

POST - DOCTORAL FELLOWSHIP PROGRAMME IN
PAEDIATRIC OTORHINOLARYNGOLOGY

DURATION OF THE COURSE : ONE YEAR

Detailed syllabus

General

Evolution of Paediatric Otolaryngology
Phylogenetic Aspects and Embryology
Postnatal Craniofacial Growth and Development
Genetics, Syndromology and Craniofacial Anomalies
Molecular Biology in Paediatric Otolaryngology
Principals and Methods of Management
ENT manifestations of systemic illness
Anesthetic considerations for pediatric ENT
Fluid and pain management in paediatric ENT patients

Ear and allied areas

Embryology and Developmental Anatomy of the Ear
Physiological Basis of Hearing
Imaging in otology
Assessment of Hearing and Middle Ear function
Evaluation of Vestibular function
Pathophysiology of Ootalgia, Otorrhoea, Hearing Loss and Balance Disorders
Diseases of the External Ear
Diseases of the Middle Ear
Otitis media and Eustachian tube
Complications (Intra / extracranial) and sequelae of otitis media
Diseases of the Inner Ear and Sensorineural Hearing /
Labyrinthine Capsule
Hearing Rehabilitation including Hearing Aids
Cochlear Implantation

Injuries of the Ear and Temporal Bone including Facial Paralysis
and Perilymph fistulas
Tumours of the Ear and Temporal Bone

Diseases of the nose / paranasal sinuses, face and orbit

Embryology and Anatomy of the Nose and Paranasal Sinuses
Nasal Physiology
Imaging of the Paranasal sinuses
Pathophysiology of Nasal obstruction, Rhinorrhoea and Epistaxis
Allergic Rhinitis
Rhinitis and Sinusitis including management of Complications
Congenital nasal obstruction including choanal atresia
Foreign bodies of the Nose
Facial Pain and Headache
Orbital Swellings
Injuries to the Nose, Facial Bones and Paranasal sinuses
Tumours of the Nose, Paranasal sinuses and Nasopharynx

Diseases of the mouth, pharynx and oesophagus

Embryology and Anatomy of the Mouth, Pharynx and Esophagus
Physiology of the Mouth, Pharynx and Esophagus
Congenital malformations of the Mouth, Pharynx and Esophagus
Diagnosis and Management of Sorethroat in Children
Inflammatory diseases of the Mouth and Pharynx
Obstructive Sleep Disorders
Dysphagia
Management of Drooling and salivary gland disorders
Cleft Palate
Tumours of the mouth and Pharynx
Functional Anomalies of the Esophagus
Gastroesophageal Reflux Disease
Foreign Bodies of the Pharynx and Esophagus
Injuries to the Mouth, Pharynx, and Esophagus
Burns and Acquired Strictures of the Esophagus
Neurologic Disorders of the Mouth, Pharynx and Esophagus

Diseases of the larynx and airway

Developmental Anatomy and Physiology of the Larynx, Trachea and Esophagus

Physiology of the Larynx, Airways and Lungs

Pharyngolaryngoscopy / Videostroboscopy / Bronchoscopy

Radiology of the Neck including Larynx and Neck

Pathophysiology of Cough, Hoarseness, Aspiration and Voice disorders

Pathophysiology of Stridor and Airway Obstruction

Respiratory disorders of the New Born

Noninfectious Disorders of the Lower Respiratory Tract

Infections of the Lower Respiratory Tract

Intensive Management of Acute Upper Airway Obstruction in Children

Prevention and Management of Subglottic / Tracheal Stenosis in Infants and Children

Tracheostomy

Foreign Bodies of the Larynx, Trachea and Bronchi

Neurogenic Diseases of the Larynx

Injuries to the Lower Respiratory Tract

Tumours of the Larynx, Trachea and Bronchi

Neck

Embryology and Anatomy

Pathophysiology of Neck Masses including cervical adenopathy

Developmental anomalies

Neck Space Infections

Malignant Tumours of the Head and Neck

Injuries to the Neck

Thyroid

Paediatric Skull Base Surgery

Congenital anomalies / malformations

Anomalies of External, Middle and Inner Ear

Malformations of Nose and Paranasal sinuses

Malformations of Esophagus

Laryngeal Anomalies
Malformations of the Trachea and Bronchi
Developmental Anomalies of the Neck

Audiology and allied

Physiology of hearing
Tests of Hearing
Brain Stem Evoked Response Audiometry
Otoacoustic Emissions
Rehabilitation of deaf child
Hearing aids and cochlear implant

Communication disorders

Disorders of Language, Phonology, Fluency and Voice in Children
Velopharyngeal Insufficiency
Amplification Selection for children with Hearing Impairment
Behavioural Intervention and Education of Children with Hearing Loss
Velopharyngeal insufficiency including cleft palate

Recommended Text books

- Text book of Paediatric Otorhinolaryngology (2 volumes) Editors: Charles D. Bluestone, Sylvan E. Stool, Cuneyt M. Alper, Ellis M. Arjmand, Margaretha L. Casselbrant, Joseph E. Dohar, Robert F. Yellon Saunders Publication, Philadelphia, 2003
- Paediatric ENT Editors: John M. Graham, Glenis K. Scadding, Peter D Bull, Springer-Verlag Publications Berlin Heidelberg 2007
- Paediatric Airway Surgery. Management of Laryngotracheal Stenosis in Infants and Children. Editor. Philip Monnier, Springer-Verlag Berlin Heidelberg 2011
- Handbook of Clinical Audiology, Editor: Jack Katz, Lippincott, Williams and Wilkins

Recommended Journals

- International Journal of Paediatric Otolaryngology
- Cochlear Implants International
- Otolaryngology Head and Neck Surgery
- Journal of Otology and Laryngology