

# AYUB MEDICAL COLLEGE ABBOTTABAD

DEPARTMENT OF MEDICAL EDUCATION



## ENT MODULE

**4<sup>TH</sup> YEAR MBBS**

**BLOCK: 4**

**DURATION: 1 YEAR**

**FROM: 2023**

STUDENT NAME

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### **DISCLAIMER**

- Developing a study guide is a dynamic process and undergoes iteration according to the needs and priorities.
- This study guide is subjected to the change and modification over the whole academic year.
  - However, students are advised to use it as a guide for respective modules.
- It is to declare that the learning objectives (general and specific) and the distribution of assessment tools (both theory and practical) are obtained from Khyber Medical University, Peshawar. These can be obtained from: <https://kmu.edu.pk/examination/guidelines>
- The time tables are for guiding purpose. It is to advise that final timetables are always displayed over the notice boards of each lecture hall.
  - Students are encouraged to provide feedback via coordinator.

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## 1 Module Committee:

s.no	Name	Department	Role
1.	Prof. Dr. Umar Farooq		CEO & Dean
2.	Prof. Dr. Irfan U. Khattak		Director DME
<b>Module Team</b>			
3.	Prof. Dr. Farida Khan	ENT	Block Coordinator
4.	Dr. Tahira Sajid	ENT	Module Coordinator
5.	Prof. Dr. M. Asif	ENT	Member

## 2 What Is A Study Guide?

It is an aid to Inform students how student learning program of the module has been organized, to help students organize and manage their studies throughout the module and guide students on assessment methods, rules and regulations.


### 2.1 The study guide:

- Communicates information on organization and management of the module.
- This will help the student to contact the right person in case of any difficulty.
- Defines the objectives which are expected to be achieved at the end of the module.
- Identifies the learning strategies such as lectures, small group teachings.

### 2.2 Module objectives.

- Provides a list of learning resources such as books, computer-assisted learning programs, weblinks, and journals, for students to consult in order to maximize their learning.
- Highlights information on the contribution of continuous on the student's overall performance.
- Includes information on the assessment methods that will be held to determine every student's performance.

### 2.3 Achievement of objectives.

-  Focuses on information pertaining to examination policy, rules and regulations.



### 3 Recommended List Of Icons



**Introduction To Case**



**For Objectives**



**Critical Questions**



**Assessment**



**Resource Material**

## 4 Organization of Module

### 4.1 Introduction:

Ear, Nose, and Throat (ENT), or otorhinolaryngology, is an important, interesting and diverse specialty. It covers a wide range of areas from the common, such as tonsillitis, to the highly specialised, including cochlear implantation, congenital airway disease, voice disorders, skull base and facial plastic surgery. When you become a doctor, you will encounter ENT pathologies in abundance, some of which can be life threatening.

A study guide can be seen as a management tool which allows a teacher to exercise his responsibility while giving the students an important part to play in managing their own learning. The study guide is carefully designed in such manner that the students are able to better comprehend and analyze the objectives of their course of the ENT department. The guide is put together strategically so the students are not only able to better understand course outlines but gain a development about the practical behavior which needs to be conducted for being a good ENT practitioner

### 4.2 Rationale

Around the world patients suffering from ENT problems are 10% of the workload of GPs and considering there are over 300 million consultations in primary care each year, ENT is one of the largest prevalent groups seen and managed by GPs in the community. Otolaryngology as a speciality sits astride three important areas of acute life threatening emergencies, major oncological and reconstructive surgery and the largest volume of non-threatening ailments which nevertheless affect the quality of life of children and adults. The future of healthcare is significantly affected by the demographic changes of increasing longevity of life with chronic disease burden, end of life care, life style choices such as obesity, smoking, alcoholism and drug addiction as well as the social pressures of unemployment and poverty. All of this will affect every aspect of medicine including Otolaryngology.

Medical education fits in five domains: knowledge and understanding, generic skills, cognitive skills and importantly that of attitude and behaviour. Therefore the ENT curriculum will need to build on the integrated curriculum of basic science with direct patient contact. The components of this clinical experience will build on the knowledge gained, skills and attitudes, judgement, problem solving, reflection, professionalism through working as teams and identifying with the values of society.



## 5 Learning Objectives

### 5.1 General Learning Outcomes

By the end of this module the students would be able to;

#### 5.1.1 Knowledge

1. Describe the anatomy and physiology of Ear, Nose, Throat & Neck.
2. Describe benign and malignant tumors involving the ENT and Head & Neck.
3. Discuss differential diagnosis of membrane on the tonsils and describe diphtheria.
4. Describe sialadenitis, sialolithiasis and enumerate the benign and malignant salivary tumors.
5. Discuss a treatment plan for the patients with various common diseases of the ENT and Head and Neck region.
6. Describe dysphagia and its causes, Plummer-Vinson Syndrome and malignant tumors of hypopharynx that could lead to dysphagia and hoarseness along with their management.
7. Describe the management of corrosive ingestion and foreign body in the esophagus.
8. Describe various congenital and acquired disorders of the ENT and Head & Neck region.
9. Describe the significance of hoarseness and stridor & enumerate their causes and clinical features of respiratory obstruction.
10. Describe tracheostomy and indications for this procedure.
11. Describe squamous cell carcinoma of the larynx and the impact of stage of disease on management and survival of patient.
12. Explain the mutual association of hearing and balance disorders & the various conditions that give rise to these disorders.
13. Describe the clinical features and course of otosclerosis, Meniere's disease, vestibular neuronitis & BPPV.
14. Diagnose suppurative otitis media & describe its intracranial and extra cranial complications.
15. Describe the 'rehabilitation of deaf and mute child' and the impact of hearing impairment in children.
16. Describe rhino-sinusitis, its various types of rhino-sinusitis and its complications.
17. Describe the diseases of the nasal septum & define DNS and enumerate its various types.
18. Describe the pathophysiology, types and management of Sino nasal polyposis.
19. Enumerate various conditions resulting in nasal obstruction & discharge.
20. Describe various types of allergic & non-allergic rhino-sinusitis.
21. Enumerate fungal and other granulomatous diseases of the nose & paranasal sinuses and describe their management.



22. Categorize various conditions benign & malignant neoplasms of the nose & paranasal sinuses.
23. Classify various types of neck swellings and describe clinical differentiating features of benign & malignant neck masses.
24. Describe a classification of various lymph nodes levels in the neck and describe the lymphatic drainage of the head and neck.
25. Describe the anatomy and physiology of salivary glands
26. Describe benign & malignant diseases of the salivary glands

#### 5.1.2 Skills

1. Obtain appropriate history, examine Ear, Nose, oral cavity, pharynx, larynx and Neck including mirror examinations and functional examinations of these areas.
2. Assist in diagnostic procedures and take swab for culture and sensitivity from ear, Nose & throat under supervision.
3. Prescribe hematological investigations, x-ray paranasal sinuses, CT/MRI scan of paranasal sinuses, temporal bone and Head & Neck & interpret it.
4. Perform clinical tests of hearing, tuning fork tests and balance independently and Interpret pure tone audiogram & tympanogram.
5. Describe the ABC protocol for resuscitation of traumatic patients.
6. Differentiate clinically between various types of stridor and possible site of obstruction.

#### 5.1.3 Attitude

Obtain informed consent from patient and communicate with the patients, their families and community regarding diseases & its relevant issues.

## 5.2 Specific learning objectives

### THEME 1: SORE THROAT

TOPIC	Lecture hours	LEARNING OBJECTIVES
<b>Anatomy &amp; physiology of oral cavity, Pharynx &amp; salivary glands</b>	2 hour	<ol style="list-style-type: none"> <li>1. Discuss the anatomy of oral cavity and site classification of oral cavity.</li> <li>2. Discuss applied anatomy of pharynx &amp; mechanism of deglutition</li> <li>3. Discuss applied anatomy of nasopharynx and anatomy and physiology of adenoids</li> <li>4. Discuss applied anatomy of oropharynx and anatomy and physiology of pharyngeal tonsils</li> <li>5. Discuss the anatomy of minor and major salivary glands</li> </ol>
<b>Acute Pharyngitis</b>	1 hour	<ol style="list-style-type: none"> <li>6. Discuss classification, types, aetiology, clinical features, diagnosis and treatment of acute pharyngitis</li> </ol>
<b>Chronic Pharyngitis</b>	1 hour	<ol style="list-style-type: none"> <li>7. Discuss classification, types, aetiology, clinical features, diagnosis and treatment of chronic pharyngitis</li> </ol>
<b>Acute Tonsillitis/ Peritonsillar abscess (Quinsy)</b>	1 hour	<ol style="list-style-type: none"> <li>8. Discuss classification, types, aetiology, clinical features, diagnosis and treatment of acute tonsillitis</li> <li>9. Discuss the aetiology, clinical features and treatment of quinsy</li> </ol>
<b>Chronic Tonsillitis</b>	1 hour	<ol style="list-style-type: none"> <li>10. Discuss classification, types, aetiology, clinical features, diagnosis and treatment of chronic tonsillitis</li> </ol>
<b>Oral ulceration</b>	1 hours	<ol style="list-style-type: none"> <li>11. Enumerate differential diagnosis of oral ulcers and discuss management of Aphthous ulcers</li> </ol>
<b>Trauma to the palate and Oropharynx</b>	1 hour	<ol style="list-style-type: none"> <li>12. Discuss the principles of soft tissue &amp; bone repair in palatal and pharyngeal trauma.</li> </ol>
<b>Carcinoma of oral cavity</b>	1 hour	<ol style="list-style-type: none"> <li>13. Discuss the aetiology , clinical features and treatment of oral carcinoma</li> </ol>
<b>Approach to a patient with sore throat</b>	1 hour	<ol style="list-style-type: none"> <li>14. Enumerate differentials of sore throat and discuss important differentiating points</li> </ol>
<b>Anatomy &amp; physiology of salivary glands</b>	1 hour	<ol style="list-style-type: none"> <li>15. Describe the anatomy &amp; physiology of parotid, submandibular, sublingual &amp; minor salivary glands</li> </ol>
<b>Non neoplastic disorders of the salivary glands</b>	1 hour	<ol style="list-style-type: none"> <li>16. Describe non neoplastic disorders of salivary glands, its management and treatment</li> </ol>
<b>Sialolithiasis and sialectasis</b>	1 hour	<ol style="list-style-type: none"> <li>17. Describe stone formation and stasis of secretions in the salary glands and its management</li> </ol>

<b>Neoplasm of salivary glands</b>	1 hour	18. Describe the features, course and management of benign and malignant, submandibular, sublingual and minor salivary glands
<b>Complications of salivary gland surgeries</b>	1 hour	19. Describe in detail different surgical procedures of salivary glands and its complications

## THEME 2: DIFFICULTY IN SWALLOWING

TOPIC	LECTURE HOURS	LEARNING OBJECTIVES
<b>Dysphagia &amp; Plummer Vinson Syndrome</b>	1 hour	1. Discuss Dysphagia & the anatomy and physiology of Esophagus and the appropriate medical and surgical treatment of dysphagia. 2. Discuss PVS & the predisposing factors for causation & management
<b>Pharyngeal and esophageal Pouches</b>	1 hour	3. Discuss Pharyngeal pouch & the predisposing factors, clinical features and treatment.
<b>Oropharyngeal Tumors</b>	1 hour	4. Enumerate oropharyngeal tumors. Discuss the types, aetiology and treatment of oropharyngeal carcinoma.
<b>Hypo pharyngeal Tumors</b>	1 hour	5. Enumerate oropharyngeal tumors. Discuss the aetiology and treatment of hypo pharyngeal carcinoma.
<b>Tumors of Esophagus.</b>	1 hour	6. Classify esophageal tumors & describe the etiology, clinical features and treatment options.

## THEME 3: Hoarseness and Stridor

TOPIC	LECTURE HOURS	LEARNING OBJECTIVES
<b>Applied anatomy of potential spaces in &amp; around the larynx and neck</b>	2 hour	20. Discuss applied anatomy of larynx 21. Discuss the pre-piglottic, paraglottic & Rinke's space.

<b>Anatomy of Potential neck spaces</b>	3 hour	22. Discuss anatomy of deep fascia of neck & anatomy of potential pharyngeal and neck spaces. 23. Discuss surgical anatomy of peritonsillar, parapharyngeal & submandibular spaces 24. Discuss anatomy of retro pharyngeal space
<b>Applied anatomy &amp; physiology of Larynx/neck , Voice physiology</b>	2 hour	25. Discuss applied anatomy of Larynx. 26. Discuss the physiology of larynx. 27. Discuss the physiology of voice, speech production & its regulation
<b>Acute Laryngitis</b>	1 hour	28. Discuss aetiology, clinical features, diagnosis and treatment of acute simple laryngitis
<b>Chronic Laryngitis</b>	1 hour	29. Discuss chronic laryngitis including chronic granulomatous conditions of the larynx, its clinical features, diagnosis and treatment.
<b>Vocal nodules &amp; vocal polyps</b>	1 hour	30. Discuss differentiating points between vocal nodules & polyps, its aetiology, clinical features, diagnosis and treatment.
<b>Vocal cord paralysis</b>	1 hour	31. Discuss paralytic causes of hoarseness, its types, clinical features, diagnosis and treatment.
<b>Stridor</b>	1 hours	32. Enumerate causes of stridor. Explain types of stridor. Discuss management of congenital stridor
<b>Apyrexial causes of stridor</b>	1 hour	33. Discuss the aetiology and management of acquired apyrexial causes of stridor
<b>LECTUREPyrexial causes</b>	1 hour	34. Discuss the aetiology and management of pyrexial causes of stridor
<b>Laryngeal trauma</b>	1 hour	35. Discuss the management of laryngeal trauma
<b>Acute Respiratory obstruction</b>	1 hour	36. Discuss signs of respiratory obstruction. Enumerate alternate airways & discuss tracheostomy.
<b>Laryngotracheal Foreign body</b>	1 hour	37. Discuss the aetiology, types & treatment of Laryngotracheal Foreign bodies.
<b>Malignant Tumours of the Larynx / Carcinoma of Larynx</b>	1 hour	38. Discuss incidence, epidemiology, risk factors, Pathology & classification of carcinoma larynx.  39. Discuss UICC classification of laryngeal sites & subsites. Discuss management of carcinoma of all the subsites
<b>Approach to a patient with hoarseness</b>	1 hour	1. Discuss the differentials diagnosis of hoarseness and explain management approach to a patient presenting with hoarseness

#### THEME 4: Deafness, Ear Discharge & Dizziness

TOPIC	LECTURE HOURS	LEARNING OBJECTIVES
<b>Applied Anatomy and Physiology of Ear</b>	2 hour	40. Describe the applied anatomy of the external, middle & internal ear. 41. Discuss the functions of the ear 42. Discuss basic principles & interpretation of various tuning fork tests 43. Discuss the interpretation of PTA & impedance audiometry
<b>Trauma to External Ear and the Temporal Bone</b>	1 hour	2. Classify the trauma to external ear and the temporal bone and 3. Describe the appropriate imaging investigations & treatments.
<b>Otitis Externa</b>	1 hour	4. Discuss Otitis Externa, its clinical features, differential diagnosis and relevant clinical & radiological investigations and treatment.
<b>Acute Suppurative otitis media</b>	1 hour	5. Discuss acute suppurative otitis media. Describe its clinical features, differential diagnosis and relevant clinical & radiological investigations and treatment
<b>Chronic Suppurative Otitis Media without chloesteatoma</b>	1 hour	6. Discuss Chronic Suppurative Otitis Media and its clinical features, differential diagnosis and relevant clinical & radiological investigations and treatment.
<b>Chronic Suppurative Otitis Media with Cholesteatoma</b>	1 hour	7. Discuss cholesteatoma and its clinical features, differential diagnosis and relevant clinical & radiological investigations and treatment.
<b>Complications of Suppurative Otitis Media.</b>	1 hour	8. Discuss intracranial & extracranial otogenic complications and enumerate the appropriate clinical & radiological investigations and treatment.
<b>Mastoiditis: Acute and Chronic</b>	1 hour	9. Discuss mastoiditis, its clinical features, differential diagnosis and relevant clinical & radiological investigations and treatment.
<b>Acoustic Neuroma</b>	1 hour	10. Discuss acoustic neuroma & the appropriate clinical, audiological and imaging studies used in diagnosis and treatment of acoustic neuroma.

TOPIC	LECTURE HOURS	LEARNING OBJECTIVES
<b>Approach to patient with a Conductive hearing loss</b>	1 hour	11. Discuss the differential diagnosis of hearing loss & the medical and surgical management of CHL.
	1 hour	12. Discuss Otosclerosis & its medical & surgical treatment of otosclerosis
	1 hour	13. Discuss OME & its medical and surgical treatment
<b>Approach to patient with a Sensorineural Hearing Loss(SNHL)</b>	3 hour	14. Discuss SNHL & its differential diagnosis. 15. Discuss tinnitus & its management. 16. Discuss Ototoxicity & its management.
<b>Vertigo Vestibular Neuritis Meniere's Diseases BPPV</b>	1 hour	17. Discuss true vertigo & its types, pathophysiology, investigations & management 18. Discuss Meniere's disease & its treatment. 19. Discuss BPPV & its clinical features, diagnoses & treatment.
<b>Approach to a deaf patient</b>	1 hour	20. Discuss the approach to a deaf patient.
<b>Approach to Management of Deaf Child</b>	1 hour	21. Differentiate congenital, developmental and acquired hearing loss & describe the impact of hearing impairment at various ages and their management.

#### THEME 5: Nasal Obstruction

TOPIC	LECTURE HOURS	LEARNING OBJECTIVES
<b>Applied Anatomy, Physiology of Nose &amp; Paranasal Sinuses</b>	2 hour	44. Discuss the surgical anatomy, physiology & congenital disorders of the nose & PNS. 45. Discuss the congenital disorders of the nose, palate & choanal atresia
<b>Diseases of the Nasal Septum</b>	1 hour	22. Discuss DNS, its types, the clinical features, medical & surgical treatment of nasal obstruction.
<b>Sino-Nasal Polyposis</b>	1 hour	23. Discuss sino-nasal polyposis, its types and describe the clinical features, medical & surgical treatment of nasal polyps.
<b>Fungal Rhinosinusitis</b>	1 hour	24. Discuss various fungi implicated in fungal rhinosinusitis and the appropriate clinical, radiological investigations and treatment of fungal rhinosinusitis.
<b>Sino-Nasal Tumors</b>	1 hour	25. Discuss various benign and malignant tumors affecting the nose and paranasal sinuses and

TOPIC	LECTURE HOURS	LEARNING OBJECTIVES
		their clinical features, step involved in diagnosis and treatment options.
<b>Trauma to Nose and Face and CSF rhinorrhea</b>	1 hour	26. Discuss the Le Forte classification of mid face fractures & the appropriate clinical and radiological investigations & management of these fractures. 27. Discuss CSF rhinorrhea and the predisposing factors, types, clinical features, investigations and treatment.
<b>Headaches and Facial Pain</b>	1 hour	28. Discuss rhinogenic headaches and the appropriate clinical, radiological investigations and treatment.
<b>Granulomatous Diseases of the Nose</b>	1 hour	29. Discuss various granulomatous disorders affecting the nose & the clinical features, investigations & treatments.
<b>Adenoids</b>	1 hour	30. Discuss anatomy diseases of adenoids and treatment
<b>Juvenile Nasopharyngeal Angiofibroma</b>	1 hour	31. Enumerate diseases of the nasopharynx 32. Discuss Juvenile nasopharyngeal angiofibroma, clinical features, investigations and treatment.
<b>Nasopharyngeal Carcinoma</b>	1 hour	33. Discuss the risk factor, clinical features, investigation, treatment and follow up nasopharyngeal carcinoma
<b>Acute Sinusitis</b>	1 hour	34. Discuss acute sinusitis & the appropriate clinical, radiological investigations and steps involved in treatment of patients.
<b>Chronic Sinusitis</b>	1 hour	35. Discuss chronic sinusitis & the appropriate clinical, radiological investigations and steps involved in treatment of patients.
<b>Complications of Sinusitis</b>	1 hour	36. Enumerate the predisposing factors for development of complications due to sinusitis 37. Discuss treatment.
<b>Allergic Rhinitis (AR) and Non- allergic</b>	1 hour	38. Discuss allergic rhinitis and its types, pathophysiology, investigations & the medical and surgical treatment. 39. Discuss non –allergic rhinitis and the appropriate clinical and radiological investigations and its treatment.
<b>Infective Rhinitis: Acute. &amp; Chronic.</b>	1 hour	40. Discuss infective rhinitis and the medical and surgical treatment of various types of acute and chronic infective rhinitis.

TOPIC	LECTURE HOURS	LEARNING OBJECTIVES
<b>Foreign Body, Rhinolith, Maggots Nose</b>	1 hour	41. Discuss Rhinolith and maggots in the nose and the appropriate medical and surgical treatment of patients with these conditions.
<b>Approach to a patient with Epistaxis</b>	1 hour	42. Approach to a patient with epistaxis 43. Discuss epistaxis & the appropriate clinical, radiological & hematological investigations & treatment of the condition.

#### THEME 6: Neck Swelling

TOPIC	HOURS	LEARNING OBJECTIVES
<b>Para pharyngeal Abscess</b>	1 hour	44. Discuss the aetiology and management of each Para pharyngeal abscess.
<b>Retropharyngeal Abscess</b>	1 hour	45. Discuss the types, aetiology, treatment and complications of each retropharyngeal abscess.
<b>Submandibular Abscess</b>	1 hour	46. Discuss the causes and treatment of submandibular abscess.
<b>Trauma of the Larynx and Neck</b>	1 hour	47. Classify the nature of trauma to the neck & larynx 48. Discuss clinical features, investigations and treatment.
<b>Approach to a neck swelling</b>	1 hour	49. Discuss the approach to a neck swelling.
<b>Evaluation of metastatic lymph nodes and occult primary in Neck (Occult Primary).</b>	1 hour	50. Discuss Occult primary & the predictable nodal drainage in head and Neck region. 51. Discuss the signs and symptoms of occult primary & the appropriate clinical and radiological investigations & different treatment options.

### 6 Clinical Schedule

#### Theme 1: Foundation of Otorhinolaryngology & Head and Neck

Topic	Hours	Learning objectives	Assessment method
History taking	01	1. Obtain detailed history of sore throat	OSCE
Examination	02	2. Perform Examination in a sore throat patient including general physical, local and systemic examination	OSCE



Nasopharyngeal examination	02	3. Perform mirror examination of nasopharynx	OSCE
Examination of oral cavity and oropharynx	02	4. Examine oral cavity and oropharynx in a systematic way	OSCE
Hypopharyngeal Examination	01	5. Perform Indirect hypopharyngoscopy with mirror	OSCE
Mouth gauge and other instruments	01	6. Assemble mouth gauge and name the instrument used in tonsillectomy with utility of each instrument.	OSCE
Examination of Neck	02	7. Perform systematic examination of Neck	OSCE

## Theme 2: Sore Throat

Topic	Hours	Learning objectives	Assessment method
Communicate with patient of tonsillectomy	01	8. Obtain a pre-operative informed consent from a patient of tonsillectomy	OSCE
Tonsillar surgery & its instruments	02	9. Observe tonsillectomy surgery and identify instruments used	OSCE
Conservative management of sore throat	01	10. Discuss a conservative management plan for inpatient acute follicular tonsillitis	OSCE
Scrubbing technique	01	11. Demonstrate scrubbing hands using proper solution & take proper time by proper method	OSCE
Biopsy from oral ulcer	01	12. Assist to take a biopsy from tongue ulcer	OSCE

## Theme 3: Difficulty in Swallowing

Topic	Hours	Learning objectives	Assessment method
Rigid Endoscopy system	01	13. Identify instruments & equipment used in rigid endoscopy system, describe rigid endoscopies.	OSCE
Oral & oropharyngeal mass palpation	01	14. How to palpate a mass in the oral cavity and oropharynx	OSCE
Oesophagoscopy	02	15. Observe rigid oesophagoscopy done for pharyngeal growth or dysphagia	OSCE



#### Theme 4: Hoarseness and Stridor

Topic	Hours	Learning objectives	Assessment method
History taking	02	16. Obtain detailed history of hoarseness & stridor	OSCE
Examination	02	17. Perform Examination in a patient with hoarseness & stridor, including general physical, local and systemic examination	OSCE
Indirect laryngoscopy examination	01	18. Perform mirror examination of Laryngopharynx	OSCE
Examination of Neck	01	19. Perform systematic examination of Neck	OSCE
Investigations of Laryngeal diseases	01	20. Fill requisition form for different types of investigations for Laryngeal diseases.	OSCE
Video laryngoscopy	01	21. Observe a video of laryngoscopy for the diagnosis of hoarseness in clinical setting	OSCE
Conservative management of Hoarseness	01	22. Discuss a conservative management plan for a patient of hoarseness due to voice abuse.	OSCE
Laryngoscopy	02	23. Observe rigid system laryngoscopy under general anesthesia and identify instruments used in the procedure	OSCE
Communicate with a patient for voice rest	01	24. Counsel a patient on voice rest	OSCE
Stridor in bilateral abductor vocal paralysis	02	25. Council bilateral abductor paralysis patient & its management in a post thyroidectomy patient	OSCE
Biopsy from laryngeal growth.	01	26. Observe the procedure for taking biopsy from laryngeal growth.	Formative
Tracheostomy	01	27. Demonstrate the procedure of tracheostomy	Formative
Communicate with patient on laryngectomy	01	28. Demonstrate the procedure how to Obtain informed consent from a patient for total laryngectomy	OSCE

#### Theme 5: Deafness, Ear Discharge & Dizziness

Topic	Hours	Learning objectives	Assessment method
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History taking	02	29. Obtain detailed history from a patient with ear discharge/deafness/dizziness	OSCE
Local Examination	01	30. Perform clinical examination of the hearing & balance system.	OSCE
Otoscopy Tuning fork test Balance testing Examination under microscope	03	31. Perform otoscopic examination of the ear 32. Perform tuning fork tests 33. Perform test of balance, peripheral & central 34. Assist in performing EUM	OSCE
Investigations of ear diseases	01	35. Discuss & fill requisition form for different types of investigations for ear diseases.	OSCE
Interpretation of audiogram and Impedance	01	36. Discuss the interpretation of audiogram and impedance.	OSCE

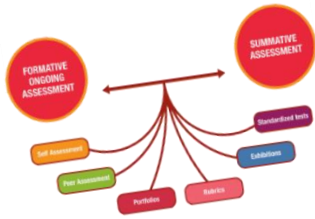
### Theme 6: Nasal Obstruction

Topic	Hours	Learning objectives	Assessment method
History taking	02	37. Obtain detailed history from a patient with nasal obstruction	OSCE
Local Examination	01	38. Perform clinical examination of the nose & paranasal sinuses.	OSCE
Anterior & posterior Rhinoscopy		39. Perform anterior & posterior Rhinoscopies with mirror	
Probe test		40. Perform probe test	
Nasendoscopy	01	41. Assist in performing nasendoscopy.	OSCE
Pus culture / sensitivity	01	42. Perform Take swab from nose for different purpose	
X – Rays nasopharynx /PNS		43. interpret X – Rays nasopharynx/PNS for enlarged soft tissues shadow	OSCE
Nasal patency & adenoid facies in enlarged adenoids	01	44. Perform examination for nasal patency in enlarged adenoids.	OSCE
Adenoid surgery	01	45. Observe adenoid surgery being done in operating room	Formative
CT scan nose & nasopharynx	01	46. Interpret CT scan in nasopharyngeal angiofibroma, describe bowing sign.	Formative
Nasopharyngeal Biopsy	01	47. Observe surgery for nasopharyngeal biopsy	Formative
Investigations of nose & paranasal sinuses diseases	01	48. Document Fill requisition form for different types of investigations for nose & paranasal sinuses diseases.	Formative

Referral call protocol		49.	
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### Theme 7: Swelling Neck

Topic	Hours	Learning objectives	Assessment method
Examination of Neck Nodes	02	50. Perform systematic examination of all groups of neck nodes	OSCE
Examination of lump in the neck	01	51. Perform examination of lump in the neck in a systematic way.	OSCE
Surgery on a pharyngeal abscess	01	52. Observe surgery on a pharyngeal abscess & describe drainage of peritonsillar abscess	OSCE
Thyroid examination	01	53. Perform Thyroid Examination both anatomically & functionally	OSCE
Pharyngeal abscess surgery related instruments	01	54. Identify instruments used in drainage of pharyngeal abscess surgery	OSCE
Examination of parotid	01	55. Perform examination of parotid swelling	OSCE
Examination of thyroid	01	56. Perform examination of thyroid gland	OSCE



## 7 Examination and Methods of Assessment:

The year-4 will be assessed in 5 blocks.

- 1) Block-1 (Neurosciences-2 module) will be assessed in **paper-J**.
- 2) Block-2 (GIT and hepatobiliary module-2 will be assessed in **paper-K**.
- 3) Block-3 (Renal-2, Endocrine and Reproduction-2 module) will be assessed in **paper-L**.
- 4) Block-4 (ENT module) will be assessed in **paper M-1**.
- 5) Block-5 (Eye module) will be assessed in **paper M-2**.
- 6) Each written paper consists of 120 MCQs except for ENT & Eye papers which includes 90 MCQs each.
- 7) Internal assessment will be added to final marks in KMU.
- 8) For ENT (M-1 module) and Eye (M-2 module), the marks allocated for each OSCE station will be 5, while the rest of the modules are allotted 6 marks per OSCE station.
- 9) Practical assessment will be in the form of OSPE/OSCE which will also include embedded viva stations.

## Assessment Plan for 4<sup>th</sup> Year MBBS

Theory paper	Modules	Theory marks	Internal assessment theory (10%)	OSPE/OSPE	Internal assessment OSPE/OSPE (10%)	TOTAL MARKS
Paper J	Neurosciences-2	120	13	120	13	266
Paper K	GIT-2	120	13	120	13	266
Paper L	Renal-2 and Endocrine and Reproduction	120	14	120	13	267
Paper M-1	ENT	90	10	75*	8	183
Paper M-2	EYE	90	10	75*	8	183
Research**						35
<b>Total Marks</b>		<b>480</b>	<b>53</b>	<b>500</b>	<b>67</b>	<b>1200</b>

\*For ENT (M-1 module) and Eye (M-2 module), the marks allocated for each OSCE station will be 5, while the rest of the modules are allotted 6 marks per OSPE/OSCE station.

\*\*Research viva of 20 marks will be conducted in paper-L. However, the rest of the 15 marks will be decided by the concerned department internally for the contribution of the students in research project/thesis.

## **Paper M-1 (ENT module)**

**Table-7: MCQs**

<b>Module</b>	<b>Total MCQs</b>
ENT	90

**Table-8: OSCE**

<b>Module</b>	<b>Total OSCE stations</b>
ENT	15

- For blocks J, K, and L, a minimum of 20 stations will be used in final exams. Total marks will be 120 (6 marks for each station).
- For M-1 and M-2, there will be 15 stations during each assessment with 5 marks per station.





## 8 Learning Opportunities and Resources

### 8.1 Books:

Diseases of Ear, nose and Throat by Logan Turner, 11th edition

Principles and Practice of Oto-Rhino-Laryngology 6th Edition Pdf Free Download by Iqbal Hussain Udaipurwala

3. Diseases of Ear, Nose and Throat by P.L. Dhingra, 6th edition

### 8.2 Reference Books

1. Current medical diagnosis & treatment by Maxine A. Papadakis

2. Scott-Brown's Otorhinolaryngology, Head & Neck Surgery

### 8.3 Website:

<https://medicalstudyzone.com/principles-and-practice-of-oto-rhino-laryngology-pdf-free-download-by-iqbal-hussain-udaipurwala/>

<https://booksinn.com.pk/product-category/medical-sciences/e-n-t-and-otorhinolaryngology/>

[https://www.freebookcentre.net/medical\\_text\\_books\\_journals/ENT-Books.html](https://www.freebookcentre.net/medical_text_books_journals/ENT-Books.html)



**Please contact**

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F. Please give overall rating of the course

90% - 100% (       )

80% - 90% (       )

70% - 80% (       )

60% - 70% (       )

50% - 60% (       )

below 50% (       )

Please comment on the strengths of the course and the way it was conducted.

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Please comment on the weaknesses of the course and the way it was conducted.

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Please give suggestions for the improvement of the course.

Optional – Your name and contact address:

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Thank you!!

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