS</u> 55) Congenital anomalies and vascular wall cell 56) Response to injury, Vasculitis 57) Arteriosclerosis 58) Veins and lymphatic disease, Aneurysms 59) Tumors

HEART

- 60) Congenital heart diseases
- 61) Heart failure
- 62) Ischemic heart disease I
- 63) Ischemic heart disease II
- 64) Hypertensive heart disease and tumors
- 65) Inflammatory heart disease
- 66) Cardiomyopathies
- 67) Valvular heart disease
- 68) Tumors of heart and pericardial disease

CHAPTER: DISEASES OF KIDNEY**TEACHER: PROFESSOR. FARZANA MEMON/ DR. MUHAMMAD RAHIL KHAN**

- 69) Introduction Glomerular & Tubular structure and Pathophysiology.
- 70) Clinical manifestation of Renal diseases and Chronic renal failure
- 71) Glomerular Diseases: Pathogenesis
- 72) Nephritic Syndrome & Its causes
- 73) Nephrotic syndrome–Membrano-proliferative Glomerulonephritis-Minimal change
- 74) Membranous glomerulonephritis IgA nephropathy, Chronic glomerulonephritis
- 75) Pyelonephritis
- 76) Obstructive uropathy (Hydronephrosis) and Urolithiasis
- 77) Tumors of kidney

CHAPTER: LOWER URINARY TRACT AND MALE GENITAL TRACT**TEACHER: DR. TANVEER AHMED SHAIKH /DR. KHALID YOUSAF MEMON**

- 78) Histology, Congenital anomalies inflammations
- 79) Special types of inflammations and metaplastic lesions
- 80) Tumors of Urinary bladder
- 81) Histology, Patho-physiology, Hormones, Congenital Anomalies.
- 82) Inflammations of testis and epididymis
- 83) Tumors of testis
- 84) Inflammations and Benign prostatic hyperplasia
- 85) Prostatic carcinoma

CHAPTER: FEMALE GENITAL TRACT**TEACHER: DR. NAILA SHAIKH**

- 86) Diseases of vulva and vagina
- 87) Diseases of cervix
- 88) Diseases of uterus-I
- 89) Diseases of uterus-II
- 90) Diseases of Ovary-I
- 91) Diseases of Ovary-II
- 92) Gestational and placental disorders

CHAPTER: DISORDERS OF BREAST**TEACHER: PROFESSOR. FARZANA MEMON**

- 93) Inflammatory diseases of breast
- 94) Non-Neoplastic diseases of the Breast
- 95) Tumors of the Breast

CHAPTER: DISORDERS OF ENDOCRINE SYSTEM	
TEACHER: DR. TANVEER AHMED SHAIKH / DR. MUHAMMAD RAHIL KHAN/ DR. SULEMAN PIRZADO	
96) Diseases of pituitary Gland-I&II	(Dr. Muhammad Rahil Khan)
97) Disease of thyroid	(Dr. Tanweer Ahmed Shaikh)
i. Histology, Hormones, Diagnostic tests, Clinical features, Hypothyroidism, Hyperthyroidism.	
ii. Goiter	
iii. Inflammations-I Ill defined & Hashimoto's thyroiditis	
iv. Inflammations-II Common forms and rare forms	
v. Tumors	
98) Parathyroid gland diseases	(Dr. Suleman Pirzado)
99) Diseases of Adrenal Gland-I	
100) Diseases of Adrenal Gland-II	
CHAPTER: DISEASES OF PANCREAS	
TEACHER: DR. TANVEER AHMED SHAIKH	
CHAPTER: CENTRAL NERVOUS SYSTEM	
TEACHERS: PROFESSOR. ABID HUSSAIN CHANG /DR. FURQAN AHMED BHATTI	
101) Cerebral edema, hydrocephalus	
102) Neural tube defects and other congenital anomalies	
103) Meningitis	
104) Cerebrovascular diseases	
105) Demyelinating disease	
106) Degenerative disease	
107) Metabolic disease	
108) Tumor of brain	

SUBJECT: SYSTEMIC/HISTO PATHOLOGY (PRACTICALS)

NO	TOPIC	TEACHER
01	Esophagus & Gastric Carcinoma	DR. KHALID YOUSAF MEMON & DR. RAMEEZ IQBAL
02	Ulcerative Lesion of GIT	DR. ABDUL REHMAN KHALIL & DR. SADIA ABBASI
03	Colorectal Carcinoma	DR. KHALID YOUSAF MEMON & DR. RAMEEZ IQBAL
04	TEAM BASED LEARNING (TBL)	ALL TEACHERS
05	Tumors Of Bone	DR. FURQAN AHMED BHATTI, DR. SORATH SINDHU & DR. SIDRA KADIR
06	Osteomyelitis	DR. ABDUL REHMAN KHALIL & DR. SADIA ABBASI
07	Liver Cirrhosis	DR. FURQAN AHMED BHATTI, DR. SORATH SINDHU & DR. SIDRA KADIR
08	Tumors Of Liver	DR. FURQAN AHMED BHATTI, DR. SORATH SINDHU & DR. SIDRA KADIR
09	Hepatitis	DR. SADIA ABBASI
10	TEAM BASED LEARNING (TBL)	ALL TEACHERS
11	Hodgkins Lymphoma	DR. ABDUL REHMAN KHALIL & DR. SADIA ABBASI
12	Non-Hodgkins Lymphoma	DR. SORATH SINDHU
13	Malignant Tumors Of Skin	DR. RAMEEZ IQBAL
14	Bronchogenic Carcinoma	DR. KHALID YOUSUF MEMON
15	Inflammatory & Obstructive Disease of Lung	DR. SORATH SINDHU
16	TEAM BASED LEARNING (TBL)	ALL TEACHERS
17	Soft Tissue Tumors	DR. SIDRA KADIR
18	Brain Tumors	DR. FURQAN AHMED BHATTI
19	Benign & Malignant Tumors Of Breast	DR. ABDUL REHMAN KHALIL
20	Tumor of Cervix & Uterus	DR. SORATH SINDHU

21	Tumor of Ovary	DR. SADIA ABBASI
22	Gestational Diseases	DR. SIDRA KADIR
23	Acute & Chronic Pyelonephritis	DR. KHALID YOUSUF MEMON
24	Tumors Of Kidney	DR. FURQAN AHMED BHATTI
25	Benign Prostatic Hyperplasia & Carcinoma Prostate	DR. ABDUL REHMAN KHALIL
26	Testicular Tumors	DR. KHALID YOUSAF MEMON
27	Tumors Of Urinary Bladder	DR. RAMEEZ IQBAL
28	Atherosclerosis	DR. ABDUL REHMAN KHALIL
29	Ischemic Heart Diseases & Diagnosis	DR. SIDRA KADIR
30	Myocardial Infarction	DR. RAMEEZ IQBAL
31	Benign & Malignant Tumors Of Thyroid	DR. FURQAN AHMED BHATTI
32	TEAM BASED LEARNING (TBL)	ALL TEACHERS

SUBJECT: CLINICAL PATHOLOGY (PRACTICALS)

NO	TOPIC	TEACHER
01	Interpretation of Complete Blood Counts	DR. FAHEEM AHMED MEMON
02	Lab interpretation of Iron Deficiency Anemia	DR. YASMEEN BHUTTO
03	Lab interpretation of Megaloblastic Anemia	DR. SADIA AKBAR
04	Lab interpretation of Hemolytic Anemia	DR. AAMIR RAMZAN
05	Haemoglobinopathies	DR. NAZIA MUMTAZ
06	Lab interpretation of Pathological Leucocytosis	DR. SHABNUM RUSTAMANI
07	Team BASED LEARNING (TBL)	ALL TEACHERS
08	Lab interpretation of Acute Leukemia's	DR. KHALIL AHMED MEMON
09	Lab interpretation of Chronic Leukemia's	DR. MUHAMMAD ALI MEMON
10	Blood Groups & Blood Transfusion reactions	DR. FAHEEM AHMED MEMON
11	Laboratory Diagnosis of bleeding disorders	DR. KHALIL AHMED MEMON
12	TEAM BASED LEARNING (TBL)	ALL TEACHERS
13	Pleural Effusion DR	DR. MUHAMMAD ALI MEMON
14	Liver Functions Tests	DR. SHABNUM RUSTAMANI
15	CSF DR	DR. YASMEEN BHUTTO
16	Stool DR	DR. AAMIR RAMZAN
17	TEAM BASED LEARNING (TBL)	ALL TEACHERS
18	Lipid Profile	DR. NAZIA MUMTAZ
19	Cardiac Enzymes	DR. SADIA AKBAR
20	Pericarditis	DR. MUHAMMAD ALI MEMON
21	TEAM BASED LEARNING (TBL)	ALL TEACHERS
22	Urine DR-I	DR. SHABNUM RUSTAMANI
23	Urine DR-II	DR. SHABNUM RUSTAMANI
24	Renal Function Tests	DR. AAMIR RAMZAN
25	TEAM BASED LEARNING (TBL)	ALL TEACHERS
26	Laboratory interpretation of Diabetes mellitus	DR. MUHAMMAD ALI MEMON
27	Thyroid Function Tests	DR. NAZIA MUMTAZ
28	Laboratory interpretation of Parathyroid Diseases	DR. YASMEEN BHUTTO
29	TEAM BASED LEARNING (TBL)	ALL TEACHERS
30	Semen D/R	DR. KHALIL AHMED MEMON
31	Pap Smear Examination	DR. SADIA AKBAR
32	TEAM BASED LEARNING (TBL)	ALL TEACHERS

INSTITUTE OF OPHTHALMOLOGY

TEACHING FACULTY			
PROFESSORS			
01	DIRECTOR : Prof Ashok Kumar Narsani	02	CO-DIRECTOR : Professor Arshad Ali Lodhi
	ASSOCIATE PROFESSORS	04	Dr. Mehtab Alam Khanzada
03	Dr. Munawar Ahmed	05	Dr. Mariya Nazish Memon
	ASSISTANT PROFESSORS		
06	Dr. Noman Ahmed Shaikh	07	Dr. Azfar Ahmed Mirza
08	Dr. Ghazi Khan Muree	09	Dr. Ghulam Hyder Sahito
10	Dr. Imtiaz Ahmed Gilal	11	Dr. Asadullah Jatoi
12	SENIOR LECTURER: Dr. Irfan Memon	13	SENIOR REGISTRAR: Dr Moona Liza Mahesar

SUBJECT: OPHTHALMOLOGY (EYE)

TEACHER: PROFESSOR ASHOK KUMAR NARSANI
CHAPTER: GLAUCOMA
<ul style="list-style-type: none"> • Physiology of aqueous humor formation & its circulation • Primary open Angle Glaucoma • Primary Angle Closure Glaucoma • Congenital Glaucoma • Secondary Glaucoma – Lens induced , neovascular, Inflammatory
TEACHER: PROFESSOR ARSHAD ALI LODHI
CHAPTER: EYE LIDS
<ul style="list-style-type: none"> • Blepharitis • Sty, Chalazion, Trichiasis • Ectropion, Entropion • Ptosis • Tumors
CHAPTER: ORBIT
<ul style="list-style-type: none"> • Orbital Cellulites • Proptosis
TEACHER: DR. MUNAWAR AHMED
CHAPTER: LENS
<ul style="list-style-type: none"> • Lens structure and Functions • Congenital Cataract • Acquired Cataract • Aphakia / Rehabilitation of vision after cataract extraction
TEACHER: DR. MAHTAB ALAM KHANZADA
CHAPTER: RETINA
<ul style="list-style-type: none"> • Diabetic Retinopathy • Hypertensive Retinopathy • Retinal Detachment • Central Retinal Vein & Artery Occlusion • Retinopathy of Prematurity • Retinitis Pigmentosa
TEACHER: DR. MARIYA NAZISH MEMON
CHAPTER: SQUINT AND AMBLYOPIA
<ul style="list-style-type: none"> • Extraocular muscles and Ocular movements • Non-paralytic Squint • Paralytic Squint • Amblyopia

TEACHER: DR. NOMAN AHMED SHAIKH	
CHAPTER: OCULAR INJURIES	
<ul style="list-style-type: none"> • Extra ocular Foreign Bodies • Blunt injuries • Perforating injuries • Chemical injuries 	
CHAPTER: CONJUNCTIVA	
<ul style="list-style-type: none"> • Red Eye • Infective – Bacterial and Viral Conjunctivitis • Infective – Chlamydial conjunctivitis • Ophthalmia neonatorum • Allergic conjunctivitis • Pterygium & Pingecula 	
TEACHER: DR. AZFAR AHMED MIRZA	
CHAPTER: UVEAL TRACT	
<ul style="list-style-type: none"> • Introduction and classification of Uveitis • Acute Iridocyclitis & Chronic Iridocyclitis 	
TEACHER: DR. GHAZI KHAN	
CHAPTER: CORNEA	
<ul style="list-style-type: none"> • Infective Keratitis (Bacterial, Fungal and Amoebic) • Viral Keratitis • Non- Infective Keratitis (Moorens Ulcer) • Keratoplasty and other surgical procedure 	
TEACHER: DR. IMTIAZ AHMED GILAL	
CHAPTER: ERRORS OF REFRACTION	
<ul style="list-style-type: none"> • Introduction to optical system of normal eye, Emertropia • Hypermetropia • Myopia • Astigmatism + Presbyopia 	
TEACHER: DR. GHULAM HYDER SAHITO	
TOPIC: Vitamin A deficiency	
CHAPTER: LACRIMAL APPARATUS	
<ul style="list-style-type: none"> • Composition and function of tear film + Epiphora(Excessive watering) • Dry Eye • Dacrocystitis (Acute and Chronic) 	
TEACHER: DR. ASADULLAH Jatoi	
TOPIC: Causes of Sudden vision Loss	
CHAPTER: VISUAL PATHWAY	
<ul style="list-style-type: none"> • Visual Pathway and its lesions 	
CHAPTER: PUPIL	
<ul style="list-style-type: none"> • Normal pupil reflex and abnormalities 	
CHAPTER: OPTIC NERVE	
<ul style="list-style-type: none"> • Papilloedema • Optic Neuritis 	
TEACHER: DR. MOONA LIZA MAHESAR	
CHAPTER: OCCULAR THERAPEUTICS	
<ul style="list-style-type: none"> • Drugs used in common ophthalmic conditions 	
CHAPTER: SCLERA	
<ul style="list-style-type: none"> • Episcleritis • Scleritis 	

DEPARTMENT OF OTORHINOLARYNGOLOGY (ENT)

S #	TEACHING FACULTY
01	CHAIRMAN AND PROFESSOR: Professor. Mushtaque Ali Memon
02	ASSOCIATE PROFESSOR: Dr. Arsalan Ahmed Shaikh

SUBJECT: OTORHINOLARYNGEOLOGY (ENT)

OTOLOGY
<ol style="list-style-type: none">1. CLINICAL BASICS OF HEARING AND BALANCE2. SYMPTOMATOLOGY OF EAR DISEASES3. DISEASES OF EXTERNAL EAR4. DISORDERS OF TYMPANIC MEMBRANE5. DISEASES OF MIDDLE EAR6. SURGERY OF MIDDLE EAR7. ASSESSMENT OF HEARING8. ASSESSMENT OF BALANCE & EQUILIBRIUM9. DISORDERS OF INTERNAL EAR
RHINOLOGY
<ol style="list-style-type: none">1. CLINICAL BASICS OF NOSE AND PARA NASAL SINUSES2. SYMPTOMATOLOGY OF NOSE AND PARA NASAL SINUSES3. DISORDERS OF NASAL SEPTUM OF NASAL CAVITY4. INFLAMMATORY CONDITION OF NASAL CAVITY5. INFLAMMATORY CONDITION OF PARA NASAL SINUSES6. MISCELLANEOUS CONDITION OF NOSE AND PARA NASAL SINUSES7. NEOPLASTIC CONDITION OF NOSE AND PARA NASAL SINUSES
ORAL CAVITY, PHARYNX & OESOPHAGUS
<ol style="list-style-type: none">1. CLINICAL BASICS OF ORAL CAVITY, PHARYNX & OESOPHAGUS2. SYMPTOMATOLOGY OF ORAL CAVITY, PHARYNX & OESOPHAGUS3. DISORDERS OF ORAL CAVITY4. DISEASES OF NASOPHARYNX5. DISEASES OF OROPHARYNX6. DISEASES OF HYPOPHARYNX7. DISEASES OF OESOPHAGUS
LARYNGOLOGY
<ol style="list-style-type: none">1. CLINICAL BASICS OF UPPER & LOWER AIRWAY TRACT2. SYMPTOMATOLOGY OF LARYNX3. CONGENITAL CONDITIONS OF LARYNX4. INFLAMMATORY CONDITIONS OF LARYNX5. NON NEOPLASTIC CONDITIONS OF LARYNX6. NEOPLASTIC CONDITIONS OF LARYNX7. MISCELLANEOUS CONDITIONS OF LARYNX, TRACHEA AND BRONCHUS8. MANAGEMENT OF AIRWAY

FACULTY OF SURGERY AND ALLIED LECTURES

DEPARTMENT OF ORTHOPAEDIC SURGERY & TRAUMATOLOGY (DOST)

S #	TEACHING FACULTY		
01	PROFESSOR AND CHAIRMAN : Professor Asadullah Makhdoom		
	ASSOCIATE PROFESSORS		
02	Dr. Syed Muhammad Ali	03	Dr. Faheem Ahmed Memon
	ASSISTANT PROFESSORS		
04	Dr. Irshad Ahmed Bhutto	07	Dr. Siraj Ahmed Butt
05	Dr. Zamir Hussain Tunio	08	Dr. Shakeel Ahmed Memon
06	Dr. Muhammad Faraz Jokhio	09	Dr. Imran Khan Maher
	SENIOR REGISTRARS	10	Dr. Iftikhar Ahmed Memon
11	Dr. Nizam Ahmed Baloch	12	Dr. Lachman Das Pirbudas Rathi
	TOPICS		TEACHER
01	General Principles of fracture Management		PROF DR. ASADULLAH MAKHDOOM
02	Acute & Chronic Osteomyelitis		
03	Acute Septic Arthritis		
04	Shoulder and Hip Dislocation		DR. SYED MUHAMMAD ALI
05	Management Common Long Bone Fractures Upper Limb		
06	Management Common Long Bone Fractures Lower Limb		
07	Management of Open Fractures		DR. FAHEEM AHMED MEMON
08	Management of Spine Injuries		
09	Metastatic Bone Disease		
10	TEV +DDH		DR. IRSHAD AHMED BHUTTO
11	T.B Spine		DR. ZAMIR HUSSAIN TUNIO
12	Complications of Fractures		DR. MUHAMMAD FARAZ JOKHIO

DEPARTMENT OF UROLOGY

S #	TEACHING FACULTY		
01	INCHARGE AND ASSOCIATE PROFESSOR : Dr. Javed Altaf Jat		
02	ASSOCIATE PROFESSOR : Dr. Zakir Hussain Rajpar		
	ASSISTANT PROFESSORS		
03	Dr. Kashif-ud- Din Soomro	04	Dr. Imran Idrees Memon
	SENIOR REGISTRARS	06	Dr. Shoukat Ali Mughal
05	Dr. Waqar Ahmed Memon	07	Dr. Syed Azhar Hussain
TEACHERS: Dr. Kashif-ud- Din Soomro AND Dr. Imran Idrees Memon			
TOPICS	<ol style="list-style-type: none"> 1. Introduction and symptomatology of urology 2. Investigations in urology 3. Benign Prostatic Hypertrophy (BPH) 4. Urolithiasis 		

DEPARTMENT OF PEDIATRICS SURGERY

TEACHING FACULTY			
01	CHAIRMAN AND PROFESSOR : Professor Nand lal Kella		
	ASSISTANT PROFESSORS		
02	Dr. Mumtaz Ahmed Qureshi	03	Dr. Imtiaz Ahmed Qureshi
TOPICS	1. Pyloric Stenosis 2. Anorectal Malformation 3. Gastro-esophageal reflux 4. Hirschsprungs Disease 5. Intussusceptions 6. Umbilical Anomalies		

FACULTY OF MEDICINE AND ALLIED LECTURES

DEPARTMENT OF PEDIATRICS

TEACHING FACULTY			
	PROFESSORS		
01	CHAIRPERSON : Prof Shazia Memon		
02	Prof. Farzana Parveen Shaikh	03	Prof. Chetan Das
	ASSOCIATE PROFESSOR		
04	Dr. Abdul Rehman Siyal	05	Dr. Ghulam Shabir Laghari
	ASSISTANT PROFESSORS		
06	Dr. Nadeem Chohan	07	Dr. Abdul Hameed Radhan
	SENIOR REGISTRAR	08	Dr. Syed Mushtaque Ali Shah
09	Dr. Saroop Chand	10	Dr. Zameer Ahmed Qambrani
11	Dr. Khuda Bux	12	Dr. Muhammad Touseef
	CLINICAL DEMONSTRATORS		
13	Dr. Fouzia Aijaz Shaikh	14	Dr. Aisha Ahmed

S.NO	TOPICS	UNIT	TEACHER
1	Introduction of Pediatrics and history taking, Assessment of Growth and Development. Normal growth velocity	I	DR. SYED MUSHTAQ AHMED
2	Introduction to emergency signs and priority signs during assessment of sick child check for general danger signs	II	DR. KHUDA BUX
3	Referral System in children from basic health center to tertiary level	I	DR. M. NADEEM CHOHAN
4	EPI vaccine and Schedule	II	DR. ABDUL HAMEED RADHAN
5	General Introduction to IMNCI (how integrated),	I	DR. SYED MUSHTAQ AHMED
6	Introduction to IMNCI: CRF with importance of 5 main symptoms	II	DR. ZAMEER QAMBRANI
7	Introduction to CMAM: Role of community Screening	I	DR. M. NADEEM CHOHAN

8	Assess disorder feeding, Normal nutrition in children: Key Message of IYCF	II	DR. ABDUL HAMEED RADHAN
9	Approach to child with cough & difficulty breathing. Burden of pneumonia in children	I	DR. SYED MUSHTAQ AHMED
10	Approach to child with diarrhea: IMNCI case me	II	DR. KHUDA BUX
11	Approach to child with fever: IMNCI Malaria Guideline	I	DR. M. NADEEM CHOHAN
12	Introduction to ENCC (routine newborn care and breast feeding) (10 steps of BFHI)	II	DR. ABDUL HAMEED RADHAN

DEPARTMENT OF PSYCHIATRY

S #	TEACHING FACULTY		
01	PROFESSOR AND CHAIRMAN: Professor Moin Ahmed Ansari		
	ASSISTANT PROFESSORS	02	Dr. Sadaf Aijaz Arain
03	Dr. Qasim Jamal Chachar	04	Dr. Jamil Junejo
05	CLINICAL PSYCHOLOGIST: Ms. Ayesha Nighat		
TOPICS			
PSYCHIATRY & BEHAVIORAL SCIENCES			
<div>1. Introduction to Psychiatry and related Subjects</div> <div>2. Schizophrenia and related Disorders</div> <div>3. Schizophrenia and related Disorders</div> <div>4. Mood Disorders</div> <div>5. Mood Disorders</div> <div>6. Anxiety Disorders</div> <div>7. Somatoform Disorders</div> <div>8. Dissociative Disorders</div> <div>9. Personality Disorders</div> <div>10.Substance Use Disorder</div> <div>11.Suicide</div> <div>12.Mental Retardation</div> <div>13.Culture bound Syndromes</div> <div>14.Health belief models. Beliefs, attitudes, values, myths, Child rearing practice. Stigma</div> <div>15.Definition & classification of stress. Stressors. Management of stress.</div> <div>16. Relationship of stress & stressors to illness. Coping skills. Adjustment & mal adjustment.</div> <div>Conflict and Frustration. Concept of life events & their relationship with stress & illness</div>			

CLINICAL ROTATION

The mandatory clinical ward rotation in 4th Year M.B.B.S. is 3 weeks long (4 days a week, hence 12 days long) aims to provide students a direct exposure to psychiatric patient via bedside learning and to develop competence in psychiatric interviewing skills, mental state examination, recognition of symptoms, adequate referral along with an in-depth knowledge of commonly occurring neurotic illness with special focus on various dimensions of suicide.

CONTENTS OF CLINICAL ROTATION		TEACHING STRATEGIES
Day 1	Basic Concepts <ul style="list-style-type: none"> ○ Definitions of Psychiatry ○ Diagnostic Classification Systems ○ Terms used in Psychiatry ○ Phenomenology 	➤ Tutorials by followed by Interactive Session

Day 2	Communication Skills <ul style="list-style-type: none"> ○ Desirable attitudes in health professionals ○ Communication and Interviewing skills ○ Characteristics of a good communicator ○ History Taking skills ○ Doctor Patient Relationship, boundaries & psychological reactions in doctor-patient relationship, transference & counter transference. ○ Professionalism in Health Care: how to assess attitudes. Empathy amongst medical students. 	<ul style="list-style-type: none"> ➤ Tutorials followed by Interactive Session ➤ Role Playing
Day 3	Psychiatric History Taking <ul style="list-style-type: none"> ○ Developing Therapeutic Relationship ○ Phrasing questions ○ Collecting demographic details ○ History of presenting illness ○ Family History ○ Past History ○ Personal History ○ Premorbid Personality ○ Assessment of Personality 	<ul style="list-style-type: none"> ➤ Tutorials followed by Interactive Session ➤ Bed Side Teaching
Day 4	Mental Status Examination <ul style="list-style-type: none"> ○ Areas of Assessment ○ Method of Assessment ○ Mental state examination. ○ Cognitive errors. Defense mechanism ○ General Management ○ Informational Care. Counseling & its indications & contraindications. Conflict resolution 	<ul style="list-style-type: none"> ➤ Tutorials followed by Interactive Session ➤ Bed Side Teaching
Day 5	Psychiatric Interview of a Psychotic Patient <ul style="list-style-type: none"> ○ Dealing with difficult patients & management. ○ Crisis management/disaster management. ○ Dealing with real life crisis & conflict situations in health settings. ○ Problem solving & decision making strategies. 	<ul style="list-style-type: none"> ➤ Tutorials followed by Interactive Session ➤ Bed Side Teaching
Day 6	Obtaining Psycho-Social History <ul style="list-style-type: none"> ○ ABC Model ○ Interplay of Thoughts-Emotions-Behavior ○ Stressors ○ Stress & Coping Strategies ○ Social Support 	<ul style="list-style-type: none"> ➤ Tutorials followed by Interactive Session ➤ Role Model ➤ Out Patient Teaching
Day 7	Depressive & Anxiety Disorders <ul style="list-style-type: none"> ○ Screening Questions ○ Diagnostic Criteria ○ Assessment of Disturbances in Functionality 	<ul style="list-style-type: none"> ➤ Tutorials followed by Interactive Session ➤ Scenario Based Discussion

Day 8	Psychiatric Interview of a Neurotic Patient <ul style="list-style-type: none"> ○ Assessment of Disturbance in Functionality ○ Real Life Crisis & Crisis management ○ Elements of Counselling ○ Problem Solving & Decision Making strategies. 	<ul style="list-style-type: none"> ➤ Tutorials followed by Interactive Session ➤ Outpatient Teaching ➤ Role Playing
Day 9	Suicide <ul style="list-style-type: none"> ○ Risk Assessment ○ Prevention 	<ul style="list-style-type: none"> ➤ Tutorials followed by Interactive Session ➤ Role Playing ➤ Scenario Based Discussion
Day 10	Psychiatric Assessment in Community	➤ Workshop (via using MINI)
Day 11	Formative Assessment of Skills	➤ Case Presentation & Feedback
Day 12	Assessment	

DEPARTMENT OF DERMATOLOGY (SKIN)

S #	TEACHING FACULTY
01	INCHARGE AND ASSISTANT PROFESSOR : Dr. Hafiz Bashir Ahmed Kalhoro
	TEACHER: DR. HAFIZ BASHIR AHMED KALHORO
	TOPICS
	<ul style="list-style-type: none"> ✚ Leishmaniasis ✚ Bacterial infections ✚ Fungal infections ✚ Viral infections

SUBJECT: SURGICAL SKILLS [SKILL LAB]

INCHARGE: PROFESSOR ASADULLAH MAKHDOOM

	TOPICS	
1	Examination of Breast	5 Examination of Ear
2	Examination of Testis	6 Peritoneal Dialysis
3	Examination of Prostate	7 Nasal Hemorrhage
4	Examination of Eye,	8 Evaluation

BOOKS RECOMMENDED

COMMUNITY MEDICINE

- Text book of Community Medicine & public health by Ilyas
- Text Book of Prevention & Social Medicine by J E PARK

SPECIAL PATHOLOGY

- Basis of Pathology (Robbins)
- Basis of Disease of Pathology (Robbins)

OPHTHALMOLOGY (EYE)

- Clinical Ophthalmology By Professor Shafi Muhammad Jatoti
- Parson's Text book of Ophthalmology
- Basic Ophthalmology By RenuJogi

ENT

- P L Dingra
- Iqbal Udharpurwala