



**INDUS MEDICAL COLLEGE HOSPITAL**  
**TANDO MUHAMMAD KHAN**  
**STUDENTS GUIDE BOOK**

**FOURTH PROFESSIONAL**

**7<sup>TH</sup> & 8<sup>TH</sup> SEMESTERS**

**Batch 2015-2016**

**Academic session 2018-2019**

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# MESSAGE



It is a great pleasure and honor for me to write this message for the 7<sup>th</sup> and 8<sup>th</sup> Semester students of Indus Medical College Tando Muhammad Khan. To run an institution of this magnitude is itself a tribute to the founding members, professionals, investors and citizens of Tando Muhammad Khan. The credit goes to the vision of Professor Jan Muhammad Memon CEO of Indus Medical College who is a visionary Medical Educationist. This institution has opened the doors of quality medical education for the bright youngsters of the area to become doctors and serve the community but has become a hub of patient care of the poor, disadvantaged and rural community of the area in a short span of time.

IMC faculty stands committed with the vision statement of the institution:

**“To prepare competent graduate doctors in the field of medicine who are able to serve the population locally & globally using evidence based practices with utmost professionalism”**

Remember dear students today's medical education is imparted as an active learning process where teacher is guide by side who ignites a flame of light in the learners to not only seek the knowledge, learn the skills but become a life long learner demonstrating a humane and professional behavior to the teachers, colleagues and ailing community.

I wish the upcoming doctors a warm welcome and assure them the endeavors of faculty to impart them quality medical education to become a seven star doctor to serve the community.

*Prof M Akbar Nizamani*

Professor Pediatrics

Principal Indus Medical College

Tando Muhammad Khan

# **ACADEMIC CALENDER**

**BATCH: 2015-16**

**FOURTH PROFESSIONAL MBBS**

## **SEVENTH SEMESTER**

|                                |                                                     |
|--------------------------------|-----------------------------------------------------|
| Classes will start from        | 10 <sup>th</sup> December 2018                      |
| Classes will End on            | 30 <sup>th</sup> March 2019                         |
| Preparation leaves             | 01 <sup>st</sup> to 14 <sup>th</sup> April 2019     |
| Theory + OSPE Examination      | 15 <sup>th</sup> April to 11 <sup>th</sup> May 2019 |
| Summer Vacation + Eid-ul-Fiter | 12 <sup>th</sup> May to 16 <sup>th</sup> June 2019  |

## **EIGHTH SEMESTER**

|                           |                                                            |
|---------------------------|------------------------------------------------------------|
| Classes will start from   | 17 <sup>th</sup> June 2019                                 |
| Classes will End on       | 05 <sup>th</sup> October 2019                              |
| Preparation leaves        | 6 <sup>th</sup> to 20 <sup>th</sup> October 2019           |
| Theory + OSPE Examination | 21 <sup>st</sup> October to 23 <sup>rd</sup> November 2019 |
| Semester Break            | 24 <sup>th</sup> November to 8 <sup>th</sup> December 2019 |

|                                                                                 |
|---------------------------------------------------------------------------------|
| <b>THE NINTH SEMESTER CLASSES WILL START FROM: 9<sup>TH</sup> DECEMBER 2019</b> |
|---------------------------------------------------------------------------------|

# WEEKLY TIME TABLE

7<sup>TH</sup> & 8<sup>TH</sup> SEMESTER

FOURTH PROFESSIONAL MBBS BATCH: 2015-16

| TIME                     | MONDAY                                                                              |                                             | TUESDAY                                                                     |                                             | WEDNESDAY                                                                     |                                  | THURSDAY                                                                                                | FRIDAY                                                           |                                                                |
|--------------------------|-------------------------------------------------------------------------------------|---------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------|-------------------------------------------------------------------------------|----------------------------------|---------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------|
| 08:30am<br>To<br>09:30am | COMMUNITY<br>MEDICINE<br><br>Dr. Khalil Qazi                                        |                                             | PATHOLOGY<br><br>Dr. Shomail<br>Saeed                                       |                                             | EYE<br><br>Dr.<br>Shahzad /<br>Dr. Mohsin                                     | E.N.T<br><br>Dr. Shahid<br>Malik | PATHOLOGY<br>LABORATORY<br><br><br>Dr. Aakash/<br>Dr. Ibadat/<br>Dr. Mehnaz                             | COMMUNITY<br>MEDICINE<br>Dr. Masood Ahmed                        |                                                                |
| 09:30am<br>To<br>10:30am | EYE<br><br>Prof.<br>Rizwan<br>Akhund                                                | E.N.T<br><br>Prof.<br>Sohail<br>A.<br>Malik | EYE<br><br>Prof.<br>Rizwan<br>Akhund                                        | E.N.T<br><br>Prof.<br>Sohail<br>A.<br>Malik | PATHOLOGY<br><br>Dr. Naseer Ahmed                                             |                                  |                                                                                                         | EYE<br><br>Dr.<br>Shahzad<br>/ Dr.<br>Mohsin                     | E.N.T<br><br>A.Prof.<br>Mukhtar<br>/<br>Dr.<br>Anwar<br>ul Haq |
| 10:30am<br>To<br>12:00pm | PATHOLOGY<br>LABORATORY<br><br>Dr. Akash/<br>Dr. Huma<br>Majeed/<br>Dr. Huma Abbasi |                                             | MEDICINE &<br>ALLIED<br>10:30 – 11:30<br><br>Professor / Asst.<br>Professor |                                             | SURGERY ALLIED<br>(ORTHOPEDIC)<br>10:30 - 11:15<br><br>Prof. A. Rehman Shaikh |                                  | COMMUNITY<br>MEDICINE<br>LECTURE/<br>DISCUSSION<br>10:30 - 11:15<br>Prof.<br>Muhammad<br>Saeed Siddiqui | PATHOLOGY<br><br>Prof. Manzoor<br>Ahmed Memon                    |                                                                |
|                          |                                                                                     |                                             | PATHOLOGY<br>11:30 – 12:30<br><br>Prof. Naseer<br>Ahmed                     |                                             | GENERAL SURGERY<br>11:15 – 12:30<br>Professor / Asst.<br>Professor            |                                  | COMMUNITY<br>MEDICINE<br>11:15- 12:00<br>Dr. Bashir/<br>Dr. Rafaina/<br>Dr. Saba                        |                                                                  |                                                                |
| 12.30pm<br>To<br>3:00pm  | HOSPITAL<br>POSTING                                                                 |                                             | HOSPITAL<br>POSTING                                                         |                                             | PATHOLOGY P.B.L<br><br>Prof. Manzoor<br>Ahmed Memon                           |                                  | HOSPITAL<br>POSTING                                                                                     | COMMUNITY<br>MEDICINE<br>Dr. Bashir/<br>Dr. Rafaina/<br>Dr. Saba |                                                                |

VENUE : LECTURE HALL LEVEL 4

**SCHEDULE OF HOSPITAL POSTING**  
**FOURTH PROFESSIONAL MBBS BATCH 2015-16**  
**7<sup>TH</sup> SEMESTER**

| <b>Date</b>                                         | <b>EYE</b>   | <b>ENT</b>   | <b>Pediatric</b> | <b>Medicine &amp;<br/>Allied<br/>(Cardiology /<br/>Dermatology/<br/>Psychiatry)</b> | <b>Surgical &amp;<br/>Allied Urology/<br/>Neurosurgery/<br/>Paediatric<br/>surgery</b> | <b>OBS:<br/>GYNAE</b> |
|-----------------------------------------------------|--------------|--------------|------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------|
| <b>10 December 2018<br/>to<br/>23 December 2018</b> | <b>A1-A2</b> | <b>B1-B2</b> | <b>A-3</b>       | <b>A-4</b>                                                                          | <b>B-3</b>                                                                             | <b>B-4</b>            |
| <b>24 Dec to 6 Jan<br/>2019</b>                     | <b>A3-A4</b> | <b>B3-B4</b> | <b>A-1</b>       | <b>A-2</b>                                                                          | <b>B-1</b>                                                                             | <b>B-2</b>            |
| <b>7 Jan to 20 Jan<br/>2019</b>                     | <b>A1-A2</b> | <b>B1-B2</b> | <b>A-3</b>       | <b>A-4</b>                                                                          | <b>B-3</b>                                                                             | <b>B-4</b>            |
| <b>21 Jan to 3 Feb<br/>2019</b>                     | <b>A3-A4</b> | <b>B3-B4</b> | <b>A-1</b>       | <b>A-2</b>                                                                          | <b>B-1</b>                                                                             | <b>B-2</b>            |
| <b>4 Feb to 17 Feb<br/>2019</b>                     | <b>A1-A2</b> | <b>B1-B2</b> | <b>A-3</b>       | <b>A-4</b>                                                                          | <b>B-3</b>                                                                             | <b>B-4</b>            |
| <b>18 Feb to 3 March<br/>19</b>                     | <b>A3-A4</b> | <b>B3-B4</b> | <b>A-1</b>       | <b>A-2</b>                                                                          | <b>B-1</b>                                                                             | <b>B-2</b>            |
| <b>4 March to<br/>17 March 2019</b>                 | <b>A1-A2</b> | <b>B1-B2</b> | <b>A-3</b>       | <b>A-4</b>                                                                          | <b>B-3</b>                                                                             | <b>B-4</b>            |
| <b>18 March to<br/>31 March 2019</b>                | <b>A3-A4</b> | <b>B3-B4</b> | <b>A-1</b>       | <b>A-2</b>                                                                          | <b>B-1</b>                                                                             | <b>B-2</b>            |

**SCHEDULE OF HOSPITAL POSTING**  
**FOURTH PROFESSIONAL MBBS BATCH 2015-16**  
**8<sup>TH</sup> SEMESTER**

| <b>Date</b>                            | <b>EYE</b>   | <b>ENT</b>   | <b>Pediatric</b> | <b>Medicine &amp; Allied<br/>(Cardiology / Dermatology/<br/>Psychiatry)</b> | <b>Surgical &amp; Allied Urology/<br/>Neurosurgery/<br/>Paediatric surgery</b> | <b>OBS:<br/>GYNAE</b> |
|----------------------------------------|--------------|--------------|------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------|
| <b>10 June to 23 June 2019</b>         | <b>B1-B2</b> | <b>A1-A2</b> | <b>B-3</b>       | <b>B-4</b>                                                                  | <b>A-3</b>                                                                     | <b>A-4</b>            |
| <b>24 June to 07 July 2019</b>         | <b>B3-B4</b> | <b>A3-A4</b> | <b>B-1</b>       | <b>B-2</b>                                                                  | <b>A-1</b>                                                                     | <b>A-2</b>            |
| <b>08 July to 21 July 2019</b>         | <b>B1-B2</b> | <b>A1-A2</b> | <b>B-4</b>       | <b>B-3</b>                                                                  | <b>A-4</b>                                                                     | <b>A-3</b>            |
| <b>22 July to 01 August 2019</b>       | <b>B3-B4</b> | <b>A3-A4</b> | <b>B-2</b>       | <b>B-1</b>                                                                  | <b>A-2</b>                                                                     | <b>A-1</b>            |
| <b>05 August to 18 August 19</b>       | <b>B1-B2</b> | <b>A1-A2</b> | <b>B-3</b>       | <b>B-4</b>                                                                  | <b>A-3</b>                                                                     | <b>A-4</b>            |
| <b>19 August to 31 August 19</b>       | <b>B3-B4</b> | <b>A3-A4</b> | <b>B-1</b>       | <b>B-2</b>                                                                  | <b>A-1</b>                                                                     | <b>A-2</b>            |
| <b>02 Sept to 15 September 2019</b>    | <b>B1-B2</b> | <b>A1-A2</b> | <b>B-4</b>       | <b>B-3</b>                                                                  | <b>A-4</b>                                                                     | <b>A-3</b>            |
| <b>16 September to 03 October 2019</b> | <b>B3-B4</b> | <b>A3-A4</b> | <b>B-2</b>       | <b>B-1</b>                                                                  | <b>A-2</b>                                                                     | <b>A-1</b>            |

# **TEACHING HOURS**

## **COMMUNITY MEDICINE**

|                         |                          |           |
|-------------------------|--------------------------|-----------|
| LECTURES                | 3x1 Hour/week x 16 weeks | =48 Hours |
| DISCUSSION              | 3x1 Hour/week x 16 weeks | =48 Hours |
| DISCUSSION/FIELD VISITS | 3x1 Hour/week x 16 weeks | =48 Hours |
| TOTAL=                  |                          | 128Hours  |

## **SPECIAL PATHOLOGY**

|                                 |                          |           |
|---------------------------------|--------------------------|-----------|
| LECTURES (SPECIAL PATHOLOGY)    | 4x1 Hour/week x 16 weeks | =64 Hours |
| PRACTICALS (SYSTEMIC PATHOLOGY) | 1x2 Hour/week x 16 weeks | =32 Hours |
| PRACTICALS (CLINICAL PATHOLOGY) | 1x2 Hour/week x 16 weeks | =32 Hours |
| TOTAL=                          |                          | 128Hours  |

## **OPHTHALMOLOGY (EYE)**

|          |                          |           |
|----------|--------------------------|-----------|
| LECTURES | 4x1 Hour/week x 16 weeks | =64 Hours |
|----------|--------------------------|-----------|

## **OTORHINOLARYNGEOLOGY (ENT)**

|          |                          |           |
|----------|--------------------------|-----------|
| LECTURES | 4x1 Hour/week x 16 weeks | =64 Hours |
|----------|--------------------------|-----------|

## **SURGERY AND ALLIED**

|          |                          |           |
|----------|--------------------------|-----------|
| LECTURES | 2x1 Hour/week x 16 weeks | =32 Hours |
|----------|--------------------------|-----------|

## **MEDICINE AND ALLIED**

|          |                          |           |
|----------|--------------------------|-----------|
| LECTURES | 2x1 Hour/week x 16 weeks | =32 Hours |
|----------|--------------------------|-----------|

## **HOSPITAL POSTING**

|            |                          |            |
|------------|--------------------------|------------|
| PRACTICALS | 4x3 Hour/week x 16 weeks | =192 Hours |
|------------|--------------------------|------------|

Self Directed Learning/ Assignments 15 hours/ Subject/ Per Semester = 45 Hours

## **DEPARTMENT OF COMMUNITY OF MEDICINE**

| <b>S/No</b> | <b>TEACHING FACULTY</b>                                              |
|-------------|----------------------------------------------------------------------|
| 1.          | PROFESSOR & CHAIRMAN:<br>Prof. Dr. Major (R) Muhammad Saeed Siddiqui |
| 2.          | ASSOCIATE PROFESSOR<br>Dr. Ghulam Nabi Memon                         |
|             | ASSISTANT PROFESSORS                                                 |
| 3.          | Dr. Masood Ahmed                                                     |
| 4.          | Dr. Khalil – U – Rehman Kazi                                         |
|             | LECTURER                                                             |
| 5.          | Dr. Bashir Ahmed                                                     |
| 6.          | Dr. Muhammad Farooque                                                |
| 7.          | Dr. Rafaina Shah                                                     |
| 8.          | Dr. Saba Bashir                                                      |
| 9.          | Dr. Akash                                                            |
| 10.         | Other Staff<br>Miss Asifa shereen Clinical Psychologist              |

# **SUBJECT : COMMUNITY MEDICINE**

**SEMESTER : SEVENTH (THREE LECTURES / WEEK )**

|                                                                            |                                                                                                  |
|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| ¾                                                                          | <b>INTRODUCTION : Dr. Ghulam Nabi Memon</b>                                                      |
| 01                                                                         | Introduction to Community Medicine & Public Health                                               |
| 02                                                                         | Basic concepts about health, Health Dimensions / determinants of health                          |
| 03                                                                         | Health Policies and health plans                                                                 |
| 04                                                                         | Natural history of Disease & levels of prevention                                                |
| 05                                                                         | Health indicators & Millennium development Goals                                                 |
| 06                                                                         | Health Delivery system of Pakistan                                                               |
| ¾                                                                          | <b>HUMAN NUTRITION &amp; HEALTH : Dr. MASOOD AHMED</b>                                           |
| 01                                                                         | Nutritional problems of public health importance                                                 |
| 02                                                                         | Malnutrition in under 5 years age: in over 5 year age                                            |
| 03                                                                         | Nutritional requirements of children ,adults in pregnancy & Lactation                            |
| ¾                                                                          | <b>ENVIRONMENTAL HEALTH : Dr. Khalil – U – Rehman Kazi</b>                                       |
| <b>A</b>                                                                   | <b>WATER</b>                                                                                     |
| 1                                                                          | Methods of purification of water                                                                 |
| 2                                                                          | World Health organization (WHO) criteria for purification of water                               |
| <b>B</b>                                                                   | <b>GLOBAL WARMING</b>                                                                            |
|                                                                            | X Global Warming – Its effects on human health & economy                                         |
| <b>C</b>                                                                   | <b>DISPOSAL OF WASTE</b>                                                                         |
|                                                                            | X Introduction , public health Importance of water, Methods of collection and disposal of refuse |
| <b>D</b>                                                                   | <b>MEDICAL ENTOMOLOGY : Dr. Ghulam Nabi Memon</b>                                                |
| 1                                                                          | Introduction, winged insects of public health importance                                         |
| 2                                                                          | Wingless insects of public health importance                                                     |
| 3                                                                          | Methods of control of Arthropods                                                                 |
| <b>COMMUNICABLE DISEASES : Prof. Dr. Major (R) Muhammad Saeed Siddiqui</b> |                                                                                                  |
| 1.                                                                         | Introduction to communicable disease: basic concepts                                             |
| 2                                                                          | Chain of transmission & its role in infectious control                                           |
| 3                                                                          | An overview of infectious disease control programs in Pakistan                                   |
| 4                                                                          | Epidemiology & control measures for Tuberculosis                                                 |
| 5                                                                          | Epidemiology & control measures for Malaria                                                      |
| 6                                                                          | Epidemiology & control measures for Hepatitis                                                    |
| 7                                                                          | Epidemiology & control measures for Poliomyelitis                                                |
| 8                                                                          | Sexually transmitted Diseases (STDs) & HIV /AIDS and their control measures                      |
| 9                                                                          | Epidemiology & control measures for Rabies                                                       |
| 10                                                                         | Epidemiology & control measures of Tetanus                                                       |
| 11                                                                         | Epidemiology & control measures for Dengue Fever                                                 |
| 12                                                                         | Droplet infections ( Measles, Mumps)                                                             |
| 13                                                                         | Droplet infections (Measles, Mumps)                                                              |
| 13                                                                         | Droplet infections (Influenza)                                                                   |
| 14                                                                         | Droplet infections (Meningitis)                                                                  |

## **DEMONSTRATION CLASSES IN GROUPS**

|                                                                                |
|--------------------------------------------------------------------------------|
| <b>INTRODUCTION : Dr. Bashir Ahmed</b>                                         |
| 1. Public health problems of Pakistan & Human Development Index (HDI)          |
| 2. Primary Health care                                                         |
| 3. Spectrum of health & ice-berg phenomenon of diseases                        |
| <b>IMMUNOLOGY &amp; EXPANDED PROGRAM ON IMMUNIZATION EPI : Dr. Saba Bashir</b> |
| 1. Active / Passive Immunity & live / killed vaccines – toxoids                |
| 2. EPI- History , Cold chain its role in preventing deaths in children         |
| <b>HUMAN NUTRITION AND HEALTH : Dr. Rafaina Shah</b>                           |
| 1. Macronutrients & Micronutrients deficiencies                                |
| 2. Food surveillance : milk borne meat borne & fish borne disease              |
| 3. Balanced Diet & Dietary fibers                                              |
| 4. Food preservation , food fortification & food adulteration                  |
| <b>ENVIRONMENTAL HEALTH: Dr. Muhammad Farooq</b>                               |
| <b>WATER</b>                                                                   |
| 1. Hydrological cycle & sources of water pollution                             |
| 2. Health hazards arising from consuming polluted water, water borne disease.  |
| 3. Slow sand & rapid sand filter                                               |
| <b>AIR &amp; VENTILATION</b>                                                   |
| 1. Composition of air, Vitiating of air                                        |
| 2. Sources and Hazards of Air Pollution                                        |
| <b>DISPOSAL OF WASTE</b>                                                       |
| 1. Methods of disposal of human excreta & sewage                               |
| 2. Hospital waste management                                                   |

|                                                                              |
|------------------------------------------------------------------------------|
| <b>OTHER TOPICS OF ENVIRONMENTAL HEALTH</b>                                  |
| 1. Requirments of healthy house                                              |
| 2. Noise pollution                                                           |
| 3. Rediatio hazards                                                          |
| 4. Tobacco & Health                                                          |
| <b>COMMUNICABLE DISEASES : Dr. Aakash</b>                                    |
| 1. Depidemiology & control measures for Rabies & yellow fever                |
| 2. Epidemiology & control measures for Cholera & other Diarrheal Diseases    |
| 3. Epidemiology & control measures for Amebiasis & Food poisoning            |
| 4. Epidemiology & control measures for Leishmaniasis                         |
| 5. Epidemiology & control measures for Hook worm infestation                 |
| 6. Droplet infection: Chicken Pox                                            |
| 7. Droplet Infection :Diphtheria and Whooping Cough                          |
| <b>OTHER DEMONTRATION CLASSES : Dr. Saba Bashir</b>                          |
| 1. Health Education & Communication                                          |
| 2. Personal Hygiene                                                          |
| 3. Rural & Urban Health                                                      |
| 4. School Health Services                                                    |
| 5. Disaster Management                                                       |
| <b>SOCIAL SCIENCES : Introduction , Types of families &amp; Social evils</b> |

## **FIELD VISITS**

|                                                                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. EPI Center LUH Jamshoro<br>2. Water Filter Plant<br>3. Basic Health Unit (BHU) Khuda ki Basti<br>4. Rural Health Center (RHC) Unarpur<br>5. TB Sanatorium Kotri |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## **SKILL LEARNING (PROBLEM BASED LEARNING)**

**PROF. DR. MAJOR (R) MUHAMMAD SAEED SIDDIQUI**

**DR. RAFAINA SHAH**

1. To fill mother's card/ Vaccination card
2. Household methods of purification of water
3. Hand washing
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 of immunization
2. Role play on counseling the mother for proper wearing of her infant
3. Role play on counseling the mother regarding malaria in her child and using malaria protection measures
4. Role play on counseling on plan A & plan B of rehydration

## **SEMESTER: EIGHTH (THREE LECTURES PER WEEK )**

**Prof. Dr. Major (R) Muhammad Saeed Siddiqui**

- **EPIDEMIOLOGY & SCREENING FOR DISEASES**

1. Introduction, Aims of epidemiology ,uses of epidemiology
2. Descriptive Epidemiology: Time distribution of diseases
3. Descriptive Epidemiology: Place distribution of diseases
4. Descriptive Epidemiology: Person distribution of diseases
5. Epidemiological study designs/ cross sectional studies/ Survey
6. Analytical Epidemiology: Case control study & odd ratio
7. Analytical Epidemiology: Cohort study/ incidence rate , relative risk & attributable ri
8. Analytical Epidemiology: Experimental study
9. Measurement of Morbidity (incidence of prevalence)
10. Association & Causation
11. Investigation of an epidemic
12. Screening; Definition, types & uses of screening
13. Screening ; Sensitivity, Specifity & productivity

- **BIOSTATICS & DISTRICT HEALTH INFORMATION OF SYSTEM (DHIS) (Dr. Masood Ahmed)**

1. Introduction Biostatistics, Health Management information system (DHIS)
2. Types of Variables/ Methods of data presentation
3. Rates, ratio & proportion
4. Measure of dispersion
5. Normal distribution curve
6. Sampling technique

- **MEDICAL DEMOGRAPHY (Dr. Khalil – U – Rehman Kazi)**

1. Introduction, population profile of Pakistan
2. Population dynamics size, composition, distribution & growth rate
3. Population doubling time , momentum of population, population transition & population pyramids
4. Fertility measure relates statistics
5. Mortality Measures & relates statistics: infant mortality & maternal mortality rates

- **EPIDEMIOLOGY OF NON COMMUNICABLE DISEASES (Dr. Khalil – U – Rehman Kazi)**

1. Introduction: Risk factors for developing Non – Communicable diseases
2. National Action program for prevention & control of Non \_ communicable diseases & Health promotion.
3. Epidemiology & Control measures for Hypertension & coronary Heart diseases
4. Epidemiology & Control measures for Diabetes Mellitus
5. Epidemiology & Control measures for Diabetes Blindness
6. Epidemiology & Control measures for Diabetes Cancers
7. Epidemiology & Control measures for Diabetes Accidents
8. Epidemiology & Control measures for Diabetes Mental Illness
9. Epidemiology & Control measures for Diabetes Obesity

## **DEMONSTRATION CLASSES IN GROUPS**

- **HEALTH OF CHILDREN & INTEGRATED MANAGEMENT OF NEONATAL & CHILDHOOD ILLNESS (IMNCI) (Dr. Rafaina Shah)**

1. Health problem of children in Pakistan
2. Introduction to IMNCI overview of case management
3. IMNCI- Community component
4. IMNCI- Health system component

- **RESEARCH METHODOLOGY (Prof. Dr. Major (R) Muhammad Saeed Siddiqui)**

1. Introduction to research methodology
2. How to enter data in SPSS
3. How to write a research project

- **REPRODUCTIVE HEALTH(Dr. Saba Bashir)**

1. Maternal health issues in Pakistan
2. Maternal & Child Health(MCH), Role of lady Health Workers(RHWs) & Lady Health Visitors(LHVs)
3. Safe Motherhood: Ante-natal care, (domiciliary & institutional care )
4. Family planning – scopes & methods of family planning
5. Postnatal care, growth & development of infant

- **OCCUPATION HEALTH (Dr. Aakash)**

1. Introduction of occupational health occupational Health Hazards
2. Measure for prevention of occupational Health Hazards medical & Engineering Methods
3. Pneumoconiosis & its controls Measures
4. Lead poisoning & its controls measure
5. Occupational Health Hazards for agriculture & industrial workers-Ergonomics

- **OTHERS TOPICS (Dr. Muhammad Farooque, Dr. Bashir Ahmed)**

1. Traveler's medicine
2. Unsafe injections (a Global Threats)
3. International Health
4. Geriatrics
5. Snake bites
6. Sports medicine

## **FIELDS VISITS**

1. Directorate general health Sindh  
Social Security Hospital (1 ASSISTANT PROFESSOR)
2. Psychiatric hospital (2 LECTURER)
3. Regional training centre for family planning (1 SOCIAL WORKER)

## **SKILL LEARNING (PROBLEM BASED LEARNING)**

### **DR. BASHIR AHMED**

1. To calculate & interpret BMI
2. To develop a Questionnaire for a survey
3. Research project

## **ROLE PLAYS ON HEALTH**

## **EDUCATION/COMMUNICATION**

### **(PROBLEM BASED LEARNING)**

1. Role play on counseling the family head on prevention of a chronic non-communicable diseases
2. Role play on counseling the mother about her own health
3. Role play on counseling for using personal protective measure for prevention of occupational health hazards
4. Role play on counseling for screening for cancers

## **RESEARCH PROJECTS**

### **Prof. Dr. Major (R) Muhammad Saeed Siddiqui**

The small groups of students (25-30 students in each group) will be assigned a research project under

Supervision of a faculty member. The students will be given on month duration to complete the project & submit in department.

## **Two HOUSE HOLD SURVEYS ON KEY FAIMLY**

## **PRACTICES**

### **Prof. Dr. Major (R) Muhammad Saeed Siddiqui**

### **DR. MASOOD AHMED**

**DEPARTMENT OF PATHOLOGY & MICROBIOLOGY**

| <b><i>S. No.</i></b> | <b><i>Name</i></b>             | <b><i>Designation</i></b> |
|----------------------|--------------------------------|---------------------------|
| 1.                   | Prof. Dr. Manzoor Ahmed Memon  | Professor                 |
| 2.                   | Prof. Dr. Ghulam Mustafa Memon | Professor                 |
| 3.                   | Prof. Dr. Rasool Bux Shaikh    | Professor                 |
| 4.                   | Prof. Dr. Naseer Ahmed Shaikh  | Professor                 |
| 5.                   | Dr. Inayatullah Memon          | Associate Professor       |
| 6.                   | Dr. Umair Ali Soomro           | Assistant Professor       |
| 7.                   | Dr. Shomail Saeed Siddiqui     | Assistant Professor       |
| 8.                   | Dr. Ghulam Abbas Soomro        | Assistant Professor       |
| 9.                   | Dr. Mehnaz Shaikh              | Lecturer                  |
| 10.                  | Dr. Huma Majeed                | Lecturer                  |
| 11.                  | Dr. Shahzad Ali                | Lecturer                  |
| 12.                  | Dr. Qandeel Abbas              | Lecturer                  |
| 13.                  | Dr. Huma Abbasi                | Lecturer                  |
| 14.                  | Dr. Syeda Ibadat               | Lecturer                  |

# SYLLABUS

## 3<sup>RD</sup> PROFESSIONAL MBBS 7<sup>TH</sup> SEMESTER

### Subject: Systemic Pathology

| TOPICS                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CHAPTER: GASTRO INTESTINAL TRACT</b><br><br><b>TEACHER: DR. INAYAT ULLAH MEMON</b>                                                                                                                                                                                                                                                                                                                                                                                            |
| 1) Introduction, disease of oral cavity and salivary glands<br>2) Achalasia, esophagitis and hematemesis<br>3) Barrett's esophagus and tumors of esophagus<br>4) Gastritis<br>5) Peptic ulcer<br>6) Gastric polyps and tumors<br>7) Intestinal obstruction<br>8) Mal absorption and diarrheal disease<br>9) Ischemic bowel diseases<br>10) Inflammatory Bowel diseases<br>11) Non-neoplastic and Benign lesions of GIT-Polyps<br>12) Tumors of colon<br>13) Diseases of appendix |
| <b>CHAPTER: RESPIRATORY SYSTEM</b><br><br><b>TEACHER: Dr. Shomail Saeed Siddiqui</b>                                                                                                                                                                                                                                                                                                                                                                                             |
| 14) Introduction<br>15) Congenital anomalies<br>16) Upper respiratory tract diseases<br>17) Obstructive pulmonary disease I<br>18) Obstructive pulmonary disease II<br>19) Chronic diffuse interstitial and vascular lung diseases<br>20) Pneumonias I<br>21) Pneumonias II<br>22) Tuberculosis lung<br>23) Tumors of lung and pleural diseases                                                                                                                                  |
| <b>CHAPTER: DISEASES OF BONES AND JOINTS</b><br><br><b>TEACHER: Dr. Shomail Saeed Siddiqui</b>                                                                                                                                                                                                                                                                                                                                                                                   |
| 24) Developmental anomalies<br>25) Osteomyelitis<br>26) Cartilage forming tumor<br>27) Bone forming tumor<br>28) Arthritis<br>29) Soft tissue tumors                                                                                                                                                                                                                                                                                                                             |

**CHAPTER: LIVER, GALL BLADDER AND EXOCRINE PANCREAS****TEACHER:** Prof. Dr. Ghulam Mustafa Memon

- 30) Jaundice and cholestasis
- 31) Acute hepatitis
- 32) Chronic hepatitis
- 33) Autoimmune and metabolic liver diseases
- 34) Cirrhosis of liver
- 35) Tumors of liver
- 36) Disease of gall bladder

**CHAPTER: BLOOD****TEACHERS:** Dr. Umair Ali Soomro

- 37) Introduction
- 38) Iron deficiency anemia
- 39) Megaloblastic anemia
- 40) Hemolytic anemia-I
- 41) Hemolytic anemia-II
- 42) Aplastic anemia
- 43) Acute leukemia-I
- 44) Acute leukemia-II
- 45) Chronic myeloid leukemia
- 46) Chronic lymphocytic anemia
- 47) Multiple myeloma
- 48) Congenital bleeding disorders
- 49) Acquired bleeding disorders
- 50) Blood transfusion

**CHAPTER: LYMPH NODES****TEACHER:** Dr. Umair Ali Soomro

- 51) Lymphadenitis and lymphadenopathy
- 52) Hodgkin's lymphoma
- 53) Non-Hodgkin's Lymphoma-I
- 54) Non-Hodgkin's Lymphoma-II

**CHAPTER: SKIN****TEACHER: DR. INAYAT ULLAH MEMON**

- 55) Inflammatory Diseases
- 56) Tumors
- 57) Discussion

**CHAPTER: CENTRAL NERVOUS SYSTEM****TEACHERS:** Dr. Shomail Saeed Siddiqui

- 58) Cerebral edema, hydrocephalus
- 59) Neural tube defects and other congenital anomalies
- 60) Meningitis
- 61) Cerebrovascular diseases
- 62) Demyelinating disease
- 63) Degenerative disease
- 64) Metabolic disease
- 65) Tumor of brain

**PRACTICAL SCHEDULE LAB II (IN GROUPS)****SUBJECT: SYSTEMIC PATHOLOGY**

|    | TOPIC                        | TEACHER                |
|----|------------------------------|------------------------|
| 1  | Gastric Carcinoma            | DR SHAHZAD ALI         |
| 2  | Peptic Ulcer                 | DR SHAHZAD ALI         |
| 3  | Colorectal Carcinoma         | DR SHAHZAD ALI         |
| 4  | Tumors of bone               | DR SHAHZAD ALI         |
| 5  | Osteomyelitis                | DR SHAHZAD ALI         |
| 6  | Soft Tissue Tumors           | DR SHAHZAD ALI         |
| 7  | Hepatitis                    | DR SHAHZAD ALI         |
| 8  | Liver Cirrhosis              | DR SHAHZAD ALI         |
| 9  | Tumors of Liver              | DR SHAHZAD ALI         |
| 10 | Problem Based learning (PBL) | ALL CONCERNED TEACHERS |
| 11 | Hodgkin's Lymphoma           | DR SHAHZAD ALI         |
| 12 | Non Hodgkin's Lymphoma       | DR SHAHZAD ALI         |
| 13 | Tumors of Brain              | DR SHAHZAD ALI         |
| 14 | Malignant tumors of skin     | DR SHAHZAD ALI         |
| 15 | Bronchogenic Carcinoma       | DR SHAHZAD ALI         |
| 16 | Problem Based learning (PBL) | ALL CONCERNED TEACHERS |

# **PRACTICAL SCHEDULE LAB I (IN GROUPS)**

## **SUBJECT: CLINICAL PATHOLOGY**

|    | TOPIC                                                | TEACHER                |
|----|------------------------------------------------------|------------------------|
| 1  | Complete Blood Counts                                | DR . AAKASH            |
| 2  | Iron Deficiency Anemia                               | DR . AAKASH            |
| 3  | Megaloblastic Anemia                                 | DR . AAKASH            |
| 4  | Hemolytic Anemia                                     | DR . AAKASH            |
| 5  | Thalassemia                                          | DR . AAKASH            |
| 6  | Pathological Leucocytosis                            | DR . AAKASH            |
| 7  | Acute Leukemia's                                     | DR . AAKASH            |
| 8  | Chronic Leukemia's                                   | DR . AAKASH            |
| 9  | Blood Groups & Blood Transfusion                     | DR . AAKASH            |
| 10 | Laboratory Diagnosis of Hemostasis(Thrombocytopenia) | DR . AAKASH            |
| 11 | Pleural Effusion DR                                  | DR . AAKASH            |
| 12 | Liver Functions Tests                                | DR . AAKASH            |
| 13 | Meningitis                                           | DR . AAKASH            |
| 14 | CSF DR                                               | DR . AAKASH            |
| 15 | Stool DR                                             | DR . AAKASH            |
| 16 | Problem Based learning (PBL)                         | ALL CONCERNED TEACHERS |

# SYLLABUS

## 3<sup>RD</sup> PROFESSIONAL MBBS 8<sup>TH</sup> SEMESTER

### Subject: Systemic Pathology

**CHAPTER: CARDIOVASCULAR SYSTEM**

**TEACHER: DR. INAYAT ULLAH MEMON**

**BLOOD VESSELS**

- 1) Congenital anomalies and vascular wall cell
- 2) Response to injury, Vasculitis
- 3) Arteriosclerosis
- 4) Veins and lymphatic disease, Aneurysms
- 5) Tumors

**DISEASES OF HEART**

**TEACHER:**

- 6) Congenital heart diseases
- 7) Heart failure
- 8) Ischemic heart disease I
- 9) Ischemic heart disease II
- 10) Hypertensive heart disease and tumors
- 11) Inflammatory heart disease
- 12) Cardiomyopathies
- 13) Valvular heart disease
- 14) Tumors of heart and pericardial disease

**CHAPTER: RENAL DISEASES**

**TEACHER: DR. INAYAT ULLAH MEMON**

- 15) Introduction Glomerular structure and Pathophysiology.
- 16) Tubular structure and Pathophysiology
- 17) Clinical manifestation of Renal diseases and Chronic renal failure
- 18) Glomerular Diseases: Pathogenesis
- 19) Acute proliferative glomerulonephritis
- 20) Crescentic glomerulonephritis
- 21) Nephrotic syndrome - Membranoproliferative glomerulonephritis - Minimal change
- 22) Membranous glomerulonephritis IgA nephropathy, Chronic glomerulonephritis
- 23) Pyelonephritis
- 24) Obstructive uropathy (Hydronephrosis) AND Urolithiasis
- 25) Tumors of kidney

**CHAPTER: LOWER URINARY TRACT**

**TEACHER: PROF. DR. MANZOOR AHMED MEMON**

- 26) Histology, Congenital anomalies inflammations
- 27) Special types of inflammations and metaplastic lesions
- 28) Tumors of Urinary bladder

**CHAPTER: MALE GENITAL TRACT**

**TEACHER: PROF. DR. MANZOOR AHMED MEMON**

- 29) Histology, Patho-physiology, Hormones, Congenital Anomalies.
- 30) Inflammations of testis and epididymis
- 31) Tumors of testis
- 32) Inflammations and Benign prostatic hyperplasia
- 33) Prostatic carcinoma

**CHAPTER: FEMALE GENITAL TRACT**

**TEACHER: PROF DR. NASEER AHMED SHAIKH**

- 34) Diseases of vulva and vagina
- 35) Diseases of cervix
- 36) Diseases of uterus I
- 37) Diseases of uterus II
- 38) Diseases of Ovary I
- 39) Diseases of Ovary II
- 40) Gestational and placental disorders

**CHAPTER: DISORDERS OF BREAST**

**TEACHER: PROF DR. NASEER AHMED SHAIKH**

- 41) Inflammatory diseases of breast
- 42) Non-Neoplastic diseases of the Breast
- 43) Tumors of the Breast

**CHAPTER: DISORDERS OF ENDOCRINE SYSTEM**

**TEACHER: PROF DR. NASEER AHMED SHAIKH**

**Diseases of Pituitary Gland (PROF. DR. MANZOOR AHMED MEMON)**

- 44) Diseases of pituitary gland I
- 45) Diseases of pituitary gland II

**Diseases of Thyroid Gland (PROF. DR. MANZOOR AHMED MEMON)**

- 46) Histology, Hormones, Diagnostic tests, Clinical features, Hypothyroidism, Hyperthyroidism
- 47) Goiter
- 48) Inflammations-I Ill defined & Hashimoto's thyroiditis
- 49) Inflammations-II Common forms and rare forms
- 50) Tumours

**Parathyroid gland diseases (PROF. DR. MANZOOR AHMED MEMON)**

- 51) Diseases of parathyroid gland-I
- 52) Diseases of parathyroid gland-II

**TEACHER: Dr. Shomail Saeed Siddiqui**

53) Diseases of Adrenal Gland I  
54) Diseases of Adrenal Gland II

**CHAPTER: DISEASES OF ENDOCRINE PANCREAS 3 LECTURES**

**TEACHER:** Dr. Shomail Saeed Siddiqui

## **PRACTICAL SCHEDULE LAB II (IN GROUPS)**

### **SUBJECT: SYSTEMIC PATHOLOGY**

|    | <b>TOPICS</b>                                        | <b>TEACHER</b>                |
|----|------------------------------------------------------|-------------------------------|
| 1  | Atherosclerosis                                      | DR SHAHZAD ALI                |
| 2  | Myocardial infarction                                | DR SHAHZAD ALI                |
| 3  | Ischemic Heart Diseases &Diagnosis                   | DR SHAHZAD ALI                |
| 4  | Vasculitis                                           | DR SHAHZAD ALI                |
| 5  | Acute & Chronic Pyelonephritis                       | DR SHAHZAD ALI                |
| 6  | Tumors of Kidney                                     | DR SHAHZAD ALI                |
| 7  | Tumors of Urinary Bladder                            | DR SHAHZAD ALI                |
| 8  | Benign Prostatic Hyperplasia & Carcinoma of Prostate | DR SHAHZAD ALI                |
| 9  | <b>Problem Based learning (PBL)</b>                  | <b>ALL CONCERNED TEACHERS</b> |
| 10 | Diseases of Cervix & Uterus                          | DR SHAHZAD ALI                |
| 11 | Tumors of Ovary                                      | DR SHAHZAD ALI                |
| 12 | Benign & Malignant tumors of Thyroid                 | DR SHAHZAD ALI                |
| 13 | Benign & Malignant tumors of Breast                  | DR SHAHZAD ALI                |
| 14 | Gestational Diseases                                 | DR SHAHZAD ALI                |
| 15 | Testicular Tumors                                    | DR SHAHZAD ALI                |
| 16 | <b>Problem Based learning (PBL)</b>                  | DR SHAHZAD ALI                |

# **PRACTICAL SCHEDULE LAB I (IN GROUPS)**

## **SUBJECT: CLINICAL PATHOLOGY**

|    | <b>TOPICS</b>                                     | <b>TEACHER</b>                |
|----|---------------------------------------------------|-------------------------------|
| 1  | Lipid Profile                                     | DR. AAKASH                    |
| 2  | Cardiac Enzymes                                   | DR. AAKASH                    |
| 3  | Pericarditis                                      | DR. AAKASH                    |
| 4  | <b>Problem Based learning (PBL)</b>               | <b>ALL CONCERNED TEACHERS</b> |
| 5  | Urine DR I                                        | DR. AAKASH                    |
| 6  | Urine DR II                                       | DR. AAKASH                    |
| 7  | Renal Function Tests                              | DR. AAKASH                    |
| 8  | <b>Problem Based learning (PBL)</b>               | <b>ALL CONCERNED TEACHERS</b> |
| 9  | Laboratory interpretation of Diabetes mellitus    | DR. AAKASH                    |
| 10 | Thyroid Function Tests                            | DR. AAKASH                    |
| 11 | <b>Problem Based learning (PBL)</b>               | <b>ALL CONCERNED TEACHERS</b> |
| 12 | Laboratory interpretation of Parathyroid Diseases | DR. AAKASH                    |
| 13 | Semen D/R                                         | DR. AAKASH                    |
| 14 | Pap Smear Examination                             | DR. AAKASH                    |
| 15 | <b>Problem Based learning (PBL)</b>               | <b>ALL CONCERNED TEACHERS</b> |

# DEPARTMENT OF OPHTHALMOLOGY

| S. No | Name                               | Designation |
|-------|------------------------------------|-------------|
| 1.    | Prof. Dr. Abdullah Rizwan Siddiqui | Professor   |
| 2.    | Dr. Shabbir Ahmed                  | Registrar   |
| 3.    | Dr. Shumaila                       | Registrar   |

**SUBJECT: OPHTHALMOLOGY (EYE):**  
**SEMESTER: SEVENTH/ EIGHT**

**PROF.DR ABDULLAH RIZWAN SIDDIQUI**

**CHAPTER: GLAUCOMA**

1. Physiology of aqueous humor formation & its circulation
2. Primary open Angle Glaucoma
3. Primary Angle Closure Glaucoma
4. Secondary Glaucoma-Lens induced, neovascular, Inflammatory

**CHAPTER: EYE LIDS**

1. Blepharitis
2. Stye, Chalazion, Trichiasis
3. Ectropion, Entropion
4. Ptosis
5. Tumors

**CHAPTER: ORBIT**

1. Orbital Cellulites
2. Proptosis

**CHAPTER: LENS**

1. Lens Structure and functions
2. Congenital Cataract
3. Acquired cataract
4. Aphakia / rehabilitation of vision after cataract extraction

**CHAPTER: RETINA**

1. Diabetic Retinopathy
2. Hypertensive Retinopathy
3. Retinal Detachment
4. Central Retinal Vein & Artery Occlusion
5. Retinopathy of Prematurity
6. Retinitis Pigmentosa
7. Causes of sudden vision loss

**PROF.DR ABDULLAH RIZWAN SIDDIQUI**

**CHAPTER: VISUAL PATHWAY**

1. Visual Pathway and its lesions

**CHAPTER: SQUINT AND AMBLYOPIA**

1. Extraocular muscles and Ocular movements
2. Non-paralytic Squint
3. Paralytic Squint
4. Amblyopia

**CHAPTER: OCULAR INJURIES**

1. Extra ocular Foreign Bodies
2. Blunt Injuries
3. Perforating Injuries
4. Chemical Injuries

**CHAPTER: CONJUNCTIVA**

1. Infective- Bacterial and viral Conjunctivitis
2. Infective- Chlamydial Conjunctivitis
3. Ophthalmia neonatorum
4. Allergic Conjunctivitis
5. Pterygium & pingecula

**CHAPTER: UVEAL TRACT**

1. Introduction and Classification of Uveitis
2. Acute Iridocyclitis
3. Chronic Iridocyclitis

**CHAPTER: PUPIL**

1. Normal Pupil Reflex and abnormalities

**CHAPTER: OPTIC NERVE**

1. Papilloedema
2. Optic Neuritis

|                                                                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PROF.DR ABDULLAH RIZWAN SIDDIQUI</b>                                                                                                                                                                                                   |
| <b>CHAPTER: CORNEA</b>                                                                                                                                                                                                                    |
| <ul style="list-style-type: none"><li>1. Infective Keratitis (Bacterial, Fungal and Amoebic)</li><li>2. Viral keratitis</li><li>3. Non-Infective Keratitis (Moorens Ulcer)</li><li>4. Keratoplasty and other surgical procedure</li></ul> |
| <b>CHAPTER: ERRORS OF REFRACTION</b>                                                                                                                                                                                                      |
| <ul style="list-style-type: none"><li>1. Introduction to optical system of normal eye, Emmetropia</li><li>2. Hypermetropia</li><li>3. Myopia</li><li>4. Astigmatism + Presbyopia</li></ul>                                                |
| <b>CHAPTER: LACRIMAL APPARATUS</b>                                                                                                                                                                                                        |
| <ul style="list-style-type: none"><li>1. Composition and function of tear film + Epiphora (excessive watering)</li><li>2. Dry Eye</li><li>3. Dacryocystitis (Acute and Chronic)</li></ul>                                                 |
| <b>CHAPTER: OCCULAR THERAPEUTICS</b>                                                                                                                                                                                                      |
| Drugs used in Common ophthalmic Conditions                                                                                                                                                                                                |
| <b>CHAPTER: SCLERA</b>                                                                                                                                                                                                                    |
| <ul style="list-style-type: none"><li>1. Episcleritis</li><li>2. Scleritis</li></ul>                                                                                                                                                      |
| <b>TEACHER:</b> (CLINICAL PATHOLOGIST)                                                                                                                                                                                                    |
| Laboratory Diagnosis & Ocular Infection                                                                                                                                                                                                   |

# DEPARTMENT OF ENT

| TEACHING FACULTY |                                      |                     |
|------------------|--------------------------------------|---------------------|
| S. No            | Name                                 | Designation         |
| 1.               | Prof. Dr. Sohail Abdul Malik Qureshi | Professor           |
| 2.               | Prof. Dr. Muhammad Shafi Shaikh      | Professor           |
| 3.               | Dr. Mukhtar Ibraheem                 | Assistant Professor |
| 4.               | Dr. Anwar Ul Haque                   | Registrar           |
| 5.               | Dr. Shahid Malik                     | Registrar           |

# **SUBJEC: OTORHINOLARYNGEOLOGY (ENT)**

**SEMESTER: SEVENTH / EIGHTH**  
**(Four Lectures / Week)**

## **OTOLOGY**

**TEACHER: DR. MUKHTAR IBRAHEEM / DR ANWAR UL HAQ**

1. Basic clinical Anatomy
2. Assessment of hearing
3. Otitis Externa
  - I. Viral
  - II. Bacterial
  - III. Fungal
4. Boil in the ear / F.B / Wax
5. Perichondritis / subperichondrial abscess & Aural Hematoma
6. Tumors of external ear
7. Acute Otitis media
  - I. Suppurative
  - II. Non-suppurative
8. Chronic Otitis media
9. Complications of Otitis media
  - Intracranial
  - Extracranial
10. Otosclerosis
11. Tumors of middle ear
  - Glomus tumor
12. D/D of vertigo
  - Labyrinthitis
13. Meniere's disease
14. D/D of Sensorineural deafness
  - Acoustic Neuroma

# **RHINOLOGY**

**TEACHER: PROF. DR. SOHAIL ABDUL MALIK QURESHI**

1. Basic clinical anatomy & physiology (Nose + Para nasal sinuses)
2. Causes of nasal obstruction
  - DNS (Deflected Nasal Septum)
3. Complications of nasal surgery
  - Septal Haematoma
  - Septal Abscess
  - Septal Perforations
  - Septal adhesions
4. D/D of Unilateral Nasal discharge
5. Epistaxis (Causes & Management)
6. Acute Rhinitis (causes)
  - Infective Rhinitis
7. Allergic Rhinitis
8. Chronic Rhinitis
9. Facial & Nasal Trauma
10. Tumors of Nose
11. Sinusitis
  - I. Acute
  - II. Chronic
12. Fungal Sinusitis
13. Nasal Polyp
  - Antrachoanal / Ethmoidal
- Tumors of Para Nasal Sinuses

# **ORAL CAVITY, PHARYNX & OESOPHAGUS**

**TEACHER: PROF. DR. SOHAIL ABDUL MALIK QURESHI**

1. Basic Clinical Anatomy / Physiology
2. Ulcerative disorders of oral cavity
3. Acute Tonsillitis & Pharyngitis
4. D/D of sore throat
  - I. Glandular Fever
  - II. Diptheria
  - III. Vincent's Angina
  - IV. Scarlet Fever
5. Chronic Tonsillitis / Pharyngitis
6. Tonsillectomy (Indication / Contra-Indications & Complications)
7. Tumors of Naso-Pharynx
8. Tumors of Oro-Pharynx
9. Tumors of Laryngo-Pharynx
- Disorders of Salivary Glands

# LARYNGOLOGY

**TEACHER: PROF. DR. MUHAMMAD SHAFI SHAIKH**

1. Basic Clinical Anatomy and Physiology of aero-digestive tract
2. D/D of Hoarseness of Voice
3. Laryngitis (2 Lectures)
  - Acute
  - Chronic
  - Laryngeal Diphtheria
4. Vocal cord paralysis
5. Tumors of Larynx
  - Benign
  - Malignant
6. Upper air way obstruction / Management / Tracheostomy
7. FB air digestive tract  
Causes of Dysphagia / Management

**DEPARTMENT OF SURGERY & ALLIED**  
**SEMESTER: SEVENTH/EIGHTH**  
**(TWO LECTURES / WEEK)**

**DEPARTMENT OF ORTHOPEDICS & TRUAMALOGY**

| <b>S #</b> | <b>TEACHING FACULTY</b>              |
|------------|--------------------------------------|
|            | <b>Professor</b>                     |
| <b>01</b>  | <b>Prof. Dr. Abdul Rehman Shaikh</b> |
|            | <b>Assistant Professor:</b>          |
| <b>02</b>  | <b>Dr. Dildar Ahmed Khan</b>         |
|            | <b>Senior Registrar</b>              |
| <b>03</b>  | <b>Dr. Abdul Samad</b>               |

| <b>TEACHER: PROF. DR. ABDUL REHMAN SHAIKH</b> |                                                  |
|-----------------------------------------------|--------------------------------------------------|
| <b>S/N</b>                                    | <b>Topics</b>                                    |
| 01                                            | General Principles of fracture Management        |
| 02                                            | Acute & Chronic Osteomyelitis                    |
| 03                                            | Acute Septic Arthritis                           |
| 04                                            | Shoulder and Hip Dislocation                     |
| 05                                            | Management Common Long Bone Fractures Upper Limb |
| 06                                            | Management Common Long Bone Fractures Upper Limb |
| 07                                            | Management of Open Fractures                     |
| 08                                            | Management of Spinal Injuries                    |
| 09                                            | Metastatic Bone Disease                          |
| 10                                            | Post Polio Deformity                             |
| 11                                            | T.B Spine                                        |
| 12                                            | Complications of Fractures                       |

## **DEPARTMENT OF UROLOGY**

| <b>S #</b> | <b>TEACHING FACULTY</b>      |
|------------|------------------------------|
|            | <b>Assistant Professor:</b>  |
| 01         | <b>Dr. Abdul Rasheed Zai</b> |

| <b>TEACHER: DR. ABDUL RASHEED ZAI</b> |                                                                                                                                                                                                                                     |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>TOPICS</b>                         | <ol style="list-style-type: none"> <li><b>1. Introduction and symptomatology of urology</b></li> <li><b>2. Investigations in urology</b></li> <li><b>3. Benign Prostatic Hypertrophy</b></li> <li><b>4. Urolithiasis</b></li> </ol> |

# DEPARTMENT OF PEADIATRICS

| <i>S. No.</i> | <i>Name</i>                       | <i>Designation</i>  |
|---------------|-----------------------------------|---------------------|
| 1.            | Prof. Dr. Muhammad Akbar Nizamani | Professor           |
| 2.            | Dr. Sikandar Ali Bhand            | Associate Professor |
| 3.            | Dr. Faraz Ahmed Qureshi           | Senior Registrar    |
| 4.            | Dr. Sadiq Ali                     | Registrar           |
| 5.            | Dr. Mariam Mehwish                | Registrar           |
| 6.            | Dr. Robina Qureshi                | Registrar           |
| 7.            | Dr. Muqaddas Ali                  | Registrar           |

| <b>TEACHING FACULTY</b>                                                     |                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>HEAD OF DEPARTMENT: PROF. DR. MUHAMMAD AKBAR NIZAMANI</b>                |                                                                                                                                                                                                                                                                                                                                                        |
| <b>TEACHER: DR SIKANDAR ALI / DR FARAZ AHMED QURESHI / DR. MUQADDAS ALI</b> |                                                                                                                                                                                                                                                                                                                                                        |
| <b>TOPICS</b>                                                               | 1. Introduction of Paediatrics & History Taking<br>2. Introduction to IMNCI<br>3. Introduction to IMNCI Clinical Signs<br>4. Introduction to Newborn and Neonatal Problems<br>5. E.P.I and Update on vaccination<br>6. ENCC and Breast Feeding<br>7. Normal Nutrition in Children Micro and Macro nutrients<br>8. Assessment of Growth and development |

**FACULTY OF MEDICINE & ALLIED LECTURES**  
**SEMESTER: SEVENTH / EIGHTH**  
**(TWO LECTURES / WEEK)**  
**DEPARTMENT OF DERMATOLOGY (SKIN)**

| S.NO          | TEACHING FACULTY                                                                                      |
|---------------|-------------------------------------------------------------------------------------------------------|
|               | <b>Professor and Chairman:</b>                                                                        |
|               | <b>REGISTRAR: DR SANIA QAMAR</b>                                                                      |
|               | <b>Teacher: Dr. Sania Qamar</b>                                                                       |
| <b>TOPICS</b> | 1. Bacterial infection<br>2. Fungal infection<br>3. Herpes zoster, herpes simplex<br>4. Leishmaniasis |

**DEPARTMENT OF PSYCHIATRY**

| S #       | TEACHING FACULTY                                      |
|-----------|-------------------------------------------------------|
|           | <b>Professor</b>                                      |
| <b>01</b> | Professor. Dr. S. Jamil Hussain Shah                  |
|           | <b>Teachers: Professor: Dr. S. Jamil Hussain Shah</b> |

## BEHAVIORAL SCIENCES

### TOPICS

- WHAT ARE BEHAVIORAL SCIENCES? Traditional versus holistic medicine.  
Bio-psycho-social (BPS) model of healthcare. Link of health with behavioral sciences in health Correlation of brain & mind with behavioral sciences.
- Personality, Theories of personality, Factors affecting personality development.
- Definition & classification of stress, Stressors, Management of stress.  
Relationship of stress & stressor to illness, Coping skills , Adjustment & mal adjustment, Conflict and frustration, Concept of life events & their relationship with stress & illness.
- Culture, symptoms presentation & culture, Social support, Family illness, health belief model, beliefs attitudes, values, myths, Child rearing practice, Stigma.
- Learning principles of learning, modern methods & styles of learning, cognitive theories of learning & their use in enhancement of learning, Motivation & types of motivation.

## CLINICAL LEARNING DURING PSYCHIATRY ROTATION

1. Skills of interviewing & listening
  - Types of interview & listening
  - Characteristic of a good communicator
  - Information care
2. History taking skills
  - Desirable attitudes in health professionals
3. 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.
4. Mental state examination
  - Perception, factors affecting perception
  - Thinking, types & theories of thinking
5. Assessment of personality
  - Cognitive errors
  - Defense mechanism
6. Communication, Non verbal cues, Communication skills.
  - Counseling & its indications & contraindications.
7. Do's & don'ts, Dealing with real life crisis & conflict situations

in health sittings

- Conflict resolution
  - Problem solving & decision making strategies
8. Dealing with difficult patients & management
- Crisis management disaster management

## SUBJECT: **SURGICAL SKILLS (SKILL LAB)**

### **FOURTH YEAR (7<sup>TH</sup> & 8<sup>TH</sup> SEMESTER) MBBS**

**INCHARGE: DR GHULAM ABBASS SOOMRO**

**BIOMEDICAL ENGINEER: AMMARA MAHESAR**

| S.NO | TOPIC                   | S.NO | TOPIC               |
|------|-------------------------|------|---------------------|
| 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          |

## **INSTRUCTIONS**

- 75% ATTENDANCE IS MANDATORY FOR ELIGIBILITY OF EXAMINATION FORM
- IN CASE OF LECTURE IS NOT DELIVERED DUE TO ANY REASON ON THE SCHEDULED DATE, IT WILL BE COMPENSATED IN EXTRA TIME
- ALL THE GROUPS WILL BE TAUGHT THE SAME TOPICS BY SEPARATE GROUP TEACHER
- AFTER EIGHT WEEKS THERE WILL BE A UNIT TEST IN ALL THREE SUBJECTS SEPARATELY
  - COMPRISING OF A THEORY PAPER BCQ's AND SHORT ESSAY
  - OSPE EXAMINATION
- AFTER COMPLETING THE SEMESTER COURSE (SIXTEEN WEEKS), THERE WILL BE TWO WEEKS PREPARATION LEAVE FOR EXAMINATION

# TABLE OF SPECIFICATION

## THEORY EXAMINATION

|                            |                                                                          |              |              |                                                             |              |              |
|----------------------------|--------------------------------------------------------------------------|--------------|--------------|-------------------------------------------------------------|--------------|--------------|
| COMMUNITY MEDICINE         | 7 <sup>TH</sup> SEMESTER                                                 | SBQs         | SEQs         | 8 <sup>TH</sup> SEMESTER                                    | SBQs         | SEQs         |
|                            | Introduction                                                             | 06           | 01           | Epidemiology & Screening Of Diseases                        | 08           | <u>02</u>    |
|                            | Human Nutrition & Health                                                 | 04           | 01           | Biostatistics And District Health Information System (Dhis) | 04           | 01           |
|                            | Environmental Health &Medical Entomology                                 | 10           | 01           | Research Methodology                                        | 01           | --           |
|                            |                                                                          |              |              | Medical Demography                                          | 04           | 01           |
|                            | Communicable Diseases                                                    | 10           | 02           | Reproductive Health                                         | 05           | 01           |
|                            | Immunology / EPI                                                         | 02           | 01           | Health Of Children & IMNCI                                  | 03           | 01           |
|                            | Social Sciences                                                          | 01           | --           | Epidemiology Of Non Communicable Disease                    | 04           | 01           |
|                            | Health Education, Communication, Personal Hygiene & Rural / Urban Health | 01           | 01           | Occupational Health                                         | 03           | 01           |
|                            | School Health Services                                                   | 01           | 01           | Other Topics                                                | 03           | --           |
|                            | TOTAL                                                                    | 35(70 MARKS) | 08(30 MARKS) | TOTAL                                                       | 35(70 MARKS) | 08(30 MARKS) |
|                            | TOTAL MARKS                                                              |              |              |                                                             | 100          |              |
| SPECIAL PATHOLOGY          |                                                                          | QUESTIONS    |              |                                                             | MARKS        |              |
|                            |                                                                          | BCQ's        | 35           |                                                             | 70           |              |
|                            |                                                                          | SHORT ESSAY  | 6            |                                                             | 30           |              |
|                            |                                                                          | TOTAL MARKS  | 100          |                                                             |              |              |
| OPHTHALMOLOGY (EYE)        |                                                                          | QUESTIONS    |              |                                                             | MARKS        |              |
|                            |                                                                          | BCQ's        | 35           |                                                             | 70           |              |
|                            |                                                                          | SHORT ESSAY  | 6            |                                                             | 30           |              |
|                            |                                                                          | TOTAL MARKS  | 100          |                                                             |              |              |
| OTORHINOLARYNGEOLOGY (ENT) |                                                                          | QUESTIONS    |              |                                                             | MARKS        |              |
|                            |                                                                          | BCQ's        | 35           |                                                             | 70           |              |
|                            |                                                                          | SHORT ESSAY  | 6            |                                                             | 30           |              |
|                            |                                                                          | TOTAL MARKS  | 100          |                                                             |              |              |

# **PRACTICAL EXAMINATION**

- Practical Examination Would Be On Ospe Pattern
- Marks Distribution In Each Subject Will Be As Below:

| <b>COMMUNITY<br/>MEDICINE</b>              | <b>DESCRIPTION</b>                                                                                | <b>MARKS</b> |
|--------------------------------------------|---------------------------------------------------------------------------------------------------|--------------|
|                                            | ATTENDANCE                                                                                        | 10           |
|                                            | INTERNAL EVALUATION (JOURNAL/WORLD HEALTH DAY/CONFERENCES/SEMINARS+FIELD VISIT/RESEARCH PROJECTS) | 10           |
|                                            | OSPE                                                                                              | 80           |
|                                            | <b>TOTAL MARKS</b>                                                                                | <b>100</b>   |
| <b>SPECIAL<br/>PATHOLOGY</b>               | ATTENDANCE                                                                                        | 10           |
|                                            | INTERNAL EVALUATION+JOURNAL                                                                       | 10           |
|                                            | OSPE                                                                                              | 80           |
|                                            | <b>TOTAL MARKS</b>                                                                                | <b>100</b>   |
| <b>OPHTHALMOLOGY<br/>EYE</b>               | ATTENDANCE                                                                                        | 10           |
|                                            | CLINICAL EVALUATION IN WARDS                                                                      | 10           |
|                                            | OSPE                                                                                              | 80           |
|                                            | <b>TOTAL MARKS</b>                                                                                | <b>100</b>   |
| <b>OTO-RHINO-<br/>LARYNGEOLOGY<br/>ENT</b> | ATTENDANCE                                                                                        | 10           |
|                                            | CLINICAL EVALUATION IN WARDS                                                                      | 10           |
|                                            | OSPE                                                                                              | 80           |
|                                            | <b>TOTAL MARKS</b>                                                                                | <b>100</b>   |

## **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 Jatoi
- ✓ Parson's Text Book Of Ophthalmology
- ✓ Basic Ophthalmology By Renu Jogi

### **OTORHINOLARYNGEOLOGY (ENT):**

- ✓ P L Dingra
- ✓ Iqbal Udharpurwala