



# **MGM INSTITUTE OF HEALTH SCIENCES**

(Deemed to be University u/s 3 of UGC Act, 1956)

**Grade 'A' Accredited by NAAC**

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## **Curriculum for Fellowship in Infectious Diseases**

Amended upto BOM 63/2021, Dated 17/02/2021

## **Amended History**

1. Approved as per BOM - 63/2021 [Resolution No.4.4.3.5], Dated 17/02/2021.

~~Annexure 5~~

Title of the fellowship : **Fellowship in Infectious Diseases**

**Fellowship course in Infectious disease**

**Objectives**

Infectious Diseases as a specialty has gained a lot of importance in the field of internal medicine. It has an integral role to play in management of different diseases which are labeled as infectious. Knowledge in microbiology has progressed enormously and many sophisticated and expensive diagnostic techniques are widely available. New treatment options are introduced while numerous microbial species demonstrate increasing resistance to antimicrobial agents. The intervention of trained infectious disease physicians could thus contribute to optimize treatment and limit the use of economic resources. There are very few trained Infectious Diseases physicians and pharmacists who are trained in clinical antimicrobial stewardship.

**1 To train physicians working at various levels in diagnosis & management of common infectious diseases**

**2 To train in microbial targeted therapy to avoid unnecessary use of antibiotics**

Duration of the fellowship : I year (12 months)

Eligibility criteria- MD/ DNB/ FCPS in Internal Medicine, MD /DNB Paediatrics, MD/DNB Geriatrics,

Intake Capacity in each batch- 4 students

Admission/Selection Process/Procedure: Students will be selected on the basis of an objective entrance test. The entrance test will be an MCQ type test (including clinical scenarios) with a maximum score of 100 marks. Of all the questions, 50% will be concerning infectious diseases ( clinical and lab aspects) and the remaining 50% will be concerning medicine / pediatrics and basic sciences related to infectious diseases.

Start of term- Twice in a year 1 ) 1<sup>st</sup> April to 31<sup>st</sup> March 2 ) 1<sup>st</sup> Oct to 30<sup>th</sup> Sept

Stipend- Equivalent to SR

Fees- 60,000

Course Content : The course will include all basic, clinical and lab aspects of infectious diseases. This will include bacterial and mycobacterial infections, fungal infections, viral diseases, parasitic infections and the clinical syndromes related to these infections. It will also cover management of these infections. Additionally, infection control, vaccination, anti-microbial stewardship and other special topics relevant to infectious diseases will be covered.

## FACULTY –

- Professor-2 ( 1 from broad clinical speciality & 1 from microbiology)

Qualification for broad clinical speciality Professor- MD  
Medicine/Paediatrics/Geriatics/Respiratory Medicine with fellowship or diploma course in  
Infectious disease.

Qualification for microbiology- Professor – MD Microbiology

- Associate Professor – 2 (1 From broad clinical speciality, 1 from Dept of Community  
Medicine )

Qualification- Post graduate degree in speciality with experience in infectious disease.

- Asst Prof- 2 ( 1 From broad clinical specialty & one from molecular biology )

## Syllabus-

- **General Bacteriology**
- Molecular mechanism of microbial pathogenesis
- Basics of infectious disease
- Gram positive infections
- Gram negative infections
- Mycobacterial infections with special focus on Tuberculosis
- Hepatitis B & C
- HIV
- Other clinically relevant viral infections like Mumps, CMV, Rubella, Dengue, Rabies  
& CORONA
- Fungal infections
- Parasitic infections with special reference to malaria & amoebiasis
- Clinical syndromes of infectious diseases-
- Respiratory tract infections
- Urinary tract infections
- Gastrointestinal tract infections
- CNS infections
- Skin & Soft Tissue infections
- Basic concept of laboratory diagnosis of infections
- Specimen collection & transport
- Blood culture
- Recent advances in molecular diagnostics of infectious diseases
- Infection control

- Hospital acquired infection
- Sterilisation & disinfection
- Biomedical waste management
- Classification & action of antimicrobial
- Antimicrobial stewardship
- Sepsis

### **Curriculum for fellowship-**

#### **Total duration- 1 year**

#### **1 st term ( 3 months )**

Parent Dept/ Dept of Medicine

#### **2<sup>nd</sup> term ( 3 months )**

Dept of Microbiology- 2 months

Dept of Respiratory Medicine ( DOTs centre ) 15 days

Community Medicine – 15 days each

#### **3rd term ( 3 month )**

Dept of Dermatology - 15 days

Dept of Paediatrics –15 days)

ART centre – ( 15 days )

Infection control Dept- 15 days

Critical care unit- 30 days

#### **4 th term ( 3 months ) – Parent Dept**

### **Exam**

#### **Internal exam-**

One exam ( theory & practical of 100 marks each ) at end of 2 nd term

Fellow should do a small project during program & present report in university exam.

#### **University exam-**

**Examiners-**

One external

One internal

**Theory-** Two papers ( 100 marks each )

Paper pattern - 10 short answer questions

**Paper I – Syllabus-****General Bacteriology**

Molecular mechanism of microbial pathogenesis ,Basics of infectious disease, Gram positive infections, Gram negative infections, Mycobacterial infections with special focus on Tuberculosis, Hepatitis B & C, HIV ,Other clinically relevant viral infections like Mumps, CMV, Rubella, Dengue, Rabies & CORONA, Fungal infection, Parasitic infections with special reference to malaria & amoebiasis. Basic concept of laboratory diagnosis of infections, Specimen collection & transport, Recent advances in molecular diagnostics of infectious diseases, Blood culture

**Paper II – Syllabus**

Clinical syndromes of infectious diseases, Respiratory tract infections, Urinary tract infections, Gastrointestinal tract infections, CNS infections, Skin & Soft Tissue infections, Infection control, Hospital acquired infection, Sterilisation & disinfection, Biomedical waste management

**Practical-**

Total marks- 200

Two short cases of 50 marks each= 100

Two table viva- 25 marks each- =50 marks

Project presentation- 50 marks



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