

## **PROGRAM OUTCOMES**

The undergraduate medical education programme is designed with a goal to create an “Indian Medical Graduate” (IMG) possessing requisite knowledge, skills, attitudes, values and responsiveness, so that she or he may function appropriately and effectively as a physician of first contact of the community while being globally relevant. The curriculum at our Institute is designed based on the guidelines prescribed by GME 2019 (Graduate Medical Education)

The curriculum is designed in such a way that, on completion of undergraduate program, the Indian Medical Graduate will be able to

1. Demonstrate competency in diagnosis and management of common health problems of the individual and the community, as a member of the health team at the primary, secondary or tertiary levels, using his/her clinical skills based on history, physical examination and relevant investigations.
2. Be competent to practice preventive, promotive, curative, palliative and rehabilitative medicine in respect to the commonly encountered health problems.
3. Appreciate rationale for different therapeutic modalities; be familiar with the administration of “essential medicines” and their common adverse effects.
4. Be able to appreciate the socio-psychological, cultural, economic and environmental factors affecting health and develop humane attitude towards the patients in discharging one's professional responsibilities.
5. Demonstrate readiness for self-learning and to seek further expertise or to pursue research in any chosen area of medicine, action research and documentation skills.
6. Show expertise in basic factors which are essential for the implementation of the National Health Programmes including practical aspects of Family Welfare and Maternal and Child Health (MCH), Sanitation and water supply Prevention and control of communicable and non-communicable diseases, Immunization, Health Education, Indian Public Health Standards (IPHS), Bio-medical waste
7. Acquire basic management skills in the area of human resources, materials and resource management related to health care delivery, hospital management, inventory skills and counselling.
8. Be able to identify community health problems and learn to work to resolve these by designing, instituting corrective steps and evaluating outcome of such measures.
9. Be able to work as a leading partner in health care teams and acquire proficiency in communication skills.

## **COURSE OUTCOMES**

### **I. Human Anatomy**

At the end of First MBBS Course student should be able to

1. Demonstrate the gross and microscopic structure and development of human body by dissecting the body
2. Describe the normal regulation and integration of the functions of the organs and systems on basis of the structure and genetic pattern
3. Accomplish clinical correlation of the organs and structures involved and interpret the anatomical basis of the disease presentations.

### **II. Human Physiology**

At the end of First MBBS Course student should be able to

1. Describe the normal functioning of the organs and organ systems of the body
2. Describe the age-related physiological changes in the organ functions that reflect normal growth and development
3. Explain the physiological basis of diseases.
4. Perform clinical examination of various systems and interpret the basic clinical investigation including ECG, PFT.

### **III. Biochemistry**

At the end of First MBBS Course student should be able to

1. Discuss various biochemical and molecular processes involved in health and disease
2. Explain the Importance of nutrition in health and disease,
3. Discuss the biochemical basis and rationale of clinical laboratory tests, and demonstrate ability to interpret these in the clinical context.

### **IV. Pathology**

At the end of Second MBBS Course student should be able to

1. Demonstrate ability to comprehend the causes, evolution and mechanisms of diseases
2. Discuss alterations in gross and cellular morphology of organs in disease states
3. Correlate the natural history, structural and functional changes with the clinical manifestations of diseases, their diagnosis and therapy.

4. Interpret diagnostic laboratory tests and correlate with clinical and morphological features of disease

## **V. Microbiology**

At the end of Second MBBS Course student should be able to

1. Discuss the role of microbial agents in health and disease
2. Explain the immunological mechanisms in health and disease
3. Correlate the natural history, mechanisms and clinical manifestations of infectious diseases
4. Demonstrate the principles and application of infection control measures,
5. Discuss the basis of choice of laboratory diagnostic tests and their interpretation, antimicrobial therapy, control and prevention of infectious diseases.
6. Perform Gram stain, Zeil Neilson stain, Report different parasites by stool examination
7. Demonstrate ability to collect samples and maintain confidentiality

## **VI. Pharmacology**

At the end of Second MBBS Course student should be able to

1. Discuss the pharmacodynamics, pharmacokinetics, indications, contraindications side effects and adverse reactions of commonly used drugs
2. Demonstrate the ability to select and prescribe medicines based on clinical condition and the pharmacologic properties, efficacy, safety, suitability and cost of medicines for common clinical conditions of national importance
3. Discuss the essential components of pharmacovigilance, the concepts of essential medicine and the sources of drug information and industry-doctor relationship.
4. Counsel patients regarding appropriate use of prescribed drug and drug delivery systems.
5. Critically appraise the promotional drug literature
6. Interpret the data of experiments designed for study of effects of drugs and bioassays

## **VII. Forensic Medicine**

At the end of Second MBBS Course student should be able to

1. Discuss the Medico-legal responsibilities in primary and secondary care settings.
2. Demonstrate rational approach to the investigation of crime, based on scientific and legal principles.
3. Manage effectively the medical and legal issues in cases of poisoning / overdose.
4. Discuss the medico-legal framework of medical practice and medical negligence,
5. Understanding of codes of conduct and medical ethics.
6. Beware of relevant legal/court procedure's applicable to medical and medicolegal practice.

## **VIII. General Medicine**

At the end of III MBBS ( Part 2) Course student should be able to

1. Describe the patho-physiologic basis, epidemiological profile, signs and symptoms of disease and their investigation and management.
2. Effectively interview and examine an adult patient and make a clinical diagnosis.
3. Appropriately order and interpret laboratory tests.
4. Initiate appropriate cost-effective treatment based on an understanding of the rational drug prescriptions, medical interventions required and preventive measures.
5. Follow up patients with medical problems and refer whenever required.
6. Communicate effectively, educate and counsel the patient and family.
7. Manage common medical emergencies and refer when required.
8. Independently perform common medical procedures safely and understand patient safety issues.

## **IX. General Surgery**

At the end of III MBBS (Part 2) Course student should be able to

1. Discuss the structural and functional basis, principles of diagnosis and management of common surgical problems in adults and children,
2. To choose, calculate and administer appropriately intravenous fluids, electrolytes, blood and blood products based on the clinical condition
3. Apply the principles of asepsis, sterilization, disinfection, rational use of prophylaxis, therapeutic utilities of antibiotics and universal precautions in surgical practice
4. Discuss common malignancies in India, their prevention, early detection and therapy,
5. Perform common diagnostic and surgical procedures at the primary care level
6. Recognize, resuscitate, stabilize and provide Basic & Advanced Life Support to patients following trauma,
7. Administer informed consent and counsel patient prior to surgical procedures
8. Demonstrate commitment to advancement of quality and patient safety in surgical practice.

## **X. Obstetrics and Gynaecology**

At the end of III MBBS (Part 2) Course student should be able to

1. Discuss anatomy, physiology and pathology of female reproductive system
2. Provide peri-conceptional counseling and antenatal care
3. Identify high-risk pregnancies and refer appropriately
4. Assist in normal deliveries, early neonatal resuscitation, IUCD insertion and removal,
5. Discuss the indications, side effects and precautions of drugs that can safely be used in pregnancy and lactation
6. Discuss pathogenesis, clinical features and management of genital malignancies and menstruation.
7. Provide postnatal care, including education in breast-feeding
8. Counsel and support couples in the correct choice of contraception,

## **XI. Community Medicine**

At the end of III MBBS (Part 1) Course student should be able to

1. Discuss the physical, social, psychological, economic and environmental determinants of health and disease
2. Recognize common health problems including physical, emotional and social aspects at individual, family and community level in the context of National Health Programmes
3. Discuss various National Health Programmes in the primary care setting
4. Demonstrate Knowledge about maternal and child wellness as they apply to national health care priorities and programmes
5. Recognize, investigate, report, plan and manage community health problems including malnutrition and emergencies
6. Assist in health awareness and diagnostic camps

## **XII. Otorhinolaryngology**


At the end of III MBBS (Part 1) Course student should be able to

1. Identify the common Otorhinolaryngological (ENT) emergencies and problems
2. Perform simple ENT procedures as applicable in a primary care setting
3. Recognize hearing impairment and refer to the appropriate hearing impairment rehabilitation programme.

### **XIII. Ophthalmology**

At the end of III MBBS (Part 1) Course student should be able to

1. Describe the common eye problems in the community
2. Recognize, diagnose and provide appropriate management options common eye problems and identify indications for referral
3. Recognize visual impairment and blindness in the community and implement National programmes as applicable in the primary care setting.



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