

(D) ENT

General Learning Outcomes of the Ophthalmology Course:

To equip them with essential knowledge, skills and attitude to enable them to:

- Identify ENT diseases including emergencies, provide primary health care, refer to appropriate center and provide follow-up to the patients.
- Perform essential minor ENT procedures.
- Communicate effectively with the patient, the family and the community regarding disease and its relevant issues.
- Understand medical ethics and its application pertaining to ENT and maintain the confidentiality of the patient.
- To understand the prevalence and prevention of the common Public Health Problem related to ENT in the community
- Understand the principles of medical research including fundamentals of Information Technology

INSTRUCTIONAL STRATEGY

▪ METHODOLOGY

- Problem-based Learning
- Tutorials/ Practical sessions/Skills Lab practice
- Clinical rotations and ward visits
- Lectures/Seminars/CPC's – using modern audio visual techniques,
- Distant learning using electronic devices and current Information
- Technology facilities.

COURSE CONTENTS

NOSE:

- Anatomy and physiology
- History taking and examination

- **Diseases of external nose**

- Congenital lesions, choanal atresia, meningocele,encephalocele, trauma, cut nose, fractures, external deformities.

- **Diseases of septum**

- Epistaxis
- Dns
- Haematoma
- Septal abscess
- Perforation

- **Rhinitis**

- Allergic
- Atrophic
- Hyper-trophic
- Foreign bodies.
- V.m.r.

- **Polyps**

- Mucous
- Ethmoidal
- Antrochoanal
- Bleeding polypus

- **Foreign body nose**

- Rhinolith
- Maggots

- **Sinusitis**

- Acute sinusitis
- Chronic sinusitis, complications
- Fungal infection of nose and paranasal sinuses
- Cfs rhinorhea

- **Tumours**

- Basal cell carcinoma

- Squamous cell carcinoma
- Pappiloma
- Osteoma
- Headache and its ent causes

BUCCAL CAVITY, ORAL CAVITY, OROPHARYNX

- Anatomy and physiology
- History and examination
- **ORAL CAVITY ULCERS:**
 - Traumatic
 - Aphthus,
 - Vincents angina
 - Agranulocytic
 - Tuberculous
 - Maligant uclers
 - Thrush
 - Leukoplakia
 - Behcet's disease
 - Ulcerative lesions of oral cavity
- **OROPHARYNX**
 - Acute tonsillitis
 - Chronic tonsillitis
 - Peri tonsillitis and abscess
 - Diphtheria
 - Differential diagnosis of white patch on the tonsil
 - Tonsil/oral cavity
 - Tumours of tonsil
 - Retro-pharyngeal abscess
 - Pharyngeal abscess acute/chronic
 - Sleep apnea syndrome
 - AIDS

- Ludwig's angina
- **LARYNX**
- Anatomy
- Physiology
- History
- Examination
- Glottic stenosis/laryngocoele
- Laryngomalacia
- **Truama, Foreign Body & Infections of Larynx**
- Supraglottitis
- Acute laryngitis
- Laryngotracheobronchitis
- Diphtheria
- Chronic laryngitis
- Tuberculosis
- Syphilis
- Leprosy
- Non specific chronic laryngitis
- Vocal nodules
- Vocal cord paralysis
- Functional aphonia
- **Tumuors**
- Papilloma larynx
- Polyp
- Carcinoma larynx
- TNM classification
- **Tracheostomy**
- Indications
- Contra indications
- Complication
- Operation steps

- Post op care
- **EAR**
- Anatomy and physiology
- History and examination
- Tuning fork tests. Pure tone audiometry/impedance audio metery
- Pre auricular sinus
- Deafness
- Pain in the ear
- **External ear**
- Perichondritis
- Trauma to pinna/haematoma
- Wax ear
- Foreign body ear
- Hyper ostosis
- Neoplasia
- Boil ear
- Fungus
- Acute diffuse otitis externa
- Malignant otitis externa
- Myringitis bulliosa
- Traumatic rupture
- **Middle ear**
- Acute otitis media
- Acute necrotising otitis media
- Serous otitis media
- Chronic otitis media
- i Tubo tumpanic
- ii Mucosal disease
- iii Attico antral
- **Complications Of Otitis Media / Mastoiditis**
- Oto toxicity

- Acoustic trauma
- Trumatic perforation of tympanic membrane.
- Deaf child
- Speech therapy
- Oto sclerosis
- Vertigo
- Meniere's disease
- Facial nerve paralysis
- Eustachean tube dysfunction

- **HEAD & NECK**

- Cleft palate
- Hare lip
- Thyroglossal cyst / sinus
- Pre auricular cyst / sinus
- D/D of mass neck
- Lesions of salivary glands

PRACTICAL SKILLS:

By the end of the clerkship in the department of ENT,the student should be able to:

- Obtain an appropriate history.
- Perform a complete regional examination
- Identify common E.N.T. Head & Neck problems for a given patient and outline appropriate management plans.
- Identify problems needing referral to an Otolayngologist.

GENERAL SKILLS.

The students should be able to:

- Demonstrate the use of the head mirror for adequate illumination of the nasal cavity
- Examine the oropharynx and the neck
- Examine Larynx by indirect laryngoscopy
- Examination of postnasal space by posterior rhinoscopy.

SPECIAL SKILLS:

- Use the tongue blade to aid inspection of the buccal/cavity.
- Use the finger palpation examination of the oral cavity and tongue
- Palpate the neck to assess the lymph-nodes and salivary glands in the neck.
- Examination of cranial nerves
- Identify structures (of the neck, sinuses and ear) on X-ray (MRI, CT Scan)
- Demonstrate the appropriate use of nasal speculum
- Demonstrate the use of otoscope to aid in examination of the external auditory canal and the tympanic membrane.
- Learn pneumatic otoscopy. (Use of Seigle's speculum)
- Demonstrate the use of tuning fork and interpret the findings
- Interpret pure tone and speech audiometry
- Syringing of ear.
- Removal of wax from ear
- Anterior nasal packing

Observe the Following Operations and the Use Of the Listed Instruments

- Abscess incision drainage/ haematoma
- Reduction of fracture nose
- Septal correction surgery
- Antral wash out
- Cald Well Luc's operation

Introduction To New Procedures

- Nasal packing (anterior)
- Tracheostomy
- Laryngotomy
- Management of obstructed airway
- Foreign body in tracheo-bronchial tree and Larynx
- Ear operations

Instruments

- Ear instruments like myringotome and ear speculum

- Walsham's Forceps
- Ashe's Forceps
- Trocar and Cannula
- Nasal Speculum
- Freer elevator
- Suction Tube
- Lucl's forceps
- Tilly Nasal Dressing Forceps
- Bayonet Nasal Forces
- Myle's Retrograde Perforator.
- Nasal Snare
- Balenger Swivel Knife
- Eustachean Catheter
- Sinus forceps
- Endotracheal tube, cuffed, non-cuffed
- Mcgill forceps
- Tracheostomy tubes
- Tracheal dilator
- Retractors
- Crecooid hook
- Endoscopes
 - Laryngoscopes
 - Bronchoscopes
 - Oesophagoscopes
 - Nasopharyngoscope (Rigid/flexible)
- Adenoid curette
- Boyle Davis mouth gag
- Tonsil holding forceps
- Tonsilar artery forceps
- Tonsil snare
- Knot pusher

RECOMMENDED BOOKS

1. **Text book of ENT** by Logan Turner. Latest Ed.
2. **Diseases of ENT** by Dhengra. Latest Ed.
3. **Text Book of ENT** by Masud.
4. **Oxford Hand Book of ENT** by Prescott.
5. **Online Journals and Reading Materials through HEC Digital Library Facility.**