

DEPARTMENT OF ORAL & MAXILLOFACIAL SURGERY

TEACHING FACULTY



Prof. Dr. Kashif Ali Channar
Professor & Chairman

PROFESSOR

Prof. Dr. Syed Ghazanfar Hassan
Prof. Dr. Muhammad Shahzad Rajput

ASSOCIATE PROFESSOR

Dr. Suneel Kumar

LECTURERS

Dr. Bibi Gul Sama
Dr. Abdul Ghaffar
Dr. Naveen Khuwaja
Dr. Hammad Rajar
Dr. Anita Kumari

SYALLABUS
ORAL & MAXILLOFACIAL SURGERY FINAL YEAR BDS

LECTURE SCHEDULE

S.No.	TOPIC	LEARNING OBJECTIVES	TEACHER'S NAME
MODULE-I			
BASIC PRINCIPALS OF ORAL SURGERY			
1	Introduction. History, Diagnosis and Treatment Planning	Formulate a treatment plan for the patient presenting in oral surgery on the basis of history, clinical examination and radiograph. Explain Basic necessities for surgery. Define Aseptic technique. Perform aseptic technique on patients during surgery. Discuss communicable pathogenic organisms: - Bacteria; - Viral organisms; - Mycobacterial organism.	Prof. Dr. Kashif Ali Channar
2	Sterilization. (Instruments and armamentarium).	Discuss: - Aseptic techniques and universal precautions; - Techniques of instrument sterilization and disinfection; - Maintenance of sterility; - Operating disinfection; - Surgical staff Preparation. Explain post-surgical Asepsis.	Prof. Dr. Muhammad Shahzad
3	Incision. Flap design and tissue handling	Demonstrate: - Incisions; - Flap design; - Prevention of flap necrosis, flap dehiscence, and flap tearing.	Prof. Dr. Kashif Ali Channar
4	Haemostasis management and suturing	Describe tissue handling. Describe hemostasis and means of promoting wound hemostasis. Discuss dead space management.	Prof. Dr. Kashif Ali Channar
5	Post-operative care, nutrition, prevention of infection	Describe: - Decontamination and debridement; - Edema control; - Patient general health and nutrition.	Prof. Dr. Kashif Ali Channar
6	Wound healing (soft tissue and hard tissue)	List causes of tissue damage. Discuss wound repair and epithelialization. List stages of wound healing. Discuss surgical significance of wound healing concepts. Define facial neuropathy of traumatic origin. List the classifications of nerve injury. Discuss nerve healing.	Dr. Suneel Kumar

MEDICAL ASPECTS OF ORAL SURGERY			
7	Prevention and Management of Medical Emergencies	<p>Take a comprehensive medical history of patients presenting to the dental OPD.</p> <p>Demonstrate physical examination on patients presenting in the OPD.</p> <p>Discuss conditions which can exaggerate the pre-existing medical conditions.</p> <p>Discuss appropriate preventive measures to be taken before treatment.</p>	Dr. Suneel Kumar
8	Management of Medically Compromised Patient	<p>Diagnose dental problems in medically compromised patient.</p> <p>Obtain informed /written consent.</p> <p>Discuss management of patient with compromising medical condition.</p> <p>Prescribe medication for pregnant and postpartum patients after treatment.</p>	Dr. Suneel Kumar
ANESTHESIA AND SEDATION			
9	Introduction and types of anaesthesia	<p>Classify Anaesthesia.</p> <p>Describe different type of anesthetic solutions used in dentistry.</p>	Prof. Dr. Muhammad Shahzad
10	Preoperative assessment	<p>Interpret investigations for General Anaesthesia fitness.</p> <p>Discuss criteria for selecting patient to undergo procedures under general anaesthesia.</p> <p>Describe Mechanism of local anaesthesia</p>	Prof. Dr. Muhammad Shahzad
11	Indication and contraindications	Discuss indications and contraindications of general local anaesthesia and local anaesthesia.	Prof. Dr. Muhammad Shahzad
12	Administration and techniques	<p>Explain conventional and specialized technique of local anaesthesia administration.</p> <p>Administer local anaesthesia with the most suitable technique in different clinical scenarios.</p>	Prof. Dr. Muhammad Shahzad
EXODONTIA			
13	Clinical and radiographic evaluation of teeth for removal	<p>Discuss the following steps as a prerequisite for tooth extraction:</p> <ul style="list-style-type: none"> - Pain and anxiety control; - Pre-surgical medical assessment; - Clinical evaluation of teeth for removal; - Radiographic examination of tooth for removal; - Patients and surgeon's preparation. 	Prof. Dr. Muhammad Shahzad
14	Principles of use of instruments	<p>Identify instruments used for:</p> <ul style="list-style-type: none"> - incising tissue; - elevating mucoperiosteum; - retracting soft tissue; - controlling hemorrhage; - grasping tissue; - removing bone; - removing soft tissue from bony defects; - suturing mucosa; - holding mouth open; 	Prof. Dr. Muhammad Shahzad

		<ul style="list-style-type: none"> - providing suction; - transferring sterile instruments; - holding towel and drapes in position; - Irrigation. <p>Demonstrate correct use of:</p> <ul style="list-style-type: none"> - Dental elevators; - Extraction forceps. <p>Discuss instrument tray system.</p>	
15	Non-surgical extraction	<p>Discuss:</p> <ul style="list-style-type: none"> - Indications and contraindications for removal of teeth; - Mechanical principles involved in tooth extractions; - Principles of forceps use; - Specific techniques for removal of each tooth; - Post extraction care of tooth socket. <p>Demonstrate:</p> <ul style="list-style-type: none"> - Correct chair position for forceps extraction; - Procedure of closed extraction. 	Prof. Dr. Muhammad Shahzad
16	Surgical extraction	<p>Discuss:</p> <ul style="list-style-type: none"> - Principles of flap design, development and management; - Design parameters for soft tissue flaps; - Types of mucoperiosteal flaps; - Principles of suturing; - Indications, principles and techniques for surgical extraction. Demonstrate: - Technique for open extraction of single- rooted tooth; - Technique for surgical removal of multi rooted teeth; - Removal of small root fragments and root tips. Discuss Policy for leaving root fragments. Formulate a treatment plan emphasizing on extraction sequencing and technique for extraction when multiple extractions have to be performed. 	Prof. Dr. Muhammad Shahzad
IMPACTED TEETH			
17	Definition, assessment and evaluation of impacted teeth	<p>Define Impaction. Classify impactions.</p> <p>Classify maxillary impacted teeth according to modified classification.</p> <p>Discuss the indications and contraindications for removal of impacted teeth.</p> <p>Describe the difficulty of removal of impacted teeth.</p> <p>Discuss preoperative and postoperative patient management after extraction.</p> <p>Discuss intra-operative complications:</p> <ul style="list-style-type: none"> - Injuries to the adjacent teeth, osseous and adjacent structures and soft tissue injuries. 	Prof. Dr. Kashif Ali Channar

		<p>Discuss Root Morphology. Describe the surgical procedures for extraction. Discuss measures of control of postoperative bleeding, pain and discomfort. Write down operative notes for patient records. Discuss measures to prevent post-operative complications:</p> <ul style="list-style-type: none"> - oro-antral communications; - postoperative bleeding; - delayed healing and infection; - Fractures of the mandible. 	
MODULE-II			
INFECTIONS			
18	Acute infection	Classify spaces of infection. Explain: <ul style="list-style-type: none"> - Microbiology of odontogenic infections; - Fascial space infections; - Mandibular spaces; - Osteomyelitis; - Actinomycosis; - Candidosis. 	Prof. Dr. Syed Ghazanfar Hassan
19	Chronic infection		
20	Spread of infection	Discuss natural history of progression of odontogenic infections.	Prof. Dr. Syed Ghazanfar Hassan
21	Principles of management of infection	Discuss principles of: <ul style="list-style-type: none"> - Therapy of odontogenic infections; - Prevention of infection; - Prophylaxis of wound infection; - Prophylaxis against metastatic infection. 	Prof. Dr. Syed Ghazanfar Hassan
22	Disease of Maxillary sinus	Embryology, Anatomy and Clinical Examination of Maxillary Sinus Radiographic examination Non Odontogenic infection Odontogenic infection Treatment of Maxillary Sinus diseases	Prof. Dr. Muhammad Shahzad
CYSTS			
22	Diagnosis and management of cysts	Discuss basic surgical goals. Describe surgical management of cysts and cyst like lesions of the jaws.	Dr. Suneel Kumar
ODONTOGENIC TUMOUR			
23	Diagnosis and management	Identify Odontogenic tumors on patients. Describe surgical management of benign lesions in oral soft tissues. Discuss principles of surgical management of jaw tumors.	Dr. Suneel Kumar
24	Resection	Discuss resections types and their indications in the jaw tumor. Explain reconstruction of jaws after removal of oral tumors.	Dr. Suneel Kumar
MALIGNANT OROFACIAL TUMOURS			
25	Clinical features, investigation and diagnosis of cancer	Discuss Principles of surgical management of jaw tumors.	Dr. Suneel Kumar

26	Principles of differential diagnosis and biopsy	Discuss examination and diagnostic methods. List principles of biopsy. Discuss: - Soft tissue biopsy technique and surgical principles; - Intraosseous/ hard tissue biopsy technique and surgical principles. Formulate a referral letter for biopsies if needed.	Dr. Suneel Kumar
27	Management (surgery, radiotherapy and chemotherapy)	Describe dental management of patients: - undergoing radiotherapy to head and neck; - On systemic chemotherapy for malignant disease.	Prof. Dr. Kashif Ali Channar
28	Reconstruction principles	Classify the mucosal flaps use for reconstruction. Describe basic reconstructive principles.	Dr. Suneel Kumar
SALIVARY GLAND DISEASE			
29	Salivary gland infection, obstructive disease and tumors	Discuss: - Embryology, anatomy and physiology of salivary glands; - Diagnostic modalities for salivary gland diseases; - Obstructive salivary gland disease; - Mucous retention and extravasation phenomenon; - Salivary gland infections; - Necrotizing sialometaplasia; - Sjogren's syndrome; - Traumatic salivary gland injuries; - Salivary gland disorders.	Prof. Dr. Muhammad Shahzad
TMJ DISORDERS			
30	Classification of TMJ disorders	Classify temporomandibular disorders.	Prof. Dr. Kashif Ali Channar
31	Clinical features, investigation and treatment modalities	Identify sign and symptoms of TMJ disorders. Evaluate a patient with TMJ disorder. Formulate a management plan for patient presenting with TMJ disorders. Prescribe relevant investigation. Discuss: - Different treatment options; - Permanent occlusion modification; - Temporomandibular joint surgery; - Follow-up.	Prof. Dr. Kashif Ali Channar
MODULE-III			
PRE-PROSTHETIC SURGERY			
32	Correction of soft and hard tissue abnormalities	Discuss the following: - Objectives of pre-prosthetic surgery;	Dr. Suneel Kumar
		- Principles of patient evaluation and treatment planning; - Re-contouring the alveolar ridges; - Tori removal; - Soft tissue abnormalities;	Dr. Suneel Kumar

		<ul style="list-style-type: none"> - Immediate dentures; - Overdenture surgery; - Mandibular augmentation; - Maxillary augmentation; - Soft tissue surgery for ridge extension of the mandible; - Soft tissue surgery for maxillary ridge extension; - Correction of abnormal ridge relationships. 	
33	Dental implants	<p>Discuss:</p> <ul style="list-style-type: none"> - Biologic considerations for osseointegration; - Clinical implant components; - Implant prosthetic options; - Preoperative medical evaluation of implant patient; - Surgical phase: treatment planning; - Basic surgical techniques; - Complications; - Advanced surgical techniques; - Special situations. 	Prof. Dr. Kashif Ali Channar
FACIAL PAIN			
34	Diagnosis and management of Orofacial pain	<p>Classify orofacial pains. Discuss the following:</p> <ul style="list-style-type: none"> - Basics of pain neurophysiology - Neuropathic facial pains - Chronic headache - Chronic head pains of dental interest <p>Evaluate patients presenting to the dental OPD with orofacial pain.</p>	Prof. Dr. Muhammad Shahzad
35	Clinical evaluation and management of trigeminal neuralgia	Discuss the signs and symptoms, clinical history and management options of trigeminal neuralgia.	Prof. Dr. Muhammad Shahzad
ORO- FACIALNEUROPATHIES			
36	Diagnosis and management of facial palsy	Discuss the causes and management of facial nerve pathology.	Prof. Dr. Muhammad Shahzad
MODULE-IV			
CLEFT LIP AND PALATE			
37	Management of cleft lip and palate patient	<p>Discuss the embryology, causative factors and problems of the cleft affected individual.</p> <p>Discuss treatment and dental needs of cleft lip and palates.</p>	Prof. Dr. Muhammad Shahzad
ORTHOGNATHIC SURGERY			
38	Objectives and principles of management of Orthognathic surgery	<p>Classify orthognathic procedures. Evaluate patient for orthognathic surgery.</p> <p>Discuss the procedure to correct jaw abnormality.</p>	Dr. Suneel Kumar

SURGICAL ENDODONTICS			
39	Indication and Technique (Surgical Endodontics)	Discuss the following: <ul style="list-style-type: none"> - Drainage of abscess; - Periapical surgery; - Corrective surgery; - Healing; - Recall; - Adjuncts; - When to consider referral. 	Dr. Suneel Kumar
MAXILLOFACIAL TRAUMA			
40	BLS and ATLS	Discuss evaluation of patients with facial trauma. Demonstrate Basic Life Support (BLS) and Advanced Trauma Life Support (ATLS). Discuss ABCDE of emergency management.	Prof. Dr. Syed Ghazanfar Hassan
41	Traumatic injuries of teeth	Discuss:	Prof. Dr. Kashif Ali Channar
42	Management of soft tissue injuries	<ul style="list-style-type: none"> - Soft tissue injuries; - Dentoalveolar injuries. 	
43	Management of mandibular fractures	Classify mandibular fractures. Discuss causes, sign and symptoms and management of mandibular fractures. Explain complications of mandibular fracture.	Prof. Dr. Muhammad Shahzad
MODULE-V			
44	Clinical features, investigation and management of ZMC	Classify Zygomatic maxillary Complex (ZMC) fractures. Discuss causes, signs, symptoms and management of ZMC fractures. Discuss appropriate investigations for ZMC fracture. Explain complication of ZMC fracture.	Dr. Suneel Kumar
45	Nasal and Orbital fractures.	Discuss anatomy of orbit. Classify Orbital and Nasal fractures. Discuss causes, signs, symptoms and management of orbital and nasal fractures. Explain complication of orbital and nasal fracture.	Prof. Dr. Muhammad Shahzad
46	Mid face fracture.	Classify Mid-face fractures. Discuss causes, signs, symptoms and management of mid face fractures. Explain complication of mid face fracture.	Prof. Dr. Kashif Ali Channar
47	Medicological Consideration	Introduction to forensic Dentistry Legal Concepts influencing liability , risk reduction Patient information and office communication Informed consent Record Documentation, electronic records Referral to another general / specialist , complication Age estimation from oral and dental structures Common areas of dental litigation Managed care issues, Telemedicine and internet Rules and regulation affecting practice	Dr. Falak Murad Shah

CLINICAL / PRACTICAL SCHEDULE

1.	History Taking	Dr. Naveen Khawaja
2.	Management of Medical Emergencies on Dental Chair	Dr. Anita Kumar
3.	Oral & Maxillofacial Surgery Instruments	Dr. Hammad Rajar
4.	Local Anesthesia Technique (INFILTRATION)	Dr. Abdul Ghaffar Shaikh
5.	Local Anesthesia Technique (BLOCK)	Dr. Gul Sama
6.	Surgical Extraction Techniques	Dr. Abdul Ghaffar Shaikh
7.	Surgical Extraction of Impacted Teeth	Dr. Kashif Ali Channar
8.	Suturing Techniques	Dr. Bibi Gul Sama
9.	Intermaxillary Fixation on Model	Dr. Salman Shams
10.	Radiographs	Dr. Salman Shams

1. History taking
2. Informed Consent
3. Clinical examination
4. Prescription writing
5. Local Anesthesia(Including Advanced Block anesthesia Techniques)
6. Simple extractions of deciduous or permanent teeth
7. Simple extractions with flap and stitching
8. Wisdom teeth extraction that are vertically impacted
9. Suturing
10. Simple incisional biopsies
11. Pre-Prosthetic Surgery including Dental Implants.
12. Splinting of teeth for management of dentoalveolar trauma
13. Reduction of TMJ dislocation
14. Diagnosis and treatment planning

CBL		
1	Medical emergencies	Dr. Suneel Kumar
2	Maxillofacial trauma	Prof. Dr. Kashif Ali Channar
3	Management of Oral Lesions	Prof. Dr. Muhammad Shahzad

RECOMMENDED BOOKS

1. Malamed S F Handbook of medical emergencies in the dental office
2. Banks P Killey's fracture of mandible
3. Banks P Killey's fracture of middle third of the facial skeleton
4. Howe G L Extraction of teeth
5. Howe G L Minor oral surgery
6. Balaji SM Textbook of Oral & Maxillofacial Surgery
7. Tucker et al Contemporary Oral and Maxillofacial Surgery 7th Edition