

SYLLABUS FOR PhD IN OTO-RHINO-LARYNGOLOGY

1. Basic Science (Anatomy and Physiology) : Ear, Nose & Throat

1. Anatomy and ultrastructure of the human ear
2. Physiology of hearing
3. The perception of hearing
4. The Physiology of equilibrium and its application to the dizzy patient.
5. Anatomy of the nose and paranasal sinuses.
6. Physiology of the nose and paranasal sinuses
7. Pathophysiology of the nose and paranasal sinuses right and diving.
8. The mouth and related faciomaxillary structures
9. Anatomy and physiology of the salivary glands
10. Anatomy of the pharynx and oesophagus
11. Deglutition
12. Anatomy of the larynx and Tracheobronchial tree
13. Physiology of respiration
14. The generation and reception of speech
15. Surgical anatomy of the skull base
16. Clinical Neuroanatomy
17. Imaging and radiology
18. Basic immunology
19. Microbiology and otorhinolaryngologic manifestations of viral ,bacterial ,fungal and parasitic infections
20. Sterilization techniques and hospital acquired infections
21. Cell biology
22. The Principles of radiotherapy in head and neck cancer
23. The principles of chemotherapy
24. Principles and use of nuclear medicine
25. Wound healing
26. The principles of laser surgery
27. Intensive and high dependency care including basics of nutrition
28. Anaesthesia
29. Biomaterials
30. Medical negligence in otolaryngology
31. Research methodology
32. Principles of GCP and surgical ethics , clinical trials and consumer protection
33. Principles of OT designing and patient safety
34. Day care surgery and surgical audit
35. Doctor patient relationship
36. Shock and its management

II EAR, NOSE DISEASES & MANAGEMENT

OTOLOGY

1. Examination of the Ear
2. Radiology of the Ear
3. Aetiopathology of inflammatory conditions of the external and middle ear
4. Pathology of the cochlea
5. Pathology of the external ear
6. Diseases of the External Ear
7. Ear trauma
8. Plastic Surgery of the Ear
9. Acute suppurative otitis media
10. Management of chronic suppurative otitis media
11. Reconstruction of Ear
12. Complications of suppurative otitis media
13. Otagia
14. Otosclerosis
15. Diseases of the temporal bone
16. Sensosineural hearing loss
17. Sudden and fluctuant sensorincural hearing loss
18. Vertigo
19. Meniere's disease
20. Ototoxicity
21. Vestibular schwannoma
22. Epithehal tumors of the External auditory meatus and middle ear
23. Glomus and other tumors of the ear
24. Disorders of the facial nerve
25. Cochlear Implants

III- RHINOLOGY

1. Examination of the nose
2. Conditions of the external nose
3. Radiology of the nose and paranasal sinuses
4. Evaluation of the nasal airway and nasal challenge
5. Abnormalities of smell
6. Mechanisms and treatment of allergic rhinitis
7. Food allergy and intolerance
8. Infective rhinitis and sinusitis
9. Intrinsic rhinitis
10. Nasal Polyps
11. The nasal septum
12. their relations to the respiratory system
13. Fractures of the facial skeleton

14. Rhinoplasty
15. Epistaxis
16. Snoring and sleep apnea
17. Non healing granuloma
18. Facial pain and headache
19. Aspects of dental surgery for otorhinolaryngology
20. Transphenoidal hypophysectomy
21. The Orbit

IV- ADULT AUDIOLOGY

1. Acoustics
2. Computer in audiology
3. Epidemiology
4. Otological symptoms and emotional disturbance
5. Clinical tests of hearing and balance
6. Pharmacological treatment of hearing and balance disorders
7. Legal and ethical matters
8. The prevention of hearing and balance disorders
9. Hearing overview
10. Causes of hearing disorders
11. Noise and the ear
12. Diagnostic audiometry
13. Audiological rehabilitation
14. Hearing aids
15. Cochlear implants
16. Tactile aids
17. Central auditory dysfunction
18. Tinnitus

V-BALANCE DISORDER

1. Overview of balance
2. Causes of balance disorders
3. Diagnostic aspects of the vestibular system
4. Rehabilitation of balance disorders

Throat and Head & Neck disease Management

VI- LARYNGOLOGY AND HEAD AND NECK SURGERY

1. Examination and endoscopy of the upper aerodigestive tract
2. Radiological examination
3. Oral Cavity
4. Acute and chronic infections of the pharynx and tonsils
5. Acute and chronic laryngitis
6. Disorders of the voice
7. Management of the obstructed airway and tracheostomy
8. Trauma and stenosis of the larynx
9. Neurological affections of the pharynx and larynx
10. Pharyngeal pouches
11. Tumors of the Larynx
12. Angiofibroma
13. Nasopharynx (the postnasal space)
14. Tumors of the oropharynx and lymphomas of the head and neck
15. Tumors of the hypopharynx
16. Benign diseases of the neck
17. Metastatic neck diseases
18. The thyroid gland
19. Non neoplastic salivary gland disease
20. Benign salivary gland tumors
21. Malignant salivary gland tumors
22. Tumors of the infratemporal fossa and parapharyngeal space
23. Cysts, granulomas and tumor of the face, nose and sinuses
24. The oesophagus in otolaryngology
25. Facial plastic surgery
26. Plastic and reconstructive surgery of the head and neck
27. Terminal care of patients with head and neck cancer

VI-PAEDIATRIC OTOLARYNGOLOGY

1. Improving the paediatric otolaryngological consultation
2. Radiology in paediatric otolaryngology
3. Genetic factors and deafness
4. The causes of deafness
5. Testing hearing in children
6. Screening and surveillance for hearing impairment in preschool children
7. Otitis media with effusion
8. Acute and chronic suppurative otitis media in children
9. Surgery of congenital abnormalities of the external and middle ears

10. Management of the hearing impaired child
11. Cochlear implantation in children
12. Vestibular disorders
13. Speech and Language
14. Foreign bodies in the ear or nose
15. Congenital anomalies
16. Craniofacial anomalies
17. Nasal obstruction and rhinorrhoea in infants and children
18. Tonsils and adenoids
19. Dental development, orthodontics cleft lip and palate
20. Sleep apnoea
21. Stertor and stridor
22. Congenital disorders of the larynx, trachea and bronchi
23. Stenosis of the larynx
24. Acute laryngeal infections
25. Foreign bodies in the larynx and trachea
26. Tracheostomy and decannulation
27. Home care of the tracheostomised child
28. Neonatal pulmonary disorders
29. Diseases of the oesophagus

6. Books Recommended

1. Scott Brown's Otorhino Laryngolgy, Head and Neck Surgery 7th Edition (Vol. 1-3)
2. Mawson's Diseases of Ear – 5th Edition
3. Glassock –Sham baugh Surgery of Ear – 5th Edition
4. Ballenger's diseases of Nose, Throat, Ear head and Neck – 4th Edition
5. Otolaryngology, Paparella (Vol.1-4) 3rd Edition
6. Logan Turner's diseases of the Nose, Throat and Ear 10th Edition