

Syllabus
Department of OTORHINOLARYNGOLOGY (ENT)
(Code: EN)

Anatomy and Physiology of ear, nose, throat, head & neck.

EN1.1 Describe the Anatomy & physiology of ear, nose, throat, head & neck.

EN1 2 Describe the pathophysiology of common diseases in ENT.

Clinical Skills.

EN2.1 Elicit document and present an appropriate history in a patient presenting with an ENT complaint.

EN2.2 Demonstrate the correct use of a headlamp in the examination of the ear, nose and throat.

EN2.3 Demonstrate the correct technique of examination of the ear including Otoscopy

EN2.4 Demonstrate the correct technique of performance and interpret tuning fork tests

EN2.5 Demonstrate the correct technique of examination of the nose & paranasal sinuses including the use of nasal speculum.

EN2.6 Demonstrate the correct technique of examining the throat including the use of a tongue depressor

EN2.7 Demonstrate the correct technique of examination of neck including elicitation of laryngeal crepitus

EN2.8 Demonstrate the correct technique to perform and interpret pure tone audiogram & impedance audiogram

EN2.9 Choose correctly and interpret radiological, microbiological & histological investigations relevant to the ENT disorders

EN2.10 Identify and describe the use of common instruments used in ENT surgery

EN2.11 Describe and identify by clinical examination malignant & pre- malignant ENT diseases

EN2.12 Counsel and administer informed consent to patients and their families in a simulated environment

EN2.13 Identify, resuscitate and manage ENT emergencies in a simulated environment (including tracheostomy, anterior nasal packing, removal of foreign bodies in ear, nose, throat and upper respiratory tract)

EN2.14 Demonstrate the correct technique to instilling topical medications into the ear, nose and throat in a simulated environment

EN2.15 Describe the national programs for prevention of deafness, cancer, noise & environmental pollution

Diagnostic and Therapeutic procedures in ENT

- EN3.1 Observe and describe the indications for and steps involved in the performance of Otomicroscopic examination in a simulated environment
- EN3.2 Observe and describe the indications for and steps involved in the performance of diagnostic nasal Endoscopy
- EN3.3 Observe and describe the indications for and steps involved in the performance of Rigid/Flexible Laryngoscopy
- EN3.4 Observe and describe the indications for and steps involved in the removal of foreign bodies from ear nose & throat
- EN3.5 Observe and describe the indications for and steps involved in the surgical procedures in ear, nose & throat
- EN3.6 Observe and describe the indications for and steps involved in the skills of emergency procedures in ear, nose & throat

Management of diseases of ear, nose & throat

- EN4.1 Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Otagia
- EN4.2 Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of diseases of the external Ear
- EN4.3 Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of ASOM
- EN4.4 Demonstrate the correct technique to hold visualize and assess the mobility of the tympanic membrane and its mobility and interpret and diagrammatically represent the findings
- EN4.5 Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of OME
- EN4 6. Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of discharging ear
- EN4.7 Elicit document and present a correct history demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of CSOM
- EN4.8 Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of squamosal type of CSOM
- EN4.9 Demonstrate the correct technique for syringing wax from the ear in a simulated environment

- EN4 10 . Observe and describe the indications for and steps involved in Observe and describe the indications for and steps involved in myringotomy and myringoplasty
- EN4.11 Enumerate the indications describe the steps and observe a mastoidectomy
- EN4.12 Elicit document and present a correct history demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Hearing loss
- EN4.13 Describe the clinical features, investigations and principles of management of Otosclerosis
- EN4.14 Describe the clinical features, investigations and principles of management of Sudden Sensorineural Hearing Loss
- EN4.15 Describe the clinical features, investigations and principles of management of Noise Induced Hearing Loss
- EN4.16 Observe and describe the indications for and steps involved in the performance of pure tone audiometry
- EN4.17 Enumerate the indications and interpret the results of an audiogram
- EN4.18 Describe the clinical features, investigations and principles of management of Facial Nerve palsy
- EN4.19 Describe the clinical features, investigations and principles of management of Vertigo
- EN4.20 Describe the clinical features, investigations and principles of management of Meniere's Disease
- EN4.21 Describe the clinical features, investigations and principles of management of Tinnitus
- EN4.22 Elicit document and present a correct history demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of squamosal type of Nasal Obstruction
- EN4.23 Describe the clinical features, investigations and principles of management of DNS
- EN4.24 Enumerate the indications observe and describe the steps in a septoplasty
- EN4.25 Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of squamosal type of Nasal Polyps
- EN4.26 Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of squamosal type of Adenoids
- EN4.27 Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of squamosal type of Allergic Rhinitis

- EN4.28 Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of squamosal type of Vasomotor Rhinitis
- EN4.29 Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of squamosal type of Acute & Chronic Rhinitis
- EN4.30 Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of squamosal type of Epistaxis
- EN4.31 Describe the clinical features, investigations and principles of management of trauma to the face & neck
- EN4.32 Describe the clinical features, investigations and principles of management of nasopharyngeal Angiofibroma
- EN4.33 Elicit document and present a correct history demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of squamosal type of Acute & Chronic Sinusitis
- EN4.34 Describe the clinical features, investigations and principles of management of Tumors of Maxilla
- EN4.35 Describe the clinical features, investigations and principles of management of Tumors of Nasopharynx
- EN4.36 Describe the clinical features, investigations and principles of management of diseases of the Salivary glands
- EN4.37 Describe the clinical features, investigations and principles of management of Ludwig's angina
- EN4.38 Elicit document and present a correct history demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of type of dysphagia
- EN4.39 Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of squamosal type of Acute & Chronic Tonsillitis
- EN4.40 Observe and describe the indications for and steps involved in a tonsillectomy / adenoidectomy
- EN4.41 Describe the clinical features, investigations and principles of management of Acute & chronic abscesses in relation to Pharynx
- EN4.42 Elicit, document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and Skill t describe the principles of management of hoarseness of voice

- EN4.43 Describe the clinical features, investigations and principles of management of Acute & Chronic Laryngitis
- EN4.44 Describe the clinical features, investigations and principles of management of Benign lesions of the vocal cord
- EN4.45 Describe the clinical features, investigations and principles of management of Vocal cord palsy
- EN4.46 Describe the clinical features, investigations and principles of management of Malignancy of the Larynx & Hypopharynx
- EN4.47 Describe the clinical features, investigations and principles of management of Stridor
- EN4.48 Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of Airway Emergencies
- EN4.49 Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of foreign bodies in the air & food passages
- EN4.50 Observe and describe the indications for and steps involved in tracheostomy
- EN4.51 Observe and describe the care of the patient with a tracheostomy
- EN4.52 Describe the Clinical features, Investigations and principles of management of diseases of Oesophagus
- EN4.53 Describe the clinical features, investigations and principles of management of HIV manifestations of the ENT

Integration

Human Anatomy

- AN36.1 Describe the (1) morphology, relations, blood supply and applied anatomy of palatine tonsil and (2) composition of soft palate
- AN36.2 Describe the components and functions of Waldeyer's lymphatic ring
- AN36.3 Describe the boundaries and clinical significance of pyriform fossa
- AN36.4 Describe the anatomical basis of tonsillitis, tonsillectomy, adenoids and peri-tonsillar abscess
- AN36.5 Describe the clinical significance of Killian's dehiscence
- AN37.1 Describe & demonstrate features of nasal septum, lateral wall of nose, their blood supply and nerve supply
- AN37.2 Describe location and functional anatomy of paranasal sinuses

AN37.3 Describe anatomical basis of sinusitis & maxillary sinus tumours

AN38.1 Describe the morphology, identify structure of the wall, nerve supply, blood supply and actions of intrinsic and extrinsic muscles of the larynx

AN38.2 Describe the anatomical aspects of laryngitis

AN38.3 Describe anatomical basis of recurrent laryngeal nerve injury

AN39.2 Explain the anatomical basis of hypoglossal nerve palsy

AN40.1 Describe & identify the parts, blood supply and nerve supply of external ea

AN40.2 Describe & demonstrate the boundaries, contents, relations and functional anatomy of middle ear and auditory tube

AN40.3 Describe the features of internal ear

AN40.4 Explain anatomical basis of otitis externa and otitis media

AN40.5 Explain anatomical basis of myringotomy

Physiology

PY10.13 Describe and discuss perception of smell and taste sensation

PY10.15 Describe and discuss functional anatomy of ear and auditory pathways & physiology of hearing

PY10.16 Describe and discuss pathophysiology of deafness. Describe hearing tests

PY10.20 Demonstrate (i) hearing (ii) testing for smell and (iii) taste sensation in volunteer/ simulated environment

Community Medicine

CM3.1 Describe the health hazards of air, water, noise, radiation and pollution.

Dentistry

DE4.1 Discuss the prevalence of oral cancer and enumerate the common types of cancer that can affect tissues of the oral cavity

DE4.2 Discuss the role of etiological factors in the formation of precancerous /cancerous lesions

DE4.3 Identify potential pre-cancerous /cancerous lesions

DE4.4 Counsel patients to risks of oral cancer with respect to tobacco, smoking, alcohol and other causative factors

General Medicine

IM24.17 Describe and discuss the aetiopathogenesis, clinical presentation, identification, functional changes, acute care, stabilization, management and rehabilitation of hearing loss in the elderly

Pediatrics

- PE14.2 Discuss the risk factors, clinical features, Diagnosis and management of Kerosene ingestion
- PE28.1 Discuss the etio-pathogenesis, clinical features and management of Naso pharyngitis
- PE28.2 Discuss the etio-pathogenesis of Pharyngo Tonsillitis
- PE28.3 Discuss the clinical features and management of Pharyngo Tonsillitis
- PE28.4 Discuss the etio-pathogenesis, clinical features and management of Acute Otitis Media (AOM)
- PE28.5 Discuss the etio-pathogenesis, clinical features and management of Epiglottitis
- PE28.6 Discuss the etio-pathogenesis, clinical features and management of Acute laryngo- trachea- bronchitis
- PE28.7 Discuss the etiology, clinical features and management of Stridor in children
- PE28.8 Discuss the types, clinical presentation, and management of foreign body aspiration in infants and children
- PE28.9 Elicit, document and present age appropriate history of a child with upper respiratory problem including Stridor
- PE28.10 Perform otoscopic examination of the ear
- PE28.11 Perform throat examination using tongue depressor
- PE28.12 Perform examination of the nose
- PE28.17 Interpret X-ray of the paranasal sinuses and mastoid; and /or use written report in case of management. Interpret CXR in foreign body aspiration and lower respiratory tract infection, understand the significance of thymic shadow in pediatric chest X-rays
- PE31.1 Describe the etio-pathogenesis, management and prevention of Allergic Rhinitis in Children
- PE31.3 Describe the etio-pathogenesis, clinical features and management of Atopic dermatitis in children

General Surgery

- SU20.1 Describe etiopathogenesis of oral cancer, symptoms and signs of pharyngeal cancer. Enumerate the appropriate investigations and discuss the principles of treatment.

DEPARTMENT OF OTORHINOLARYNGOLOGY (ENT)
(CODE: EN)
NOOTAN MEDICAL COLLEGE AND RESEARCH CENTRE, VISNAGAR
2ND YEAR M.B.B.S (2019-20 BATCH)
CLINICAL POSTING

UG CURRICULUM

NO.	TOPIC
1.	Elicit document and present an appropriate history in a patient presenting with an ENT complaint E.N. 2.1 Appropriate history in a patient presenting with an ENT complaint. E.N. 2.3 Demonstrate the correct technique of examination of the ear including Otoscopy. E.N. 2.5 Demonstrate the correct technique of examination of the nose & paranasal sinuses including the use of nasal speculum. E.N. 2.6 Demonstrate the correct technique of examining the throat including the use of a tongue depressor. E.N. 2.7 Demonstrate the correct technique of examination of neck including elicitation of laryngeal crepitus.
2.	Diagnostics and instruments in ENT E.N. 2.4 Demonstrate the correct technique of performance and interpret tuning fork test. E.N. 2.8 Demonstrate the correct technique of perform and interpret pure tone Audiometry. E.N. 2.9 Radiology relevant to ENT disorders. Identify and describe use of common instruments used in ENT OPD. E.N. 2.10 Identify and describe use of common instruments used in ENT Surgery. E.N. 3.2/3.3 Observe and describe method of diagnostic nasal endoscopy and rigid laryngoscopy.
3.	Observe common OPD and OT procedures E.N. 2.13 Identify and how to manage ENT emergencies. E.N. 4.9 Observe and describe the correct technique for syringing wax from ear in simulated environment. E.N. 3.5 Observe the common ear surgeries in OT, it's indications and steps. E.N. 3.5 Observe the common nose surgeries in OT, it's indications and steps. E.N. 3.5 Observe the common throat surgeries in OT, it's indications and steps.
4.	Management of diseases of ear, nose & throat E.N. 4.7 Elicit document and present a correct history demonstrate and describe the clinical features, choose the correct investigations and describe the principles of management of chronic suppurative otitis media. E.N. 4.23 Describe the clinical features, investigations and principles of Management of deviated nasal septum. E.N. 4.39 Elicit document and present a correct history, demonstrate and describe the clinical features, choose the correct investigations and describe the principles of

	management of Chronic Tonsillitis
	Describe the Anatomy & physiology of ear, nose, throat, head & neck
	E.N. 1.1 Cranial nerve examination 7 th and 8 th . E.N. 1.1 Applied anatomy of bones: skull base.

Assignment Submission
Method of Assessment: Viva (Bedside Examination, Table Viva)
Feedback