STUDY GUIDE DEPARTMENT OF ORAL SURGERY

Prof. Dr. Zahur Qayyum WOMEN DENTAL COLLEGE

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STUDY GUIDE FINAL YEAR BDS ORAL SURGERY DEPARTMENT

Description: Overview:

Program	Bachelor of Dentistry
Course Name	Final year BDS-Oral Surgery
Contact Hours	Clinicals:260
	Lectures:90
Infrastructure Requirements	Lecture Hall
	Clinical Ward

Faculty Responsible for Course Conduction:

Sr. No	Faculty	Designation
1.	Prof. Dr. Zahur Qayyum	Head of department
2.	Dr. Akif Mehmud	Associate Professor
3.	Dr. Maria Iftikhar Khan	Lecturer
4.	Dr. Syed Haris Ali Shah	Lecturer

Details Of Supporting Staff:

Sr. No	Staff	Designation
1.	Dr. Qandeel Bashir	ТМО

Details Of Other Supporting Staff:

Sr. No	Staff	Designation
1.	Sohail Ahmed	DSA
2.	Ramish khan	DSA
3.	Tahira Khatoon	DSA

CURRICULUM OBJECTIVES AND TEACHING STRATEGY ORAL SURGERY FINAL YEAR BDS

S. Mode of Teaching Lecture Intended learning outcomes Assessment No Lectures Clinical Topic hrs hrs (ILOs) Discuss a Developing surgical diagnosis Introduction Explain Basic necessities for History. surgery 2 5 Diagnosis Define & follow Aseptic and treatment technique planning **Discuss Communicable** Pathogenic organisms o Bacteria • Viral organisms • Mycobacterial organism Discuss • Aseptic techniques & universal precautions Sterilizatio Any one form of 8 Techniques of instrument 0 2 n. assessment sterilization (instruments Ouiz Techniques of instrument 0 and Class Test disinfection armamentari 1 Class Maintenance of sterility um) 0 Participation Operating disinfection Individual • Surgical staff Preparation Assignment • Post surgical Asepsis Group Test **Describe Incisions** Incision. Flap Describe Flap design 6 design and 2 • Prevention of flap necrosis tissue Prevention of flap 0 handling dehiscence Prevention of flap tearing 0 Describe Tissue handling Haemostasis 4 **Describe Hemostasis** management 1 s of promoting wound and suturing hemostasis Dead space management

COURSE TOPIC:

Basic Principals of Oral Surgery

Post operative care, nutrition, prevention of infection	Describe Decontamination & debridement Describe Edema control Discus Patient general health & nutrition	1	4	2
Wound healing (soft tissue and hard tissue)	Describe Wound repair Causes of tissue damage • Epithelialization Stages of Wound healing Discus Surgical Significance of Wound Healing concepts Define Facial Neuropathy of traumatic origin List the classifications of Nerve Injury Discuss Nerve healing	2	8	

Medical Aspects of Oral Surgery

S.	Lecture		Mode of Teaching Assessment	Assessment	
No	Τορίς	Intended learning outcomes (ILOs)	Lectures Hrs	Clinicals Hrs	
2	Prevention and Management of Medical Emergencies	Discuss Medical History. Explain Physical Examination. Identify situation which can exaggerate the pre existing Medical condition Enlist appropriate preventive measure before treatment	3	5	Any one form of assessment - Quiz - Class Test - Class Participation - Individual Assignment Group Test
	Management of Medically compromise d patient	Diagnose Dental problems in Medically compromise patient Collect informed /Written consent Discuss Management of Patient with Compromising Medical Condition. Enlist prescribed Medication for pregnant & postpartum patients after treatment.	3	5	

Anesthesia & Sedation

S. No	Lecture Topic	Intended learning outcomes (ILOs)	Mode of Teaching		Assessment
	Introduction, types (local, general & sedative anesthesia)	Classify Anesthesia Describe different type of Anesthetic solution used in dentistry	2	4	Any one form of assessment • Quiz • Class Test • Class
3	Preoperative assessment (for local & General anesthesia)	.Interpret investigation for GA fitness Select patient for GA Describe Mechanism of LA	2	5	Participation Individual Assignment Group Test
	Indication and contraindication of (LA & GA).	1. Discuss indication & contraindication of Anesthesia	2	4	
	Administration and technique (complication)	1. Explain conventional & specialized technique of LA	2	6	

Exodontia

S. No			Mode of Teaching		Assessment	
	Clinical and radiographic evaluation of teeth for removal	Discuss pain & Anxiety control Discuss Presurgical Medical Assessment Discuss Clinical evaluation of teeth for removal Discuss Radiographic examination of tooth for removal Describe patient & surgeons preparation	2	8	Any one form of assessment Quiz Class Test - Class Participation	
4	Principles of use of instruments	Describe instruments for incising tissue Describe instruments for elevating mucoperiosteum Describe instrument for retracting soft tissue Describe instruments for controlling hemorrhage Describe instruments for grasping tissue Describe instruments for removing bone Describe instruments for removing soft tissue from bony defects Describe instruments for suturing mucosa Describe instruments for holding mouth open Describe instruments for providing suction Describe instruments for providing suction Describe instruments for holding towel & drapes in position Describe instruments for irrigation	2	10	- Assignment - Group Test	

	Describe Dental elevators		
	Describe extraction forceps		
	Discuss instrument tray system		
Non surgical	List the Indications for removal of teeth	2	8
extraction.	List Contraindications for the removal		
extraction.	of teeth		
	Explain Chair position for Forceps extraction		
	Explain mechanical principles involved in tooth extractions		
	Explain principles of forceps use		
	Describe procedure for closed		
	extraction		
	Discuss specific techniques for removal		
	of each tooth		
	Describe post extraction care of tooth		
	socket		
Surgical	Discuss principles of flap design,	2	8
extraction.	development and management		
	Design parameters for soft tissue flaps		
	Types of mucoperiosteal flaps		
	Principles of suturing		
	Explain Principles and		
	techniques for surgical		
	extraction		
	Enlist Indications for surgical extraction		
	Technique for open extraction of		
	single- rooted tooth		
	Explain Technique for		
	surgical removal of		
	multirooted teeth		
	Removal of small root fragments and		
	root tips		

		7
v) Policy for leaving root fragments.		
Discuss Multiple extractions		
Treatment planning Extraction sequencing Technique for multiple extractions		

COURSE TOPIC: Impacted Teeth

S. No	Lecture Topic Definition, Assessment & evaluation of impacted teeth	Intended learning outcomes (ILOs)Definition, Assessment & evaluation ofDefine Impaction List the indications & contraindications for removal of impacted teeth	Mode of Teaching		Assessment
			2	4	Any one form of assessment · Quiz · Class Test - Class
	Indication contraindication & type of impaction	Describe Root Morphology Discuss Modifications of Classification system for maxillary impacted teeth. Discus the difficulty of removal of other impacted teeth	1	4	 Participation Individual Assignment Group Test
	Techniques of removal &	Describe surgical procedures Discuss preoperative patient management	2	3	
5	Post-operative management and complications	Describe control of postoperative bleeding Describe control of postoperative pain and discomfort Discuss postoperative follow up visit Describe operative notes for the records Describe prevention of complication Explain soft tissue injuries Discuss complications with the tooth being extracted Discuss injuries to the adjacent teeth Discuss injuries to osseous structures Describe oroantral communications Describe post operative bleeding Describe delayed healing and infection Describe fractures of the mandible	3	6	

Infections

S. No	Lecture Topic	Intended learning outcomes (ILOs)	Mode Teach		Assessment
	Acute infection Chronic	Explain microbiology of odontogenic infections Classify spaces of infection Explain Fascial space infections Explain mandibular spaces Explain osteomyelitis Explain actinomycosis Explain candidosis	3	5	Any one form of assessment Quiz Class Test - Class Participation Individual Assignment Group Test
6	Spread of infection.	Discuss natural history of progression of odontogenic infections	1	4	
	Principles of management of infection	Explain principles of therapy of odontogenic infections Explain principles of prevention of infection Explain principles of prophylaxis of wound infection Explain principles of prophylaxis against metastatic infection	2	5	

Cysts

S. No	Lecture Topic	Intended learning outcomes (ILOs)	Mode Teac		Assessment
7	Diagnosis and management of cyst	Discuss Basic surgical goals Describe Surgical management of cysts and cyst like lesions of the jaws.	1	5	Any one form of assessment - Quiz - Class Test - Class Participation - Individual - Assignment - Group Test

COURSE TOPIC: Od

Odontogenic tumour

S. No	Lecture Topic	Intended learning outcomes (ILOs)	Mode	e of Teaching	Assessment
8	Diagnosis and management	Identify Odontogenic tumors Describe Surgical Management of benign lesions in oral soft tissues Discuss Principles of surgical management of jaw tumors	2	5	Any one form of assessment Quiz Class Test - Class Participation Individual Assignment Group Test
	Resection	Enlist type of resections & their indications in the jaw tumor Explain Reconstruction of jaws after removal of oral tumors	2	5	

S. No	Lecture Topic Intended learning outcomes (ILOs)	Mode of Teaching		Assessment	
	Clinical features. Investigation & diagnosis of cancer.	Discuss Principles of surgical management of jaw tumors	1	4	Any one form of assessment Quiz Class Test - Class Participation
9	Principles of differential diagnosis & Biopsy.	Discuss examination and diagnostic methods Discuss Principles of biopsy Describe soft tissue biopsy technique and surgical principles Describe intraosseous or hard tissue biopsy technique and surgical principles Discuss referral for biopsies	2	4	Participation Individual Assignment Group Test
	Management (surgery, radiotherapy & chemotherapy)	Describe dental management of patients undergoing radiotherapy to head and neck Describe dental management of patients on systemic chemotherapy for malignant disease.	2	4	_
	Reconstruction principles	Classify the Mucosal Flaps use for reconstruction Describe basic reconstructive principles	2	4	

Salivary gland disease

S. N O	Lecture Topic	Intended learning outcomes (ILOs)	Mode	of Teaching	Assessment
	Salivary gland infection, obstructive disease & tumors.	Discuss Embryology, Anatomy and Physiology Discuss Diagnostic Modalities Describe obstructive salivary gland disease	1	4	Any one form of assessment Quiz Class Test - Class
10	Clinical features, investigation & management of salivary gland disorders.	Discuss Mucous retention and extravasation phenomenon Describe salivary gland infections Describe Necrotizing sialometaplasia Describe sjogren's syndrome Discuss traumatic salivary gland injuries Describe salivary gland disorders	2	5	 Participation Individual Assignment Group Test

TMJ disorders

S. N O	Lecture Topic	Intended learning outcomes (ILOs)	Mod Teac		Assessment
11	Classification of TMJ disorders.	 Discuss Evaluation List classification of temporomandibular disorders 	1	5	Any one form of assessment Quiz Class Test
	Clinical features, investigation & treatment modalities.	Identify sign & symptoms Prescribed relevant investigation Discuss different treatment options 4. Explain permanent occlusion modification 5. Explain temporomandibular joint surgery 6. Advised follow up	2	6	- Class Participation Individual Assignment Group Test

Pre-Prosthetic Surgery

S. N o	Lecture Topic	Intended learning outcomes (ILOs)	Mode	of Teaching	Assessment
12	Correction of soft & hard tissue abnormities	Explain objectives of preprosthetic surgery Discuss principles of patient evaluation and treatment planning Describe recountouring the alveolar ridges Describe tori removal Describe soft tissue abnormalities Define immediate dentures Describe overdenture surgery Explain mandibular augmentation Explain maxillary augmentation Describe soft tissue surgery for ridge extension of the mandible Describe soft tissue surgery for maxillary ridge extention Explain correction of abnormal ridge relationships	2	12	Any one form of assessment Quiz Class Test - Class Participation Individual Assignment Group Test
	Dental implants	Discuss Biologic considerations for osseointegrationList clinical implant componentsDiscuss implant prosthetic optionsDiscuss preoperative medical evaluation of implant patientDescribe surgical phase: treatment planningExplain basic surgical techniquesDiscuss complications Describe advanced surgical techniques Discuss special situations	2	12	

Facial pain

S. N o	Lecture Topic	Intended learning outcomes (ILOs)	Mode	of Teaching	Assessmen t
13	Diagnosis and management of Orofacial pain	1. Discuss Basics of pain neurophysiology List classification of orofacial pains Discuss neuropathic facial pains Describe Chronic headache Discuss other Chronic head pains of dental interest Discuss Evaluation of the orofacial pain patients	2	4	Any one form of assessment Quiz Class Test - Class Participatio n Individual Assignment - Group Test
	Clinical evaluation and management of trigeminal neuralgia.	 Describe sign & symptoms Take complete history Discuss management option 	1	4	

Oro- facial neuropathies

S N o	Lecture Topic	Intended learning outcomes (ILOs)	Mod Teac		Assessment
1 4	Diagnosis and management of facial palsy.	 Identify causes of facial nerve pathology Discuss management for facial palsy 	1	3	Any one form of assessment - Quiz Class Test Class Participatio n - Individual - Assignment - Group Test

Cleftlip and palate

S N 0	Lecture Topic	Intended learning outcomes (ILOs)	Mod Teac		Assessment
1 5	Management of cleft lip and palate patients	1. Describe embroyology Discuss causative factors Discuss problems of the cleft afflicted indivisual Explain treatment of cleft lip and palate Describe dental needs of cleft afflicted indivisuals		4	Any one form of assessment Quiz Class Test - Class Participation - Individual - Assignment - Group Test

Orthognathic surgery.

S N o	Lecture Topic	Intended learning outcomes (ILOs)	Mod Teac		Assessment
1 6	Objectives & principles of management of Orthognathic surgery.	 Classify orthognathic procedure Evaluate patient for Orthognathic surgery Enlist the procedure to correct jaw abnormality 	1	4	Any one form of assessment - Quiz Class Test Class Participation - Individual - Assignment - Group Test

Surgical Endodontics

S N 0	Lecture Topic	Intended learning outcomes (ILOs)	Mode Teachi		Assessment
17	Indication and technique (surgical Endodontics)	1. Describe drainage of an abscess Define Periapical surgery Define Corrective surgery Describe Healing Discuss recall Discuss adjuncts Discuss when to consider referral	2	6	Any one form of assessment Quiz Class Test - Class Participation Individual Assignment - Group Test

COURSE TOPIC: Maxillofacial trauma

S N o	Lecture Topic	Intended learning outcomes (ILOs)	Mode Teach		Assessment
	BLS and ATLS.	Discuss evaluation of patients with facial trauma Describe & Demonstrate BLS &ATLS Knows ABCDE	2	5	Any one form of assessment Quiz Class Test - Class Participation
1 8	Traumatic injuries of teeth Management of soft tissue injuries.	Describe soft tissue injuries Describe dentoalveolar injuries	3	3	Individual Assignment Group Test
	Management of mandibular fractures	Discuss causes, classification ,sign & symptoms & Management of mandibular fractures Identify complication of mandibular fracture	3	5	
	Clinical features, investigation & manage of ZMC	Discuss causes, classification ,sign & symptoms & Management of ZMC fractures Prescribed appropriate radiograph Identify complication of ZMC fracture	2	6	
	Nasal & Orbital fractures.	Describe anatomy of orbit Discuss causes, classification ,sign & symptoms & Management of Orbital & Nasal fractures Identify complication of Orbital & Nasal fracture	2	6	
	Mid face fracture.	Discuss causes, classification ,sign & symptoms & Management of midface fractures Identify complication of midface fracture	2	6	

TOTAL	90 Lecturers	260 clinicals

Learning Resources:

Contemporary Oral and Maxillofacial Surgery

by James R. Hupp, Edward Ellis III, Myron R. Tucker 7th Edition

Additional Learning Resources:

Hands on	Demonstrations
Videos	YouTube

Assessment Methods:

MCQs: Multiple Choice questions; Single best Type OSPE/OSCE: Objective Structured Practical/Clinical examination Presentation: Multiple Choice Questions:

- 1. Single best type MCQs having five options with one correct answer and four distractors are part of assessment.
- 2. Correct answer carries one mark, and incorrect will be marked zero. Rule of negative marking is not applicable.
- 3. Students mark their responses on specified computer-based designed sheet.

Objective Structured Practical/Clinical Examination

- 1. Nine OSCE stations are used for formative as well as summative assessment.
- 2. Time allocated for each station is five minutes as per Examination rules of Khyber Medical University, Peshawar.
- 3. All students are rotated through the same stations.
- 4. Stations used are unobserved, observed, interactive and rest stations.
- 5. On unobserved stations radiographs, flowcharts, case scenarios may be used to assess cognitive domain.
- 6. On observed station, examiners don't interact with candidate and just observe the performance of skills /procedures.
- 7. On interactive station, examiner ask questions related to the task within the allocated time.
- 8. On rest station, students are not given any task. They just wait to move to the next station.

Presentation:

Students are given topics for presentation either individually or in groups. They are encouraged to prepare presentations on power point to enhance their understanding of the topic.

Internal Assessment Criteria:

- 1. 10% weightage of Internal Assessment in professional exam is policy of Khyber Medical University.
- 2. This Internal Assessment will comprise of following components.
- a) Attendance
- b) Class presentations
- c) Monthly tests
- d) Midterms
- e) Pre-Prof

Examination Rules & Regulations:

- 1. One class test of the subject may be held monthly, marks of which will be included in internal assessment. Marks for class test can vary according to syllabus and teachers' choice.
- 2. Mid-Term exam comprising 45 MCQs of single best type and 45 marks SEQs will be held in the middle of the session.
- 3. Pre-prof Exam comprising 45 MCQs of single best type and 45 marks SEQs will be conducted at the end of session before prep leaves.
- 4. The pattern of class tests, Mid-term & Pre-prof will be same as the Professional Exam taken by Khyber Medical University, Peshawar.
- 5. OSPEs will be conducted at the end of Mid-term & pre-prof Exam.

Model Questions:

Multiple Choice Question

Question: While Extracting a mandibular 3rd molar, it is noted that the distal root is missing. The root tip is likely in the

- a. Submental Space
- b. Submandibular Space
- c. Para pharyngeal space
- d. Pterygomandibular Space
- e. Infratemporal Space

Correct option is B.

Reference: Contemporary Oral & Maxillofacial Surgery by James R. Hupp, Edward Ellis III, Myron R. Tucker- 7th Edition

Short Answer Question:

Question: The first step in the management of head injury

- a. Secure Airway
- b. IV mannitol
- c. IV Dexamethasone
- d. Blood transfusion
- e. Monitor Vitals

Answer: a) Secure Airway

Reference: Contemporary Oral & Maxillofacial Surgery by James R. Hupp, Edward Ellis III, Myron R. Tucker- 7th Edition

Suggestions For Next Academic Year:

- Students should be encouraged to read latest topics from list provided by American Board of Orthodontics.
- Article writing should be encouraged for students.
- Sessions of career counselling should be arranged for students.
- Students should be encouraged to attend workshops, to participate in different poster competitions at different forums.