Topic Nr. 1 ( IV year, VII semester)

Theme: Trauma in OMF surgery. Classification by etiology, frequency. Types and basic principles of medical care of traumatic lesions.

Work place: Oral & Maxillofacial Surgery Department, IMSP IMU - Emergency hospital.

Purpose: During the lesson students acquire knowledge about main types of injuries in OMF, classification, basic principles of medical care of the patients with traumatic injuries, fill in the patients medical history. Participate in patients treatment.

Work plan:

 1. Discussion on the topic – 30 min.

 2. Demonstration of the thematic patient – 30 min.

 3. Work with the patients – 205 min.

 4. Generalization – 5 min.

Questions:

1. General data about anatomy of the soft tissue and maxillaries bones
2. Classification of the trauma in OMF by:
3. damaged tissues
4. traumatic agent (aggression trauma, sport trauma, car accident trauma etc.)
5. human activity (agriculture, industry, daily life etc.)
6. Frequency of traumatic lesions in OMF territory
7. Examination of the patients with OMF trauma
8. Types, basic principles of medical care of the patients with traumatic injuries.

*Practical skills:* establishing diagnosis, first medical aid training.

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1. Lecture materials.
2. Larry J. Peterson „Contemporary Oral and Maxillofacial Surgery”, fourth edition, 2003, USA.
3. Peterson's Principles of Oral and Maxillofacial Surgery 2nd Ed 2004
4. Burlibaşa, C. Chirurgie orală şi maxilofacială. Bucureşti : Editura medicală, 2003. – P. 653-697.
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6. Hîţu D. Traumatismul etajului mijlociu al feţei. Chişinău, 2008.
7. Procopenco Olga. „Fracturile complexului zigomatic și tratamentul lor” Autoreferatul tezei de doctor în medicină. Chişinău, 2015.
8. Popovici T. V. Traumatismul asociat al regiunii maxilo-facială. Elaborare metodică. Chişinău, 1999.
9. Rusu N. Căile contemporane de reglare a regenerării tegumentare tegumentare în tratamentul plăgilor regiunii maxilo-faciale. Autoreferatul tezei de doctor în medicină. Chişinău, 2008.
10. Radzichevici Mihail. „Sporirea eficacităţii tratamentului chirurgical a osteomielitelor posttraumatice a mandibulei”. Autoreferatul tezei de doctor în medicină. Chişinău, 2011.
11. Sîrbu D. Osteosinteza mandibulei prin acces endooral. Autoreferat al tezei de doctor în medicină. Chişinău, 2005, Pag. 16-19.

Topic Nr. 2 ( IV year, VII semester)

Theme: Facial and oral cavity wounds. Anatomo-clinical features. Treatment

Work place: Oral & Maxillofacial Surgery Department, IMSP IMU - Emergency hospital

Purpose: During the lesson students acquire knowledge about main types facial and oral cavity wounds, classification, basic principles of medical care of the patients with facial and oral cavity wounds, fill in the patients medical history. Participate in patients tratment.

Work plan:

 1. Discussion on the topic – 30 min.

 2. Demonstration of the thematic patient – 30 min.

 3. Work with the patients – 205 min.

 4. Generalization – 5 min.

Questions:

1. Anatomical particularities of the soft tissues in OMF territory
2. Etiology, classification
3. Anatomo-clinical features of: contusion (*contusio*), excoriation (*excoriātus*), cut wounds (*vulnus incisum*), penetrating wounds, transfixiation wounds, crush wounds (*vulnus contusum*), bite wounds (*vulnus morsum*), gunshot wounds (*vulnus sclopetarium*)
4. Clinical signs and symptoms
5. Complications (immediate, early, secondary, late)
6. Emergency treatment of: severe immediate complications, severe combined wounds, other types of wounds
7. Treatment of the OMF soft issue trauma
8. Wound dressing, drainage, oral cavity hygiene, alimentation
9. Late treatment of OMF wounds

*Practical skills:* treatment of facial bleeding – wound dressing, tamponade (nasal packing), medication

Bibliography

1. Lecture materials.
2. Larry J. Peterson „Contemporary Oral and Maxillofacial Surgery”, fourth edition, 2003, USA.
3. Peterson's Principles of Oral and Maxillofacial Surgery 2nd Ed 2004
4. Hîţu D. Plăgile faciale(curs teoretic). Buletinul Academiei de Ştiinţe a Moldovei. Ştiinţe medicale. Chişinău. 1(10) 2007.
5. Rusu N. Căile contemporane de reglare a regenerării tegumentare în tratamentul plăgilor regiunii maxilo-faciale. Autoreferatul tezei de doctor în medicină. Chişinău, 2008.

Topic Nr. 3 ( IV year, VII semester)

Theme: Teeth and periodontium trauma. Etiology, classification, clinical picture, treatment.

Work place: Ambulatory dental clinic.

Purpose: During the lesson students acquire knowledge about main types of teeth and periodontium trauma, classification, basic principles of medical care of the patients with teeth and periodontium trauma, fill in the patients medical history. Participate in patients treatment.

Work plan:

 1. Discussion on the topic – 30 min.

 2. Demonstration of the thematic patient – 30 min.

 3. Work with the patients – 205 min.

 4. Generalization – 5 min

Questions:

1. Functional morphology of the teeth and periodontium
2. General data about trauma of the teeth and periodontium
3. Etiology and pathological anatomy of the trauma of teeth and periodontium
4. Classification of the trauma of teeth and periodontium: luxations, fractures
5. Teeth trauma: (fissures, crown fractures without and with penetration into the pulp chamber, root fractures, combined root-crown fractures)
6. Examination: anamnesis, clinical examination, x-ray examination
7. Evolution
8. Treatment
9. Periodontium trauma: (contusions, partial dental luxation, total luxation)
10. Clinical picture depending on the type of lesion
11. Evolution
12. Treatment
13. Reinsertion technique of a totally luxated tooth
14. Immobilization technique

 *Practical skills:* treatment and immobilization of mandible luxation

Bibliography

1. Lecture materials.
2. Larry J. Peterson „Contemporary Oral and Maxillofacial Surgery”, fourth edition, 2003, USA.
3. Peterson's Principles of Oral and Maxillofacial Surgery 2nd Ed 2004
4. Hîţu D. Traumatismul etajului mijlociu al feţei. Chişinău, 2008.

Topic Nr. 4 ( IV year, VII semester)

Theme: Nasoethmoid fractures. Etiology, classification, clinical types, diagnosis, treatment.

Work place: Oral & Maxillofacial Surgery Department, IMSP IMU - Emergency hospital

Purpose: During the lesson students acquire knowledge about main types of nasoethmoid fractures, classification, basic principles of medical care of the patients with nasoethmoid fractures, fill in the patients medical history. Participate in patients tratment.

Work plan:

 1. Discussion on the topic – 30 min.

 2. Demonstration of the thematic patient – 30 min.

 3. Work with the patients – 205 min.

 4. Generalization – 5 min

Questions:

1. General data about trauma of nasal pyramid. Mechanism of the traumatic lesion, statistic data.
2. Anoto-clinical types: trauma of the nasal bones, cartilage, nasal pyramid
3. Classification of the nasal pyramid trauma
4. Clinical picture of trauma of the nasal bones, cartilage, nasal pyramid
5. Diagnosis
6. Treatment and immobilization

*Practical skills:* anterior and posterior nasal packing (tamponade)

 Bibliography

1. Lecture materials.
2. Larry J. Peterson „Contemporary Oral and Maxillofacial Surgery”, fourth edition, 2003, USA.
3. Peterson's Principles of Oral and Maxillofacial Surgery 2nd Ed 2004
4. Hîţu D. Traumatismul etajului mijlociu al feţei. Chişinău, 2008.

Topic Nr. 5 (IV year, VII semester)

Theme: Maxilla fractures. Etiology, classification, clinical types, diagnosis, treatment.

Work place: Oral & Maxillofacial Surgery Department, IMSP IMU - Emergency hospital

Purpose: During the lesson students acquire knowledge about main types of maxilla fractures, classification, basic principles of medical care of the patients with maxilla fractures, fill in the patients medical history. Participate in patients treatment.

Work plan:

 1. Discussion on the topic – 30 min.

 2. Demonstration of the thematic patient – 30 min.

 3. Work with the patients – 205 min.

 4. Generalization – 5 min

Questions:

1. Anatomy of the face region
2. Etiology, classification, statistic data
3. General data about maxilla fractures: horizontal, vertical, oblique, pyramidal, comminuted
4. Fracture mechanism
5. Anatomo-clinical forms: alveolar crest fracture; tuberosity fracture; hard palate fracture; horizontal fractures:
6. Inferior (Le Fort I, Guering)
7. Middle (Le Fort II)
8. Superior (Le Fort III)
9. Diagnosis, evolution
10. Treatment:
11. Emergency treatment: temporary immobilization with mentocephalic bandage, with metal wires ligatures etc.
12. Final treatment: orthopedic; surgical (osteosynthesis with metal wire, mini plates, etc)

*Practical skills:* interdental immobilization with metal splints

Bibliography

1. Lecture materials.
2. Larry J. Peterson „Contemporary Oral and Maxillofacial Surgery”, fourth edition, 2003, USA.
3. Peterson's Principles of Oral and Maxillofacial Surgery 2nd Ed 2004
4. Hîţu D. Traumatismul etajului mijlociu al feţei. Chişinău, 2008.

Topic Nr. 6 (IV year, VII semester)

Theme: Zygomaticomaxillary fractures. Etiology, classification, clinical types, diagnosis, treatment.

Work place: Oral & Maxillofacial Surgery Department, IMSP IMU - Emergency hospital

Purpose: During the lesson students acquire knowledge about main types of zygomaticomaxillary fractures, classification, basic principles of medical care of the patients with zygomaticomaxillary fractures, fill in the patients medical history. Participate in patients treatment.

Work plan:

 1. Discussion on the topic – 30 min.

 2. Demonstration of the thematic patient – 30 min.

 3. Work with the patients – 205 min.

 4. Generalization – 5 min

Questions:

1. Anatomy of the zygomatic complex
2. Zygomaticomaxillary fractures. Etiology, statistic data
3. Anatomo-clinical forms: anterior fractures, posterior fractures
4. Classification
5. Diagnosis
6. Evolution
7. Treatment: fracture reduction (infraorbital, temporal, endooral, sinusal, with metal wire, with miniplates)
8. General treatment.

Bibliography

1. Lecture materials.
2. Larry J. Peterson „Contemporary Oral and Maxillofacial Surgery”, fourth edition, 2003, USA.
3. Peterson's Principles of Oral and Maxillofacial Surgery 2nd Ed 2004
4. Hîţu D. Traumatismul etajului mijlociu al feţei. Chişinău, 2008.
5. Procopenco Olga. „Fracturile complexului zigomatic și tratamentul lor” Autoreferatul tezei de doctor în medicină. Chişinău, 2015.

Topic Nr. 7 (IV year, VII semester)

Theme: Cranio-maxillo-facial fractures and Panfacial fractures. Etiology, clinical types, diagnosis, treatment.

Work place: Oral & Maxillofacial Surgery Department, IMSP IMU - Emergency hospital

Purpose: During the lesson students acquire knowledge about main types of cranio-maxillo-facial fractures and panfacial fractures, classification, basic principles of medical care of the patients with panfacial fractures, fill in the patients medical history. Participate in patients treatment.

Work plan:

 1. Discussion on the topic – 30 min.

 2. Demonstration of the thematic patient – 30 min.

 3. Work with the patients – 205 min.

 4. Generalization – 5 min

Questions:

1. General data about OMF trauma. Mechanism of the trauma, statistic data
2. Anatomo-clinical forms
3. OMF fractures classification
4. Clinical picture of OMF fractures
5. Diagnosis
6. Treatment

Bibliography

1. Lecture materials.
2. Larry J. Peterson „Contemporary Oral and Maxillofacial Surgery”, fourth edition, 2003, USA.
3. Peterson's Principles of Oral and Maxillofacial Surgery 2nd Ed 2004

Topic Nr. 8 (IV year, VII semester)

Theme: Mandible fractures. Etiology, statistic data, mechanism of fracture, classification, clinical types, diagnosis, evolution.

Work place: Oral & Maxillofacial Surgery Department, IMSP IMU - Emergency hospital Purpose: During the lesson students acquire knowledge about main types of mandible fractures, classification, basic principles of medical care of the patients with mandible fractures, fill in the patient medical history. Participate in patient treatment.

Work plan:

 1. Discussion on the topic – 30 min.

 2. Demonstration of the thematic patient – 30 min.

 3. Work with the patients – 205 min.

 4. Generalization – 5 min

Questions:

1. General anatomy of the mandible: anatomical particularities, zones with lower resistance.
2. Statistic data about mandible fracture according to: gender, localization, age, traumatic agent, compared to other facial bones
3. Classification of mandible fractures according to: mechanism of fracture; bone thickness involved in the fracture; numbers of fracture lines; involvement of the periosteum in the fracture; communication with environment; degree of displacement of fractured fragments.
4. Etiology (traumatic causes, pathological causes, surgical causes)
5. Mechanism of fracture and bone fragments displacement; importance of the direction of the hitting force and muscles groups.
6. General clinical pictures for all fractures and specific symptoms for each type of fracture
7. Evolution: healing, factors that influence healing

*Practical skills:* immobilization with LeBlank, Ivy, Ernst metal wire loops

Bibliography

1. Lecture materials.
2. Larry J. Peterson „Contemporary Oral and Maxillofacial Surgery”, fourth edition, 2003, USA.
3. Peterson's Principles of Oral and Maxillofacial Surgery 2nd Ed 2004
4. Burlibaşa, C. Chirurgie orală şi maxilofacială. Bucureşti : Editura medicală, 2003
5. Chele N. Optimizarea tratamentului complex al fracturilor de mandibulă. Teza de doctor în medicină Chişinău 2006.
6. D. Hîţu. Diagnosticul fracturilor de mandibulă(curs teoretic). Medicina Stomatologică. Nr. 1(18), Chişinău, 2011.
7. Radzichevici Mihail. „Sporirea eficacităţii tratamentului chirurgical a osteomielitelor posttraumatice a mandibulei” . Autoreferatul tezei de doctor în medicină. Chişinău, 2011.
8. Sîrbu D. Osteosinteza mandibulei prin acces endooral. Autoreferat al tezei de doctor în medicină. Chişinău, 2005.

Topic Nr. 9 (IV year, VII semester)

Theme: Mandible fractures treatment. Emergency immobilization. Surgical and non-surgical treatment depending on the clinical form of the fracture.

Work place: Oral & Maxillofacial Surgery Department, IMSP IMU - Emergency hospital Purpose: During the lesson students acquire knowledge about main types of mandible fractures, classification, basic principles of medical care of the patients with mandible fractures, fill in the patient medical history. Participate in patient treatment.

Work plan:

 1. Discussion on the topic – 30 min.

 2. Demonstration of the thematic patient – 30 min.

 3. Work with the patients – 205 min.

 4. Generalization – 5 min

Questions:

1. Goals of the mandibular fracture treatment
2. Treatment stages: emergency treatment; primary or final treatment; secondary or maintenance treatment; late or treatment of the complications.
3. Fracture reduction: manual, surgical, combined
4. Immobilization:
5. Emergency immobilization: mentocephalic bandage, interdental and intermaxillary metal wire loops, metal splints
6. Final immobilization: monomaxillary system, bimaxillary system with intermaxillary traction, cranio-mandibular system
7. Surgical treatment – osteosynthesis with: metal wire, miniplates, intramedullary nailing
8. Extra oral osteosynthesis systems
9. Recommendations according to the clinical form of fracture
10. General treatment

Bibliography

1. Lecture materials.
2. Larry J. Peterson „Contemporary Oral and Maxillofacial Surgery”, fourth edition, 2003, USA.
3. Peterson's Principles of Oral and Maxillofacial Surgery 2nd Ed 2004
4. Burlibaşa, C. Chirurgie orală şi maxilofacială. Bucureşti : Editura medicală, 2003.
5. D. Hîţu. Tratamentul ortopedic al fracturilor de mandibulă (curs teoretic). Buletinul Academiei de Ştiinţe a Moldovei. Ştiinţe medicale. Nr. 2, (30) Chişinău, 2011.
6. D. Hîţu.Tratamentul chirurgical al fracturilor de mandibulă (curs teoretic). Medicina Stomatologică. Nr. 2(27), Chişinău, 2013.
7. Chele N. Optimizarea tratamentului complex al fracturilor de mandibulă. Teza de doctor în medicină Chişinău 2006.
8. Sîrbu D. Osteosinteza mandibulei prin acces endooral. Autoreferat al tezei de doctor în medicină. Chişinău, 2005.

Topic Nr. 10 (IV year, VII semester)

Theme: Gunshot trauma of the OMF region. General characteristic, classification, clinical picture, complications.

Work place: Oral & Maxillofacial Surgery Department, IMSP IMU - Emergency hospital

Purpose: During the lesson students acquire knowledge about main types of gunshot trauma, classification, basic principles of medical care of the patients with Gunshot trauma.

Work plan:

 1. Discussion on the topic – 30 min.

 2. Demonstration of the thematic patient – 30 min.

 3. Work with the patients – 205 min.

 4. Generalization – 5 min

Questions:

1. Statistic data and classification of gunshot trauma
2. Organization and surgical treatment in dental clinics
3. Particularities of gunshot traumas of the OMF region
4. Symptoms of gunshot wounds: penetrating wounds, transfixiation wounds, blinde wounds
5. Diagnosis
6. Methods and particularities of OMF gunshot wound management
7. Classification and statistic data about facial bones gunshot wounds
8. Clinical symptoms of facial bones gunshot wounds
9. Diagnosis
10. General and local treatment of patients with gunshot trauma of facial bones

*Practical skills:* patient examination with facial trauma; treatment plan; x-ray analysis; wound dressing

Bibliography

1. Lecture materials.
2. Larry J. Peterson „Contemporary Oral and Maxillofacial Surgery”, fourth edition, 2003, USA.
3. Peterson's Principles of Oral and Maxillofacial Surgery 2nd Ed 2004

Topic Nr. 11 (IV year, VII semester)

Theme: Combined trauma. Burns of the OMF region: etiology, frequency, classification, clinical evolution, first medical help, treatment. Associated trauma.

Work place: Oral & Maxillofacial Surgery Department, IMSP IMU - Emergency hospital

Purpose: During the lesson students acquire knowledge about combined, associated traumas and burns in OMF region.

Work plan:

 1. Discussion on the topic – 30 min.

 2. Demonstration of the thematic patient – 30 min.

 3. Work with the patients – 205 min.

 4. Generalization – 5 min

Questions:

1. Frequency of facial burns
2. Thermal wounds classification
3. Burn disease
4. Particularities of evolution of OMF thermal lesions
5. Treatment of burn disease
6. Particularities of OMF associated trauma
7. Combined trauma (actinic disease): particularities of evolution, treatment

*Practical skills:* patient examination with facial themal trauma; treatment plan; wound dressing

Bibliography

1. Lecture materials.
2. Larry J. Peterson „Contemporary Oral and Maxillofacial Surgery”, fourth edition, 2003, USA.
3. Peterson's Principles of Oral and Maxillofacial Surgery 2nd Ed 2004

Topic Nr. 12 (IV year, VII semester)

Theme: Complications of facial traumas.

Work place: Oral & Maxillofacial Surgery Department, IMSP IMU - Emergency hospital

Purpose: During the lesson students acquire knowledge about main types of trauma complications of OMF region, basic principles of medical care of the patients, fill in the patient medical history. Participate in patient treatment.

Work plan:

 1. Discussion on the topic – 30 min.

 2. Demonstration of the thematic patient – 30 min.

 3. Work with the patients – 205 min.

 4. Generalization – 5 min

Questions:

1. Immediate complications: asphyxia, hemorrhage, traumatic shock, hemorrhagic shock, brain concussion, cerebral edema
2. Asphyxia: etiology, symptoms, diagnosis, treatment, prophylaxis
3. Hemorrhage: etiology, symptoms, diagnosis, treatment, prophylaxis
4. Brain concussion: etiology, symptoms, diagnosis, treatment
5. Traumatic and hemorrhagic shock: etiology, symptoms, diagnosis, treatment
6. Secondary complications of OMF trauma
7. Late complications of OMF trauma

*Practical skills:* complications diagnosis; first medical help in asphyxia and traumatic shock

Bibliography

1. Lecture materials.
2. Larry J. Peterson „Contemporary Oral and Maxillofacial Surgery”, fourth edition, 2003, USA.
3. Peterson's Principles of Oral and Maxillofacial Surgery 2nd Ed 2004

Topic Nr. 13 (IV year, VII semester)

Theme: Traumatic and inflammatory injuries of the TMJ. Osteoarthrosis and TMJ dysfunctional syndrome. Ankylosis and mandibular constriction

Work place: Ambulatory dental clinic.

Purpose: During the lesson students acquire knowledge about main types of TMJ dislications, basic principles of treatment and medical care of the patients with TMJ dislocation, fill in the patient medical history. Participate in patient treatment.

Work plan:

 1. Discussion on the topic – 30 min.

 2. Demonstration of the thematic patient – 30 min.

 3. Work with the patients – 205 min.

 4. Generalization – 5 min

Questions:

1. TMJ anatomy and functions. Classification of TMJ trauma and diseases
2. TMJ contusion: etiology, symptoms, diagnosis, treatment
3. Acute anterior, posterior, lateral TMJ dislocation: etiology, symptoms, diagnosis, treatment
4. Recurrent (repeated) TMJ dislocation: etiology, symptoms, diagnosis, treatment surgical and non-surgical
5. TMJ inflammatory processes: general data, classifications
6. Acute non-specific TMJ arthritis: general data, classification, pathogenesis, symptoms, evolution, complications, diagnosis, treatment
7. Chronic TMJ arthritis: general data, classification, pathogenesis, symptoms, evolution, complications, diagnosis, treatment
8. Specific TMJ arthritis: gonococcical, rheumatological, syphilis, TBC, actinomicosis
9. TMJ osteoarthrosis: general data, etiology, pathogenesis, symptoms, evolution, complications, diagnosis, treatment
10. TMJ ankylosis: general data, etiology, pathogenesis, symptoms, evolution, complications, diagnosis, treatment
11. Mandibular constriction: general data, etiology, pathogenesis, symptoms, evolution, complications, diagnosis, treatment
12. TMJ dysfunctional syndrome: general data, etiology, pathogenesis, symptoms, evolution, complications, diagnosis, treatment

*Practical skills:* patient examination, treatment plan.

Bibliography

1. Lecture materials.
2. Larry J. Peterson „Contemporary Oral and Maxillofacial Surgery”, fourth edition, 2003, USA.
3. Peterson's Principles of Oral and Maxillofacial Surgery 2nd Ed 2004

Topic Nr. 14 (IV year, VII semester)

Theme: Pathology and injuries of the nerves in OMF region: etiology, pathogenesis, symptoms, evolution, diagnosis, treatment.

Work place: Ambulatory dental clinic.

Purpose: During the lesson students acquire knowledge about pathology and injuries of the nerves in OMF region, basic principles of treatment and medical care of the patients with pathology and injuries of the nerves in OMF region, fill in the patient medical history. Participate in patient treatment.

Work plan:

 1. Discussion on the topic – 30 min.

 2. Demonstration of the thematic patient – 30 min.

 3. Work with the patients – 205 min.

 4. Generalization – 5 min

Questions:

1. Anatomy of trigeminal nerve
2. Anatomy of facial nerve
3. Anatomy of glossopharyngeal nerve
4. General data about pathology and injuries of the nerves in OMF region: frequency, classification
5. Trigeminal neuralgia: etiology, pathogenesis, evolution, diagnosis
6. Treatment methods for trigeminal neuralgia:
7. Drugs
8. Physiotherapy
9. Chemical
10. Surgical
11. Prof. I. Munteanu method
12. Trigeminal neuritis: etiology, pathogenesis, evolution, diagnosis, treatment
13. Facial nerve neuritis: etiology, pathogenesis, evolution, diagnosis, treatment
14. Traumatic lesion of facial nerve: pathogenesis, evolution, diagnosis, surgical and non-surgical treatment
15. Surgical treatment of mimic muscles paralysis
16. Facial nerve neuralgia: etiology, frequency, diagnosis, treatment
17. Glossopharyngeal nerve neuralgia: etiology, frequency, diagnosis, treatment
18. Sphenopalatine ganglion neuralgia (Sluder syndrome): etiology, pathogenesis, evolution, diagnosis, treatment
19. Superior laryngeal nerve neuralgia
20. Glosodinia: etiology, symptoms, diagnosis, treatment
21. Neuritis and traumatic lesions of the nerves.

 *Practical skills:* patient examination, treatment plan

Bibliography

1. Lecture materials.
2. Larry J. Peterson „Contemporary Oral and Maxillofacial Surgery”, fourth edition, 2003, USA.
3. Peterson's Principles of Oral and Maxillofacial Surgery 2nd Ed 2004