



Jinnah Medical & Dental College

ENT

Study Guide



Otorhinolaryngology

**MBBS
2021-22**

He who has health, has hope

And he who has hope,

has everything!

Team Members of the Study guide 2021

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Introduction

A very warm welcome to medical students in the Otolaryngology posting. Otolaryngology is the oldest medical specialty in the world. The study of otolaryngology has expanded over the past 50 years and now focuses on head and neck. The diseases of Ear, nose and throat had been one of the leading challenges for health care administration and providers in underdeveloped countries like Pakistan. Proper treatment in time may let a person to lead quality life without social embarrassment and economic losses.

This clinical rotation has been developed to impart integrated teaching as a part of curriculum in Jinnah Medical and Dental College, Karachi. It will be covered in 4 weeks. This clinical posting has been designed to introduce new entrants to the MBBS program basic concepts essential for understanding a number of topics in Otorhinolaryngology, so that they are able to apply it when they come across more advanced topics. This clinical posting hence provides a framework within which learners are expected to build future competencies.

Rationale

Before moving on to complex clinical issues, it becomes imperative for the students to achieve clear concepts of the basic organization of Ear, nose and throat. This posting is designed to cover the detailed examination of the ear, nose and throat, providing patient centered approach or diagnosis and management of common clinical presentations. Concepts acquired during this clinical posting will be revisited in all other subsequent postings of the undergraduate course.

General Learning Objectives

At the end of the Otolaryngology clinical rotation, students will be able to:

1. Take a detailed history for each of the presenting clinical scenario.
2. Perform detailed Ear Nose Throat and Neck examination.
3. Provide safe and patient-centered approach for the diagnosis of the common clinical presentations by using critical reasoning skills on the basis of:
 - Relevant basic and clinical science knowledge
 - Evidence-based medicine (EBM)
4. Demonstrate knowledge regarding Surgical and Applied anatomy of Ear Nose Throat and Neck.
5. Demonstrate truthfulness with patients, peers, and in professional work (e.g., documentation, communication, presentations, research, taking patient consent etc).
6. Demonstrate accountability to patients as well as colleagues and accepts responsibility for errors.
7. Works cooperatively and communicates effectively to achieve common patient care and educational goals of all involved health care providers.
8. Counseling of patients regarding disease, management and prognosis



JMDC CURRICULUM FRAMEWORK: MBBS 1-5 YEARS

Year	Module 1	EOM	Module 2	EOM	Module 3	EOM	Module 4	EOM	Module 5	EOM	Module 6	EOM
1	Foundation-1 8 weeks		Blood-1 4 weeks		Locomotor-1 8 weeks		Respiratory-1 4 weeks		CVS-1 4 weeks		GIT-1 4 weeks	
2	Module 7	EOM	Module 8	EOM	Module 9	EOM	Module 10	EOM	Module 11	EOM	Module 12	EOM
	Head & Neck-1 5 weeks		Neurosciences-1 7 weeks		Special Senses 3 weeks		Endocrine-1 5 weeks		Reproductive-1 4 weeks		Urinary-1 5 weeks	
3	Module 13	EOM	Module 14	EOM	Module 15	EOM	Module 16	EOM	Module 17	EOM	Module 18	EOM
	Foundation 2 10 weeks		Blood-2 5 weeks		Locomotor-2 4 weeks		Respiratory-2 4 weeks		CVS-2 5 weeks		GIT-2 7 weeks	
Clinical Rotations (Each Batch)												
R 1	Medicine 2 weeks	WT	Psychiatry 2 weeks	WT	Surgery 2 weeks	WT	Surgery 2 weeks	OBS/ GYN 2 weeks	Pediatrics 2 weeks	Eye 2 weeks	Ent 2 weeks	
R 2	Medicine 2 weeks		Psychiatry 2 weeks		Surgery 2 weeks		Orth 2 weeks	OBS/ GYN 2 weeks	Pediatrics 2 weeks	Eye 2 weeks	Ent 2 weeks	
4	Module 19	EOM	Module 20	EOM	Module 21	EOM	Module 22	EOM	Module 23	EOM	Module 24	EOM
	Orthopedics 7 weeks		Reproductive-2 7 weeks		Neuroscience-2 9 weeks		Genetics 2 weeks		Dermatology 2 weeks		Rehabilitation 2 weeks	Ent Eye
Clinical Rotations (Each Batch)												
R 1	Medicine 3 weeks	WT	Psychiatry 3 weeks	WT	Surgery 3 weeks	WT	Orth 3 weeks	WT	OBS/ GYN 3 weeks	WT	Pediatrics 3 weeks	WT
											Ent 3 weeks	WT
R 2	Medicine 3 weeks	WT			Surgery 3 weeks	WT			Eye 3 weeks	WT		WT
5												

EOM=Exam of Module

R= Rotation

WT = Ward Test

Final Exam

Otorhinolaryngology

Clinical Rotation

MAIN CONTENT AREAS

Ear

- Acute otitis externa, management of impacted wax and foreign body
- Management plan for dealing with trauma to pinna and traumatic rupture of tympanic membrane
- Etiology, investigations, treatment, and complications for Malignant otitis
- Myringitis bullosa, Perichondritis and Fungal infections
- Clinical presentations, examination findings, investigations, and treatment
- Acute otitis media, Serous otitis media, Chronic otitis media mastoiditis
- Causes of deafness investigation findings related to deafness and mutism in a child
- Tinnitus & Acoustic Neuroma
- Vestibular neuritis, benign paroxysmal positional vertigo, Meniere's Disease, and migraine-associated vertigo

Nose

- Fractures of the external nose based on history, clinical findings and investigation findings and management plan for dealing with trauma to external nose
- Congenital lesions and deformities of external nose
- Diagnosis and management of epistaxis, Deviated nasal septum, Hematoma, septal abscess, and perforation
- Etiology, pathophysiology, clinical presentations, investigations and treatment plans for Allergic Rhinitis and rhinitis due to foreign bodies
- Polyps, foreign bodies, and maggots in nose
- Sinusitis, tumors, and headaches

Throat

- Diseases of salivary gland, thyroid gland, and lymph nodes

- Diagnose of Thyroglossal cyst/ sinus, Pre-auricular cyst/sinus, Branchial Cyst and Branchial Fistula
- Diagnosis, investigations, differential diagnosis, and treatment plans for oral cavity
- Tonsillitis, Peri-tonsillitis and abscess etiology, pathophysiology, differential diagnosis, and investigations for dysphagia
- Etiology and pathophysiology of supraglottitis, laryngitis and laryngeal tumors

Competencies assessed in this module

K=Knowledge

S=Skill

A=Attitude

Teaching / Learning Methods

The teaching learning sessions of this module will be of diverse types:

- a. Large group interactive sessions (LGIS)
- b. Small group teaching will include tutorials and, case – based learning session.
- c. Problem – based learning sessions.
- d. Practical session will comprise sessions on early exposure to clinical methods and practical laboratory demonstrations.
- e. Seminars: on different topics, in which students will make oral presentations on different aspects of the allocated topic.
- f. Self-directed learning sessions: This is the time during which students are expected to revise what they have learnt in the class, clear their concepts by consulting different textbooks, reference material and prepare their assignments and projects.

Students Assessment

There will be an end of rotation ward test after completion of clinical posting which will comprise the following components: -

i. Written Assessment

The theory paper will have components of one – best type multiple – choice questions (MCQs).

ii. Practical / lab examination:

This will comprise Objective Structured Clinical Examination (OSCE) The OSCE will have both observed and non-observed stations. The end of clinical posting will be of 2 hours duration. This will comprise the following components:

The OSPE/ OSCE will be conducted in batches. The students will be having different patterns of OSPE/OSCE in the subjects of otolaryngology.

Summary of marks of each module exam

Theory (BCQs) = 100 marks

OSPE (10 stations) = 100 marks

Total = 200 marks

Internal Assessment:

- Continuous monitoring of attendance and practical assessment in short groups By Mini CEX and logbooks.
- It may be in the form of MCQs (BCQs), Ward tests, and OSCE.
- Internal assessment carries 20% weightage

Course Evaluation:

Course evaluation will be obtained through a feedback form which will be posted on the JMC website

Mandatory Policy:**Eligibility for sitting in Professional Examinations is as follows:**

- 75% overall Class Attendance
- 75% Attendance all Clinical Wards with passing marks in all Clinical Ward Tests.
- Minimum 40% aggregate marks on all Internal Examinations (Module Tests, Midterm, Pre-Professional Examinations)
- MBBS 1stYear: Complete all Professional Communication assignments with passing marks
- MBBS 1st& 2ndYear: Obtain passing marks in Behavioral Sciences & Research Module assessments
- MBBS 2ndYear: Presentation in Journal club at least twice in a year
- MBBS 4th& Final Year: CPC Presentation at least once in a year
- Skills Labs: Must be completed with passing marks
- Research Paper must be completed before MBBS 4 Professional Examination

Failure to Meet the Eligibility Requirements:

- A Student failing to meet the above listed eligibility for sitting in the professional examination will NOT be allowed to sit in 1st attempt of the Professional Examination.

The college has the right to withhold all students who however, not met the eligibility requirements from sitting in the 1st attempt.

- Such students who have been withheld from sitting in the 1st attempt of the Professional exam because of failure to meet the eligibility requirements will be allowed only to sit in the retake of that examination.

It is expected that deficiency in requirements of Professional communication assignments, Behavioral Sciences & Research Module assessments, journal Club presentations, CPC, Skills Labs must be made up and fulfilled before a student will be allowed to sit in the retake exam.

Details of ATTENDANCE POLICY

The CR is responsible to bring attendance sheets from Student Affairs Office to each class. At the end of class, the attendance sheet must be signed and returned by the faculty member to the Student Affairs Office. No attendance sheets from students will be accepted.

These attendances will be compiled together as follows:

LECTURE ATTENDANCE = # Lectures Attended / Total # of Lectures

PRACTICAL ATTENDANCE = # Practicals Attended / Total # of Practicals

TUTORIAL ATTENDANCE = # Tutorials Attended / Total # of Tutorials

NOTE: All tutorials will be conducted by a Senior Faculty Member (AP or above), assisted by a Junior Faculty Member (Lecturer)

FINAL CLASS ATTENDANCE =

%Lecture Attendance + %Tutorial Attendance + %Practical Attendance

Recommended Reading Material

- **Text Book**

1) Logan Turner's Diseases of the Nose Throat and Ear

(Edited by: AGD Maran Eleventh edition)

2) Principles and Practices of Oto- Rhino –Laryngology

(Edited by: Iqbal Hussain)

3) Diseases of Ear, Nose & Throat

(Edited by: PL Dhingra 6th edition)

4) Reference books

a. Current medical diagnosis Otolaryngology 4th Edition, Anil Lalwani

b. Scott-Brown Otolaryngology-Head & Neck Surgery, 8th edition

Otolaryngology

Organization

Time requirements:

Lectures

4th year= 32 hours

Clinical Rotations

3rd year= 96 hours

4th year= 144 hours

Total = 272 hours

ENT

3rd year

Clinical rotations

Otolaryngology

Clinical Rotations

S NO	Learning Objectives By the end of this session, students will be able to:	Content Areas	Teaching activity (Duration)	Assessment
1.	Nasal Obstruction <ul style="list-style-type: none"> To take detailed history To describe different etiological factors To perform clinical examination To enlist the associated symptoms (S) (A) 	<ul style="list-style-type: none"> DNS Nasal Polyps Allergic Rhinitis Tumors Adenoids 	Bed side teaching + Out patient demonstration 3 hours	Mini CEX OSPE/OSCE
2.	Rhinorrhea <ul style="list-style-type: none"> To take detailed history To describe different etiological factors To perform clinical examination To enlist the associated symptoms (S) (A) 	<ul style="list-style-type: none"> Allergic rhinitis Sinusitis CSF rhinorrhea Vasomotor rhinitis Rhinolith 	Bed side teaching + Out patient demonstration 3 hours	Mini CEX OSPE/OSCE
3.	Epistaxis <ul style="list-style-type: none"> To take detailed history To describe different etiological factors To perform clinical examination To enlist the associated symptoms (S) (A) 	<ul style="list-style-type: none"> Trauma Tumor Post-surgical Hypertension Anticoagulants 	Bed side teaching + Out patient demonstration 3 hours	Mini CEX OSPE/OSCE
4.	Sore Throat <ul style="list-style-type: none"> To take detailed history To describe different etiological factors To perform clinical examination to enlist the associated symptoms (S) (A) 	<ul style="list-style-type: none"> Pharyngitis Tonsillitis Quinsy Foreign body Neoplastic 	Bed side teaching + Out patient demonstration 3 hours	Mini CEX OSPE/OSCE

5.	Airway obstruction/Dyspnea <ul style="list-style-type: none"> To take detailed history To describe different etiological factors To perform clinical examination to enlist the associated symptoms (S) (A) 	<ul style="list-style-type: none"> Foreign body Neoplastic Croup Epiglottitis 	Bed side teaching + Out patient demonstration 3 hours	Mini CEX OSPE/OSCE
6.	Change of voice <ul style="list-style-type: none"> To take detailed history To describe different etiological factors To perform clinical examination To enlist the associated symptoms (S) (A) 	<ul style="list-style-type: none"> Acute laryngitis Chronic laryngitis Vocal cord paralysis Vocal nodules Neoplastic 	Bed side teaching + Out patient demonstration 3 hours	Mini CEX OSPE/OSCE
9.	Dizziness/Vertigo <ul style="list-style-type: none"> To take detailed history To describe different etiological Factors To perform clinical examination to enlist the associated symptoms (S) (A) 	<ul style="list-style-type: none"> CSOM BPPV Meniere's disease 	Bed side teaching + Out patient demonstration 3 hours	OSPE/OSCE
10.	Deafness <ul style="list-style-type: none"> To take detailed history To describe different etiological factors To perform clinical examination to enlist the associated symptoms (S) (A) 	<ul style="list-style-type: none"> Otosclerosis TM perforation CSOM Serous otitis media Noise induced hearing loss Meniere's disease 	Bed side teaching + Out patient demonstration 3 hours	OSPE/OSCE
11.	Facial weakness'/Paralysis <ul style="list-style-type: none"> To take detailed history To describe different etiological factors To perform clinical examination to enlist the associated symptoms (S) (A) 	<ul style="list-style-type: none"> Bell's palsy CSOM Malignant Otitis externa Herpes zoster Trauma Neoplastic 	Bed side teaching + Out patient demonstration 3 hours	OSPE/OSCE

Otolaryngology

Skill lab

S NO	Learning Objectives By the end of this session, students will be able to:	Content Areas	Teaching activity (Duration)	Assessment
1.	<ul style="list-style-type: none"> To proper handling To examine the External auditory canal, Tympanic membrane (S) 	Otoscopy	Demonstrations 2 hours	OSPE/OSCE
2.	<ul style="list-style-type: none"> To proper handling To perform the Rinne's Weber's and ABC tests (S) 	Tuning fork test	Demonstrations 2 hours	OSPE/OSCE
3.	<ul style="list-style-type: none"> To Proper handling of instruments (S) 	Anterior/Posterior Rhinoscopy	Demonstrations 2 hours	OSPE/OSCE

ENT

4TH year

**Lectures
&
Clinical Rotations**

EAR

S No	Learning Objectives By the end of the session, students will be able to:	Content Areas	Learning Activity (Duration)	Assessment
1.	EXTERNAL EAR <ul style="list-style-type: none"> Discuss the etiology, investigations, treatment and complications for- Acute otitis externa Describe management of impacted wax and foreign body plans for benign tumors of external ear (K) 	<ul style="list-style-type: none"> Etiology, investigations, treatment and complications for- Acute otitis externa Management of impacted wax and foreign body plans for benign tumors of external ear 	LGIS 50 mins	—
2.	<ul style="list-style-type: none"> Describe management plan for dealing with trauma to pinna and traumatic rupture of tympanic membrane Discuss the etiology, investigations, treatment and complications for Malignant otitis externa Discuss the clinical presentations, examination findings, Investigations, and treatment (K) 	<ul style="list-style-type: none"> Etiology, investigations, treatment and complications for- Acute otitis externa Management of impacted wax and foreign body plans for benign tumors of external ear 	LGIS 50 mins + Demonstrations 90 mins	OSCE MCQs
3.	<ul style="list-style-type: none"> Discuss the etiology, investigations, treatment, and complications for Myringitis bullosa, Perichondritis and Fungal infections Discuss the clinical presentations, examination findings, investigations, and treatment plans for malignant tumors of external ear (K) 	<ul style="list-style-type: none"> Etiology, investigations, treatment, and complications for Myringitis bullosa, Perichondritis and Fungal infections Discuss the clinical presentations, examination findings, investigations, and treatment plans for malignant tumors of external ear 	LGIS 50 mins + Demonstrations 90 mins	OSCE MCQs
4.	MIDDLE EAR <ul style="list-style-type: none"> Discuss the etiology, pathophysiology, clinical presentations, examination findings, investigations and treatment plans for acute otitis media, Serous otitis media, and Chronic otitis media Describe the diagnosis and management for complications of otitis media and mastoiditis (K) 	<ul style="list-style-type: none"> Etiology, pathophysiology, clinical presentations, examination findings, investigations and treatment plans for acute otitis media, Serous otitis media, and Chronic otitis media Diagnosis and management for complications of otitis media and mastoiditis 	LGIS 50 mins	MCQs

5.	<ul style="list-style-type: none"> Discuss the etiology, pathophysiology, clinical presentations, examination findings, investigations, and treatment plans for Acute necrotizing otitis media Discuss the clinical presentations, examination findings, investigations and treatment plans of benign and malignant tumors of middle ear (K) 	<ul style="list-style-type: none"> Etiology, pathophysiology, clinical presentations, examination findings, investigations, and treatment plans for Acute necrotizing otitis media Clinical presentations, examination findings, investigations and treatment plans of benign and malignant tumors of middle ear 	LGIS 50 mins	MCQs
6.	<ul style="list-style-type: none"> Define deafness List causes of deafness • Interpret investigation findings related to deafness (Audiogram, tympanogram) Diagnose deafness and mutism in a child Discuss the differential diagnosis, investigations, and treatment of Tinnitus & Acoustic Neuroma (K) 	<ul style="list-style-type: none"> Causes of deafness Investigation findings related to deafness (Audiogram, tympanogram) Deafness and mutism in a child Differential diagnosis, investigations, and treatment of Tinnitus & Acoustic Neuroma 	LGIS 50 mins	MCQs
7.	<ul style="list-style-type: none"> Discuss the clinical presentations and treatment options for vestibula neuritis, benign paroxysmal positional vertigo, Meniere's Disease, and migraine-associated vertigo (K) 	<ul style="list-style-type: none"> Clinical presentations and treatment options for vestibula neuritis, benign paroxysmal positional vertigo, Meniere's Disease, and migraine-associated vertigo 	LGIS 50 mins	MCQs

NOSE

Lectures

S No	Learning Objectives By the end of the session, students will be able to:	Content Areas	Learning Activity (Duration)	Assessment
1.	EXTERNAL NOSE <ul style="list-style-type: none"> Diagnose fractures of the external nose based on history, clinical findings, and investigation findings Discuss management plan for dealing with trauma to external nose(K) 	<ul style="list-style-type: none"> Fractures of the external nose based on history, clinical findings, and investigation findings Management plan for dealing with trauma to external nose 	LGIS 50 mins	MCQs
2.	<ul style="list-style-type: none"> Diagnose congenital lesions of external nose (choanal atresia) based on clinical and investigation findings Based on data provided, discuss management plans for External nose deformities(K) 	<ul style="list-style-type: none"> Congenital lesions of external nose (choanal atresia) based on clinical and investigation findings Management plans for External nose deformities 	LGIS 50 mins	MCQs
3.	SEPTUM <ul style="list-style-type: none"> Diagnose epistaxis, Deviated nasal septum, Hematoma, septal abscess, and perforation Discuss management plans for epistaxis, Deviated nasal septum, Hematoma, septal abscess, and perforation (K) 	<ul style="list-style-type: none"> Epistaxis, Deviated nasal septum, Hematoma, septal abscess, and perforation Management plans for epistaxis, Deviated nasal septum, Hematoma, septal abscess, and perforation 	LGIS 50 mins	MCQs
4.	RHINITIS <ul style="list-style-type: none"> Describe the etiology, pathophysiology, clinical presentations, investigations and treatment plans for Allergic Rhinitis and rhinitis due to foreign bodies Describe the etiology, pathophysiology, clinical presentations investigations and treatment plans for common types of Atrophic 	<ul style="list-style-type: none"> Etiology, pathophysiology, clinical presentations, investigations and treatment plans for Allergic Rhinitis and rhinitis due to foreign bodies Etiology, pathophysiology, clinical presentations investigations and treatment plans for common types of Atrophic Rhinitis, Hyper-Trophic Rhinitis and VMR 	LGIS 50 mins	MCQs

	Rhinitis, Hyper-Trophic Rhinitis and VMR (K)			
5.	POLYPS <ul style="list-style-type: none"> Define Polyps Diagnose Ethmoidal and Antrochoanal Polypus Discuss management plans for Ethmoidal and Antrochoanal Polypus (K) 	<ul style="list-style-type: none"> Polyps Ethmoidal and Antrochoanal Polypus Management plans for Ethmoidal and Antrochoanal Polypus 	LGIS 50 mins	MCQs
6.	<ul style="list-style-type: none"> Diagnose Bleeding Polypus Discuss management plans for Bleeding Polypus (K) 	<ul style="list-style-type: none"> Bleeding Polypus Management plans for Bleeding Polypus 		
7.	FOREIGN BODY IN NOSE <ul style="list-style-type: none"> Diagnose foreign bodies in nose (i.e. Rhinoliths) based on examination& investigation findings Discuss management plans for Rhinolith (K) 	<ul style="list-style-type: none"> Foreign bodies in nose (i.e. Rhinoliths) based on examination& investigation findings Management plans for Rhinolith 	LGIS 50 mins	MCQs
8.	<ul style="list-style-type: none"> Diagnose foreign bodies in nose (i.e., Maggots) based on examination & investigation findings Discuss management plans for Maggots (K) 	<ul style="list-style-type: none"> Foreign bodies in nose (i.e., Maggots) based on examination & investigation findings Management plans for Maggots 	LGIS 50 mins	MCQs
9.	SINUSITIS <ul style="list-style-type: none"> Discuss the etiology, pathophysiology, clinical presentations, examination findings, investigations, differential diagnosis and treatment plans for: Acute Sinusitis and Chronic Sinusitis Based on data provided diagnose complications of the above-mentioned conditions Suggest treatment plan for these conditions diagnose CSF Rhinorrheas based on data provided (K) 	<ul style="list-style-type: none"> Etiology, pathophysiology, clinical presentations, examination findings, investigations, differential diagnosis and treatment plans for: Acute Sinusitis and Chronic Sinusitis Based on data provided diagnose complications of the above-mentioned conditions Suggest treatment plan for these conditions diagnose CSF Rhinorrheas based on data provided 	LGIS 50 mins	MCQs

9.	TUMOURS <ul style="list-style-type: none"> Discuss the etiology, pathophysiology, clinical presentations, examination in findings, investigation, differential diagnosis and treatment plans for Basal & Squamous Cell Carcinoma, Papilloma & Osteoma (K) 	<ul style="list-style-type: none"> Etiology, pathophysiology, clinical presentations, examination in findings, investigation, differential diagnosis and treatment plans for Basal & Squamous Cell Carcinoma, Papilloma & Osteoma 	LGIS 50mins	MCQs
10.	HEADACHE AND ITS ENT CAUSES <ul style="list-style-type: none"> Justify diagnosis, investigations, differential diagnosis, and treatment plans for headaches with emphasis on ENT based (K) 	<ul style="list-style-type: none"> Diagnosis, investigations, differential diagnosis, and treatment plans for headaches with emphasis on ENT causes 	LGIS 50 mins	MCQs

THROAT

Lectures

S No	Learning Objectives By the end of the session, students will be able to:	Content Areas	Learning Activity (Duration)	Assessment
1.	<ul style="list-style-type: none"> Discuss the differential diagnosis for neck mass based on data provided (symptoms, signs, investigations) Diagnose diseases of salivary gland (neoplastic, non-neoplastic and parotitis), thyroid gland and lymph nodes based on clinical presentations and investigation findings (K) 	<ul style="list-style-type: none"> Differential diagnosis for neck mass based on data provided (symptoms, signs, investigations) Diseases of salivary gland (neoplastic, non-neoplastic and parotitis), thyroid gland and lymph nodes based on clinical presentations and investigation findings 	LGIS 50 mins	MCQs
2.	<ul style="list-style-type: none"> Diagnose Thyroglossal cyst/sinus, Pre-auricular cyst/sinus, Branchial Cyst and Branchial Fistula (K) 	<ul style="list-style-type: none"> Thyroglossal cyst/sinus, Pre-auricular cyst/sinus, Branchial Cyst and Branchial Fistula 	LGIS 50 mins	MCQs
3.	<ul style="list-style-type: none"> Justify selection of treatment options for the salivary gland conditions on the basis of data given Diagnose cleft palate and hare lip based on clinical presentation and investigation findings Describe the embryological defects and etiology for these conditions Describe treatment options for the above-mentioned conditions (K) 	<ul style="list-style-type: none"> Selection of treatment options for the salivary gland conditions Cleft palate and hare lip based on clinical presentation and investigation findings Embryological defects and etiology for these conditions Treatment options for the above-mentioned conditions 	LGIS 50 mins	MCQs
4.	<p>BUCCAL CAVITY, ORAL CAVITY, OROPHARYNX</p> <p>ORAL CAVITY ULCERS</p> <ul style="list-style-type: none"> Justify diagnosis, investigations, differential diagnosis and treatment plans on the data given for oral cavity ulcers (Aphthous, Thrush & Leukoplakia) (K) 	<ul style="list-style-type: none"> Diagnosis, investigations, differential diagnosis and treatment plans for oral cavity ulcers (Aphthous, Thrush & Leukoplakia) 	LGIS 50 mins	MCQs

5.	<ul style="list-style-type: none"> Justify diagnosis, investigations, differential diagnosis and treatment plans on the basis of the data given for oral cavity ulcers (Traumatic, Vincent's Angina, A granulocytic Tuberculous, Bechet's Disease and Ulcerative lesions of Oral Cavity) (K) 	<ul style="list-style-type: none"> Diagnosis, investigations, differential diagnosis and treatment plans for oral cavity ulcers (Traumatic, Vincent's Angina, A granulocytic Tuberculous, Bechet's Disease and Ulcerative lesions of Oral Cavity) 	LGIS 50 mins	MCQs
6.	<ul style="list-style-type: none"> Justify diagnosis, investigations, differential diagnosis and treatment plans on the basis of data given for Oral Malignant Ulcers (K) 	<ul style="list-style-type: none"> Diagnosis, investigations, differential diagnosis and treatment plans for Oral Malignant Ulcers 		MCQs
7.	OROPHARYNX <ul style="list-style-type: none"> Justify diagnosis, investigations, differential diagnosis and treatment plans on the basis of data given for Tonsillitis, Peri-tonsillitis and abscess (K) 	<ul style="list-style-type: none"> Diagnosis, investigations, differential diagnosis and treatment plans for Tonsillitis, Peri-tonsillitis and abscess 	LGIS 50 mins	MCQs
8.	<ul style="list-style-type: none"> Justify diagnosis, investigations, differential diagnosis and treatment plans on the basis of data given for Tumors of tonsils, Sleep apnea syndrome and Ludwig's angina (K) 	<ul style="list-style-type: none"> Diagnosis, investigations, differential diagnosis and treatment plans for Tumors of tonsils, Sleep apnea syndrome and Ludwig's angina 	LGIS 50 mins	MCQs
9.	<ul style="list-style-type: none"> Justify diagnosis, investigations, differential diagnosis and treatment plans on the basis of data given for Pharyngeal & Retro-pharyngeal abscesses (K) 	<ul style="list-style-type: none"> Diagnosis, investigations, differential diagnosis and treatment plans for Pharyngeal & Retro-pharyngeal abscesses 	LGIS 50 mins	MCQs
10.	OESOPHAGUS <ul style="list-style-type: none"> Describe etiology, differential diagnosis and investigations for dysphagia (oral, pharyngeal and esophageal) (K) Describe indications, contraindications and complication of esophagoscopy (K) 	<ul style="list-style-type: none"> Etiology, differential diagnosis and investigations for dysphagia (oral, pharyngeal and esophageal) Indications, contraindications and complication of esophagoscopy 	LGIS 50 mins	MCQs
11.	<ul style="list-style-type: none"> Classify Oesophageal carcinoma Describe the pathophysiology of Oesophageal carcinoma based on symptoms and signs and, investigation findings Develop treatment and follow plans for Oesophageal carcinoma (K) 	<ul style="list-style-type: none"> Classification of Oesophageal carcinoma Pathophysiology of Oesophageal carcinoma based on symptoms and signs and, investigation findings Treatment and follow plans for Oesophageal carcinoma 	LGIS 50 mins	MCQs

12.	<ul style="list-style-type: none"> Describe aetiology, pathophysiology, investigations and principles of treatment for Vocal Nodules and Vocal cord paralysis Diagnose laryngitis based on symptoms and signs and, investigation findings Develop treatment and follow plans for the above-mentioned conditions Describe the aetiology and pathophysiology of supraglottitis, laryngitis Classify laryngeal tumours Diagnose Papilloma Larynx, laryngeal Polyps and Laryngeal Carcinoma based on symptoms and signs and, investigation findings Describe indications, contraindications, complications, operation steps and post (K) 	<ul style="list-style-type: none"> Etiology, pathophysiology, investigations and principles of treatment for Vocal Nodules and Vocal cord paralysis Laryngitis based on symptoms and signs and, investigation findings Treatment and follow plans for the above-mentioned conditions Etiology and pathophysiology of supraglottitis, laryngitis Classification laryngeal tumours Papilloma Larynx, laryngeal Polyps and Laryngeal Carcinoma based on symptoms and signs and, investigation findings indications, contraindications, complications, operation steps and post 	LGIS 50 mins	MCQs
13	<ul style="list-style-type: none"> Describe the aetiology and pathophysiology of Diphtheria Diagnose Diphtheria based on symptoms and signs and, investigation findings Develop treatment and follow plans for the above-mentioned condition (K) 	<ul style="list-style-type: none"> Etiology and pathophysiology of Diphtheria Diphtheria based on symptoms and signs and, investigation findings Develop treatment and follow plans for the above-mentioned condition 	LGIS 50 mins	MCQs
14.	<ul style="list-style-type: none"> Describe etiology, pathophysiology, investigations and principles of treatment for Glottic stenosis/ Laryngocele, Laryngomalacia Describe etiology and pathophysiology for syphilis, leprosy and non-specific Laryngitis Diagnose syphilis, leprosy and non-specific laryngitis based on symptoms and signs and, investigation findings Develop treatment and follow plans for the above-mentioned conditions (K) 	<ul style="list-style-type: none"> Etiology, pathophysiology, investigations and principles of treatment for Glottic stenosis/ Laryngocele, Laryngomalacia Etiology and pathophysiology for syphilis, leprosy and non-specific Laryngitis Sy, leprosy and non-specific laryngitis based on symptoms and signs and, investigation findings Treatment and follow plans for the above-mentioned conditions 	LGIS 50 mins	MCQs

Problem based learning (PBL) / Case based learning (CBL)

- ____ will be conducted every week
- CPC will be conducted each week

Learning Tool	Theme	Case Scenario	Subjects integrated in CPC
CPC1			Learning objectives will be from All clinical specialties
CPC 2			Learning objectives will be from All clinical specialties

Learning Resources:

The students will be guided to look for the relevant study material from the books, internet guided by each discipline in the study guide in their relevant section in addition to other reference books from the college library

Medical Education

Lectures / Workshop

S.NO	Learning Objectives (domain) At the end of session, student will be able to:	Content Areas	Teaching Activity (Duration)	Assessment
1.	How to do Educational Planning (S)	Educational Planning	Workshop 3 Hours	–
2.	Writing Educational Objectives (How, What, Why) (S)	Educational Objectives	Workshop 3 Hours	
3.	Develop OSPE/OSCE stations (S)	OSPE/OSCE Development	Workshop 3 Hours	–
4.	How to do students engagement and Teaching methodologies (S)	Student Engagement & Teaching Methodologies	Workshop 3 Hours	
5.	Prepare TOS and Assessment Planning (S)	TOS and Assessment planning	Workshop 3 Hours	

Learning resource: How to succeed at medical school, Dason Evans & Jo Brown, 2009

TIME TABLE

Jinnah Medical & Dental CollegeMBBS 4 (Batch 21)**EYE/ENT- ORTHOPEDICS MODULE –****WEEK 1**

Venue: Monday/Tuesday – JMDC LH103 (Group 1+2 Mon; Group 3+4 Tues) Wed-Saturday – JMCH LH 1 + LH 2

	8:30–9:20	9:25-10:15		10:45-11:35	12:00-1:30	1:30-3:00
MON March 1 Group 1+2	ANATOMY / EMBRYOLOGY Bone, Cartilage, Joint Development & Histogenesis	PHYSIOLOGY Parathyroid Hormone, Vitamin D, Calcitonin & Bone Metabolism	TEA BREAK	ANATOMY EYE Revision on Anatomy of Eye & Orbit	GROUP 1-Physiology Practical-ENT/EYE (Dry Lab) GROUP 2-Physiology Practical-ENT/EYE (Wet Lab)	RESEARCH MODULE Project Work
TUES March 2 Group 3+4	PHYSIOLOGY Classification & Role of Ca ⁺⁺ , PO ₄ , Vit D	ANATOMY / EMBRYOLOGY Long Bone Blood/Nerve Supply & Ossification		PHYSIOLOGY Bone Modelling & Remodelling	GROUP 3-Physiology Practical-ENT/EYE (Dry Lab) GROUP 4-Physiology Practical-ENT/EYE (Wet Lab)	RESEARCH MODULE Project Work
WED Mar 3	9:00-9:50	9:55-10:45	TEA BREAK	11:00-1:00	1:15-2:30	2:30-3:10
	CLINICAL PATHOLOGICAL CONFERENCE Introduction	ENT Surgical Ant, Physio, Sx & Congenital Ear Dz		CLINICAL WORK	PBL Ortho 1.1 1- Surgery-Surgery SR 2-Ob/Gyn-Ob/Gyn SR 3-Medicine-Medicine SR 4-Pediatrics-Peds SR	SELF STUDY
THURS Mar 4	ORTHOPEDICS Congenital & Developmental Anomalies	MEDICINE Parathyroid Conditions	TEA BREAK	CLINICAL WORK	PBL Ortho 1.2 1- Surgery-Surgery SR 2-Ob/Gyn-Ob/Gyn SR 3-Medicine-Medicine SR 4-Pediatrics-Peds SR	SELF STUDY
FRI Mar 5	MEDICINE Osteoporosis Osteomalacia	COMMUNITY MEDICINE Natural Disasters Management		CLINICAL WORK	SELF STUDY	
SAT Mar 6	MEDICINE Osteoarthritis	EYE Lid Abnormalities		CLINICAL WORK	1:15-2:00 SURGERY / MEDICINE Post PBL Session 1.3	SELF STUDY

END Of Clinical Posting

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