

## **Fellowship in Tropical Neurology and Infectious Diseases**

### **Objectives**

This course is designed for providing theoretical and practical knowledge about tropical infections and tropical neurology. Globally, increasing incidence of neuroinfection raises great concerns. Developing countries are the most affected and these infections leads to high financial burden on the society. Still, the research focus and development of new drugs in this field is lacking. World Health Organization provides funds and runs many programs on this issue. Paucity of new drugs and emerging resistance mandates an appropriate treatment plan based on current recommended guidelines. Providing training in this filed will help in increasing awareness, timely diagnosis, correct treatment and thus decreasing the disease burden.

In our institution, huge patient inflow is present with all types of tropical infections. The laboratory, imaging and research facilities are advanced too. This course will provide a holistic training in this field, as there will be collaboration with multiple departments and faculties. Department of neurology, microbiology, pathology, biochemistry and radiodiagnosis will contribute immensely in this training.

There will be periodic assessment and certification to monitor the progress and learning of enrolled candidate.

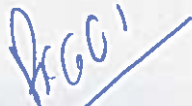
### **Certification**

- **Fellowship Certificate:** On completion of 12 months of training and passing the exit examination as per guidelines of university.

### **Curriculum of Training**

#### **Duties and responsibilities:**

- The resident fellow is expected to work 8:00 Am to 8:00 Pm daily.
- Night duties will be according to roster.
- Ward rounds, lab exposure and project work will be part of the course.

  
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## **Academic month August**

### *Topic 1 : Tropical Epidemiology*

- Introduction
- History of Neurology and Tropical Medicine
- Epidemiology of tropical diseases and their impact on the nervous system.
- Geographical distribution and its impact on developing countries.
- World Health Organization (WHO) programs

### *Topic 2 : Classification of Tropical Neurology and infections*

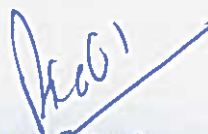
- Overview of Tropical Infections
  - Bacterial
  - Viral
  - Fungal
  - Parasitic
  - Prion
- Primary and secondary demyelination
- Autoimmune disorders
- Toxins and toxicology

## **Academic month September & October**

### *Topic 3 : Clinical manifestation and examination*

### *Topic 4 : Bacterial Infections of Nervous system*

- Acute bacterial meningitis and abscess
- Spinal bacterial infections


  
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- Mycobacterium tuberculosis
  - Tuberculous meningitis
  - CNS Tuberculoma
  - Spinal tuberculosis
- Non Tuberculous Mycobacterium
- Leprosy
- CNS involvement in Enteric Fever
- Laboratory methods and recent techniques in diagnosis
- Imaging and recent advances for diagnosis

**Academic month November & December**

**Topic 5 : Viral Infections of Nervous system**

- Changing global scenario of virus impact on humanity
- Classification of Human Viruses
- Dengue Infection and its neurological impact
- Japanese Encephalitis
- Herpes infection of CNS
- Human Immunodeficiency Virus
  - Aseptic meningitis
  - Chronic idiopathic demyelinating polyneuropathy
  - Polyneuropathy and multiple mononeuropathy
  - Myopathy
  - Vacuolar myelopathy

  
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- HIV-associated neurocognitive disorder
- CNS immune reconstitution syndrome.
- Opportunistic infections with HIV
- Progressive multifocal leukoencephalopathy
- Subacute Sclerosing Panencephalitis
- Rabies
- Chikungunya
- Viral Myelopathies and Poliomyelitis
- Laboratory methods and recent techniques in diagnosis
- Imaging and recent advances for diagnosis
- Treatment of viral meningoencephalitis and guidelines

### **Mid term Assessment**

#### **Academic month January**

##### *Topic 6 : Mycosis of Nervous system*

- Common fungal infections of nervous system
- Cryptococcus neoformans
- Laboratory methods and recommendations
- Imaging and recent advances for diagnosis
- Treatment guidelines and follow up

#### **Academic month February**

##### *Topic 7 : Parasitic infections of Nervous system*

- Neurocysticercosis



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- Malaria
- Toxoplasmosis
- Amoebic meningoencephalitis
- Other parasitic infections
- Laboratory methods and recommendations
- Imaging and recent advances for diagnosis

#### **Academic month March**

##### *Topic 8 : Spirochetal infections of Nervous system*

- Neurosyphilis
- Neuroborreliosis

##### *Topic 9 : Prion diseases*

#### **Academic month April**

##### *Topic 10 : Myelopathy related to infections of Nervous system*

##### *Topic 11 : Myopathy related to infections of Nervous system*

#### **Academic month May & June**

##### *Topic 12 : Neuropathy related to infections of Nervous system*

##### *Topic 13 : Post-infectious movement disorders*

##### *Topic 14 : Primary and secondary demyelination*

- Multiple sclerosis
- Neuromyelitis Optica
- Acute disseminated encephalomyelitis
- Neurological manifestations of autoimmune diseases

  
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➤ Laboratory methods and recommendations

➤ Imaging and recent advances for diagnosis

### **Academic month July**

*Topic 15 : Epilepsy in Tropics*

*Topic 16 : Stroke in Tropics*

*Topic 17 : Neurotoxic and deficiency syndromes of the CNS in the tropics*

**Final Assessment:** Based on exit examination by university through controller of examination.

### **Research Project**

The candidate is required to work on a given project during training period and submit the same for publication. The allotted guide and co-guides will supervise the project work.

### **Application for admissions**

Online application on the institutional website.


### **Required documentation**

#### **Students with official university degrees (India)**

- 1) Certified copy of university degree as per requirement.
- 2) Certified copy of Medical council registration certificate.

#### **Students with official university degrees (Outside India)**

- 1) Certified copy of university degree as per requirement.
- 2) Certified copy of Medical council registration certificate of the concerned country.

  
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3) No objection certificate if employed under a hospital or Institution.

In all cases

1. Two passport size color photos.
2. Photocopy of ID card or passport.
3. Curriculum vitae.
4. Authenticated photocopy of any other university qualifications, including postgraduate degrees.

#### **Registration Fees**

Pre-enrolment application fees and course fee structure as per university rules for such courses.

#### **Eligibility**

Post DM/DNB (Neurology)

Post MD/DNB (Medicine)

#### **Duration**

1 academic year

#### **Calendar**

August- July

Online Application to be submitted by 31 March


Online enrollment fees to be deposited by 31 March

#### **Assessment**

Twice in the training period (6 Monthly)

Assessment will be objective based and OSCE based.

#### **Available seats**

  
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Currently, one seat is available (with salary at par with senior resident approximately; Rs 70,000 per month).

Waiting list will be generated according to number of applicants.

Sponsored seats, as per university regulations with self-finance is also available.

**Hostel Facility:** In campus hostel facility will be provided by administration for senior resident as per availability.


**Leave:** As per SR policy of the University

Central Library facility: As per university rules

Central laboratory for research if approved by concerned faculty

### Course directors and coordinators

S.No	Name	Position	Role	Department
1	Dr Ravindra Kumar Garg	Prof. & Head	Course director & Faculty	Neurology
2	Dr Rajesh Verma	Professor	Coordinator & Faculty	Neurology
3	Dr Hardeep Singh Malhotra	Professor	Coordinator & Faculty	Neurology
4	Dr Praveen Kumar Sharma	Associate Professor	Coordinator & Faculty	Neurology
5	Dr Neeraj Kumar	Associate Professor	Coordinator & Faculty	Neurology
6	Dr Ravi Uniyal	Associate Professor	Coordinator & Faculty	Neurology

  
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7	Dr Shweta Pandey	Associate Professor	Coordinator & Faculty	Neurology
8	Dr Imran Rizvi	Assistant Professor	Coordinator & Faculty	Neurology
8	Dr Neera Kohli	Prof. & Head	Coordinator & Faculty	Radiodiagnosis
9	Dr Anit Parihar	Professor	Coordinator & Faculty	Radiodiagnosis
10	Dr Amita Jain	Prof. & Head	Coordinator & Faculty	Microbiology
11	Dr Madhumati Goyal	Professor	Coordinator & Faculty	Pathology
12	Dr Abbas Ali Mahdi	Prof. & Head	Coordinator & Faculty	Biochemistry
13	Dr Mohammad Kaleem Ahmad	Assistant Professor	Coordinator & Faculty	Biochemistry

**Contact**

Dr Ravindra Kumar Garg,

[garg50@yahoo.com](mailto:garg50@yahoo.com)

Dr Hardeep Singh Malhotra

[drhsmalhotra@gmail.com](mailto:drhsmalhotra@gmail.com)

**Nodal Officer of course**


Dr Neeraj Kumar

[drneeraj2903@gmail.com](mailto:drneeraj2903@gmail.com)

Department of Neurology

King George's Medical University

Lucknow, Uttar Pradesh.

  
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