MD PAEDIATRICS

Syllabus

Growth and development:
 □ Principles of growth and development □ Normal growth and development □ Sexual maturation and its disturbances □ Childhood and adolescence □ Failure to thrive and short stature
Neonatology
 □ Perinatal care □ Low birth weight □ Care in the labor room and resuscitation _ □ Newborn feeding □ Prematurity □ Respiratory distress □ Common transient phenomena □ Infections □ Anemia and bleeding disorders □ Jaundice
 Neurologic disorders Renal disorders Understanding of perinatal medicine Thermoregulation and its disorders Behavioral & Developmental disorders
 □ Rumination □ Pica □ Enuresis □ Encopresis □ Sleep disorders □ Habit disorders □ Breath holding spells □ Anxiety disorders □ Mood disorders - temper tantrums □ Attention deficit hyperactivity disorders □ Autism
Social pediatrics
 □ National health programs related to child health _ child abuse and neglect □ Child labor □ Adoption □ Disability and rehabilitation □ Rights of the child

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☐ Acute pneumonia
☐ Recurrent and interstitial pneumonia
☐ Suppurative lung diseases like bronchiectasia
□ Atelectasis
☐ Lung cysts
☐ Emphysema and hyper-inflation
☐ Bronchial asthma
□ Pulmonary edema
□ Pleural effusion
□ Pulmonary leaks
☐ Mediastinal mass
Gastrointestinal and liver disease
☐ Disease of mouth, oral cavity and tongue
☐ Disorders of deglutition and esophagus
☐ Peptic ulcer disease
☐ H. pylori infection
□ Foreign body
☐ Congenital pyloric stenosis
☐ Intestinal obstruction
☐ Malabsorption syndrome
☐ Acute and chronic diarrhea
☐ Irritable bowel syndrome
☐ Inflammatory bowel diseases- ulcerative colitis and Crohn's disease
☐ Hirschsprung's disease
☐ Hirschsprung's disease☐ Anorectal malformations
 ☐ Hirschsprung's disease ☐ Anorectal malformations ☐ Hepatitis
 ☐ Hirschsprung's disease ☐ Anorectal malformations ☐ Hepatitis ☐ Hepatic failure
 ☐ Hirschsprung's disease ☐ Anorectal malformations ☐ Hepatitis ☐ Hepatic failure ☐ Chronic liver disease
 ☐ Hirschsprung's disease ☐ Anorectal malformations ☐ Hepatitis ☐ Hepatic failure ☐ Chronic liver disease ☐ Wilson's disease
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 □ Hirschsprung's disease □ Anorectal malformations □ Hepatitis □ Hepatic failure □ Chronic liver disease □ Wilson's disease □ Budd-Chiari syndrome □ Metabolic diseases of liver
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Neurologic disorders

	Seizure and non-seizure paroxysmal events				
	Epilepsy and epileptic syndromes				
	Meningitis of childhood				
	Brain abscess				
	Coma				
	Acute encephalitis and febrile encephalopathies				
	Guillain-Barre syndrome				
	Neurocysticercosis				
	HIV encephalopathy				
	SSPE				
	Cerebral palsy				
	Neurometabolic disorders				
	☐ Neurodegenerative disorders				
	☐ Neuromuscular disorders				
	Mental retardation				
	Learning disabilities				
	Muscular dystrophies				
	Acute flaccid paralysis and AFP surveillance				
	Ataxias				
	Movement disorders of childhood				
	CNS tumors				
Ш	Malformations				
Н	Hematology & Oncology				
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	Deficiency anemias				
	Deficiency anemias Hemolytic anemias				
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 □ Adrenogenital syndromes □ Diabetes mellitus □ Hypoglycemia □ Short stature □ Gonadal dysfunction and intersexuality □ Obesity 				
Infections				
 □ Bacterial □ Viral □ Fungal □ Parasitic □ Rickettsial □ Mycoplasma □ Protozoal □ Tuberculosis □ Nosocomial □ HIV □ Control of epidemics and infection prevention □ Safe disposal of infective material 				
Emergency & Critical care				
 □ Emergency care of shock & cardio-respiratory arrest □ Respiratory failure □ Acute renal failure □ Status epilepticus □ Acute severe asthma □ Fluid and electrolyte disturbances and its therapy □ Acid-base disturbances □ Poisoning □ Accidents □ Scorpion and snake bites 				
Immunology & Rheumatology				
 □ Arthritis (acute and chronic) □ Connective tissue disorders □ Immuno-deficiency syndromes □ Kawasaki disease 				
ENT				
 □ Acute and chronic otitis media □ Conductive/sensorineural deafness □ Post-diphtheritic palatal palsy □ Acute/chronic tonsillitis/adenoids □ Allergic rhinitis/sinusitis □ Foreign body 				

Skin Diseases
☐ Exanthematous illnesses
□ Vascular lesions
☐ Pigment disorders
☐ Vesicobullous disorders
☐ Infections: pyogenic, viral, fungal and parasition
☐ Stevens-Johnson syndrome
□ Eczema
☐ Seborrheic dermatitis
☐ Drug rash
☐ Urticaria
□ Alopecia
□ Ichthyosis
Eye diseases
☐ Refraction and accommodation
☐ Partial/total loss of vision cataract
□ Night blindness
□ Chorioretinitis
□ Strabismus
☐ Conjunctival and corneal disorders
☐ Retinopathy of prematurity
□ Retinoblastoma
☐ Optic atrophy

Orthopedics

☐ Pailledema

- ☐ Major congenital orthopedic deformities
- \square Bone and joint infections
- ☐ Common bone tumors

TEACHING PROGRAM

General Principles

- Acquisition of practical competencies being the keystone of postgraduate medical education, postgraduate training should be skills oriented.
- Learning in postgraduate program should be essentially self-directed and primarily emanating from clinical and academic work. The formal sessions are merely meant to supplement this core effort.

Formal Teaching Sessions

Case Discussion

Bedside discussion during ward rounds- cases should be presented by JRs briefly and then discussed with the faculty

There should be a detailed case presentation 3-4 per week. Cases may be allotted on the previous day itself and this should be known to all JRs, so that they can also see the case and come prepared.

Journal Club

Once in 2weeks - Interesting/difficult cases once a month (clinical club)

Seminar/symposia Once every 2weeks - Mortality meeting – monthly

Rotations

Postgraduate student must rotate through all clinical units of the department. This is especially important for him to get Pediatric subspeciality training.

Neonatology (NICU) -6-9 months

Intensive Care (PICU) - 6 months

Subspeciality postings – Nephrology, oncology, dermatology, physical medicine& cardiology -2 weeks

PGS should also attend subspecialty clinics during their respective Unit postings.

THESIS

☐ Submission	on of protocol with in 6 months of	f initiation of the course
□ 6 months	prior to examination - Final prese	entation and submission

All students should maintain a log book. They should be actively engaged in UG teaching. All students should present at least 2 papers in state/national conference of IAP. All students should submit at least 1 paper in an indexed journal

Recommended Reference Books

- 1. Behrman RE, Kliegman RM, Jenson HB. Nelson Textbook of Pediatrics. Harcourt Asia Pvt Ltd.
- 2. Rudolph AM, Hoffman JIE, Rudolph CD. Rudolph's Pediatrics. Appleton and Lange.
- 3. Campbell AGM, McIntosh N. Forfar and Arneil's Textbook of Pediatrics. ELBS.
- 4. Ghai OP, Gupta P, Paul VK. Essential Pediatrics. Interprint, New Delhi.
- 5. Singh M. Pediatrics Clinical Methods. Sagar Publications: Siberry GK, Iannone R. The Harriet Lane Handbook. Mosby & Harcourt India.
- 6. Singh M, Deorari AK. Drug Doses in Children. Sagar Publications.
- 7. Illingworth RS. The development of the infant and young child. Normal and abnormal. Churchill, Livingstone, 9th edition, 1987.

- 8. Feigin RD, Cherry ID. Textbook of Pediatric Infectious Diseases. W. B. Saunders, 5th edition, 2000.
- 9. Singh M. Medical emergencies in children. Sagar Publications, 3rd edition, 2000.
- 10. Rogers MC, Nichols DG. Textbook of Pediatric intensive care. Williams & Wilkins, 3rd Edition.
- 11. Singh M. Care of the Newborn, Sagar Publication, 2000.
- 12. Avery GB, Fletcher MA, MacDonald MG. Neonatology- Pathophysiology and Management of the newborn. Lippincott William and Wilkins.
- 13. Cloherty JP, Stark AR. Manual of Neonatal Care. Lippincott- Raven Publishers, 4th edition, 1998.
- 14. Nutrition- KE Elizabeth, Paras publishers.
