

### BDS Fourth Year Oral & Maxillofacial Surgery Study Guide

# **Introduction:**

Oral and Maxillofacial Surgery is a surgical specialty dealing with the diagnosis, surgical and adjunctive management of diseases, injuries and defects involving both the functional and esthetic aspects of the hard and soft tissues of the mouth, jaws, face and the neck region.

It is important for the student to learn basics of oral and maxillofacial surgery and acquire core skills such as performing minor oral surgical procedures independently during their academic and post academic tenure. It is crucial to recognize disease, both general and oral; dentoalveolar surgery and an understanding of the available specialist scope for appropriate referral of the patients are soundly taught.

# **Outcome:**

By the end of the course on Oral and Maxillofacial Surgery, final year BDS students will be able to manage patients with common Oral Surgery related conditions under supervision

# **Teaching and learning:**

- Flipped Classroom (FC)
- Interactive lectures (IL)
- Tutorials
  - a. Cased Based Learning (CBL)
  - b. Small Group Discussion (SGD)

## Assessment tools:

- 1. Multiple Choice Questions: ( MCQs )
  - One Correct Type
  - One Best Type
- 2. OSCE
- 3. Short Answer Questions (SAQs)
- 4. Mini Clinical Examination (MiniCEx)



s. n	Торіс	By	ourse Objectives: the end of the course, 4th year idents will be able to:	Teaching method	Assessment Tool
<b>0.</b> 1	Basic Principles of	•	Discuss the formulation of	IL	SAQs
•	Oral &		treatment plan for the patient	SGD	MCQ (1
	Maxillofacial		presenting in oral surgery on the		correct)
	Surgery		basis of history, clinical		
			examination and investigations		
		•	Identify transmissible pathogenic		
			organisms pertinent to practice of		
			oral and maxillofacial surgery		
		•	Define the aseptic techniques,		
			universal precautions and post-		
			surgical asepsis		
		•	Enlist and define the various		
			techniques of sterilization and		
			disinfection and maintenance of		
			sterility		
		•	Discuss the various types of		
			incisions and flap designs		
		•	Enlist principles of tissue		
			handling		
		•	Describe complication of		
			improper tissue handling		
		•	Explain hemostasis and various		
			means of promoting wound		
			healing		
		•	Discuss dead space management		
		•	Discuss infection control		
		•	Explain the causes of tissue		



			damage		
		•	Describe wound repair and		
			epithelialization		
		•	Define facial neuropathy of		
			traumatic origin		
		•	Describe the classifications of		
		-	nerve injury		
		•	Describe the methods of nerve		
		•	healing, tissue repair and		
			reconstruction		
2	Medical Aspects of	•	Explain how Oral and		
2	Oral Surgery	•	Maxillofacial Surgery procedures		
	Oran Surgery			IL	MCQ (1B)
			can exaggerate the pre-existing	CBL	
			medical and surgical conditions		
		•	Describe appropriate		
			prophylactic measures to be		
			taken before treatment		
		•	Diagnose dental problems in		
			medically compromised patient		
		•	Discuss management of patient		
			with the following medical		
			conditions:		
			a) Cardiovascular diseases		
			b) Respiratory diseases		
			c) Diabetes mellitus		
			d) Immunosuppression		
			<ul><li>e) Blood dyscrasias</li><li>c) B list in the second secon</li></ul>		
			f) Radiation therapy of Head		
			and Neck		
			g) Bisphosphonate-related		



		1			
			osteonecrosis of the jaw		
			h) Prosthetic Implants		
			i) Renal Diseases and transplant		
			j) Osteoporosis		
3	Anesthesia and	٠	Classify local anesthesia, general		
•	Sedation		anesthesia and sedation	FC	
		•	Describe the pharmacology of	FC SGD	MCQ (1 correct)
			local anesthesia, sedation	500	SAQ
		•	Describe pre-requisites for local		
			anesthesia, general anesthesia		
			and sedation for oral and		
			maxillofacial surgical procedures		
		•	Interpret investigations carried		
			out for administration of local		
			anesthesia, general anesthesia		
			and sedation		
		•	Discuss selection criteria for		
			patients undergoing oral and		
			maxillofacial procedures under		
			local anesthesia, general		
			anesthesia and sedation		
		•	Discuss indications and		
			contraindications of general and		
			local anesthesia and sedation		
		•	Describe mechanism of action of		
			local anesthetic and sedative		
			agents		
		•	Identify and discuss the local and		
			systemic complications pertinent		
			to local anesthesia and sedation		
L					l



			Discuss conventional and		
		•			
			specialized technique acquired		
			for administration of local		
			anesthesia		
4	Exodontia	•	Discuss the following steps as a		
•			prerequisite for tooth extraction:		MCO(1P)
			a) Pain and anxiety control		MCQ (1B) SAQ
			b) Pre surgical medical	IL	
			assessment		
			c) Clinical evaluation of teeth	CBL	
			for removal		
			d) Radiographic examination of		
			tooth for removal		
		•	Identify instruments used for:		
			a) Incising tissue		
			b) Elevating mucoperiosteum		
			c) Retracting soft tissue		
			d) Controlling hemorrhage		
			e) Grasping tissue		
			f) Removing bone		
			g) Removing soft tissue from		
			bony defects		
			h) Suturing of mucosa		
		•	Methods of mouth open during		
			different types of oral and		
			maxillofacial surgeries		
		•	Methods of improving visibility		
			of surgical area (suctioning,		
			wiping, piezo surgical		
			instruments, laser surgical		
			morramento, iuser surgicar		



<ul> <li>handling dirty and clean surgical instruments</li> <li>Preparation of a patient for surgical procedures</li> <li>Various methods and importance of Irrigation</li> <li>Identify commonly used instruments during oral and maxillofacial procedures</li> <li>Discuss the disposal of clinical waste and sharps according to recommended guidelines</li> <li>Discuss: <ul> <li>a) Indications and contraindications for removal of teeth</li> <li>b) Mechanical principles involved in tooth extractions</li> <li>c) Principles of forceps use</li> </ul> </li> <li>Describe Specific techniques for removal of each tooth</li> <li>Explain Post extraction care of tooth socket</li> <li>Discuss: <ul> <li>a) Indications/contra- indications, principles and techniques for surgical extraction</li> <li>b) Principles of flap design,</li> </ul> </li> </ul>	<b></b>	
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Discuss:     a) Indications/contra- indications, principles and techniques for surgical extraction		• Explain Post extraction care of
a) Indications/contra- indications, principles and techniques for surgical extraction		tooth socket
indications, principles and techniques for surgical extraction		• Discuss:
techniques for surgical extraction		a) Indications/contra-
extraction		indications, principles and
		techniques for surgical
b) Principles of flap design,		extraction
		b) Principles of flap design,



		development and		
		management		
		• Discuss Policy for leaving root		
		fragments		
		• Mention sequence of extraction		
		when multiple extractions have		
		to be performed		
5	Impacted Teeth	Define Impaction		
		• Classify maxillary and	IL	MCQ (1c)
		mandibular impacted teeth	SGD	
		according to standard		
		classification		
		• Discuss the indications and		
		contraindications for removal of		
		impacted teeth		
		• Describe the complicatios of		
		removal of impacted teeth		
		• Discuss preoperative and		
		postoperative patient		
		management after extraction of		
		impacted teeth		
		• Discuss the surgical procedures		
		for extraction		
		• Discuss surgical complications of		
		wisdom tooth extraction and their		
		management		
6	Maxillary Antrum	• Describe the surgical Anatomy of		
		maxillary antrum	IL	MCQ (1c)
		• Discuss management of Oro-	SGD	
		antral Fistula		
L				1



		•	List antral pathology		
7	Infections	•	Classify facial spaces		
•		•	Discuss microbiology of	IL	MCQ(1B)
			odontogenic infections	CBL	
		•	Discuss the anatomy of primary		
			and secondary spaces of head and		
			neck region.		
		•	Explain the spread of infections		
			through primary and secondary		
			spaces of head and neck region.		
		•	Discuss the sequelae of spread of		
			infections through secondary		
			spaces.		
		•	Discuss signs and symptoms,		
			diagnosis, investigations,		
			treatment and post-operative		
			management of:		
			a) Osteomyelitis		
			b) Actinomycosis		
			c) Candidiasis		
			d) Deep fungal infections		
		•	Discuss stages of progression of		
			odontogenic infections		
		•	Discuss principles of:		
			a) Prevention of infection		
			b) Management of wound		
			infection		
			c) Prophylaxis against		
			metastatic infection		
			d) Cellulitis and Ludwig's		



8.	Cysts	<ul> <li>angina         <ul> <li>e) Cavernous sinus thrombosis</li> <li>f) Prophylaxis of infective endocarditis</li> </ul> </li> <li>Discuss the classification of cysts affecting oral and maxillofacial region         <ul> <li>Describe surgical management of cysts and cyst like lesions of the oral and maxillofacial area</li> <li>f) Describe surgical management of the oral and maxillofacial area</li> </ul> </li> </ul>	MCQ (1c)
9.	Odontogenic Tumor	<ul> <li>Classify odontogenic tumors of oral and maxillofacial region</li> <li>Diagnose Odontogenic tumors on patients on the basis of clinical features</li> <li>Describe surgical management of benign lesions in oral soft tissues</li> <li>Discuss principles of surgical management of jaw tumors</li> <li>Discuss resections types and their indications in the jaw tumor</li> <li>List methods of reconstruction of jaws</li> </ul>	MCQ (1c)
1 0	Malignant Orofacial Tumors	<ul> <li>Classify odontogenic tumors of oral and maxillofacial region</li> <li>Diagnose Odontogenic tumors on patients on the basis of clinical features</li> <li>Describe surgical management of benign lesions in oral soft tissues</li> </ul>	MCQ (1c)



		•	Discuss principles of surgical		
			management of jaw tumors		
		•	Discuss resections types and their		
			indications in the jaw tumor		
		•	List methods of reconstruction of		
			jaws		
		•	Discuss Principles of		
			management of malignant		
			orofacial tumors		
		•	Discuss examination and		
			diagnostic methods of orofacial		
			pathology		
		•	Discuss principles and soft		
			tissue/hard tissue biopsy		
			techniques		
		•	Describe dental management of		
			patients undergoing radiotherapy		
			and chemotherapy to head and		
			neck region		
		•	Classify the different types of		
			flaps used for reconstruction in		
			maxillofacial region		
1	Salivary Gland	•	Discuss anatomy, physiology and		
1	Diseases		pathology of salivary glands		MCQ (1c)
•		•	Enlist and discuss Diagnostic	SGD	
			modalities for salivary gland		
			disorders		
		•	Discuss signs and symptoms,		
			diagnosis, investigations,		
			treatment and post-operative		
				•	



		ma	nagement of:		
		a)	Obstructive salivary gland		
			disease		
		b)	Mucous retention and		
			extravasation cyst		
			phenomenon		
		c)	Salivary gland infections		
		d)	Neoplasia of salivary gland		
		e)	Congenital diseases of		
			salivary gland		
1	TMJ Disorders	• Des	scribe anatomy of		
2		Ter	mporomandibular joint.	TT	MCQ (1c)
•		• Cla	assify of TMJ disorders	IL SGD	
		• Ide	ntify sign and symptoms of	502	
		TM	1J disorders		
		• Eva	aluate a patient with TMJ		
		dis	order		
		• For	rmulate a management plan for		
		pat	ient presenting with TMJ		
		dise	orders		
		• Dis	scuss signs and symptoms,		
		dia	gnosis, investigations,		
		trea	atment and post-operative		
		ma	nagement of:		
		a)	Temporomandibular Pain		
			Dysfunction Syndrome		
		b)	TMJ ankylosis		
		c)	Internal disc derangement of		
			TMJ		
		d)	Dislocation and subluxation		



		of TMJ		
1 3	Pre-Prosthetic Surgery	<ul> <li>Identify the objectives of pre- prosthetic surgery</li> <li>Discuss the principles of patient</li> </ul>	IL SGD	MCQ (1c)
		<ul> <li>evaluation and treatment planning</li> <li>Explain re-contouring the alveolar ridges</li> <li>List and describe soft tissue and hard tissue abnormalities</li> <li>Describe mandibular and maxillary ridge augmentation</li> <li>Discuss the correction of abnormal ridge relationships</li> </ul>		
		<ul> <li>Explain Biologic considerations for osseo-integration</li> <li>Describe dental implant components</li> <li>Identify Implant prosthetic options</li> <li>Discuss pre-operative evaluation of implant patient</li> <li>Describe surgical phase: Treatment Planning</li> <li>List basic surgical techniques</li> <li>Discuss complications.</li> </ul>		
1 4	Facial Pain	<ul> <li>Classify Orofacial pain</li> <li>Evaluate patients presenting to the OPD with orofacial pain</li> <li>Discuss the neurophysiology of</li> </ul>	IL SGD	MCQ (1B)



1 5	Cleft Lip and Palate		IL MCQ (1B) GD
1 6	Orthognathic Surgery	<ul> <li>Discuss the evaluation of patient for orthognathic surgery.</li> <li>Classify orthognathic skeletel</li> </ul>	IL GD MCQ (1c)



1 7	Surgical Endodontics	<ul> <li>Discuss principles of surgical endodontics</li> <li>Describe management of periapical pathology</li> </ul>	IL SGD	MCQ (1c)
1 8 .	Radiology	<ul> <li>Discuss and describe different types of conventional radiographs (Intra Oral and Extra Oral)</li> <li>List indications of different types of specialized imaging modalities -Computerized Tomography Scan, Cone Beam Computerized Tomography, Magnetic Resonance Imaging, Ultrasound, Positron Emission Tomography CT, Sialogram, Angiogram, Scintigraphy</li> </ul>	IL SGD	MCQ (1B)
1 9	Maxillofacial Trauma	<ul> <li>Evaluation of patients with facial trauma</li> <li>Discuss ABCDE of emergency management (Primary and secondary survey)</li> <li>Discuss: <ul> <li>a) Soft and hard tissue injuries</li> <li>b) Dentoalveolar injuries</li> </ul> </li> <li>Classify mandibular fractures</li> <li>Discuss <ul> <li>a) Etiology, sign and symptoms and management of</li> </ul> </li> </ul>	IL CBL	MCQ (1B)



mandibular fractures
b) Management of edentulous
atrophic mandibular fracture
c) Management of mandibular
fracture in children
Discuss complications of
mandibular fractures
Classify Zygomatic Complex
(ZMC) fractures
Discuss causes, signs, symptoms
and investigations for ZMC
fractures
Discuss management options &
complications of ZMC fracture
Describe anatomy of orbit
Classify Orbital and Nasal
fractures
Discuss causes, signs, symptoms
and management of orbital and
nasal fractures
Discuss complication of orbital
and nasal fractures
Classify Mid-face fractures
Discuss causes, signs, symptoms
and management of mid face
fractures
• Discuss the complication of mid
face fracture



	method	Tool
1       Psychomotor       Demonstrate:         skills       • selection handling and correct use of:       -Dental elevators         -Extraction forceps       • physical examination on patients presenting in the OPD         • effective administration of local anesthesia (infiltration/Nerve block)       • Correct chair position for forceps extraction         • Procedure of open and closed extraction       • technique for open extraction of single, multi rooted teeth and removal of small fragments         • procedure for reduction of dislocated TMJ       • BLS         Examine       • TMJ         • TMJ       • muscles of mastication         • Cranial Nerves (Facial and Trigeminal)       • Cranial Nerves (Facial and Trigeminal)	C.Demo SGD	OSCE MiniCex



			<ul> <li>Measure Blood Pressure and Pulse rate.</li> <li>Perform culture and sensitivity test</li> </ul>		
2	Patient Safety and infection control	•	Demonstrate aseptic technique on patients during dental surgery Demonstrate the method of hand washing, scrubbing, gloving and gowning Choose relevant investigations for safe administration of local anesthesia, general anesthesia and sedation	C.Demo	OSCE MiniCex
3	Communication skills	•	tain a comprehensive medical and surgical history of patients presenting to the OPD a comprehensive medical history of patients undergoing oral and maxillofacial procedures under local anesthesia, general anesthesia and sedation informed /written consent from patients attending dental OPD for oral and maxillofacial procedures under local anesthesia, general anesthesia and sedation	C.Demo	OSCE MiniCex



		•	Prescribe relevant investigation		
			and medications for patients		
			with TMJ disorders		
		Write			
		•	a standardized prescription		
		•	operative notes for patient		
			records		
		•	a referral letter to consultant.		
		•	a referral letter for biopsy		
		•	a note to laboratory for		
			sensitivity and resistance of		
			antibiotics.		
4	Counselling	Co	ounsel patient	C.Demo	OSCE
		•	for the extraction of wisdom		MiniCex
			tooth under General Anesthesia.		
		•	with Oral Submucous Fibrosis		
			on betel nut chewing.		
		•	with transient facial nerve palsy		
			after local anesthesia.		
		•	gone through major surgery/		
		•	Break the bad news.		
5	Models	•	Fabricate eyelets.	C.Demo	OSCE
	Practical's	•	Place eyelets and arch bars on		MiniCex
			models.		
		•	Perform maxilla-mandibular		
			fixation on models.		
		•	Perform suturing on models		
			(interrupted, figure of 8 and		
			mattress)		
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## **Reading Sources:**

## Text Books:

- Contemporary oral and maxillofacial surgery Latest edition
- Local anesthesia in dentistry Geoffrey L Howe
- Killey's Fracture of the middle third of the facial skeleton
- Killey's Fracture of the mandible

**Internet resources:** With easy excess to digital library students will use internet resources with added time flexibility to enrich and update their knowledge and its application.

**Library:** It provides wealth of resources, space to study alone or in a group. It also provide world of books to discover and borrow.

## <u>Assessment Criteria :</u>

**Knowledge:** MCQs (Multiple Choice Questions) are used to asses objectives covered in each module.

- A MCQ has a statement or clinical scenario followed by four options (likely answer).
- Students after reading the statement/scenario select ONE, the most appropriate response from the given list of options.
- Correct answer carries one mark, and incorrect 'zero mark'. There is no negative marking.
- Students mark their responses on an answer sheet provided by examination department.

## Skills:

- OSCE: Objective Structured Clinical Examination:
- Each student will be assessed on the same content and have same time to complete the task.
- Comprise of 12-25 stations.
- Each station may assess a practical tasks include practical skills and application of knowledge
- Stations are observed, interactive, application of knowledge based and rest.



- In Observed and Interactive Stations these will be assessed by internal or external examiners through structured viva or a task.
- Application of knowledge Stations: it will be static stations in which there will be pictures, clinical scenarios with related questions for students to answer on the provided answer copy.
- Rests: It is a station where there is no task given and in this time student can organize his/her thoughts.

# AIDM Internal Assessment Policy

Students will be assessed to determine achievement of learning objectives through the following:

- Midterm Examination will be scheduled on completion of half of the course and OPD rotations
- Mock Examination will be scheduled on completion of whole course and OPD rotations
- The method of examination comprises theory exam which includes MCQs, and practical examination by OSCE (Objective Structured Clinical Examination).
- Student's behaviors and attitudes will be observed during all academic activities.

## **Annual Examination:**

- Marks of both internal assessments will constitute 20% weightage as per JSMU policy.
- University Annual examination carries 90% marks. Theory exam will be based on MCQs and Clinical / Professional /communication skills will be assessed by OSCE.

<u>Attempts:</u> There are 2 attempts in the fourth professional examination only.  $2^{nd}$  attempt is the supplementary examination which if not passed student has to repeat the year.

## **Course Evaluation:**

- Pass/fail ratio of continuous and summative assessments will be evaluated.
- 75% attendance is mandatory to be eligible for annual professional examination



- Feedback will be taken
  - Regarding course from students and faculty
  - Student feedback regarding faculty
  - Faculty feedback of students

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