



# **College of Physicians and Surgeons of Mumbai**

## **Syllabus for CPS-PG-Course**

### **DPNEU-DIPLOMA IN PAEDIATRIC NEUROLOGY**

**College of Physicians and Surgeons of Mumbai**

CPS House, Dr. E. Borges Marg, Parel, Mumbai – 400012.

## **DPNEU-DIPLOMA IN PAEDIATRIC NEUROLOGY**

### Eligibility Criteria for Candidates:

i. A candidate should possess MBBS degree/ equivalent degree as per provisions of Indian Medical Council Act.

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ii. Candidates having a recognized 3 years degree Qualification (MD/MS/DNB) in any General Medicine or Paediatrics speciality

or 2 years Diploma Qualification in General Medicine or Paediatrics specialty

Duration of the Course : 2 years

### POSTINGS/PERIOD OF POSTINGS FOR THE DIPLOMA IN PAEDIATRIC NEUROLOGY

PICU – 4 weeks NICU - 4 weeks ER - 4 weeks

Neuro-Surgery - 4 weeks Neuro-Rehabilitation - 4 weeks

Neuro-Physiology/Neuro-Imaging - 4 weeks.

## **SYLLABUS**

Basic neuroanatomy / neurophysiology /Genetics

Basic embryology and neonatalneurology

Stages of development and learning

Central motor deficits – cerebral palsy, congenital and acquired deficits and associated problems, holistic rehabilitation

Spinal cord defects – congenital /acquired

Neuro-muscular disorders and other peripheral nerve disorders

Cerebrovascular diseases, trauma and coma

Epilepsy and other paroxysmal disorders

Inflammation and infections of the nervous system 10. Neurometabolic disorders, nutritional and systemic diseases

Vision, hearing and related disorders

Oncology, Hydrocephalus and other neuro-surgical disorders

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 neuroradiologists to get exposure to CT and MRI scans and other neuro-imaging modalities.

Basic neuro-pathology including muscle pathology will be taught

#### COURSE DETAILS

The candidate will be expected to present in

Journal club – Once in a month

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.

## DPNEU-FELLOWSHIP IN PAEDIATRIC NEUROLOGY

Examination Pattern

## Theory Examination:

PAPER I	PAPER II	PAPER III
ANATOMY PHYSIOLOGY	THERAPEUTICS	Applied Sciences
<b>Section I</b>	<b>Section I</b>	<b>Section I</b>
Q.1. 10 Marks	Q.1. 10 Marks	Q.1. 10 Marks
Q.2. 10 Marks	Q.2. 10 Marks	Q.2. 10 Marks
Q.3. 10 Marks	Q.3. 10 Marks	Q.3. 10 Marks
Q.4. 10 Marks	Q.4. 10 Marks	Q.4. 10 Marks
Q.5. 10 Marks	Q.5. 10 Marks	Q.5. 10 Marks
<b>Total 50 Marks</b>	<b>Total 50 Marks</b>	<b>Total 50 Marks</b>
<b>Section II</b>	<b>Section II</b>	<b>Section II</b>
Q.6. 10 Marks	Q.6. 10 Marks	Q.6. 10 Marks
Q.7. 10 Marks	Q.7. 10 Marks	Q.7. 10 Marks
Q.8. 10 Marks	Q.8. 10 Marks	Q.8. 10 Marks
Q.9. 10 Marks	Q.9. 10 Marks	Q.9. 10 Marks
Q.10. 10 Marks	Q.10. 10 Marks	Q.10. 10 Marks
<b>Total 50 Marks</b>	<b>Total 50 Marks</b>	<b>Total 50 Marks</b>
Section I + II = 100 Marks	Section I + II = 100 Marks	Section I + II = 100 Marks
<b>Total Theory = 300 Marks, Passing = 150 (i.e. 50%) Marks in aggregate</b>		

Practical Examination:		Marks
Paper - IV	Clinical Practical	100
Paper - V	Oral & Viva	100
Paper - VI	Case	100
<b>Total Marks</b>	<b>(Aggregate marks for passing is 50% out of 300)</b>	<b>300</b>

**BOOKS:**

Clinical Paediatric Neurology – A signs and symptoms approach – Fenichel Textbook of normal infant and child development – Egill 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 Eegolfsson – 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, 2<sup>nd</sup> 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