



KING GEORGE'S MEDICAL UNIVERSITY

DEPARTMENT OF PEDIATRICS

To,

The Dean, Medical Faculty
KGMU, Lucknow

NO-9911/Ped/17
Dt-08/08/17.
7-8-17
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Madam,

Enclosed please find 2 copies of a proposal for Fellowship in Pediatric Neurology. This proposal has already been cleared by the Board of Studies, Academic Council and Executive Council of the university. I am also attaching a copy of a letter from Registrar, KGMU bearing this out.

We now propose to go ahead and advertise the post. I would be grateful if you can sign this on each page and then forward to Controller of Examinations for the needful.

Thanking You,

Sincerely,


RASHMI KUMAR

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V.D. Das
8/8/17
Dean
Faculty of Medicine
K.G. Medical University, U.P.
Lucknow

PROPOSAL FOR FELLOWSHIP IN PEDIATRIC NEUROLOGY

DEPARTMENT OF PEDIATRICS

KING GEORGE'S MEDICAL UNIVERSITY, LUCKNOW

Preamble: Disorders of the central nervous system are extremely common in children in developing countries and our state – Uttar Pradesh, is no exception. Besides the associated acute morbidity and mortality, they are a cause of permanent disability in the child. Brain disorders acquired in childhood tend to have a lifelong effect as further brain development may be retarded. The social and economic impact on the family and the country as a whole is tremendous.

Uttar Pradesh or the 'northern state' happens to be the most populous state in the country with an astounding population of more than 200 million people. By the sheer size of its population it is the 6th largest administrative unit in the world. It is also one of the poorest states with low human development indices. A wide range of childhood neurological disorders are seen in this part of the world. Perinatal asphyxia, birth trauma, low birth weight and neonatal infections are common due to lack of adequate antenatal and natal care. The large majority of births take place at home with the help of women of the family and sometimes the traditional birth attendant of the village who is usually inadequately trained. Infections of the central nervous system (CNS) are common as there is little access to vaccine against bacteria like *H influenzae*. Tuberculosis, including CNS tuberculosis is rampant and tuberculous meningitis accounts for about 4% of hospital admissions. The region is also endemic for Japanese B encephalitis which tends to occur in large outbreaks annually in the post monsoon season and accounts for 5% of hospitalizations. Similarly malaria, including cerebral malaria is common. Recently scrub typhus presenting as acute encephalitis syndrome has been found to be very common in the eastern parts of the state. All these can leave a permanent disability in the affected child. Epilepsy is also a common problem among children in this area as all the causes of epilepsy – birth asphyxia and trauma, infections of the brain and neurocystercosis are more prevalent here. Coupled with these problems are the usual gamut of idiopathic epilepsy, febrile seizures, brain tumors,

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neural tube defects, genetic disorders and head injuries. The region also has a high rate of consanguineous marriages, due to which inborn errors of metabolism, hereditary and degenerative disorders are relatively common.

Facilities available:

1. Neurological disorders account 1/4th to 1/3rd of hospital admissions to the pediatric wards in our institution. Neurological problems including epilepsy, autism, intellectual disability, developmental delay and cerebral palsy are a common cause of OPD visits also. The diverse pediatric neurological problems seen here are a rich teaching material in this field. Both indoor and outdoor disorders are best managed by pediatricians who can render emergency and acute management and treat the child as whole. With this view, the **Government of Uttar Pradesh, created a Pediatric Neurology Unit in the Department of Pediatrics vide Govt Order No 1922 Sec 14/7 – 132/88 dated 30-3-88.**
2. Two full time professors with special interest in Pediatric Neurology.
3. A busy Pediatric Neurology Clinic is held every Thursday afternoon, where 80-90 patients from all over the eastern part of the state and beyond are seen.
4. Video EEG is being done on wet lease basis. They are reported by faculty of the department.
5. Neuroimaging in form of CT scan head and MRI brain are being done daily in the institution.
6. Neurophysiological investigations are being done in Department of Neurology.
7. The Department also has full time Child Psychologist and Physiotherapist.

Since the state has such a large load of pediatric neurology problems, there is an urgent need to human resource development in this area as well. It is therefore proposed to start a one year training program in pediatric neurology at the KG Medical University. This course can be called Fellowship in Pediatric Neurology. Offering such a specialty course will greatly benefit the candidate, the department, the institution and the state.

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Fellowship in Pediatric Neurology

Course Duration : 12 months. Admissions will be made in March and September.

Maximum number of candidates to be admitted/ year : 2

Eligibility : MD Pediatrics or DNB in Pediatrics from an MCI recognized institution.

Selection : The posts will be advertised. Interested candidates will have to take a written MCQ test followed by interview. MCQ questions will be in pediatrics and pediatric neurology.

Course Fees : ~~Rs-20,000/-~~ As per university rule

Salary : Senior Residents working in the department will be eligible to apply and will receive a salary as for senior resident. However, if the candidate is already in employment he/she will be paid by employer.

Accommodation : If available, will be provided by University.

Leave: Same rules as for Senior Residents will apply

Course structure & contents: A core curriculum and academic program will be developed. A series of lectures, case discussions and seminar presentations will be organized. The candidate will also be expected to present neurology cases and seminars. These will be done in liaison with the Departments of Neurology and other related departments at KGMU.

The student will be given adequate exposure to the following.

1. Neurological Examination, Evaluation and follow up of all pediatric neurological indoor admissions.
2. Emergency & intensive management of pediatric neurology problems such as status epilepticus, raised intracranial tension, acute encephalitis syndrome and respiratory paralysis.
3. Pediatric neurology speciality clinic
4. Pediatric Neuroradiology

5. Child Psychiatry
6. Pediatric Neurophysiology
7. Pediatric Neurosurgery
8. Pediatric rehabilitation & physiotherapy
9. Development and IQ assessment
10. Clinical research methodology.

List of Lectures/ Seminars:

1. The burden of neurological diseases
2. Pediatric Epilepsy
3. Childhood epileptic syndromes
4. Neurocystercosis
5. Intractable epilepsy
6. Cerebral palsy
7. Stroke
8. Movement disorders
9. Neurometabolic disorders
10. Degenerative disorders of the CNS
11. Paraplegia & quadriplegia
12. CNS infections - Viral encephalitis, Bacterial meningitis, CNS tuberculosis
13. Transplacental infections
14. Coma
15. Autism and other neurodevelopmental disorders
16. Floppy infant
17. Neuromuscular disorders
18. Approach to acute encephalitis syndrome
19. Raised intracranial tension
20. Febrile seizures
21. Vision disorders
22. Hearing loss
23. Antiepileptic drugs

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At the end of the course, the student will be able to:

1. Evaluate a child with a neurological problem
2. Assess the development, IQ, vision and hearing of the child.
3. Handle all type of pediatric neurological emergencies and intensive care.
4. Manage ambulatory patients with all type of chronic neurological and developmental problems.
5. Plan investigations for patients with neurological problems.
6. Read and interpret neuroradiological investigations including X rays, CT scan and MRI of brain and spine.
7. Perform and interpret neurophysiological investigations such as EEG, nerve conduction velocity, EMG, Brain Stem evoked responses etc.
8. Deal with common child psychiatric disorders such as autism, mental retardation, conversion disorders, psychoses etc.
9. Be conversant with physiotherapy, speech therapy and occupational therapy and rehabilitative procedures in neurological disabled children.
10. Be conversant with pediatric neurosurgical management of common problems.
11. Research: The student will be able to conduct a literature search, critically appraise published literature, develop a research proposal, conduct and analyse a research study and write a paper for publication.

Administrative:

1. Communicate effectively with patients and their families regarding their problem and its solution, Counsel parents regarding the child's problem.
2. Plan rehabilitative services for neurodevelopmentally handicapped children.
3. Develop the skills for teaching pediatric neurology.
4. Be a team leader in the multidisciplinary management of neurologically disabled children.

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Final eligibility assessment for awarding the Fellowship:

Exit examination will comprise of:

Theory paper Three – 2 hours each

1. Basic science pertaining to neonatal intensive care
2. Clinical
3. Recent advances

Practical Examination

1. One long case
2. Two short cases
3. Practical Viva Voce

Examiners: One internal and one external examiner (Neurology or pediatric neurology).

On satisfactory completion of the course, the student will get a certificate of completion of Pediatric Neurology Fellowship of King Georges Medical University.

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