

THE TAMILNADU DR. MGR MEDICAL UNIVERSITY
SYLLABUS FOR FELLOWSHIP IN PAEDIATRIC NEUROLOGY

CONTENT

1. Basic neuroanatomy / neurophysiology / Genetics
2. Basic embryology and neonatal neurology
3. Stages of development and learning
4. Central motor deficits – cerebral palsy, congenital and acquired deficits and associated problems, holistic rehabilitation
5. Spinal cord defects – congenital / acquired
6. Neuro-muscular disorders and other peripheral nerve disorders
7. Cerebrovascular diseases, trauma and coma
8. Epilepsy and other paroxysmal disorders
9. Inflammation and infections of the nervous system
10. Neurometabolic disorders, nutritional and systemic diseases
11. Vision, hearing and related disorders
12. Oncology, Hydrocephalus and other neuro-surgical disorders
13. Psychological development, psychiatric disorders, communication, learning disability and rehabilitation

The candidate will have exposure to EEG's, EMG, NCV, BERA and VEP. They will also be given opportunity to spend time with neuro-radiologists to get exposure to CT and MRI scans and other neuro-imaging modalities.

Basic neuro-pathology including muscle pathology will be taught

SUGGESTED BOOKS FOR READING

Clinical Paediatric Neurology – A signs and symptoms approach –
Fenichel Textbook of normal infant and child development -eg
illingworth RS, “ The development of the infant and the young child:
Normal and abnormal” Churchill Livingstone Aug 1987

Epilepsy in children – Wallace and Farrell second edition JP
Practical Paediatric Neurology – Veenakalra – Arya publications, 2002
Autism – A neurobiological disorder of early brain development – Robert
Tuchman & Isabelle Rapin – ICNA series – 2006
Pediatric clinical neurophysiology – Karin Eegolofsson – ICNA series –
2006
Barkovich, AJ, Normal development of the neonatal and infant brain,
skull and spine paediatric neuro-imaging, Lippincott Williams and
Wilkins

Essentials of Pediatric Neurology – Bibek Talukdar 2009

Diseases of the nervous system in children – Jean Aicardi

Muscle disorders in childhood – Dubowitz, 2nd edition, Saunders

Movement disorders in children – Emilio Fernandez and Jean Aicardi –
ICNA series 2001

Head injury in children and adolescents – Danune L Macgregor, Abhaya
V Kulkarni – ICNA series – 2007

Epilepsy in children – Alexis Arzimanoglou, Renzo Guerrini –
Lippincott Williams & Wilkins – 2004

JOURNALS FOR REFERENCE

Developmental Medicine and Child Neurology – Mackeith Press
London UK

Indian paediatrics, Neurology India, American Journal of
Neurology

COURSE DETAILS

The candidate will be expected to present in

- (a) Journal club – Once in a month
- (b) Case presentations – Weekly

They will be encouraged take up a short project/paper for publication / presentation during the period that they are doing the fellowship.

They would attend the neurology out patient department on all days of the week apart from Sundays between 8 am to 2 pm.

The candidate will be expected to do the ward rounds with the respective consultants on all days of the week.

The postings in various specialities including Paediatric Intensive Care, Neonatal Intensive Care, Emergency Room, Neuro – Surgery, Neuro – Physiology, Neuro – Imaging, Neuro – Rehabilitation, Neuro – Pathology will be provided to the students in turns as is practical without disturbing the daily routines.

There will be weekly classes conducted by the resource persons on a regular basis in turns and the candidate will be expected to cover specific topics / discuss clinical cases during this period.

There will be lectures by other specialists including geneticists psychologists and other invited speakers regularly during the year.

APPRAISAL:

The candidate will have to maintain a log book of all the cases presented, classes / lectures attended, procedures performed, publications etc during the period of training and periodic cycle tests – once in 4 months will be conducted followed by assessments by the educational supervisor.

Final examination will be conducted by the Dr. MGR Medical University. Internal Assessment marks will be given as per the guidelines of the Dr.MGR Medical University.

POSTINGS/PERIOD OF POSTINGS FOR THE FELLOWSHIP IN PAEDIATRIC NEUROLOGY

PICU – 2 weeks

NICU - 2 weeks

ER - 2 weeks

Neuro-Surgery - 2 weeks

Neuro-Rehabilitation - 2 weeks

Neuro-Physiology/Neuro-Imaging - 2 weeks.