NICOLAE TESTEMIŢANU

PI STATE UNIVERSITY OF MEDICINE AND PHARMACY

FACULTY OF DENTISTRY

DEPARTMENT OF OAL AND MAXILLOFACIAL SURGERY

AND ORAL IMPLANTOLOGY „ARSENIE GUȚAN”

Teaching guide

3rd year, 5th semester

Subject: Odontectomy

Type of subject: Compulsory

Code of subject: S.05.O.047

**Head of Department, dr.hab.in.med.sci., univ.prof Chele Nicolae**

**Study Coordinator, PhD, assoc.prof. Motelica Gabriela**

**Teaching Guide No. 1**

**Topic: Instruments used in dentoalveolar and maxillofacial surgery.**

**Workplace:** Clinical Outpatient Foundations of the Department.

**Objective of the work:** To understand the structure and usage of instruments in dentoalveolar and maxillofacial surgery.

**Method and duration:** Seminar and practical work, 135 minutes.

***Control Questions:***

1. The history of instruments used in oral and maxillofacial surgery.
2. Classification of instruments used in oral and maxillofacial surgery.
3. Basic instruments used for tooth extraction:
	* Classification and structure of forceps. *To be drawn*.
	* Classification and structure of elevators. *To be drawn*.
4. Additional instruments used for tooth extraction (elevators, curettes, scalpel, periosteal elevators, surgical burs, forceps, bone rongeurs, rasps, mallets and chisels, needle holders, scissors, Farabeuf mouth gags, mouth retractors).

Bibliography

1. Lecture topics.
2. Chele N., Motelica G., Zănoagă O., Slabari E. Extracția dentară – tehnici, accidente și complicații. Chişinău: S.n., 2022.
3. Timoşca G., Burlibaşa C. Chirurgie buco-maxilo-facială. Chişinău: Universitas, 1992.
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7. Hupp James R., Ellis III Edward, Tucker Myron R. Contemporary Oral and Maxillofacial Surgery. Fifth Edition. Mosby Elsevier, 2008.
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9. Moore U. J. Principles of Oral and Maxillofacial Surgery. Sixth Edition, Wiley-Blackwell, 2011.
10. Peterson Larry. Principles of Oral and Maxillofacial Surgery. Second Edition, BC Decker Inc, 2004.

**Teaching Guide No. 2**

**Topic: Tooth Extraction. Indications and Сontraindications. Pre-extraction Preparations.**

**Workplace:** Clinical Outpatient Foundations of the Department.

**Objective of the Activity:** To comprehend the indications, contraindications, and the preparation required for both patients and physicians prior to performing dental extractions.

**Method and Duration:** Seminar and Practical Session, 135 minutes.

***Control Questions:***

1. Definition and historical overview of tooth extraction.
2. Indications for tooth extraction.
3. Contraindications (relative and absolute) for tooth extraction.
4. Patient preparation for dental extraction.
5. Physician preparation for dental extraction.

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1. Lecture topics.
2. Chele N., Motelica G., Zănoagă O., Slabari E. Extracția dentară – tehnici, accidente și complicații. Chişinău: S.n., 2022.
3. Timoşca G., Burlibaşa C. Chirurgie buco-maxilo-facială. Chişinău: Universitas, 1992.
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9. Moore U. J. Principles of Oral and Maxillofacial Surgery. Sixth Edition, Wiley-Blackwell, 2011.
10. Peterson Larry. Principles of Oral and Maxillofacial Surgery. Second Edition, BC Decker Inc, 2004.

**Teaching Guide No. 3**

**Topic: Technique and stages of tooth extraction with forceps and elevators. Minimally invasive extraction techniques.**

**Workplace:** Clinical Outpatient Foundations of the Department.

**Objective of the Activity: To** understand the technique and stages of tooth extraction using forceps, elevators, and alternative systems.

**Method and Duration:** Seminar and Practical Session, 135 minutes.

***Control Questions:***

1. General principles of technique in tooth extraction.
2. Indications for the use of forceps.
3. Indications for the use of elevators.
4. Basic stages in tooth extraction using forceps.
5. Basic stages in tooth extraction using elevators.
6. Supplementary stages in tooth extraction.
7. Minimally invasive extraction techniques using periotomes, piezotomes, and alternative systems (such as "Benex Root Control" and others).

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1. Lecture topics.
2. Chele N., Motelica G., Zănoagă O., Slabari E. Extracția dentară – tehnici, accidente și complicații. Chişinău: S.n., 2022.
3. Timoşca G., Burlibaşa C. Chirurgie buco-maxilo-facială. Chişinău: Universitas, 1992.
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5. Кулакова А. А., Робустова Т. Г., Неробеева А. И. Хирургическая стоматология и челюстно-лицевой хирургия. Москва: ГэотарМедия, 2010.
6. Тимофеев А. А.Челюстно-лицевой хирургия. Киев: Медицина, 2015.
7. Hupp James R., Ellis III Edward, Tucker Myron R. Contemporary Oral and Maxillofacial Surgery. Fifth Edition. Mosby Elsevier, 2008.
8. Koerner Karl R. Manual of Minor Oral Surgery for the General Dentist. Blackwell Munksgaard, 2006.
9. Moore U. J. Principles of Oral and Maxillofacial Surgery. Sixth Edition, Wiley-Blackwell, 2011.
10. Peterson Larry. Principles of Oral and Maxillofacial Surgery. Second Edition, BC Decker Inc, 2004.

**Teaching Guide No. 4**

**Topic: Extraction of upper arch teeth.**

**Workplace:** Clinical Outpatient Foundations of the Department.

**Objective of the Activity:** To understand the method of extracting teeth from the upper dental arch.

**Method and Duration:** Seminar and Practical Session, 135 minutes.

***Control Questions***:

1. Surgical instruments for superior teeth extraction.
2. Anesthesia methods used for the upper jaw.
3. Specifics of extracting upper incisors (physician and patient positions, type of anesthesia, and instruments used).
4. Specifics of extracting upper canines (physician and patient positions, type of anesthesia, and instruments used).
5. Specifics of extracting upper premolars (physician and patient positions, type of anesthesia, and instruments used).
6. Specifics of extracting the first two upper molars (physician and patient positions, type of anesthesia, and instruments used).

Bibliography

1. Lecture topics.
2. Chele N., Motelica G., Zănoagă O., Slabari E. Extracția dentară – tehnici, accidente și complicații. Chişinău: S.n., 2022.
3. Timoşca G., Burlibaşa C. Chirurgie buco-maxilo-facială. Chişinău: Universitas, 1992.
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8. Koerner Karl R. Manual of Minor Oral Surgery for the General Dentist. Blackwell Munksgaard, 2006.
9. Moore U. J. Principles of Oral and Maxillofacial Surgery. Sixth Edition, Wiley-Blackwell, 2011.
10. Peterson Larry. Principles of Oral and Maxillofacial Surgery. Second Edition, BC Decker Inc, 2004.

**Teaching Guide No. 5**

**Topic: Extraction of Lower Arch Teeth. Recap No. 1**

**Workplace:** Clinical Outpatient Foundations of the Department.

**Objective of the Activity:** To understand the method of extracting teeth from the lower dental arch.

**Method and Duration:** Seminar and Practical Session, 135 minutes.

***Control Questions:***

1. Necessary instruments for extracting lower arch teeth.
2. Anesthesia methods used for the inferior jaw.
3. Specifics of extracting lower incisors (physician and patient positions, type of anesthesia, and instruments used).
4. Specifics of extracting lower canines (physician and patient positions, type of anesthesia, and instruments used).
5. Specifics of extracting lower premolars (physician and patient positions, type of anesthesia, and instruments used).
6. Specifics of extracting the first two lower molars (physician and patient positions, type of anesthesia, and instruments used).

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1. Lecture topics.
2. Chele N., Motelica G., Zănoagă O., Slabari E. Extracția dentară – tehnici, accidente și complicații. Chişinău: S.n., 2022.
3. Timoşca G., Burlibaşa C. Chirurgie buco-maxilo-facială. Chişinău: Universitas, 1992.
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10. Peterson Larry. Principles of Oral and Maxillofacial Surgery. Second Edition, BC Decker Inc, 2004.

**Teaching Guide No. 6**

**Topic: Extraction of Upper Third Molars.**

**Workplace:** Clinical Outpatient Foundations of the Department.

**Objective of the Activity:** To understand the principles and methods of performing extractions of upper third molars.

**Method and Duration:** Seminar and Practical Session, 135 minutes.

***Control Questions:***

1. Indications for the extraction of maxillary third molars.
2. Contraindications for the extraction of upper third molars.
3. Classification of upper third molars (based on sagittal and transverse position, relationship with second molars, relation to maxillary sinus, covering tissue nature).
4. Techniques for performing mucoperiosteal flaps.
5. Types of flaps. *To be drawn*.
6. Techniques for extracting upper third molars. Necessary instruments.
7. Types of sutures. *To be drawn*.
8. Intraoperative accidents during upper third molar extraction. Prevention.

Bibliography

1. Lecture topics.
2. Chele N., Motelica G., Zănoagă O., Slabari E. Extracția dentară – tehnici, accidente și complicații. Chişinău: S.n., 2022.
3. Timoşca G., Burlibaşa C. Chirurgie buco-maxilo-facială. Chişinău: Universitas, 1992.
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10. Peterson Larry. Principles of Oral and Maxillofacial Surgery. Second Edition, BC Decker Inc, 2004.

**Teaching Guide No. 7**

**Topic: Extraction of Lower Third Molars.**

**Workplace:** Clinical Outpatient Foundations of the Department.

**Objective of the Activity:** To understand the principles and methods of performing extractions of lower third molars.

**Method and Duration:** Seminar and Practical Session, 135 minutes.

***Control Questions:***

1. Indications for the extraction of mandibular third molars.
2. Contraindications for the extraction of lower third molars.
3. Classification of lower third molars (based on sagittal and transverse position, relationship with second molars, relation to the ascending ramus, relationship with the mandibular canal, covering tissue nature).
4. Techniques for performing mucoperiosteal flaps.
5. Types of flaps. *To be drawn*.
6. Surgical approaches for extracting mandibular third molars. Used instruments.
7. Suture materials. Classification. Types.
8. Suturing techniques. *To be drawn*.
9. Intraoperative accidents during inferior third molar extraction. Prevention.

Bibliography

1. Lecture topics.
2. Chele N., Motelica G., Zănoagă O., Slabari E. Extracția dentară – tehnici, accidente și complicații. Chişinău: S.n., 2022.
3. Timoşca G., Burlibaşa C. Chirurgie buco-maxilo-facială. Chişinău: Universitas, 1992.
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10. Peterson Larry. Principles of Oral and Maxillofacial Surgery. Second Edition, BC Decker Inc, 2004.

**Teaching Guide No. 8**

**Topic: Extraction by Alveolotomy.**

**Workplace**: Clinical Outpatient Foundations of the Department.

**Objective of the Activity:** To understand the principles and methods of extraction through alveolotomy.

**Method and Duration:** Seminar and Practical Session, 135 minutes.

***Control Questions:***

1. Alveolotomy: definition, indications.
2. Types of alveolotomy (partial, total): definition.
3. Types of incisions in partial and total alveolotomy. To be drawn.
4. Partial alveolotomy. Indications. Surgical techniques.
5. Total alveolotomy. Indications. Surgical techniques.
6. Instruments used in alveolotomy.

Bibliography

1. Lecture topics.
2. Chele N., Motelica G., Zănoagă O., Slabari E. Extracția dentară – tehnici, accidente și complicații. Chişinău: S.n., 2022.
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10. Peterson Larry. Principles of Oral and Maxillofacial Surgery. Second Edition, BC Decker Inc, 2004.

**Teaching Guide No. 9**

**Topic: Management of post-extraction dental wound and its healing. Recap No. 2**

**Workplace:** Clinical Outpatient Foundations of the Department.

**Objective of the Activity**: To understand the stages of care for post-extraction dental wounds and the healing processes involved.

**Method and Duration:** Seminar and Practical Session, 135 minutes.

***Control Questions:***

1. Approach to a normal alveolar wound.
2. Approach to an infected alveolar wound.
3. Approach to crushed alveolar wounds.
4. Post-extraction recommendations.
5. Healing of post-extraction dental wounds.

Bibliography

1. Lecture topics.
2. Chele N., Motelica G., Zănoagă O., Slabari E. Extracția dentară – tehnici, accidente și complicații. Chişinău: S.n., 2022.
3. Timoşca G., Burlibaşa C. Chirurgie buco-maxilo-facială. Chişinău: Universitas, 1992.
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10. Peterson Larry. Principles of Oral and Maxillofacial Surgery. Second Edition, BC Decker Inc, 2004.

**Teaching Guide No. 10**

**Topic: Specifics of dental extractions in patients with systemic medical conditions.**

**Workplace**: Clinical Outpatient Foundations of the Department.

**Objective of the Activity**: To understand the specifics of dental extractions in patients with various coexisting medical conditions.

**Method and Duration:** Seminar and Practical Session, 135 minutes.

***Control Questions:***

1. Specifics of dental extractions in patients with respiratory system conditions (bronchial asthma, chronic obstructive pulmonary disease).
2. Specifics of dental extractions in patients with cardiovascular system conditions (angina pectoris, myocardial infarction, chronic heart failure, high/low blood pressure).
3. Specifics of dental extractions in patients with endocrine system conditions (diabetes mellitus).
4. Specifics of dental extractions in patients with digestive system conditions (hepatitis and liver cirrhosis).
5. Specifics of dental extractions in patients with renal conditions (chronic renal failure).
6. Indications for performing dental extractions in a hospital setting.

Bibliography

1. Lecture topics.
2. Chele N., Motelica G., Zănoagă O., Slabari E. Extracția dentară – tehnici, accidente și complicații. Chişinău: S.n., 2022.
3. Timoşca G., Burlibaşa C. Chirurgie buco-maxilo-facială. Chişinău: Universitas, 1992.
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10. Peterson Larry. Principles of Oral and Maxillofacial Surgery. Second Edition, BC Decker Inc, 2004.

**Teaching Guide No. 11**

**Topic: Specifics of dental extractions in patients on antithrombotic treatment.**

**Workplace:** Clinical Outpatient Foundations of the Department.

**Objective of the Activity**: To understand the specifics of dental extractions in patients undergoing antithrombotic treatment.

**Method and Duration**: Seminar and Practical Session, 135 minutes.

***Control Questions:***

1. Antithrombotic medication: definition, purpose of administration.
2. Classification of antithrombotic medication.
3. Characteristics of platelet antiaggregants (acetylsalicylic acid, clopidogrel). Mechanism of action. Assessment of bleeding risk. Approach in the dental office.
4. Vitamin K antagonists (acenocoumarol, warfarin). Mechanism of action. Assessment of bleeding risk. Approach in the dental office.
5. Novel oral anticoagulants (dabigatran, rivaroxaban, apixaban, edoxaban). Mechanism of action. Assessment of bleeding risk. Approach in the dental office.

Bibliography

1. Lecture topics.
2. Chele N., Motelica G., Zănoagă O., Slabari E. Extracția dentară – tehnici, accidente și complicații. Chişinău: S.n., 2022.
3. Timoşca G., Burlibaşa C. Chirurgie buco-maxilo-facială. Chişinău: Universitas, 1992.
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**Teaching Guide No. 12**

**Topic: Antibiotic prophylaxis in dental-alveolar and maxillofacial surgery.**

**Workplace:** Clinical Outpatient Foundations of the Department.

**Objective of the Activity:** To understand the protocols of antibiotic prophylaxis used in dental-alveolar and maxillofacial surgery.

**Method and Duration:** Seminar and Practical Session, 135 minutes.

***Control Questions:***

1. Antibiotic prophylaxis: definition, epidemiological data.
2. Indications for antibiotic prophylaxis.
3. Antibacterial prophylaxis regimens.

Bibliography

1. Lecture topics.
2. Zănoagă O. Asistența stomatologică ambulatorie la pacienții cu diverse afecțiuni concomitente. Chişinău: S.n., 2023.
3. Zănoagă O., Chele N. Antibiotic prophylaxis in dentoalveolar and maxillofacial surgery. Chișinău: Medicina, 2020.
4. Zănoagă O., Chele N. Antibioticoprofilaxia în chirurgia dento-alveolară și maxilo-facială. Chișinău: Medicina, 2020.
5. Zănoagă O., Chele N., Topalo V., Șcerbatiuc D., Cebotari M., Sîrbu D., Suharschi I. Hemoragia postextracţională dentară la adult. Protocol clinic național. 2020.
6. Zănoagă O., Topalo V., Șcerbatiuc D., Sîrbu D., Suharschi I., Cebotari M., Chele N. Antithrombotic treatment – a risc factor in oral surgery. Chișinău: Medicina, 2021.
7. Анисимова Е. Н. Стоматологическая помощъ пациентам с сопутствующей патологией. Москва, 2016.
8. Робустова Т. Г. Хирургическая стоматология и челюстно-лицевой хирургия. Москва: Гэотар Медия, 2010.
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13. Peterson Larry. Principles of Oral and Maxillofacial Surgery. Second Edition, BC Decker Inc, 2004.

**Teaching Guide No. 13**

**Topic: Complications of dental extractions.**

**Workplace:** Clinical Outpatient Foundations of the Department.

**Objective of the Activity:** To understand the complications of dental extractions, their treatment, and prevention.

**Method and Duration:** Seminar and Practical Session, 135 minutes.

***Control Questions:***

1. Classification of complications of dental extractions.
2. Dental injuries: diagnosis, treatment, prevention.
3. Soft tissue injuries around the maxilla: diagnosis, treatment, prevention.
4. Bone injuries: diagnosis, treatment, prevention.
5. Sinus accidents: diagnosis, treatment, prevention.
6. Tooth displacement into perimaxillary spaces: diagnosis, treatment, prevention.
7. Nerve injuries: diagnosis, treatment, prevention.
8. Temporomandibular joint dislocation: diagnosis, treatment, prevention.
9. Other accidents (swallowing dental or bone fragments, instrument fracture): diagnosis, treatment, prevention.

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**Teaching Guide No. 14**

**Topic: Post-extraction dental haemorrhage.**

**Workplace:** Clinical Outpatient Foundations of the Department.

**Objective of the Activity:** To understand the etiological factors, clinical presentation, treatment methods, and prevention of post-extraction dental haemorrhage.

**Method and Duration:** Seminar and Practical Session, 135 minutes.

***Control Questions:***

1. Post-extraction dental haemorrhage: definition, classification.
2. Etiological factors involved in the occurrence of haemorrhage.
3. Clinical presentation of post-extraction haemorrhage.
4. Local treatment methods (compressive supra- and intra-alveolar packing, suturing, electrocoagulation, use of chemical agents).
5. Local haemostatic agents: definition, classification.
6. Active haemostatic agents (thrombin and fibrin glue).
7. Passive haemostatic agents (collagen-based products, oxidized cellulose, resorbable gelatin sponges, bone wax).
8. Method of ensuring post-extraction dental haemostasis through local application of human thrombin and 5% aminocaproic acid.
9. Properties of the ideal haemostatic agent.
10. General treatment of patients with bleeding disorders.
11. Prevention of post-extraction dental haemorrhage.

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**Teaching Guide No. 15**

**Topic: Post-extraction alveolitis. Recap No. 3.**

**Workplace:** Clinical Outpatient Foundations of the Department.

**Objective of the Activity:** To understand the etiological factors, clinical presentation, progression, treatment, and prevention of post-extraction alveolitis.

**Method and Duration**: Seminar and Practical Session, 135 minutes.

***Control Questions:***

1. Post-extraction alveolitis: definition, etiopathogenesis.
2. Anatomopathological forms of alveolitis.
3. Symptomatology and progression of post-extraction alveolitis.
4. Treatment methods for alveolitis.
5. Prevention of post-extraction alveolitis.

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