

STUDY GUIDE ENT CMH Lahore Medical & College of Dentistry 2022-2023

Study Guide 4th year MBBS ENT and Head and Neck Surgery

Department Information: -

The department of ENT and Head & Neck Surgery has following Faculty members

1. Lt Col (R) Ayub Ahmad Khan

Professor of ENT

2. Brig Attique Ahmed

Professor of ENT

3. Col Muhammad Atif Imran Zaheer

Assistant Professor

4. Lt Col Faiz Ul Hassan Nawaz

Assistant Professor

5. Lt Col Atif Rafique

Assistant Professor

6. Maj Nasir Akram Kundi

Assistant Professor

7. Dr Anam Asif

Senior Registrar

8. Maj Imran

PGR

9. Dr Wajiha

PGR

10. Dr Affaf

PGR

11. Dr Zeinab

PGR

Prof Lt Col (r) Ayub Ahamd Khan is considered to be the part of Civilian Faculty while other faculty members are considered army faculty. Civil faculty have their offices in the College building and share the same clinics for patient consultation in Combined Military Hospital Lahore. Civil and Military faculty both are equally involved in teaching the students. Faculty not only teach fourth years MBBS but also take care of learning needs of first, second and third year MBBS and BDS Classes. Combined Military Hospital is a multidisciplinary organization and our undergraduate and postgraduate students work in harmony with Maxillofacial, Neurosurgical, Ophthalmic and Plastic Surgery Departments. Our Postgraduate trainees do their clinical rotations with these departments.

Our Mission:

Our mission is to equip the average student with the minimum essential knowledge, skill and attitude to make him able to:-

- Identify common ENT diseases, emergencies, providing primary health care, referral to an appropriate center and conducting follow-ups.
- Perform minor procedures safely, and enabling the student to communicate effectively with the patient and his/her family about the disease and other relevant issues.
- Understanding ethics, being empathetic to the patient's plight and maintaining patient confidentiality.

Our strategy to achieve the aforementioned goals will be:

- I. Interactive lectures
- II. Small group discussion
- III. Problem based learning
- IV. Clinical rotations and ward visits
- V. Tutorials
- VI. CPCs and Seminars
- VII. PBL- group taken
- VIII. SDL-online tutorial and lecture
- IX. Research projects

Outcome:

By the end of the rotation in the Department of ENT and Head and Neck Surgery, the student should be able to:

- I. Obtain an appropriate History including history of present illness, past, personal, Socioeconomic and family history.
- II. Perform routine examination
 - a. General Physical Examination
 - b. Examination of Neck
 - c. Examination of Swelling
 - d. Examination of Oral Cavity and throat.
 - e. Examination of Nose
 - f. Examination of Ear
- III. Identify common ENT problems and perform tests
 - a. Ear
- i. Pre-auricular region swelling
- ii. Swelling of Pinna
- iii. Seroma of Pinna
- iv. Abscess of Pinna
- v. Otitis Externa including localized and generalized
- vi. Tympanic membrane perforation
- vii. Tympanic membrane granulation
- viii. Ossicles including Handle of Malleus and long process of incus
- ix. Tuning fork tests
- x. Tests of Vestibular Function
- xi. Tests of cerebellar function
- xii. Interpret audiogram and tympanogram
- b. Nose
 - i. Vestibule of nose
 - ii. Nasal septum
 - iii. Lateral wall of Nose
 - iv. Inferior turbinate
 - v. Middle turbinate
 - vi. Deviated nasal septum
 - vii. Check patency of nose
 - viii. Nasal Polyps
 - ix. Identify unilateral and bilateral nasal obstruction
 - x. Interpret X Ray PNS
 - xi. Interpret X Ray Neck for adenoids

- c. Throat and Oral Cavity
 - i. Teeth
 - ii. Vestibule of Oral Cavity
 - iii. Floor of oral cavity
 - iv. Openings of submandibular and parotid ducts
 - v. Anterior and posterior faucial pillars
 - vi. Tonsils
 - vii. Posterior pharyngeal wall
 - viii. Hard palate, soft palate and uvula
 - ix. Tongue and its lateral boarders
- d. Neck
 - i. Colour
 - ii. Thyroid gland
 - iii. Parotid and submandibular gland
 - iv. Neck nodes
 - v. Examination of swelling
 - vi. Laryngeal cartilages
- IV. Outline appropriate management plans
 - a. Interpret investigations
 - i. Blood CBC
 - i. Hepatitis Profile
 - ii. Coagulation profile
 - iii. Tympanogram
 - iv. Audiogram
 - v. X Ray Neck, PNS and Chest
 - b. Co-relate history, examination findings and investigations and do clinical reasoning and establish diagnosis considering all differential diagnosis.
 - c. Plan treatment in the light of established diagnosis.

Curriculum 4th Year ENT

	Ear								
Theme/ Topic	Learning out comes at the end of this block, student will	Course content	% Weighta ge	Instr Strategies	Assessment ntool				
	be able to:								
Basic of hearing and balance	 Revisit the applied anatomy and physiology of hearing and balance as well as Eustachian tube andits role in hearing Recall the pathophys iology of vertigo 	 Anatomy and physiology of hearing and balance Effects of Eustachian tube malfunction Pathophys iology of vertigo 	05%	Problem based teaching /practical sessions/tuto rials Clinical rotations, ward visits, lectures CPC's and seminars	MCQ/SAQ/ SEQ/ OSCE/ StructuredViva				
Discharg e & Deafness	Suggest a management plan for a patient with ear discharge after interpreting relevant investigations if needed	Discharge Ear DD of Discharging EarOverview and Classification of Otitis Media Diseases* Acute Supparati veOtitis Media Chronic Supparative Otitis Media CSF Ottorrhoea	40%	Problem based teaching /practical sessions/tuto rials Clinical rotations, ward visits, lectures CPC's and seminars	MCQ/SAQ/ SEQ/ OSCE/ StructuredViva				

	Bleeding from Ear [Trauma Base of Skull			03)
 Differenti ate between various types of deafness on the basis of history and examinat ion Interpre t appropriate investig ations toreach the final diagnos is Suggest appropriate plan for treatment and rehabilitati on 	Deafness Overview of Deafness Causes [Unilateral/Bil ateral/Su dden/Childre n] DD Social/Me dico legal aspects Diseases Causing Conductive deafness Wax FB Fluid in Middle Ear [Sec OM] Trau ma to ear [Trau matic	16	Problem based teaching /practical sessions/tuto rials Clinical rotations, ward visits, lectures CPC's and seminars	MCQ/SAQ/ SEQ/ OSCE/ StructuredViva

	a Dotall madica local	Perforation of TM			
	Retell medico legal and social aspects of deafness	Perforation of TM Haemotympanum/Os sicular disruption Otosclerosis Diseases Causing Senso Neural Deafness Presbyacusis Drug Induced Deafness Noise Induced Deafness and Acoustic Trauma Psychogenic Deafness Deaf-Mutism in Children Rehabilitation of the Deaf Hearing Aid Cochlear implant		03	
Otalgia	 Differentiate between referred otalgia and that arising from local conditions of ear Suggest appropriate treatment after the interpretation of relevant investigations if needed 	Causes and Differential Diagnosis of Otalgia *Eiology/ Pathogenesis, Signs Symptoms, Investigations, treatment Complications Follow-up • Boil • Otitis Externa • Ac Otitis media • Herpes Simplex • Perichondritis • Traumatic conditions of external and middle ears • Referred otalgia • Barotrauma • Complications of CSOM • Ca- Middle Ear??	20%	Problem based teaching /practical sessions/tuto rials Clinical rotations, ward visits, lectures CPC's and seminars	MCQ/SAQ/ SEQ/ OSCE/ Structured Viva
Vertigo & Tinnitus	1. Differentiate between various types of vertigo in relation to its pathophysiology 2. Suggest appropriate treatment including rehabilitation after the interpretation of investigations if needed	Overview of Vertigo Differentiation between True rotator vertigo, Dizziness and Unsteadiness Causes of vertigo Diseases Causing Vertigo (BPPV, Vestibular Neuronitis, Meniere, S Disease)	25%	Problem based teaching /practical sessions/tuto rials Clinical rotations, ward visits, lectures CPC's and seminars	MCQ/SAQ/ SEQ/ OSCE/ Structured Viva
	Diagnose a case presenting with	Overview of Tinnitus		Problem based	MCQ/SAQ/ SEQ/

	Total		100	CPC's and seminars	
	Recognize the salient features of common tumors of Ear	bone Presentation, features and diagnosis of Basal cell carcinoma of pinna, Squamous cell carcinoma of external and middle ear, Glomus tumor and Acoustic neuroma		Problem based teaching /practical sessions/tuto rials Clinical rotations, ward visits, lectures	MCQ/SAQ/ SEQ/ OSCE/ Structured Viva
Facial disfigurement	Identify the lesions of facial nerve relating to its etiology	 Anatomy of Facial Nerve Electrophysiological Test for Facial Nerve Differentiation between upper and lower motor Neuron lesion Causes and work-up in a case of Facial Paralysis Treatment/ Complications and Follow-up facial nerve palsy (secondary to ear surgery, trauma, bell's palsy and Attic disease), Unsafe chronic otitis media, Fracture Temporal 	10%	seminars Problem based teaching /practical sessions/tuto rials Clinical rotations, ward visits, lectures CPC's and seminars	MCQ/SAQ/ SEQ/ OSCE/ Structured Viva
	tinnitus on the basis of signs, symptoms and appropriate investigations 4. Suggest thorough management plan	 Causes of Tinnitus How to investigate and manage a case of Tinnitus Acoustic Neuroma 		teaching /practical sessions/tuto rials Clinical rotations, ward visits, lectures CPC's and	OSCE/ Structured Viva

End Block/rotation Assessment to be taken by concerned institute itself

Assessment tools: MCQs & SAQs/SEQs/ OSCE

ENT – NOSE & PARANASAL SINUSES							
Theme/Topic	Learning outcome At the end of this block, student will be able to:	Course Content	% Weightage	Instr Strategies	Assessment tool		
Basic of Nose and Para nasal Sinuses	Revisit the applied anatomy and physiology of nose and Paranasal sinuses	Anatomy of Nose & Para-Nasal Sinuses Basic concepts in clinical anatomy of nose & Para-nasal sinuses Anatomical routes of extensions of disease of nose and PNS into oral cavity, nose, orbit and skull base. Physiology of Nose & Para-Nasal Sinuses Basic concepts in clinical physiology of nose & Para-nasal sinuses Patho-physiology and extensions of diseases of nose and PNS into oral cavity, nose orbit and skull base	10%	Problem based teaching /practical sessions/tuto rials Clinical rotations, ward visits, lectures CPC's and seminars	MCQ/SAQ/ SEQ/ OSCE/ Structured Viva		
Nasal obstructions	 Enlist different causes of unilateral and bilateral obstruction Suggest appropriate plan of investigations and management 	Overview of Nasal Obstruction [unilateral/Bilateral/Adul ts/Children/Neonate] Diseases causing Obstruction • DNS • Nasal Polypi [in Children, adults, Elderly] • FB Nose • Septal Haematoma/Abscess • ADENOIDS • Obstructive Sleep Apnoea	40%	Problem based teaching /practical sessions/tuto rials Clinical rotations, ward visits, lectures CPC's and seminars	MCQ/SAQ/ SEQ/OSCE/ Structured Viva		

		 Congenital abnormalities as Choanal Atresia/ Menigocele /Encephalocele Tumors of Nose [Classification + special Emphasis on Angofibroma, Ca-Maxilla and Ca-Nasopharynx_] 			
Discharge and Epistaxis	 Differentiate between various types of Rhinitis on the basis of signs and symptoms Interpret necessary investigations Suggest symptomatic and curative treatment 	Overview of Rhinitis Rhinitis* Allergic rhinitis Vasomotor Rhinitis Infective rhinitis [Viral, Bacterial] Rhinitis Medica Mentosa Atrophic Rhinitis Wegners Granuloma and list of other Granulomatous diseases Etiology of Nasal Allergy Symptoms and signs of Allergic Rhinitis. Examination of patients of Allergic Rhinitis. Investigation of Allergic Rhinitis Symptomatic and curative treatment options	30%	Problem based teaching /practical sessions/tuto rials Clinical rotations, ward visits, lectures CPC's and seminars	MCQ/SAQ/ SEQ/OSCE/ Structured Viva
	 Suggest thorough management plan in case of Epistaxis Suggests measures to 	Blood Supply of NoseEpistaxisAngiofibroma		Problem based teaching /practical sessions/tuto rials	MCQ/SAQ/SE Q/OSCE/ Structured Viva

control refractory epistaxis Clinical rotations, ward visits, lectures CPC's and seminars		T	1	1	Γ	
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End Block/rotation Assessment to be taken by concerned institute itself Assessment tools: MCQs & SAQs/SEQs/ OSCE

	ENT - THROAT & LARYNX								
Theme/Topic	Learning Outcomes At the end of this block, student will be able to	Course Contents	% Weightage	Instr Strategies	Assessment tool				
Sore throat and pain	 Manage acute and chronic tonsillitis Identify need of tonsillectomy in a case of chronic tonsillitis 	Acute & Chronic Tonsillitis • symptoms and signs of Acute and Chronic Tonsillitis • important investigations • medical and surgical treatment options • Indications and technique of tonsillectomy	40%	Problem based teaching /practical sessions/tutorials Clinical rotations, ward visits, lectures CPC's and seminars	MCQ/SAQ/ SEQ/OSCE/ Structured Viva				
	Revisit the applied anatomy and physiology of pharynx	Acute & Chronic Pharyngitis Basic anatomy and physiology of pharynx and oesophagus and its clinical importance symptoms, signs, investigations and management of sore throat and recurrent throat infections		Problem based teaching /practical sessions/tutorials Clinical rotations, ward visits, lectures CPC's and seminars	MCQ/SAQ/ SEQ/OSCE/ Structured Viva				

	Manage acute	Common disorders of		Problem based	MCQ/SAQ/
	and chronic	oral cavity.		teaching	
	Pharyngitis	Basic understanding of		/practical	
	 Manage the 	the common disorders of		sessions/tutorials	
	common	oral cavity		Clinical	
	disorders of oral			rotations, ward	
	cavity			visits, lectures	
	 Suspect a tumor 			CPC's and	
	of oropharynx on			seminars	
	the basis of signs	Tumors of Oro-pharynx		Problem based	SEQ/OSCE/
	and symptoms	Common sites of		teaching	Structured Viva
		tumor of oro-pharynx		/practical	
		Symptoms, signs,		sessions/tutorials	
		investigations and		Clinical	
		management of these	00	rotations, ward	
		tumors		visits, lectures	
		2		CPC's and	
				seminars	
Dysphagia	Differentiate	Dysphagia & Disorders	30%	Problem based	MCQ/SAQ/
and	between	of Oesophagus –		teaching	SEQ/OSCE/
Odynophagia	various types of	 Normal swallowing 		/practical	Structured
	dysphagia	mechanism		sessions/tutorials	Viva
	basing on its	Types of dysphagia		Clinical	
	etiology and	Causes and patho-		rotations, ward	
	patho	physiology of each		visits, lectures	
	physiology	cause		CPC's and	
		Abscesses around		seminars	
		Pharynx (Retro-			
		Pharyngeal Abscess &			
	 Suspect 	Peri-Tonsiller Abscess			
	abscesses	Symptoms of Acute			
	around the	Retero-pharyngeal			
	pharynx on the	abscess, and possible			

Hoarseness and stridor	basis of symptoms and signs Suggest treatment for these abscesses Recognize mass arising from lateral margin of tongue Suggest different treatment modalities on the basis of biopsy Differentiate between different causes of hoarseness and stridor on the basis of signs and symptoms	complications if this condition is not recognized in time • Emergency investigations and management of this condition Oropharyngeal tumors Carcinoma Tongue & Oral Cavity CBL – symptoms, signs and examination of CA. Tongue emergency investigations and management of this condition Congenital Lesions of Larynx & Stridor – Basic differences between anatomy and physiology of larynx of a child as compared to the adult Pathophysiology of	20%	Problem based teaching /practical sessions/tutorials Clinical rotations, ward visits, lectures CPC's and	MCQ/SAQ/ SEQ/OSCE/ Structured Viva
	symptomsOutline relevant investigations	congenital lesions of		CPC's and seminars	
	 Suggest treatment modalities for hoarseness and stridor 	Acute & Chronic Laryngitis CBL: • Symptoms, signs and examination of Acute Laryngitis • Emergency		Problem based teaching /practical sessions/tutorials Clinical rotations, ward	MCQ/SAQ/ SEQ/OSCE/ Structured Viva
		investigations and		visits, lectures	

		management of this condition Laryngeal Paralysis, Voice & Speech Disorders – • Patho-physiology of Laryngeal paralysis • Patho-physiology of Voice and speech	F te // s C r v	Problem based eaching practical sessions/tutorials Clinical totations, ward visits, lectures	MCQ/SAQ/ SEQ/OSCE/ Structured Viva
		disorders		CPC's and seminars	
		Carcinoma of Larynx –		Problem based	MCQ/SAQ/
		symptoms, signs and	te	eaching	SEQ/OSCE/
		examination of a	/;	practical	Structured Viva
		patient suspected to	s	sessions/tutorials	VIVU
		have CA. Larynx	C	Clinical	
		• emergency	r	otations, ward	
		investigations and	v	isits, lectures	
		different management	C	CPC's and	
		plan of this condition	s	seminars	
Neck masses	Differentiate	Distribution and	F	Problem based	MCQ/SAQ/
	between	drainage area of	te	eaching	SEQ/OSCE/
	different types	Neck Lymph Nodes	/¡	practical	Structured
	of neck masses	DD of Lateral Neck	s	sessions/tutorials	Viva
	on the basis of	Masses	C	Clinical	
	signs and	DD of Lymph Node	r	otations, ward	
	symptoms	enlargement in Neck	v	isits, lectures	
	Advise relevant	Work-up for a	c	CPC's and	
	Investigations	suspected Metastatic	s	seminars	
	and	Lymph Node			
	management plan	Thyroid gland-			

Advances in	Reproduce the	Laser Surgery,	10%	Problem based	MCQ/SAQ/
ENT/Neck	basic concept	Cryosurgery, HIV		teaching	SEQ/OSCE/
surgeries	about recent trends	Infection/ AIDS & ENT		/practical	Structured
	in different ENT	Managements –		sessions/tutorials	Viva
	treatment	Physics and		Clinical	
	modalities	physiology of LASER		rotations, ward	
		surgery and		visits, lectures	
		Cryosurgery		CPC's and	
		Basics of HIV and		seminars	
		AIDS infection		100	
		Radiotherapy /			
		Chemotherapy for Head			
		& Neck Cancers –			
		Basics of Radiotherapy			
		and Chemotherapy in			
		head and neck cancers			
	Total		100		

End Block/rotation Assessment to be taken by concerned institute itself

Assessment tools: MCQs & SAQs/SEQs/ OSCE

SCHEDULE OF CLINICAL TRAINING

S. No	LEARNING OUTCOMES	ACTIVITY
	At the end of 09 weeks training, the student will be able to:	
	<u>Ear</u>	3
1	 Special Skills Take history of a patient with Ear pathology Demonstrate the use of Otoscope to aid in examination of the external auditory canal and the tympanic membrane and learn (Use of Seigle's speculum). Demonstrate the use of tuning forks and interpret the findings. Demonstrate Syringing of ear. Reproduce steps of recording tympanogram and hearing levels on audiogram Interpret audiogram and tympanogram Identify all common Ear instruments used in OPD 	
2	 Perform OT scrub for surgery according to the protocol Reproduce the procedure of the operations, mentioned in column III, including their indications and post-operative care Identify all common Ear instruments used in OT 	 OT ➤ How to enter the operation theatre. ➤ How to behave in OT ➤ Steps of washing and preparation for operation ➤ Students should observe the following operations Myringotomy I/D of hematoma ear Removal of Foreign body ear Removal of wax

- Myringoplasty and Mastoidectomy
- Abscess incision drainage/Hematoma ear

Instruments

Students must be shown ear instruments used in above mentioned surgeries

Nose

3 Special Skills

- Take history of a patient with nasal pathology
- Perform basic examination of nose and paranasal sinuses in a stepwise fashion
- Diagnose a case of Nasal Polypi on the basis of glistening appearance of nasal polypi in anterior rhinoscopy
- Interpret a simple X-Ray / CT Scan for Sinus, Paranasal Sinus, Nasopharynx and other simple ENT pathologies
- Identify all common Nasal instruments used in OPD

OPD / Ward

- Examinatin of nose and para nasal sinuses. The steps and logic behind it
- Video clip of examination of nose and para nasal sinuses.
- Demonstration of nose and para nasal sinuses
- Practical session of examination of nose and para nasal sinuses in patients
- Nasal Polypi demonstration on patient
- Simple X-Ray / CT Scan for Sinus, Paranasal Sinus, Nasopharynx and other simple ENT pathologies

- A Reproduce the procedure of the operations, mentioned in column III, including their indications and post-operative care
 - Identify all common Nasal instruments used in OT

<u>OT</u>

- Students should observe the following operations
- > Tonsillectomy
- Adenoidectomy
- Septoplasty
- How to carry out anterior nasal packing
- Sinus lavage, electrocautery
- SMR, procedure, indications and post-operative care
- Observation of SMR procedure
- FESS, indications, procedure and post-operative care
- Observation of FESS procedure
- Epistaxis and its management

Instruments

Students must be shown instruments used in above mentioned surgeries

Throat & Larynx

3 Special Skills

- Take history of a patient with throat and laryngeal pathology
- Perform examination of throat
- Perform basic examination of larynx in a clinical setting
- Identify all common instruments used in OPD

OPD / Ward

- Clinical examination of throat, the steps and logic behind it
- Video clip of throat examination.
- Demonstration of examination of throat
- Practical session of examination of throat on patients
- Laryngeal Disorders Ward demonstration

- A Reproduce the procedure of the operations, mentioned in column III, including their indications and post-operative care
 - Perform tracheostomy in emergency situations
 - Identify all common instruments used in OT

<u>OT</u>

- Students should observe the following operations
 - Tracheostomy, procedure, indications and post-operative care

Instruments

Students must be shown instruments used in above mentioned surgeries

WARD TEST

SCHEDULE OF CLINICAL TRAINING

S. No.	LEARNING OUTCOMES	ACTIVITY
	eeks training the student should be able to:	1
EAR		
1.	 SPECIAL SKILLS Take history of a patient with Ear pathology Demonstrate the use of Otoscope to aid in examination of the external auditory canal and the tympanic membrane and learn (Use of Seigle's speculum). Demonstrate the use of tuning forks and interpret the findings. Demonstrate Syringing of ear. Reproduce steps of recording tympanogram and hearing levels on audiogram. Interpret audiogram and tympanogram Identify all common Ear instruments used in OPD 	OPD / Ward 1. Video clip of examination of ear. 2. Demonstration of clinical examination of ear. 3. Practical session of examination of ear 4. Examination of ear on patients 5. Assessment of Hearing 6. Audiogram / Tympanogram, practical demonstration & discussion Instruments Students must be able to identify ear instruments used in ENT OPD
2.	 Perform OT scrub for surgery according to the protocol Reproduce the procedure of the operations, mentioned in column III, including their indications and post-operative care Identify all common Ear instruments used in OT 	ot 1. How to enter the operation theatre. 2. How to behave in OT 3. Steps of washing and preparation for operation 4. Students should observe the following operations 5. Myringotomy 6. I/D of hematoma ear 7. Removal of Foreign body ear 8. Removal of wax 9. Myringoplasty and Mastoidectomy 10. Abscess incision drainage/Hematoma ear Instruments □ Students must be shown ear instruments used in above mentioned surgeries
NOSE		-
1.	 Special Skills Take history of a patient with nasal pathology Perform basic examination of nose and paranasal sinuses in a stepwise fashion Diagnose a case of Nasal Polypi on the basis of glistening appearance of nasal polypi in anterior rhinoscopy 	 OPD / Ward Examination of nose and para nasal sinuses. The steps and logic behind it Video clip of examination of nose and para nasal sinuses. Demonstration of nose and para

	4. Interpret a simple X-Ray / CT Scan for Sinus,	nasal sinuses
	Paranasal Sinus, Nasopharynx and other simple ENT pathologies 5. Identify all common Nasal instruments used in OPD	 Practical session of examination of nose and para nasal sinuses in patients Nasal Polypi – demonstration on patient Simple X-Ray / CT Scan for Sinus, Paranasal Sinus, Nasopharynx and other simple ENT pathologies
2.	 Reproduce the procedure of the operations, mentioned in column III, including their indications and post-operative care Identify all common Nasal instruments used in OT 	OT Students should observe the following operations 1. Septoplasty 2. Anterior nasal packing 3. Sinus lavage 4. Electrocautery 5. SMR, procedure, indications and post-operative care 6. FESS procedure and post-operative care 7. Observation of FESS procedure 8. Epistaxis and its management Instruments Students must be shown instruments used in above mentioned surgeries
Throat & Larynx		ODD /W
1.	 Special Skills Take history of a patient with throat and laryngeal pathology Perform examination of throat Perform basic examination of larynx in a clinical setting Identify all common instruments used in OPD 	OPD / Ward 1. Clinical examination of throat, the steps and logic behind it 2. Video clip of throat examination. 3. Demonstration of examination of throat 4. Practical session of examination of throat on patients 5. Laryngeal Disorders – Ward demonstration
	 Special Skills Take history of a patient with throat and laryngeal pathology Perform examination of throat Perform basic examination of larynx in a clinical setting 	 Clinical examination of throat, the steps and logic behind it Video clip of throat examination. Demonstration of examination of throat Practical session of examination of throat on patients Laryngeal Disorders – Ward

Table of Specification

ENT

Fourth Professional MBBS Examination 2023

Pass Marks = 50

Paper-1: (*Marks of MCQ component shall be rationalized to 40% weightage)

60 x MCQs (1 mark each) (60 Marks) Time =60 min

Paper-2:

(40 Marks)

Time = 120 min

*If a candidate obtains 50 marks is MCQs it will be rationalized as: (50/60*40=33.33)

	Number	of MCQs (60)	Number of SEQs (8)		
TOPIC	Recall:20	Application:40	(5 Marks Each)		
EAR	10	0.			
Basics of hearing and balance	01	03	-		
Deafness & Discharge	02	03	01		
Otalgia	02	04	01		
Vertigo & Tinnitus	01	03	01		
Facial disfigurement	01	03	-		
Nose					
Basics of Nose and Para nasal Sinuses	02	01	-		
Nasal obstructions	01	03	01		
Discharge and Epistaxis	02	02	-		
Headache and facial pains	01	03	01		
Throat & Larynx		-1			
Sore throat and pain	01	04	01		
Hoarseness and stridor	02	03	01		
Dysphagia and Odynophagia	01	03	-		
Neck masses	02	03	01		
Advances in ENT/Neck surgeries	01	02	-		
Total	60 (6	0 Marks)	8 (40 Marks)		

Practical Table

of Specification

ENT

Max Marks = 80

Internal Assessment = 20

Grand Total = 100

Pass Marks = 50

							OSCE	ENT					
	osc	E- (O	bser	ved)			No	Total Marks					
1	2	3	4	5	6	7	8	9	10	11	12	13	
History taking	Examination of Ear	Examination of Nose	Examination of Throat	Counselling	Picture identification, Differential diagnosis, Management	Picture identification, Differential diagnosis, Management	X Ray identification of findings, Differential diagnosis, Management	Instrument identification, uses and complication	Implant/Drug and its uses	Investigation including PTA and Tympanogram	Scenario Having Diagnosis, DD and Management	Materials including NG Tube,/ tracheostomy tube/ Sutures	
80	08	08	08	80	05	05	05	05	05	05	05	05	80 Marks

5 minutes for each station

For 25 students = 125 Minutes = 2hrs 5 minutes

*Number of rest stations depends upon the number of students

FORTH PROFESSIONAL MBBS EXAMINATION 2023

Marks of theory paper =80

Time Allowed =03hrs

Internal assessment (20%) =20

Total Marks (MCQs:40%+SEQs:40%+IA:20%) =100

Pass Marks =50

Paper-1: (*Marks of MCQ component shall be rationalized to 40%weightage)

60xMCQs (1mark each) (60 Marks) Time=60min

Paper-2: (40 Marks) Time=120min

*If a candidate obtains 50 marks is MCQ sit will be rationalized as:(50/60*40=33.33)

TOPIC	Number (60)	Number of MCQs (60)							
	Recall:20	Application:40							
EyeLid & adnexa	01	04							
Conjunctiva	02	02	01						
Episclera & sclera	01	02							
Orbit	02	04							
Uveitis	01	02	- 01						
Corneal Diseases	02	03							
Lens	02	05	- 01						
Refractive errors & Refractive Surgery	01	03							
Glaucoma and ocular therapeutics	02	05	01						
Ocular trauma and emergencies	01	02	01						
Retinal vascular diseases	01	02							
Retinal Detachment	01	02	01						
Common Fundus Pathologies	01	01	01						
Strabismus & Neuro Ophthalmology	02	03	01						
Total	60(60	8(40 Marks)							

Practical

Table of Specification For 2023 Examination Ophthalmology

Max Marks = 80Internal Assessment = 20 Grand Total =100

Pass Marks =50

	OSCE Ophthalmology													
	5x (Obs	erve	ed		8x Non- Observed								
1	2	3	4	5	6	7	8	9	10	11	12	13		
Focused History	Shortcase-1	Shortcase-2	Shortcase-3	Counselling/Comm Skills	2 x Data Interpretation	2xPicture	2xInstrument	2xXrays	Drugs	Picture∕Visual acuity Charts	Picture	Picture		
08	80	8 0	0 8	08	05	05	05	05	05	05	05	05	80Marks	

5 minutes for each station

For25students =125Minutes=2hrs5 minutes

Number of rest stations depends upon the number of students

INTERNAL ASSESSMENT - THE	EORY
INTERNAL ASSESSMENT WEIG	SHTING: 20%
Exams	Weightings
Attendance in Lectures:	10%
a. ≥90% = 10%	
b. 80-89% = 7%	
c. 75-79% = 5%	
End of Block/ clinical rotation (theory) Examination	45%
Continuous assessment (average score of all tests attempted after	20%
every learning session during the academic year)	
Pre-Annual Exam	25%
Total	100%
INTERNAL ASSESSMENT STRU	CTURE - PRACTICAL
INTERNAL ASSESSMENT V	VEIGHTING: 20%
Exams	Weightings
Attendance in Practicals:	10%
a. ≥90% = 10%	
b. 80-89% = 7%	
c. 75-79% = 5%	
*End of Block/ clinical rotation (OSCE) Examination	45%
*Continuous assessment of practical/ clinical skills and attitude	20%
Pre-Annual Exam	25%
Total	100%

Academic Calander

Amended Academic Calendar - 4th Year MBBS (2022-23)

Weeks	Details	Da	tes									
TTCCNS	Details	From	То									
1-3	Start of New Class	05 Dec	2022									
1-3	1 st Module (3/12 weeks)	05 Dec 2022	23 Dec 2022									
4	Winter Vacation (1 week)	26 Dec 2022	30 Dec 2022									
5-12	1 st Module (8/12 week)	02 Jan 2023	23 Feb 2023									
	1 st Module Exam (1/12 week)	24 Feb 2023	27 Feb 2023									
	EYE	24 Feb 2023 (Fri)										
13	Special Pathology	27 Feb 20	023 (Mon)									
	Sport Week	27 Feb 2023	02 Mar 2023									
	Note: 3 rd March 2023 - full of											
	2 nd Module (1/11 Weeks)	06 Mar 2023	10 Mar 2023									
	ENT	06 Mar 20										
	Final Sport Day	200000	2023									
14	Prep leave for 1 st Module Exam	08 Mar 2023										
	Community Medicine	09 Mar 20										
	Note: The academic activities on 10 th March 2023 (Friday) will not be carried out for the Olympiad activities to go as plan.											
15	2 nd Module (1/11 Weeks)	13 Mar 2023	17 Mar 2023									
16	Spring Vacation	20 Mar 2023	26 Mar 2023									
2000	2 nd Module (08/11 Weeks)	27 Mar 2023	19 May 2023									
17-24	Eid ul Fiter	21 - 25 Apr 2	2023 (Fri-Tue)									
	Labour Day		y 2023									
	2 nd Module Exam (1/11 week)	22 May 2023	29 May 2023									
	Special Pathology	22 May 2	023 (Mon)									
	Prep leave	23 May 2	2023 (Tue)									
	Eye	24 May 2023 (Wed)										
25	Prep leave	0.000 0.000 0.000	023 (Thu)									
	Community Medicine		2023 (Fri)									
	27 & 28 May 2023 (
	ENT	29 May 2023 (Mon)										
	3 rd Module (08/10 Weeks)	30 May 2023	21 Jul 2023									
26-33	Eid ul Adha (Tentative)		23 (Thu – Fri)									
507 (735-21	Summer Vacations (4x Weeks)	24 Jul 2023	18 Aug 2023									
34-37	Independence Day		g 2023									
38	Prep Leave for Pre Annual / Send Up Exam	21 Aug 2023	25 Aug 2023									
	Pre Annual / Send Up Exam (02/10)	28 Aug 2023	08 Sep 2023									
	Special Pathology	28 Aug 2	023 (Mon)									
	Prep leave	29 Aug 2	023 (Tue)									
	Community Medicine	30 Aug 2	023 (Wed)									
39-40	Prep leave	31 Aug 2	023 (Thu)									
	Eye	01 Sep 2	2023 (Fri)									
	02 & 03 Aug 2023 (Sat & Sun)											
	ENT	04 Sep 2023 (Mon)										
	OSPE	5 (Tue) ,06 (Wed),07(Thu),08 (Fri) Sep 202										
41-45	Prep Leave for Annual Exam (5 Weeks)	09 Sep 2023	16 Oct 2023									
	NUMS Annual Exam	17 Oct	2023 onwards									

Note:
1. The summer vacations will be observed from 24th July to 18th Aug 2023.
2. The Annual Prof Examination date has been rescheduled to 17 Oct 2023 instead of 09 Oct 2023.

Dr Rizwana Kamran Assistant Professor SHaPE

Prepared By: Miss Humaira Sardar Dated: 26th July 2023

Clinical Rotation Program

	41-45	39-40	1	u	37	00.00	33-36	×	90-01	2	27-29	26	ĸ	23-24		30.33	,17-19	6	15		z		5			8-10	5-7	4	1.3	WEENS				
17 Oct 2023 onwards	09 Sep 2023 to 16 Oct 2023	28 Aug 2023 to 08 Sep 2023	and the same of the same of the same of	21 Aug 2023 to 25 Aug 2023	14 Aug 2023 to 18 Aug 2023	TO AND ROSE OF THE PROPERTY.	17 Jul 2023 to 11 Aug 2023	10 Jul 2023 to 14 Jul 2023	Some to the sound the sound	202 1. 202	05 Jun 2023 to 23 Jun 2023	30 May 2023 to 02 June 2023	22 May 2023 29 May 2023	08 May 2023 to 19 May 2023		17 Apr 2023 to 05 May 2023	27 Mar 2023 to 14 Apr 2023	20 Mar 2023 to 24 Mar 2023	13 Mar 2023 to 17 Mar 2023		06 Mar 2023 to 10 Mar 2023		27 Feb 2023 to 02 Mar 2023		17 Eat 2027 to 26 Eat 2027	23 Jan 2023 to 10 Feb 2023	02 Jan 2023 to 20 Jan 2023	26 Dec 2022 to 30 Dec 2022	05 Dec 2022 to 23 Dec 2022	Cama				
			A 170 171 A		71 prepinearity			Anaesthesia 1/2		Gynae/ Obs	Эүэ	Urology 1/3		Uralogy 2/3		ENT	Medicine / ICU		Dermatology 1/3	Note: The acade					Dermatology 2/3	Pages	EYE		ENT	Onterna				
		Spec			000	3		EYE 1/2		ENT	Ansesthesia	EVE 1/3		EYE 2/3		Lirology	ENT		Medicine / ICU 1/3	mic activities on					Vedicine / ICU 2/3	Dermatology	Gynae/Obs New Clin		Paeds	-				
		iai Pathology Za	Dath Jan 38			THE		ENT 1/2		343	ENT	Gynae/ Obs 1/3	Special Patholog	Gynael Obs 2/3		EYE	Pands		Anaesthesia 1/3	10 th March 2023		Note: 3rd Mar			Anaesthesia 2/3	Mediane / ICU	no/Obs Psychiatry EYE Anaesthesia Radiolog New Clinical Rotation Start from 23 Jan 2023 to onward with 10 Batches		Dermatology	100000000000000000000000000000000000000				
		Aug Zoza, Comr	2022	Pre	7 manua 112			Paeds 1/2	Eld ul A	Anzesthesia	EYE	ENT 1/3	y 22 May 2023 . E	ENT 2/3		Gynae / Obs	Dermatology		Uralogy 1/3	Friday) will not b		ch 2023 is full de			Uralagy 2/3	ENT	EYE 1 from 23 Jan 20		Medicine / ICU					
NUMS Ar	Prep Leave for Annual Exam	5 (Tue), 06(Wed)		Leave for Pre A	Independence D		Summer	Dermatology 1/2	dha (Tentative)	Paeds	Medicine / ICU	EYE 1/3	2nd YE 24 May 2023,	EYE 2/3	1st May L	ENT	Gynae / Obs	Spring	EYE 1/3	e carried out for	Annual Sports G Prep Leave fo Community Medi	Note: 3rd March 2023 is full day routine classes	Special Pathol Sport	1st 1 EYE 24 I	EYE 2/3	Umlogy	Anaesthesia 23 to onward wit		ENT	1				
NUMS Annual Exam		OSPE 05 (Tue), 06(Wed), 07(Thu), 08(Fri) Sep 2023	Special Pathology 28 Aug 2023, Community Medicine / ICUlcine 30 Aug 2023 , Eye 01 Sep 2023, ENT 04 Sep 2023	nual / Send up Exar	Independence Day 14 Aug 2023 Prep Leave for Pre Annual / Send up Exam	1/2 Day 14 Aug 2023	Medicine / ICU	/acatic	Medicine / ICU	Eld ul Adha(Tentative)29 - 30 Jun 2023 (Thu - Fri)	Dermatology	Paeds	Anaesthesia 1/3	2nd Module Special Pathology 22 May 2023 , EYE 24 May 2023, Community Medicine 25 May 2023, ENT 25 May 2023	Anaesthosia 2/3	Eid ul Fiter 21-25 Apr 2023(Fri - Tue) 1st May Labour Day	EYE	ENT	Spring Holidays	Gynae / Obs 1/3	Note: The scademic activities on 10 th March 2023 (Friday) will not be carried out for the Olympiad activities to go as plan	ENT Module Exam 6th Mar 2023 Annual Sports Gala 7th Mar 2023 Prep Leave for Module Exam Community Medicine 09th Mar 2023		Special Pathology 27 Feb 2023 Sports Week	1st Module EYE 24 Feb 2023	Gynae / Obs 2/3	EYE	Radology h 10 Batches	Winter Vacation	Uralogy				
Colonia Colonia		ug 2023 , Eye 01 Sep 2023, L Fri) Sep 2023		unnual / Send up Exam		Cional in	Urology 12		Urology 1/2	Urology 1/2	-	-		Urology 1/2	Urology 1/2	Thu - Fri)	Medicine / ICU	Dermatology	Paeds 1/3	ine26 May 2023,	Paeds 2/1	8)	Ananshesa	EYE		ENT 1/3	vities to go as pla	3				ENT 2/3	Gynae / Obs	ENT
		2023, ENT 04 Se	THE PERSON		Contractions of Chinese Con in	A		Anaesthesia 1/2		BAE	ENT	Medicina / ICU 1/3	ENT 25 May 202	Medicine / ICU 2/3		Demiatology	Uralogy		EYE 1/3	Þ					EYE 2/3	ENT	Pands		GynaelObs	The second second				
		2023	9099		Cymer Con :	Charles to		EYE		ENT	Urology	ENT 1/3	-	ENT 2/3		Medicine / ICU	Annesthesia		Paeds 1/3						Paeds 2/3	EYE	Domnatology		Psychiatry	The state of the s				
			1000			ENT 10		ENT 1/2		Uralogy	Gynae/ Obs	Dermatology 1/3		Dematology 2/3		Paeds	EYE		ENT 1/3						ENT 2/3	Anaostresia	Medicine / ICU		EYE	The state of the s				
			_			_										-	_	_	-								ENT		Anaesthe					
																											Urology		Radiolog					

Reading Material:

S. No	<u>Topic</u>	Resource
1.	Basics of Hearing and Balance	Appendex-1(Attached)
		Youtube Video
		https://www.youtube.com/watch?v=3G5jiXl2LSM
2.	Ear Discharge and Deafness	1. https://www.slideshare.net/DennisLee14/ear-
		discharge-and-otalgia-58522286?qid=229e390a-
		<u>0885-4d59-a0a5-</u>
		875e5d85bda1&v=&b=&from_search=2
		2. Diseases of Ear Nose and Throat by PL Dhingra4 th
		Edition Publisher Elsevier Page 22-29, 48-89, 103-
		109, 110-112.
3.	Otalgia	1. https://www.slideshare.net/DennisLee14/ear-
		discharge-and-otalgia-58522286?qid=229e390a-
		<u>0885-4d59-a0a5-</u>
		875e5d85bda1&v=&b=&from_search=2
		2. Diseases of Ear Nose and Throat by PL Dhingra4th
		Edition Publisher Elsevier Page48-89, 103-109,
		124-125
4.	Vertigo	1. https://www.youtube.com/watch?v=1AfvNsaQnTE
		2. https://www.youtube.com/watch?v=jBzID5nVQjk
		3. Diseases of Ear Nose and Throat by PL Dhingra,
		4th Edition Publisher Elsevier Page 99-103, 110-112
5.	Tinnitus	1. https://www.youtube.com/watch?v=yMigvtQMIeA
3.	Timitus	2. Diseases of Ear Nose and Throat by PL Dhingra,
		4th Edition Publisher Elsevier Page
6.	Facial Disfigurement	1. https://www.slideshare.net/Amro1988/facial-nerve-
	g	paralysis-common-causes?qid=bdfd436a-1f10-
		4772-aaa0-93e1348173e0&v=&b=&from_search=1
		2. https://www.youtube.com/watch?v=qoE3Mp07tWI
		3. Diseases of Ear Nose and Throat by PL Dhingra4th
		Edition Publisher Elsevier Page 90-98, 171-178
7.	Tumours of the Ear	1. https://www.youtube.com/watch?v=z92B-fiUbnE
		2. https://www.youtube.com/watch?v=u_h9O4BRbMg
		3. https://www.slideshare.net/Anwaaar/glomus-
		tumours-pakistan?qid=e15818de-b492-4d9d-bb0b-
		354411117d37&v=&b=&from_search=5
		4. https://www.slideshare.net/Anwaaar/tumours-of-
		ear?qid=e862e755-f592-4c5c-8461-
		4092588de37d&v=&b=&from_search=1

Reading Material:

S. No	Topic	Resource
1	Basic of Nose and Para nasal Sinuses	1.Diseases of EAR, NOSE and THROAT and HEAD and NECK surgery_by PL Dhingra, Shruti Dhingra 6 th edition publisher Elsevier ,chapter 23 page 134-139,chapter 35 pg 187-190. 2. Diseases of EAR, NOSE and THROAT and HEAD and NECK surgery_by PL Dhingra, Shruti Dhingra 6 th edition publisher Elsevier ,chapter 24,pg 140-142,chapter 35 pg 190. 3. Diseases of EAR, NOSE and THROAT and HEAD and NECK surgery_by PL Dhingra, Shruti Dhingra 6 th edition publisher Elsevier ,chapter 26,pg 127 4. Diseases of EAR, NOSE and THROAT and HEAD and NECK surgery_by PL Dhingra, Shruti Dhingra 6 th edition publisher Elsevier ,chapter 25,pg 143-146,chapter 26.pg 147-151
2	Nasal obstructions	Diseases of EAR, NOSE and THROAT and HEAD and NECK surgery_by PL Dhingra, Shruti Dhingra 6 th edition publisher Elsevier ,chapter 26 pg 148-150,chapter 32 pg 172-175,chapter 29 pg 161,chapter 48 pg 243-244,chapter 55 pg 276-279,chapter 29 pg 163,chapter 39 pg 202-204
3	Discharge and Epistaxis	Diseases of EAR, NOSE and THROAT and HEAD and NECK surgery_by PL Dhingra, Shruti Dhingra 6 th edition publisher Elsevier ,chapter 27 pg 154-157,chapter 30 pg 166-169,chapter 31 pg 170-171,chapter 28 pg 159-160,chapter 33 pg 176-180.
4	Headache and facial pains	1.Diseases of EAR, NOSE and THROAT and HEAD and NECK surgery_by PL Dhingra, Shruti Dhingra 6 th edition publisher Elsevier chapter 36 pg 191-194,chapter 37 pg 195-197,chapter 38 pg 198-201,chapter 39,40,41 pg 202-213 2. Youtube video link https://www.youtube.com/watch?v=mLeq2f-3GbU
<u>5</u>	Sore throat and pain	Diseases of EAR, NOSE and THROAT and HEAD and NECK surgery_by PL Dhingra, Shruti Dhingra 6 th edition publisher Elsevier chapter 51 pg 257-262, chapter 50 chapter 254-256,chapter 47 pg 238-242,chapter 42&43 pg 216-222,chapter 44,45 &46 pg 223-237.chapter 53 pg 269-272.
<u>6</u>	Dysphagia and Odynophagia	Diseases of EAR, NOSE and THROAT and HEAD and NECK surgery_by PL Dhingra, Shruti Dhingra 6 th edition publisher Elsevier chapter 68&69 pg 342-348.chapter 67 pg 340-341

7	Hoarseness and Stridor	Diseases of EAR, NOSE and THROAT and HEAD
		and NECK surgery_by PL Dhingra, Shruti Dhingra 6 th
		edition publisher Elsevier chapter 56-62
8	Neck masses	Diseases of EAR, NOSE and THROAT and HEAD
		and NECK surgery_by PL Dhingra, Shruti Dhingra 6 th
		edition publisher Elsevier Chapter 52
9	Advances in ENT/Neck surgeries	https://www.slideshare.net/ksreenivask77/recent-
		advances-in-ent-frmi-contact-endoscopy-pet-scan-and-
		immmunotherapy?qid=70b96ae3-eb5a-4ed5-85ca-
		eab2704e0f56&v=&b=&from_search=1