

# **Department of Otorhino laryngology**



**Study Guide For  
4<sup>th</sup> year MBBS**

**Sharif Medical & Dental College,  
Lahore**



## **PREFACE**

Welcome to the Otorhinolaryngology course. The department of otorhinolaryngology will be facilitating the course. The purpose of the study guide is to help you learn the subject of otorhinolaryngology. It is designed to help you manage your learning and access the resources available to you. Study guides are different from textbooks. This guide includes details about various teaching activities which will take place throughout the academic year.

At Sharif Medical & Dental College system we follow is based on annual assessment in which we teach the subject of Otorhinolaryngology in fourth year of medical education. The training program we follow is based on the vision of UHS and mission of the SMDC. This teaching and training program is friendly and easy to understand for new students. The study guide we developed is detailed and comprehensive. Students can get all the information about the lectures, timetable, ward classes, small group discussion, and paper pattern and marks distribution. List of lectures to be conducted in the session are mentioned with names of the instructors. Every lecture has some purpose and outcome to be achieved that is also included. Complete detail about the examination, surgical procedures and management is included for the students so broad and specific learning objectives are achieved to maximum level. Details of assessment methods and schedule are also present for students so they can make their timetable for the examination. The entire course outline is given with topic to be taught and the tutors.

Check list of recommended text books are also a part of study guide. We are hopeful that the study guide will be great help for new students.

**Dr. Ghulam Dastgir Khan**

MBBS, MCPS, DLO, FCPS

Associate Professor/HOD ENT

Sharif Medical & Dental College, Lahore.



## **Vision & Mission of UHS**

Qualitative and Quantitative Revolution in Medical Education and Research through Evolution and thereby improve Health Care delivery to Populace.

UHS shall be innovative global center of excellence in learning and research, supporting a community of scholars and professionals committed to serving society, promoting the development of students to reach their true potential in becoming competent, ethical, caring, and inquiring health professionals for the benefit of the country and the wider world.

## **Mission of SMDC**

Sharif Medical & Dental College is dedicated to best serve the nation through preservation and dissemination of advanced knowledge and educating the students by latest trends in learning and research reaching levels pars excellence.

The Institution is committed to provide standardized quality medical education to its students by inculcating professional knowledge, skills and responsibilities in them with the aim of:

- Preparing them as modern physicians having initiative to act as future leaders in their respective fields and becoming lifelong learners.
- Encouraging the spirit of critical thinking through research and publication.
- Building up an understanding of the ethical values compatible with our religion, culture and social norms.
- Developing a sense of being responsible citizens of the society possessing professional competence and instilling in them the values of hard work and dedication thus preparing them to be accountable to the stakeholders and the state.

The Institution is devoted to keep abreast its faculty with the latest trends in Medical Education encompassing teaching/learning methodologies, assessment tools, research opportunities and professionalism to facilitate their professional development, competencies and commitment towards continues learning.

Our patient-centered mission is achieved by outstanding medical care & services in professional practice with due emphasis and focus on our local health needs.

Our mission further elaborate upon establishing academic and research facilities in areas of local demand under global gold standards and leading advancement in research, education & patient care.

## **Vision of SMDC**

To be recognized for the provision of a safe and functional environment conducive to collaborative teaching & learning, comfortable working atmosphere, and conducting world class research through professionalism and excellence.



## LIST OF CONTENTS

<b>Sr. No</b>	<b>Topic</b>	<b>Page No's</b>
01	List of Lectures	1
02	List of Practicals & Tutorials (SGDs)	8
04	Assessment Plan	11
05	List of Faculty	12
06	Prescribed Text Books & References	13



## LIST OF LECTURES

### *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
- **Trauma, 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
- **Tumours**
- 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 audiometry
- 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 tympanic
- ii Mucosal disease
- iii Attico antral
- **Complications Of Otitis Media / Mastoiditis**
- Oto toxicity





- Acoustic trauma
- Traumatic 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 Otolaryngologist.

**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
- Tonsillar artery forceps
- Tonsil snare
- Knot pusher



## LIST OF PRACTICALS & TUTORIALS (SGDS)

Date	Day	Time	Topic	Tutor	Book
<b>EAR</b>					
17-03-21	Wednesday	10 to 10:45	Introduction ENT	Dr. Ghulam Dastgir Khan	PL Dhingra
24-03-21	Wednesday	10 to 10:45	Anatomy external and middle ear	Dr. Ghulam Dastgir Khan	PL Dhingra
29-03-21	Monday	10 to 10:45	Anatomy inner ear	Dr. Ghulam Dastgir Khan	PL Dhingra
<b>01-04-21 to 08-04-21</b>			<b>Spring Vacations</b>		
12-04-21	Monday	10 to 10:45	Physiology ear-1	Dr. Ghulam Dastgir Khan	PL Dhingra
14-04-21	Wednesday	10 to 10:45	Physiology ear-2	Dr. Ghulam Dastgir Khan	PL Dhingra
19-04-21	Monday	10 to 10:45	Diseases of External ear-1	Dr. Ghulam Dastgir Khan	PL Dhingra
21-04-21	Wednesday	10 to 10:45	Diseases of External ear-2	Dr. Ghulam Dastgir Khan	PL Dhingra
26-04-21	Monday	10 to 10:45	Acute otitis media	Dr. Ghulam Dastgir Khan	PL Dhingra
28-04-21	Wednesday	10 to 10:45	Otitis media with effusion	Dr. Ghulam Dastgir Khan	PL Dhingra
03-05-21	Monday	10 to 10:45	Chronic suppurative otitis media	Dr. Ghulam Dastgir Khan	PL Dhingra
05-05-21	Wednesday	10 to 10:45	Cholesteatoma , Aero-otitis media	Dr. Ghulam Dastgir Khan	PL Dhingra
10-05-21	Monday	10 to 10:45	Complications of otitis media-1	Dr. Ghulam Dastgir Khan	PL Dhingra
12-05-21	Wednesday	10 to 10:45	Complications of otitis media-2	Dr. Ghulam Dastgir Khan	PL Dhingra
17-05-21	Monday	10 to 10:45	Hearing loss /deafness and its Types	Dr. Ghulam Dastgir Khan	PL Dhingra
19-05-21	Wednesday	10 to 10:45	Assessment of hearing	Dr. Ghulam Dastgir Khan	PL Dhingra
24-05-21	Monday	10 to 10:45	Types of H loss/Treatment of hearing loss,	Dr. Ghulam Dastgir Khan	PL Dhingra
26-05-21	Wednesday	10 to 10:45	Rehabilitation of hearing impaired/hearing aids & cochlear implant	Dr. Ghulam Dastgir Khan	PL Dhingra
31-05-21	Monday	10 to 10:45	Vertigo; Nystagmus, path physiology. Central & peripheral dizziness difference.	Dr. Ghulam Dastgir Khan	PL Dhingra
02-06-21	Wednesday	10 to 10:45	Meniere's disease	Dr. Ghulam Dastgir Khan	PL Dhingra
07-06-21	Monday	10 to 10:45	Otosclerosis	Dr. Ghulam Dastgir Khan	PL Dhingra
09-06-21	Wednesday	10 to 10:45	Trauma ear; Fracture temporal bone	Dr. Ghulam Dastgir Khan	PL Dhingra
14-06-21	Monday	10 to 10:45	Disorders of Facial nerve	Dr. Ghulam Dastgir Khan	PL Dhingra
<b>16-06-21</b>			<b>Class Test Ear</b>		



<b>Nose and PNS</b>					
21-06-21	Monday	10 to 10:45	<i>Aanatomy of Nose</i>	Dr. Ghulam Dastgir Khan	PL Dhingra
23-06-21	Wednesday	10 to 10:45	<i>Anatomy of PNS, Physiology of Nose &amp; PNS</i>	Dr. Ghulam Dastgir Khan	PL Dhingra
28-06-21	Monday	10 to 10:45	<i>Diseases of external nose &amp; nasal vestibule</i>	Dr. Ghulam Dastgir Khan	PL Dhingra
30-06-21	Wednesday	10 to 10:45	<i>Epistaxis</i>	Dr. Ghulam Dastgir Khan	PL Dhingra
05-07-21	Monday	10 to 10:45	<i>Allergic rhinitis</i>	Dr. Ghulam Dastgir Khan	PL Dhingra
07-07-21	Wednesday	10 to 10:45	<i>Septal diseases; Deviated nasal septum</i>	Dr. Ghulam Dastgir Khan	PL Dhingra
12-07-21	Monday	10 to 10:45	<i>Nasal polyps</i>	Dr. Ghulam Dastgir Khan	PL Dhingra
14-07-21	Wednesday	10 to 10:45	<i>FACIAL TRAUMA : Fracture facial and nasal bones</i>	Dr. Ghulam Dastgir Khan	PL Dhingra
<b>19-07-21 to 01-08-21</b>			<b>Summer Vacations</b>		
02-08-21	Monday	10 to 10:45	<i>Acute rhino sinusitis/ Chronic rhino sinusitis/ Complications of sinusitis</i>	Dr. Ghulam Dastgir Khan	PL Dhingra
04-08-21	Wednesday	10 to 10:45	<i>Tumors of Nasal Cavity &amp; Nasopharynx</i>	Dr. Ghulam Dastgir Khan	PL Dhingra
09-08-21	Monday	10 to 10:45	<i>Trauma Of Nose &amp; Face</i>	Dr. Ghulam Dastgir Khan	PL Dhingra
11-08-21	Wednesday	10 to 10:45	<i>CSF rhinorrhea</i>	Dr. Ghulam Dastgir Khan	PL Dhingra
16-08-21	Monday	10 to 10:45	<i>Ch. Granulomatous diseases</i>	Dr. Ghulam Dastgir Khan	PL Dhingra
18-08-21	Wednesday	10 to 10:45	<i>Proptosis, FESS</i>	Dr. Ghulam Dastgir Khan	PL Dhingra
<b>23-08-21</b>			<b>Class Test Nose</b>		
<b>Throat</b>					
25-08-21	Wednesday	10 to 10:45	Physiology of Swallowing/Dysphagia	Dr. Ghulam Dastgir Khan	PL Dhingra
30-08-21	Monday	10 to 10:45	Head & neck space infections	Dr. Ghulam Dastgir Khan	PL Dhingra
01-09-21	Wednesday	10 to 10:45	<i>Smell and taste disorders</i>	Dr. Ghulam Dastgir Khan	PL Dhingra
06-09-21	Monday	10 to 10:45	Physiology of Swallowing/Dysphagia	Dr. Ghulam Dastgir Khan	PL Dhingra
08-09-21	Wednesday	10 to 10:45	Head & neck space infections	Dr. Ghulam Dastgir Khan	PL Dhingra
13-09-21	Monday	10 to 10:45	Tumors of oropharynx Tumors of Hypopharynx/ Pharyngeal pouch	Dr. Ghulam Dastgir Khan	PL Dhingra
15-09-21	Wednesday	10 to 10:45	Acute and chronic pharyngitis Acute and chronic tonsillitis-Tonsillectomy	Dr. Ghulam Dastgir Khan	PL Dhingra
20-09-21	Monday	10 to 10:45	Adenoids & Inflammations of Nasopharynx-Adenoidectomy	Dr. Ghulam Dastgir Khan	PL Dhingra
22-09-21	Wednesday	10 to 10:45	Nasopharyngeal tumors-Angiofibroma	Dr. Ghulam Dastgir Khan	PL Dhingra
27-09-21	Monday	10 to	Salivary gland disorders	Dr. Ghulam	PL



		10:45		Dastgir Khan	Dhingra
29-09-21	Wednesday	10 to 10:45	Snoring and sleep apnea	Dr. Ghulam Dastgir Khan	PL Dhingra
04-10-21	Monday	10 to 10:45	SEQ Paper discussion	Dr. Ghulam Dastgir Khan	PL Dhingra
06-10-21	Wednesday	10 to 10:45	Anatomy & physiology of larynx Acute and chronic laryngitis	Dr. Ghulam Dastgir Khan	PL Dhingra
11-10-21	Monday	10 to 10:45	CONGENITAL DISEASES OF LARYNX/Stridor	Dr. Ghulam Dastgir Khan	PL Dhingra
13-10-21	Wednesday	10 to 10:45	Vocal cord paralysis	Dr. Ghulam Dastgir Khan	PL Dhingra
18-10-21	Monday	10 to 10:45	Benign Tumors of larynx CA Larynx	Dr. Ghulam Dastgir Khan	PL Dhingra
20-10-21	Wednesday	10 to 10:45	Voice and speech disorders Laryngotracheal trauma	Dr. Ghulam Dastgir Khan	PL Dhingra
27-10-21	Wednesday	10 to 10:45	Management upper airway obstruction/ Tracheostomy	Dr. Ghulam Dastgir Khan	PL Dhingra
01-11-21	Monday	10 to 10:45	Anatomy and physiology of Oesophagus/Disorders of Esophagus	Dr. Ghulam Dastgir Khan	PL Dhingra
03-11-21	Wednesday	10 to 10:45	Foreign bodies of Food/Air passage	Dr. Ghulam Dastgir Khan	PL Dhingra
08-11-21	Monday	10 to 10:45	Anatomy of Neck/Neck masses	Dr. Ghulam Dastgir Khan	PL Dhingra
10-11-21	Wednesday	10 to 10:45	MCQs/SEQs	Dr. Ghulam Dastgir Khan	PL Dhingra
15-11-21	Monday	10 to 10:45	Anatomy of pharynx	Dr. Ghulam Dastgir Khan	PL Dhingra
17-11-21	Wednesday	10 to 10:45	Revision ENT Lectures/ Course	Dr. Ghulam Dastgir Khan	PL Dhingra
22-11-21	Monday	10 to 10:45	Otalgia/Tinnitus	Dr. Ghulam Dastgir Khan	PL Dhingra
24-11-21	Wednesday	10 to 10:45	Tumors of ear	Dr. Ghulam Dastgir Khan	PL Dhingra
<b>29-11-21</b>	<b>Class Test Throat</b>				

**Dr. Ghulam Dastgir Khan**  
**Head of ENT Department**  
**Sharif Medical & Dental, Lahore**



**ASSESSMENT PLANS**  
**DEPARTMENT OF OTORHINOLARYNGOLOGY**  
**SHARIF MEDICAL & DENTAL COLLEGE**

Following modes of assessment are planned for 4<sup>th</sup> year MBBS class in the subject of Otorhinolaryngology. This plan has been designed keeping in view the university curriculum and hopefully will facilitate the students in preparing for 4<sup>th</sup> professional examination in the subject.

**Class Tests:**

These are conducted at the completion of every chapter. The test will comprise of MCQs and SEQs on the pattern of university examination. A preparatory time of at least 10 days shall be given prior to these tests. Each class will be followed by post-test discussion both in lecture and ward classes.

**Ward Tests:**

Topics of will be notified minimum one week before the ward test. Ward test will be conducted on the pattern of university examination (OSPE) and will comprise of 12 stations. There will be 7 un-observed stations which will cover the topics of ENT drugs, surgical instrument and clinical scenarios of ENT diseases. There will be 3 observed stations in which students will perform clinical methods and 2 interactive stations.

**Final Assessment:**

This will be undertaken in coordination with other departments, exactly following the format of university professional examinations. It will comprise of MCQs and SEQs.

**Continuous Internal Assessment:**

Internal assessment will be calculated out of 20 on the basis of these tests that will be conducted throughout the year.



## STAFF CONTACTS

Sr.No	Name	Email Address
01	Dr. Ghulam Dastgir Khan	dastgirentconsultant@yahoo.com
02	Dr. Atif Munir	
03	Dr. Abdul Rashid Baig	Dr.rashid.baig@gmail.com





## **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.**