

JINNAH MEDICAL AND DENTAL COLLEGE

ORAL MAXILLOFACIAL SURGERY

**DEPARTMENTAL GUIDE BOOK FOR THIRD AND FINAL
YEAR ORAL SURGERY STUDENTS**



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INTRODUCTION

VISION: To set local and global standards for quality patient outcomes – creating a culture of excellence to promote a transformative experience for the 21st century clinicians, educators and researchers to benefit all humanity.

MISSION STATEMENT: We are committed to develop well rounded academics, thinkers, clinicians and researchers by strengthening a global view, broadening intellectual foundation and teaching effective communication. It is our aspiration to cultivate creative and critical thinking skills for problem solving, sensitive to cultural and ethical values and responsibilities. Our graduates will be role models and leaders for society.

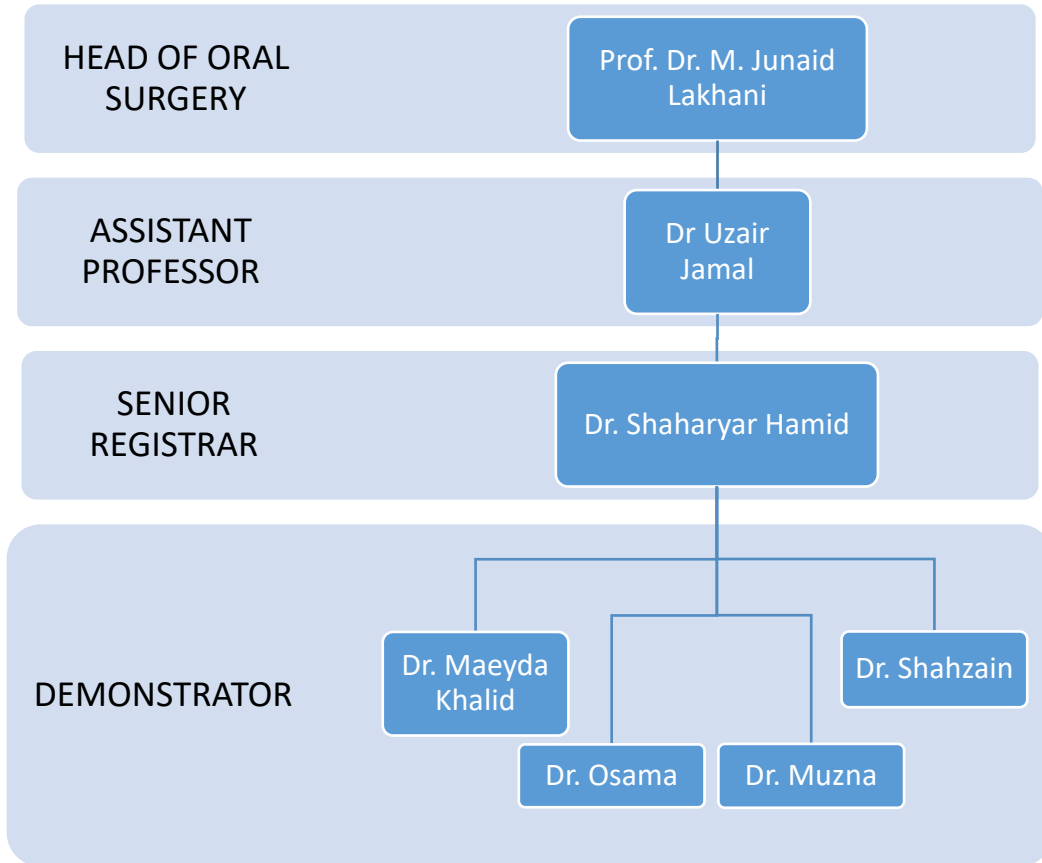
VALUES:

INTRODUCTION TO THE DEPARTMENT OF ORAL AND MAXILLOFACIAL SURGERY

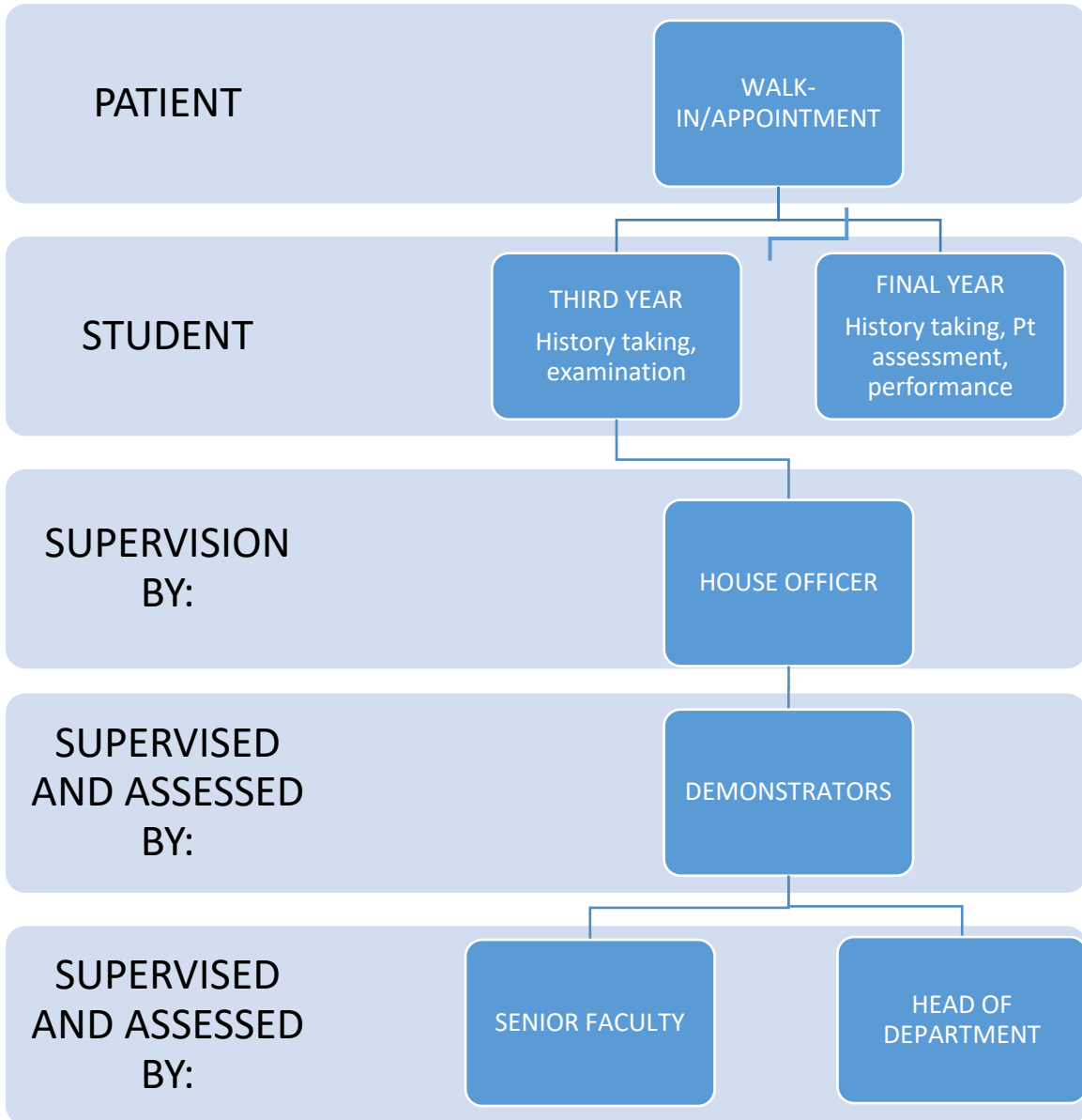
Oral surgery is a branch of dentistry that deals with the diagnosis and treatment of oral conditions requiring surgical intervention. As defined by the American Dental Association (ADA) and the American Association of Oral and Maxillofacial Surgeons (AAOMS) Oral and maxillofacial surgery is the specialty of dentistry that includes the diagnosis, surgical, and adjunctive treatment of diseases, injuries, and defects involving the functional and esthetic aspects of the bone and soft tissues of the oral and maxillofacial region.

In a course of four-year Bachelors in Dental Surgery (BDS) program, oral surgery is taught over a period of two years, which includes the clinical years, i.e., third and fourth year. Oral surgery is taught theoretical as well as Clinical.

DEPARTMENT HIERARCHY



DEPARTMENT TO STUDEMMUNICATION



PROGRAM OBJECTIVES

JMDC's program curriculum conforms to the regulations and recommendations of the Pakistan Medical & Dental Council and is designed to integrate academic knowledge and clinical experience which emphasize the following goals:

- Help students acquire relevant knowledge
- Develop student communication skills, both oral and written
- Promote team work
- Instill compassion and empathy
- Uphold Professionalism

VALUES FOR OUR DENTAL GRADUATES

- Equity
- Quality
- Compassionate Behavior
- Social Accountability
- Social Justice
- Humanistic Approach
- Leadership
- Innovation
- Integrity
- Collaboration

CODE OF CONDUCT

- Students attire must be professional, neat and clean
- Footwear must be clean, safe and in good condition.
- Jewelry, buttons, pins, and other accessories must be limited and unobtrusive.
- Hair should be clean and neatly styled.
- Nails must be trimmed neatly.
- Logos, advertisements, slogans, or other messages representing organizations other than JMDC or promoting political, social, religious, or other causes, should be **inconspicuous**.
- Use of foul/abusive language will not be tolerated

LEARNING OUTCOMES

FOR A THIRD YEAR STUDENT:

By the end of clinical rotation and lectures in oral surgery, the student should be able to:

1. Obtain detailed patient history inclusive of relevant medical history with its oral manifestations.
2. Perform clinical examination (intra-oral and extra-oral) relevant to presenting complaint.
3. Order appropriate radiographs
4. Interpret radiographic findings
5. Practice cross infection control protocols.
6. Describe oral lesions.
7. Explicate the non-odontogenic pain in oro-facial region.
8. Identify the history and habits leading to malignant oral lesions, especially in relation to our region.
9. Develop moral reasoning for ethical dilemmas.
10. Display effective communication.

FOR A FINAL YEAR STUDENT:

By the end of final year BDS, the student should be able to:

1. Present patient history along with significant systemic history.
2. Perform patient assessment (vitals of the patient) and clinical examination.
3. Order appropriate radiographs
4. Interpret radiographic findings
5. Formulate treatment plan
6. Manage odontogenic pain.
7. Discuss techniques for disinfection and sterilization.
8. Discuss conditions that can worsen the pre-existing medical conditions and its preventive measures.
9. Discuss indications and contraindications of local and general anesthesia.
10. Demonstrate conventional and specialized techniques for administration of local anesthesia.
11. Plan extraction of teeth and broken-down roots.
12. Extract single-rooted, multi-rooted and broken-down roots
13. Perform simple soft tissue procedures and suturing for intraoral wounds.
14. Write prescription for common oro-facial infections
15. Demonstrate the knowledge of commonly used drugs their side effects and interactions.
16. Write appropriate referrals when needed.
17. Discuss various surgical procedures that may be required for managing diseases and disorders of mouth and jaw.
18. Explicate the non-odontogenic pain in oro-facial region.
19. Identify from history the facts and habits leading to malignant oral lesions, especially in relation to our region.

20. Explain the clinical presentation, diagnosis and management of the common diseases of oral mucosa, salivary glands, facial bones and joints, oro-facial trauma.
21. Counsel patients in need taking into account the social and psychological needs.
22. Develop moral reasoning for ethical dilemmas.
23. Display effective communication.

STRATEGIES FOR LEARNING AND TEACHING:

1. Lectures (teaching large group):

The traditional way of teaching is adapted. It comprises lecture having duration of 50 minutes three times a week for final year and once a week for third year. To keep a check of assessment of student learning through lectures following techniques are utilized:

- a. Quizzes.
- b. Interactive sessions.
- c. Student engagement to stimulate critical thinking.
- d. Activities for better understanding of topics.

2. Hands on learning:

Clinical learning in the out-patient department of oral surgery, both third year and final year students are engaged through:

- a. On patient learning.
- b. Supervised Small group discussions.
- c. Suturing skills.
- d. Taking vitals.
- e. Communication skills.

3. Self-Preparatory Material:

To complement the lectures, students are provided with videos, relatable book chapters and materials for better understanding.

Along with these assignments, presentations and group activities are conducted.

4. E-Learning:

In the current times of pandemic COVID-19, distance learning has been incorporated in the strategies of learning and teaching.

In these challenging times an easy access has been provided to the students through E-portal. Each student has the access to the portal through their individual IDs, on which they can go through the recorded lectures and material whenever they want.

ASSESSMENT TOOLS TO EVALUATE STUDENT LEARNING:

1. In-Class Assessment:

- a. Attendance.
- b. Quizzes.
- c. Presentations.
- d. Assignments.

2. Ward Assessment:

A test is conducted in mid and end of the clinical rotation to assess the learning of students. It is to ensure that the students develop the required proficiencies under a supervised environment.

3. Examination Assessment:

a. Mid Term examinations:

These are conducted in the mid of the academic year. It comprises of two components;

| Component | Marks |
|------------------|--------------|
| BCQs | 100 |
| OSCE | 50 |

| | |
|-------|-----|
| VIVA | 50 |
| TOTAL | 200 |

b. Pre-Professional examinations:

These are conducted in the end of the academic year before the final professional examination. It comprises of two components;

| Component | Marks |
|-----------|-------|
| BCQs | 100 |
| OSCE | 75 |
| VIVA | 75 |
| TOTAL | 250 |

c. Professional Examinations:

At the end of the academic year, JSMU conducts this exit examination that will award the students with the Bachelors in Dental Surgery (BDS) degree.

d. Internal Evaluation:

| | | |
|----|--|-----|
| 1. | Assignments / class tests / ward tests | 25% |
| 2. | Mid-term | 35% |
| 3. | Pre-prof | 35% |
| 4. | Extra effort | 5% |

| Assignments / Tests / Mid-term / Pre-prof | | |
|---|------------------|-------------------|
| 1. | Present and Fail | 25% |
| 2. | Pass | Actual percentage |

| | | |
|----|--------|------|
| 3. | Absent | Zero |
|----|--------|------|

Eligibility for sitting in the Professional Annual Examinations will be as follows:

1. Minimum of **40% aggregate** marks in all the Internal Examinations (Mid-term, Pre-prof, Assignments and Tests).
2. Students with less than **75% overall class attendance** will not be allowed to sit in the Annual Professional Examinations.
3. Clinical attendance will be maintained separately. Attendance in any clinical rotation which falls below **75%** must be made up by the students.
4. Students must obtain **passing marks in the clinical ward tests**. Failing to do so, students will have to sit for a re-take ward test (only one retake is allowed).

COURSE CONTENT TAUGHT IN THIRD AND FOURTH YEAR:

Following course content is covered over the period of two years:

| BASIC PRINCIPALS OF ORAL SURGERY | | | |
|--|---|--|-------------------------|
| TOPICS | LEARNING OBJECTIVES | MODE OF TEACHING | ASSESSMENT TOOLS |
| 1. Introduction, History, Diagnosis and Treatment Planning | 1. Formulate treatment plan. 2. Describe: <ul style="list-style-type: none"> • Patient assessment • history 3. Perform clinical examination. | 1. Lectures 2. Tutorials 3. SGDs 4. Clinical Demonstrations | 1. BCQS 2. OSCE |

| | | | |
|---|---|-----------------------------------|--|
| <p>2. Sterilization. (instruments and armamentarium)</p> <p>3. Incision. Flap design and tissue handling</p> <p>4. Hemostasis management and suturing</p> <p>5. Post-operative care, nutrition, prevention of infection</p> <p>6. Wound healing (soft tissue and hard tissue)</p> | <p>4. Identify radiographs.</p> <hr/> <p>1. Discuss:</p> <ul style="list-style-type: none"> • Techniques for disinfection and sterilization • Aseptic techniques • Universal Precautions <hr/> <p>1. Demonstrate:</p> <ul style="list-style-type: none"> • Incisions • Flap design • Prevention of mishandling of tissue <hr/> <p>1. Discuss dead space management.</p> <p>2. Describe hemostasis</p> <p>3. Describe means hemostasis</p> <hr/> <p>1. Describe:</p> <ul style="list-style-type: none"> • Decontamination and debridement • Edema control • Patient health nutrition <hr/> <p>1. List causes of tissue damage</p> <p>2. Discuss wound repair and stages of wound healing</p> <p>3. Discuss epithelialization</p> <p>4. Discuss nerve injury and nerve healing</p> | <p>5. Students' Presentations</p> | |
|---|---|-----------------------------------|--|

MEDICAL ASPECTS OF ORAL SURGERY

| TOPICS | LEARNING OBJECTIVES | MODE OF TEACHING | ASSESSMENT TOOLS |
|--|--|---|-------------------------------|
| <p>1. Prevention and Management of Medical Emergencies</p> <p>2. Management of Medically compromised patient</p> | <p>1. History taking.</p> <p>2. Demonstrate:</p> <ul style="list-style-type: none"> • Physical examination on patients <p>3. Discuss:</p> <ul style="list-style-type: none"> • Conditions that can worsen the pre-existing medical conditions • Preventive measures | <p>1. Lectures</p> <p>2. Tutorials</p> <p>3. SGDs</p> <p>4. Clinical Demonstrations</p> <p>5. Students' Presentations</p> | <p>1. BCQS</p> <p>2. OSCE</p> |
| | <p>1. Diagnose:</p> <ul style="list-style-type: none"> • Dental problems <p>2. Discuss:</p> <ul style="list-style-type: none"> • Obtain written consent. • Management of medically compromised patients • Prescribe medications, before and after procedure according to the requirement. • Management of pregnant patient. | | |

ANESTHESIA AND SEDATION

| TOPICS | LEARNING OBJECTIVES | MODE OF TEACHING | ASSESSMENT TOOLS |
|---|--|---|--------------------|
| 1. Introduction and types of anesthesia 2. Preoperative assessment 3. Indication and contraindications 4. Administration and technique | 1. Classify anesthesia 2. Discuss different type of anesthetic solutions | 1. Lectures 2. Tutorials 3. SGDs 4. Clinical | 1. BCQS 2. OSCE |
| | 1. Interpret investigations for general anesthesia fitness 2. Discuss criteria for patient selection 3. Describe mechanism of local anesthesia | Demonstrations 5. Students' Presentations | |
| | 1. Discuss indications and contraindications of local anesthesia 2. Discuss indications and contraindications of general anesthesia | | |
| | 1. Explain convention and specialized techniques for administration of local anesthesia | | |

EXODONTIA

| TOPICS | LEARNING OBJECTIVES | MODE OF TEACHING | ASSESSMENT TOOLS |
|--|--|---|-------------------------------|
| <p>Clinical and radiographic evaluation of teeth for removal</p> <p>Principles of use of instruments</p> <p>Non-surgical extraction</p> <p>Surgical extraction</p> | <p>1. Discuss:</p> <ul style="list-style-type: none"> • Pain and anxiety control • Pre-surgical medical assessment • Clinical evaluation of teeth for removal • Radiographic examination <hr/> <p>1. Identify instruments used for different types of procedures</p> <p>2. Demonstrate handling of instruments</p> <p>3. Discuss instrument tray setup</p> <hr/> <p>1. Discuss:</p> <ul style="list-style-type: none"> • Indications and contraindications, techniques for removal of teeth. • Mechanical principles involved in tooth extractions | <p>1. Lectures</p> <p>2. Tutorials</p> <p>3. SGDs</p> <p>4. Clinical Demonstrations</p> <p>5. Students' Presentations</p> | <p>1. BCQS</p> <p>2. OSCE</p> |

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| | <ul style="list-style-type: none"> • Principles for forceps use • Post extraction care of tooth socket | | |
| | <p>2. Demonstrate chair positioning and procedure of closed extraction</p> | | |
| | <p>3. Discuss:</p> <ul style="list-style-type: none"> • Principles of flap design, suturing. • Types of mucoperiosteal flaps. | | |
| | <p>4. Demonstrate techniques for removal of single and multi-rooted teeth</p> <ul style="list-style-type: none"> ○ Discuss policy for leaving root fragments ○ Formulate a treatment plan for extraction sequencing. | | |

| IMPACTED TEETH | | | |
|--------------------------|---|--|-------------------------------|
| TOPICS | OBJECTIVES | MODE OF TEACHING | ASSESSMENT TOOLS |
| Definition, Assessment & | <p>1. Define impactions</p> <p>2. Classify impactions</p> | <p>1. Lectures</p> <p>2. Tutorials</p> <p>3. SGDs</p> <p>4. Clinical</p> | <p>1. BCQS</p> <p>2. OSCE</p> |

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|---|--|--|--|
| evaluation of impacted teeth | 3. Classify maxillary impacted teeth according to modified classification | Demonstrations 5. Students' Presentations | |
| Indication contraindication & type of impaction | 1. Discuss: <ul style="list-style-type: none"> • Indications and contraindications for removal of impacted teeth. • Preoperative and post-operative patient management after extractions | | |
| Techniques of removal | 1. Demonstrate techniques for removal of teeth | | |
| Post-operative management and complications | 1. Discuss intra-operative complications 2. Discuss root morphology 3. Describe surgical procedures for extractions 4. Discuss measures to prevent post-operative complication. | | |

| INFECTIONS | | | |
|---------------------------------------|--|--|-------------------------|
| TOPICS | OBJECTIVES | MODE OF TEACHING | ASSESSMENT TOOLS |
| Acute infection | 1. Classify spaces of infections 2. Explain: <ul style="list-style-type: none"> • Microbiology of infections, • Odontogenic infections | 1. Lectures 2. Tutorials 3. SGDs 4. Clinical Demonstrations 5. Students' Presentations | 1. BCQS 2. OSCE |
| Chronic infection | | | |
| Spread of infection | 1. Discuss natural history of progression of odontogenic infection | | |
| Principles of management of infection | 1. Discuss principles of: <ul style="list-style-type: none"> • Therapy and prevention of Odontogenic infections. • Prophylaxis of wound infection and against metastatic infection | | |

| CYSTS | | | |
|---------------|-------------------|-------------------------|-------------------------|
| TOPICS | OBJECTIVES | MODE OF TEACHING | ASSESSMENT TOOLS |
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|-------------------------------|--|--|--|
| Diagnosis and management cyst | <ol style="list-style-type: none"> 1. Discuss basic surgical goals 2. Describe surgical management of cysts and cyst like lesions of jaw | <ol style="list-style-type: none"> 1. Lectures 2. Tutorials 3. SGDs 4. Clinical Demonstrations 5. Students' Presentations | <ol style="list-style-type: none"> 1. BCQS 2. OSCE |
|-------------------------------|--|--|--|

ODONTOGENIC TUMOUR

| TOPICS | OBJECTIVES | MODE OF TEACHING | ASSESSMENT TOOLS |
|--------------------------|--|--|--|
| Diagnosis and management | <ol style="list-style-type: none"> 1. Identify odontogenic tumors on patients 2. Describe surgical management of benign lesions in oral soft tissues 3. Discuss principles of surgical management of jaw tumors | <ol style="list-style-type: none"> 1. Lectures 2. Tutorials 3. SGDs 4. Clinical Demonstrations 5. Students' Presentations | <ol style="list-style-type: none"> 1. BCQS 2. OSCE |
| Resection | <ol style="list-style-type: none"> 1. Discuss resections types and their indications. 2. Explain reconstruction of jaws after removal oral tumors. | | |

MALIGNANT OROFACIAL TUMOURS

| TOPICS | OBJECTIVES | MODE OF TEACHING | ASSESSMENT TOOLS |
|--|---|--|-------------------------|
| Clinical features. Investigation & diagnosis of cancer | 1. Discuss principles of surgical management of jaw tumors | 1. Lectures 2. Tutorials 3. SGDs 4. Clinical Demonstrations 5. Students' Presentations | 1. BCQS 2. OSCE |
| Principles of differential diagnosis and Biopsy | 1. Discuss examination and diagnostic methods. 2. List principles of biopsy 3. Formulate a referral letter for biopsies if needed | | |
| Management (surgical radiography and chemotherapy) | 1. Describe dental management of patient undergoing radiotherapy of head and neck 2. Describe dental management of patients on systemic chemotherapy for malignant disease | | |
| Reconstruction Principles | 1. Classify the mucosal flaps used for construction | | |

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| | 2. Describe basic constructive principles | | |
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| SALIVARY GLAND DISEASE | | | |
|--|--|--|-------------------------|
| TOPICS | OBJECTIVES | MODE OF TEACHING | ASSESSMENT TOOLS |
| Salivary gland infection, obstructive disease & tumors | 1. Discuss: <ul style="list-style-type: none"> • 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 | 1. Lectures 2. Tutorials 3. SGDs 4. Clinical Demonstrations 5. Students' Presentations | 1. BCQS 2. OSCE |

| | | | |
|---|--|--|--|
| | <ul style="list-style-type: none"> • Salivary gland disorders | | |
| Clinical features, investigation & management of salivary gland disorders | | | |

| TMJ DISORDERES | | | |
|---|---|--|-------------------------|
| TOPICS | OBJECTIVES | MODE OF TEACHING | ASSESSMENT TOOLS |
| Classification of TMJ disorders | 1. Classify temporo-mandibular disorders | 1. Lectures 2. Tutorials 3. SGDs 4. Clinical Demonstrations 5. Students' Presentations | 1. BCQS 2. OSCE |
| Clinical features, investigation & treatment modalities | 1. Identify sign and symptoms of TMJ disorders 2. Evaluate a patient with TMJ disorder 3. Formulate a management plan for | | |

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|--|---|--|--|
| | <p>patient presenting with disorders</p> <p>4. Prescribe relevant investigation</p> | | |
|--|---|--|--|

| PRE-PROSTHETIC SURGERY | | | |
|--|---|---|-------------------------------|
| TOPICS | OBJECTIVES | MODE OF TEACHING | ASSESSMENT TOOLS |
| Correction of soft & hard tissue abnormalities | <p>1. Discuss:</p> <ul style="list-style-type: none"> • Objectives of pre-prosthetic surgery • Principles of patient evaluation and treatment planning • Re-contouring alveolar ridges • Tori removal • Soft tissue abnormalities • Immediate dentures • Overdenture surgery • Mandibular and maxillary augmentation • Soft tissue surgery for ridge extension of mandible/maxilla | <p>1. Lectures</p> <p>2. Tutorials</p> <p>3. SGDs</p> <p>4. Clinical Demonstrations</p> <p>5. Students' Presentations</p> | <p>1. BCQS</p> <p>2. OSCE</p> |

| | | | |
|-----------------|--|--|--|
| Dental implants | <p>1. Discuss:</p> <ul style="list-style-type: none"> • Biologic considerations for osseointegration • Clinical implant components • Implant prosthetic options • Preoperative evaluation • Surgical phases, treatment planning • Basic surgical techniques • Complications • Advanced surgical techniques | | |
|-----------------|--|--|--|

| FACIAL PAIN | | | |
|---|---|---|-------------------------------|
| TOPICS | OBJECTIVES | MODE OF TEACHING | ASSESSMENT TOOLS |
| Diagnosis and management of Oro-facial pain | <p>1. Classify orofacial pains.</p> <p>2. Discuss:</p> <ul style="list-style-type: none"> • Basics of pain neurophysiology • Neuropathic facial pains • Chronic headache | <p>1. Lectures</p> <p>2. Tutorials</p> <p>3. SGDs</p> <p>4. Clinical Demonstrations</p> <p>5. Students' Presentations</p> | <p>1. BCQS</p> <p>2. OSCE</p> |

| | | | |
|--|---|--|--|
| | <ul style="list-style-type: none"> Chronic head pains of dental interest <p>3. Evaluate patients presenting to the OPD with orofacial pain</p> | | |
| Clinical evaluation and management of trigeminal neuralgia | 1. Discuss signs and symptoms, clinical history and management options of trigeminal neuralgia | | |

| ORO-FACIAL NEUROPATHIES | | | |
|--|--|--|-------------------------|
| TOPICS | OBJECTIVES | MODE OF TEACHING | ASSESSMENT TOOLS |
| Diagnosis and management of facial palsy | 1. Discuss the causes and management of facial nerve pathology | 1. Lectures 2. Tutorials 3. SGDs 4. Clinical Demonstrations 5. Students' Presentations | 1. BCQS 2. OSCE |

| CLEFT LIP AND PALATE | | | |
|---|--|---|-------------------------|
| TOPICS | OBJECTIVES | MODE OF TEACHING | ASSESSMENT TOOLS |
| Management of cleft lip and palate patients | 1. Discuss embryology, causative factors and problems of the cleft affected individual | 1. Lectures 2. Tutorials 3. SGDs 4. Clinical | 1. BCQS 2. OSCE |

| | | | |
|--|---|--|--|
| | 2. Discuss treatment and dental needs of cleft lip and palate | Demonstrations 5. Students' Presentations | |
|--|---|--|--|

| ORTHOGNATHIC SURGERY | | | |
|---|--|---|-------------------------|
| TOPICS | OBJECTIVES | MODE OF TEACHING | ASSESSMENT TOOLS |
| Objectives & principles of management of Orthognathic surgery | 1. Classify orthognathic procedures 2. Evaluation of patient 3. Discuss the procedure to correct jaw abnormality | 1. Lectures 2. Tutorials 3. SGDs 4. Clinical Demonstrations 5. Students' Presentations | 1. BCQS 2. OSCE |

| SURGICAL ENDODONTICS | | | |
|---|---|--|-------------------------|
| TOPICS | OBJECTIVES | MODE OF TEACHING | ASSESSMENT TOOLS |
| Indication and technique (surgical Endodontics) | 1. Discuss the following: <ul style="list-style-type: none"> • Drainage of abscess • Periapical • Corrective surgery | 1. Lectures 2. Tutorials 3. SGDs 4. Clinical Demonstrations 5. Students' Presentations | 1. BCQS 2. OSCE |

| | | | |
|--|---|--|--|
| | <ul style="list-style-type: none"> • Healing • Recall • Adjunct • When to consider referral | | |
|--|---|--|--|

| MAXILLOFACIAL TRAUMA | | | |
|------------------------------------|--|--|--|
| TOPICS | OBJECTIVES | MODE OF TEACHING | ASSESSMENT TOOLS |
| BLS and ATLS | <ol style="list-style-type: none"> 1. Discuss evaluation of patients with facial trauma 2. Demonstrate BLS and ATLS 3. Discuss emergency management | <ol style="list-style-type: none"> 1. Lectures 2. Tutorials 3. SGDs 4. Clinical Demonstrations 5. Students' Presentations | <ol style="list-style-type: none"> 1. BCQS 2. OSCE |
| Traumatic injuries of teeth | <ol style="list-style-type: none"> 1. Discuss: <ul style="list-style-type: none"> • Soft tissue injuries • Dento-alveolar injuries | | |
| Management of soft tissue injuries | | | |
| Management of mandibular fractures | <ol style="list-style-type: none"> 1. Classify mandibular fractures 2. Discuss causes, signs, symptom, complications and | | |

| | | | |
|--|---|--|--|
| | management of mandibular fractures | | |
| Clinical features, investigation & manage of ZMC | <ol style="list-style-type: none"> 1. Classify ZMC fractures 2. Discuss causes, signs, symptom, complications and management of ZMC fractures | | |
| Nasal & Orbital fractures | <ol style="list-style-type: none"> 1. Discuss anatomy of orbit 2. Classification of orbital and nasal fractures 3. Discuss causes, signs, symptom, complications and management of orbital and nasal fractures | | |
| Mid face fracture | <ol style="list-style-type: none"> 1. Classify Mid face fractures 2. Discuss causes, signs, symptom, complications and management of mid face fractures | | |

ORAL SURGERY CLINICAL ROTATION

| S. NO. | CLINICAL AND PROCEDURAL SKILLS By the end of the clinical rotation the final year BDS student should be able to demonstrate the following: | TEACHING METHODOLOGY | ASSESSMENT TOOLS The students will be assessed mid-rotation and end-of rotation tests; mid-term and final examination through: |
|--------|--|-------------------------------------|--|
| 1. | Instruments and chair position- demonstration. | 1. Chair- side teaching | 1. OSCEs |
| 2. | History taking and clinical examination, treatment planning. | 2. Teaching on models. | 2. Chair-side viva |
| 3. | Interpretation of radiographs | 3. Teaching in radiology department | 3. Direct observation of clinical skills 4. Direct observation of procedural skills |

| | | | |
|-----|---|--------------------------------|---|
| | (Peri-apical, bitewing, OPG and occlusal) | 4. Teaching on extracted teeth | <p>Will be assessed during:</p> <ol style="list-style-type: none"> 1. Daily supervision 2. End-of rotation test (Ward test) |
| 4. | Correct usage of instruments. (patients) | 5. Supervised work on patients | |
| 5. | Administration of Local anesthesia. (patients) | | |
| 6. | Open and closed Extraction of teeth | | |
| 7. | Emergency management (patients) | | |
| 8. | Pre-operative assessment of medical conditions. | | |
| 9. | Post –operative care and homeostasis. | | |
| 10. | Management of Infection. | | |
| 11. | Suturing on foam suturing board. | | |
| 12. | Eyelet wiring on the plaster model. | | |

ORAL SURGERY CLINICAL ROTATION WEEKLY SCHEDULE

ORIENTATION SESSION:

- Introduction to department.
- Introduction to demonstrators/lecturers.
- Effective communication.
- Code of conduct:
 - OPD timings (Punctuality)
 - Dress code
 - Lab coat
 - Tied-up hair
 - Covered shoes etc.
- Hand wash technique.
- Briefing about;
 - Dental units,
 - Instruments,
 - Diagnosis and
 - Patients' record maintenance
 - Log book maintenance
- Cross infection control.

Final Year OPD Rotation

Nine Weeks

WEEK No. 1

DAY 1:

10:30 AM to 11:30 AM (Orientation)

11:30 AM to 12:30 PM (History taking Demonstration)

12:30 PM to 01:30 PM (Patient history and short case presentation)

DAY 2:

10:30 AM to 11:30 AM (Diagnosis, general and intra-oral examination Demonstration)

11:30 AM to 12:30 PM (Radiograph Demonstration)

- Identifying the radiographs.
- Assessment of radiographs.

12:30 PM to 01:30 PM (Patient history and Diagnosis)

DAY 3:

10:30 AM to 12:00 AM (Examination cranial nerves)

12:00 AM to 12:30 PM (Patient history and diagnosis)

12:30 PM to 01:30 PM (Diagnosis)

DAY 4:

10:30 AM to 11:30 AM (Local anesthesia Demonstration)

11:30 AM to 12:30 PM (Patient history and Diagnosis)

12:30 PM to 01:30 PM (Diagnosis)

TABLE 1-A

| STUDE NTS | DEMONSTRA TORS | 11:30 PM TO 12:50 PM | 12:50 PM TO 01:20 PM | 01:20 PM TO 01:30 PM |
|----------------------|---------------------------|---------------------------------|---------------------------------|---------------------------------|
|----------------------|---------------------------|---------------------------------|---------------------------------|---------------------------------|

| | | | | |
|---|-----|-------------------------------|-------------------------------|----------------|
| 1 | D-1 | Diagnosis supervision | Patient procedure supervision | Log book entry |
| 2 | D-1 | Patient procedure supervision | Diagnosis supervision | Log book entry |
| 3 | D-1 | Diagnosis supervision | Patient procedure supervision | Log book entry |
| 4 | D-2 | Diagnosis supervision | Patient procedure supervision | Log book entry |
| 5 | D-2 | Patient procedure supervision | Diagnosis supervision | Log book entry |
| 6 | D-2 | Log book entry | Patient procedure supervision | Log book entry |
| 7 | D-3 | Diagnosis supervision | Patient procedure supervision | Log book entry |
| 8 | D-3 | Patient procedure supervision | Diagnosis supervision | Log book entry |

| | | | | |
|----|-----|-------------------------------|-------------------------------|----------------|
| 9 | D-3 | Diagnosis supervision | Patient procedure supervision | Log book entry |
| 10 | D-4 | Diagnosis supervision | Patient procedure supervision | Log book entry |
| 11 | D-4 | Patient procedure supervision | Diagnosis supervision | Log book entry |
| 12 | D-4 | Diagnosis supervision | Patient procedure supervision | Log book entry |

Day 5:

10:30 AM to 11:00 AM (Patient history and Diagnosis)

11:00 AM to 12:00 PM (Diagnosis) – See Table 1-B

TABLE 1-B

| STUDENTS | DEMONSTRATORS | 11:00 PM TO 11:20 AM | 11:20 AM TO 11:50 AM | 11:50 AM TO 12:00 PM |
|-----------------|----------------------|-------------------------------|-------------------------------|-----------------------------|
| 1 | D-1 | Diagnosis supervision | Patient procedure supervision | Log book entry |
| 2 | D-1 | Patient procedure supervision | Diagnosis supervision | Log book entry |

| | | | | |
|----|-----|-------------------------------|-------------------------------|----------------|
| 3 | D-1 | Diagnosis supervision | Patient procedure supervision | Log book entry |
| 4 | D-2 | Diagnosis supervision | Patient procedure supervision | Log book entry |
| 5 | D-2 | Patient procedure supervision | Diagnosis supervision | Log book entry |
| 6 | D-2 | Log book entry | Patient procedure supervision | Log book entry |
| 7 | D-3 | Diagnosis supervision | Patient procedure supervision | Log book entry |
| 8 | D-3 | Patient procedure supervision | Diagnosis supervision | Log book entry |
| 9 | D-3 | Diagnosis supervision | Patient procedure supervision | Log book entry |
| 10 | D-4 | Diagnosis supervision | Patient procedure supervision | Log book entry |

| | | | | |
|----|-----|-------------------------------|-------------------------------|----------------|
| 11 | D-4 | Patient procedure supervision | Diagnosis supervision | Log book entry |
| 12 | D-4 | Diagnosis supervision | Patient procedure supervision | Log book entry |

Week 2 to 7:

- **Further demonstrations and practicing of these demonstrations along with patient extraction procedures, hemostasis and Post-operative care management, Presentations.**
- BLS/ATLS introduction and basic steps.
- Suturing.
- Wiring (IMF).

WEEK 8, 9:

End-of-rotation Assessment (Ward test)

THIRD AND FINAL YEAR CLINICAL AND TUTORIAL TOPICS

1. Instruments and handling.
2. Hypersensitivity reactions and management.
3. Chest discomfort and its management.
4. Respiratory problems and their management.
5. Hematological problems and their management.
6. Neurological disorders and management.
7. Diabetes mellitus and its management.
8. Adrenal insufficiency and management.
9. Vasovagal syncope: its mechanism and management.
10. Hepatic problems and its management.
11. Renal problems and its management.
12. Suturing techniques (performance on suturing board).
13. How to make an eyelet.
14. Nerve supply of all maxillary and mandibular teeth.
15. Pharmacokinetics and Pharmacodynamics of following drugs:
 - i. Amoxil.
 - ii. Flagyl.
 - iii. Velocef.
 - iv. Panadol.
 - v. Brufen.
16. Local anesthesia:
 - i. Classification.
 - ii. L.A ingredients.
 - iii. Mechanism of Action.
 - iv. Toxicity.

OPD SCHEDULE THIRD YEAR

| DAYS | Mon | Tue | Wed | Thu | Fri | Sat |
|--------------|----------------------------------|-------------------------|---------------------------------|-----|-----|-----|
| | DEMO (10:30-11:30) | SKILLS (11:00-12:00) | PRESENTATION (12:00-12:30) | - | - | |
| WEEKS | | | | | | |
| 1 | History | | Antibiotics (Amoxil/Flagyl) | - | - | |
| 2 | Examination (oral and nerves) | | Pain killer (Panadol/Nsaids) | - | - | |
| 3 | Patient/Operator Positioning | | Nerve supply | - | - | |
| 4 | Suturing Technique | | Local anesthesia | - | - | |

OPD SCHEDULE FINAL YEAR

| DAYS | Mon | Tue | Wed | Thu | Fri | Sat |
|--------------|-----------------------|-------------------------------|--------------------------------------|------------------------|-----|-----|
| | SKILLS (1:00-1:30) | PRESENTATION (12:30-1:30) | CASE PRESENTATION (12:30-1:30) | SKILLS (12:00-1:00) | - | - |
| WEEKS | | | | | | |
| 1 | History | Hypersensitivity reactions | | | | |

| | | |
|---|--------------------------------------|----------------------------|
| 2 | Examination (general- LN/oral) | Chest discomfort |
| 3 | Examination (Cranial nerves) | Respiratory problems |
| 4 | Examination (TMJ) | Hematological problems |
| 5 | Local Anesthesia | Diabetes mellitus |
| 6 | BLS/ATLS | Vasovagal insufficiency |
| 7 | Suturing | LA toxicity |
| 8 | Wiring (IMF) | Hepatic problems |