

Sindh Institute of Oral Health Sciences

CURRICULUM ORAL SURGERY

Jinnah Sindh Medical University

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CURRICULUM OBJECTIVES AND TEACHING STRATEGY
ORAL SURGERY
FINAL YEAR BDS

1

COURSE TOPIC: Basic Principles of Oral Surgery

S. No	Lecture Topic	Topic Objectives	Mode of Teaching		Assessment
			Lectures	Clinical	
1	Introduction History. Diagnosis and treatment planning	<ul style="list-style-type: none"> • Discuss Developing a surgical diagnosis • Explain Basic necessities for surgery • Define & follow Aseptic technique • Discuss Communicable Pathogenic organisms <ul style="list-style-type: none"> ○ Bacteria ○ Viral organisms ○ Mycobacterial organism 	1	Practical demonstration during surgical rotation	Any one form of assessment - Quiz - Class Test - Class Participation - Individual Assignment - Group Test
	Sterilization. (instruments and armamentarium)	<ul style="list-style-type: none"> • Discuss Aseptic techniques & universal precautions <ul style="list-style-type: none"> ○ Techniques of instrument sterilization ○ Techniques of instrument disinfection <ul style="list-style-type: none"> ○ Maintenance of sterility ○ Operating disinfection ○ Surgical staff Preparation ○ Post surgical Asepsis 	1		
	Incision. Flap design and tissue handling	<ul style="list-style-type: none"> • Describe Incisions • Describe Flap design <ul style="list-style-type: none"> ○ Prevention of flap necrosis ○ Prevention of flap dehiscence ○ Prevention of flap tearing 	1		
	Haemostasis management and suturing	<ul style="list-style-type: none"> • Describe Tissue handling • Describe Hemostasis <ul style="list-style-type: none"> ○ Means of promoting wound hemostasis ○ Dead space management 	1		
	Post operative care, nutrition, prevention of infection	<ul style="list-style-type: none"> • Describe Decontamination & debridement <ul style="list-style-type: none"> • Describe Edema control • Discus Patient general health & nutrition 	1		
	Wound healing (soft tissue and hard tissue)	<ul style="list-style-type: none"> • Describe Wound repair <ul style="list-style-type: none"> ○ 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 <ul style="list-style-type: none"> • Discuss Nerve healing 	1		

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COURSE TOPIC: Medical Aspects of Oral Surgery

S. No	Lecture Topic	Topic Objectives	Mode of Teaching		Assessment
2	Prevention and Management of Medical Emergencies	<ul style="list-style-type: none"> • Discuss Medical History. • Explain Physical Examination. • Identify situation which can exaggerate the pre existing Medical condition • Take appropriate preventive measure before treatment 	5	Practical demonstration during surgical rotation	Any one form of assessment - Quiz - Class Test - Class Participation - Individual - Assignment - Group Test
	Management of Medically compromised patient	<ul style="list-style-type: none"> • Diagnose Dental problems in Medically compromise patient • Obtain informed /Written consent • Discuss Management of Patient with Compromising Medical Condition. • Prescribed Medication for pregnant & postpartum patients after treatment. 	4		

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COURSE TOPIC: Anesthesia & Sedation

S. No	Lecture Topic	Topic Objectives	Mode of Teaching		Assessment
3	Introduction, types (local, general & sedative anesthesia)	<ol style="list-style-type: none"> 1. Classify Anesthesia 2. Describe different type of Anesthetic solution used in dentistry 	1	Practical demonstration during surgical rotation	Any one form of assessment - Quiz - Class Test - Class Participation - Individual - Assignment - Group Test
	Preoperative assessment (for local & General anesthesia)	<ol style="list-style-type: none"> 1. Interpret investigation for GA fitness 2. Select patient for GA 3. Describe Mechanism of LA 	2		
	Indication and contraindication of (LA & GA).	<ol style="list-style-type: none"> 1. Discuss indication & contraindication of Anesthesia 	2		
	Administration and technique (complication)	<ol style="list-style-type: none"> 1. Explain conventional & specialized technique of LA 	2		

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COURSE TOPIC: Exodontia

S. No	Lecture Topic	Topic Objectives	Mode of Teaching		Assessment
4	Clinical and radiographic evaluation of teeth for removal	<ol style="list-style-type: none"> 1. Discuss pain & Anxiety control 2. Discuss Presurgical Medical Assessment 3. Discuss Clinical evaluation of teeth for removal 4. Discuss Radiographic examination of tooth for removal 5. Describe patient & surgeons preparation 	1	Practical demonstration during surgical rotation	Any one form of assessment - Quiz - Class Test - Class Participation - Individual
	Principles of use of instruments	<ol style="list-style-type: none"> 1. Describe instruments for incising tissue 2. Describe instruments for elevating mucoperiosteum 3. Describe instrument for retracting soft tissue 4. Describe instruments for controlling hemorrhage 5. Describe instruments for grasping tissue 6. Describe instruments for removing bone 7. Describe instruments for removing soft tissue from bony defects 8. Describe instruments for suturing mucosa 9. Describe instruments for holding mouth open 10. Describe instruments for providing suction 11. Describe instruments for transferring sterile instruments 12. Describe instruments for holding towel & drapes in position 13. Describe instruments for irrigation 	1		- Assignment - Group Test

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	<p>14. Describe Dental elevators</p> <p>15. Describe extraction forceps</p> <p>16. Discuss instrument tray system</p>			
Non surgical extraction.	<p>1. List the Indications for removal of teeth</p> <p>2. List Contraindications for the removal of teeth</p> <p>6. Explain Chair position for Forceps extraction</p> <p>7. Explain mechanical principles involved in tooth extractions</p> <p>8. Explain principles of forceps use</p> <p>9. Describe procedure for closed extraction</p> <p>10. Discuss specific techniques for removal of each tooth</p> <p>11. Describe post extraction care of tooth socket</p>	1		
Surgical extraction.	<p>1. Discuss principles of flap design, development and management</p> <p style="padding-left: 40px;">i) Design parameters for soft tissue flaps</p> <p style="padding-left: 40px;">ii) Types of mucoperiosteal flaps</p> <p style="padding-left: 40px;">iii) Principles of suturing</p> <p>2. Explain Principles and techniques for surgical extraction</p> <p style="padding-left: 40px;">i) Indications for surgical extraction</p> <p style="padding-left: 40px;">ii) Technique for open extraction of single-rooted tooth</p> <p style="padding-left: 40px;">iii) Technique for surgical removal of multirrooted teeth</p> <p style="padding-left: 40px;">iv) Removal of small root fragments and root tips</p>	1		

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		v) Policy for leaving root fragments.			
		3. Discuss Multiple extractions			
		i) Treatment planning			
		ii) Extraction sequencing			
		iii) Technique for multiple extractions			

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COURSE TOPIC: Impacted Teeth

S. No	Lecture Topic	Topic Objectives	Mode of Teaching		Assessment
5	Definition, Assessment & evaluation of impacted teeth	<ol style="list-style-type: none"> 1. Define Impaction 2. List the indications & contraindications for removal of impacted teeth 3. Explain the Classification system of impacted teeth 4. Describe Root Morphology 5. Discuss Modifications of Classification system for maxillary impacted teeth. 6. Discuss the difficulty of removal of other impacted teeth 7. Describe surgical procedures 8. Discuss preoperative patient management 9. Describe control of postoperative bleeding 10. Describe control of postoperative pain and discomfort 11. Discuss postoperative follow up visit 12. Describe operative notes for the records 13. Describe prevention of complication 14. Explain soft tissue injuries 15. Discuss complications with the tooth being extracted 16. Discuss injuries to the adjacent teeth 17. Discuss injuries to osseous structures 18. Discuss injuries to adjacent structures 19. Describe oroantral communications 20. Describe post operative bleeding 21. Describe delayed healing and infection 22. Describe fractures of the mandible 	2	Practical demonstration during surgical rotation	Any one form of assessment - Quiz - Class Test - Class Participation - Individual - Assignment - Group Test
	Indication contraindication & type of impaction		1		
	Techniques of removal &		2		
	Post-operative management and complications		1		

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COURSE TOPIC: Infections

S. No	Lecture Topic	Topic Objectives	Mode of Teaching		Assessment
6	Acute infection	<ol style="list-style-type: none"> 1. Explain microbiology of odontogenic infections 2. Classify spaces of infection 3. Explain Fascial space infections 4. Explain mandibular spaces 5. Explain osteomyelitis 6. Explain actinomycosis 7. Explain candidosis 	1	Practical demonstration during surgical rotation	Any one form of assessment - Quiz - Class Test - Class Participation - Individual - Assignment - Group Test
	Chronic		1		
	Spread of infection.	<ol style="list-style-type: none"> 1. Discuss natural history of progression of odontogenic infections 	1		
	Principles of management of infection	<ol style="list-style-type: none"> 1. Explain principles of therapy of odontogenic infections 2. Explain principles of prevention of infection 3. Explain principles of prophylaxis of wound infection 4. Explain principles of prophylaxis against metastatic infection 	2		

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COURSE TOPIC: Odontogenic tumour

S. No	Lecture Topic	Topic Objectives	Mode of Teaching		Assessment
8	Diagnosis and management	<ol style="list-style-type: none"> 1. Identify Odontogenic tumors 2. Describe Surgical Management of benign lesions in oral soft tissues 3. Discuss Principles of surgical management of jaw tumors 	1	Practical demonstration during surgical rotation	Any one form of assessment - Quiz - Class Test - Class Participation - Individual - Assignment - Group Test
	Resection	<ol style="list-style-type: none"> 1. Name type of resections & their indications in the jaw tumor 2. Explain Reconstruction of jaws after removal of oral tumors 	1		

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COURSE TOPIC: Malignant Orofacial tumours

S. No	Lecture Topic	Topic Objectives	Mode of Teaching		Assessment
9	Clinical features. Investigation & diagnosis of cancer.	1. Discuss Principles of surgical management of jaw tumors	1	Practical demonstration during surgical rotation	Any one form of assessment - Quiz - Class Test - Class Participation - Individual - Assignment - Group Test
	Principles of differential diagnosis & Biopsy.	1. Discuss examination and diagnostic methods 2. Discuss Principles of biopsy 3. Describe soft tissue biopsy technique and surgical principles 4. Describe intraosseous or hard tissue biopsy technique and surgical principles 5. Discuss referral for biopsies	1		
	Management (surgery, radiotherapy & chemotherapy)	1. Describe dental management of patients undergoing radiotherapy to head and neck 2. Describe dental management of patients on systemic chemotherapy for malignant disease.	2		
	Reconstruction principles	1. Classify the Mucosal Flaps use for reconstruction 2. Describe basic reconstructive principles	1		

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COURSE TOPIC: Salivary gland disease

S. N o	Lecture Topic	Topic Objectives	Mode of Teaching		Assessment
10	Salivary gland infection, obstructive disease & tumors.	<ol style="list-style-type: none"> 1. Discuss Embryology, Anatomy and Physiology 2. Discuss Diagnostic Modalities 3. Describe obstructive salivary gland disease 4. Discuss Mucous retention and extravasation phenomenon 	1	Practical demonstration during surgical rotation	Any one form of assessment - Quiz - Class Test - Class Participation - Individual - Assignment - Group Test
	Clinical features, investigation & management of salivary gland disorders.	<ol style="list-style-type: none"> 5. Describe salivary gland infections 6. Describe Necrotizing sialometaplasia 7. Describe sjogren's syndrome 8. Discuss traumatic salivary gland injuries 9. Describe salivary gland disorders 	1		

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COURSE TOPIC: TMJ disorders

S. No	Lecture Topic	Topic Objectives	Mode of Teaching		Assessment
11	Classification of TMJ disorders.	<ol style="list-style-type: none"> 1. Discuss Evaluation 2. List classification of temporomandibular disorders 	1	Practical demonstration during surgical rotation	Any one form of assessment - Quiz - Class Test - Class Participation - Individual - Assignment - Group Test
	Clinical features, investigation & treatment modalities.	<ol style="list-style-type: none"> 1. Identify sign & symptoms 2. Prescribed relevant investigation 3. Discuss different treatment options 4. Explain permanent occlusion modification 5. Explain temporomandibular joint surgery 6. Advised follow up 	1		

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COURSE TOPIC: Pre-Prosthetic Surgery

S. No	Lecture Topic	Topic Objectives	Mode of Teaching		Assessment
12	Correction of soft & hard tissue abnormalities	<ol style="list-style-type: none"> 1. Explain objectives of preprosthetic surgery 2. Discuss principles of patient evaluation and treatment planning 3. Describe recountouring the alveolar ridges 4. Describe tori removal 5. Describe soft tissue abnormalities 6. Define immediate dentures 7. Describe overdenture surgery 8. Explain mandibular augmentation 9. Explain maxillary augmentation 10. Describe soft tissue surgery for ridge extension of the mandible 11. Describe soft tissue surgery for maxillary ridge extension 12. Explain correction of abnormal ridge relationships 	2	Practical demonstration during surgical rotation	Any one form of assessment - Quiz - Class Test - Class Participation - Individual - Assignment - Group Test
	Dental implants	<ol style="list-style-type: none"> 1. Discuss Biologic considerations for osseointegration 2. List clinical implant components 3. Discuss implant prosthetic options 4. Discuss preoperative medical evaluation of implant patient 5. Describe surgical phase: treatment planning 6. Explain basic surgical techniques 7. Discuss complications 8. Describe advanced surgical techniques 9. Discuss special situations 	2		

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COURSE TOPIC: Facial pain

S. No	Lecture Topic	Topic Objectives	Mode of Teaching		Assessment
13	Diagnosis and management of Orofacial pain	<ol style="list-style-type: none"> 1. Discuss Basics of pain neurophysiology 2. List classification of orofacial pains 3. Discuss neuropathic facial pains 4. Describe Chronic headache 5. Discuss other Chronic head pains of dental interest 6. Discuss Evaluation of the orofacial pain patients 	2	Practical demonstration during surgical rotation	Any one form of assessment - Quiz - Class Test - Class Participation - Individual - Assignment - Group Test
	Clinical evaluation and management of trigeminal neuralgia.	<ol style="list-style-type: none"> 1. Describe sign & symptoms 2. Take complete history 3. Discuss management option 	1		

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COURSE TOPIC: Maxillofacial trauma

S · N o	Lecture Topic	Topic Objectives	Mode of Teaching		Assessment
18	BLS and ATLS.	<ol style="list-style-type: none"> 1. Discuss evaluation of patients with facial trauma 2. Describe & Demonstrate BLS & ATLS 3. Knows ABCDE 	2	Practical demonstration during surgical rotation	Any one form of assessment - Quiz - Class Test - Class Participation - Individual - Assignment - Group Test
	Traumatic injuries of teeth	<ol style="list-style-type: none"> 1. Describe soft tissue injuries 2. Describe dentoalveolar injuries 	1		
	Management of soft tissue injuries.		1		
	Management of mandibular fractures	<ol style="list-style-type: none"> 1. Discuss causes, classification, sign & symptoms & Management of mandibular fractures 2. Identify complication of mandibular fracture 	4		
	Clinical features, investigation & manage of ZMC	<ol style="list-style-type: none"> 1. Discuss causes, classification, sign & symptoms & Management of ZMC fractures 2. Prescribed appropriate radiograph 3. Identify complication of ZMC fracture 	2		
	Nasal & Orbital fractures.	<ol style="list-style-type: none"> 1. Describe anatomy of orbit 2. Discuss causes, classification, sign & symptoms & Management of Orbital & Nasal fractures 3. Identify complication of Orbital & Nasal fracture 	2		
	Mid face fracture.	<ol style="list-style-type: none"> 1. Discuss causes, classification, sign & symptoms & Management of midface fractures 2. Identify complication of midface fracture 	2		
TOTAL			76 Lecturers		