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Federal State Budget Educational Institution  
of Higher Education  
Pacific State Medical University  
of the Ministry of Health of the Russian Federation

APPROVED BY

Director of the Institute of Dentistry  
\_\_\_\_\_/ Pervov Yu.Yu./  
"8th" of June 2026

## COLLECTION OF ASSESSMENT TOOLS

### B1.C.34 Surgical dentistry of the basic educational program of Higher Education

|                                    |                                                                                                 |
|------------------------------------|-------------------------------------------------------------------------------------------------|
| <b>Specialty</b>                   | <b>31.05.03 Dentistry for foreign students<br/>(English-language program)</b><br>(code, name)   |
| <b>Degree</b>                      | Specialist's degree                                                                             |
| <b>Profile</b>                     | 02 "Healthcare"<br>(in the field of providing health care in<br>patients with dental pathology) |
| <b>Mode of study</b>               | <b>Full-time</b>                                                                                |
| <b>Period of mastering the BEP</b> | <b>5 years</b><br>(nominal length of study)                                                     |
| <b>Institute</b>                   | of Dentistry                                                                                    |

Vladivostok, 2026

## 1. INTRODUCTION

**1.1. Collection of Assessment Tools** is a document that regulates the format, content, and types of assessment tools for continuous assessment, interim examination and final (state final) examination, and graded criteria for each type of assessment tools.

**1.2. Assessment tools allows to evaluate the development of universal, general professional, and professional competencies (UCs, GPCs and PCs respectively) outlined in Federal State Educational Standard of Higher Education and defined in the basic educational program of higher education for the specialty 31.05.03 Dentistry for foreign students (English-language program), profile 02 "Healthcare" (in the field of providing health care in patients with dental pathology).**

([BEP HE for the 31.05.03 Dentistry for foreign students \(English-language program\)](#) specialty, section 3 Learning Outcomes Requirements of the Basic Educational Program of Higher Education)

## 2. DOCUMENT BODY

### 2.1. Types of Assessment, Formats of Assessment Tools

| No. | Types of assessment          | Assessment Tools Format    |
|-----|------------------------------|----------------------------|
| 1   | <b>Continuous assessment</b> | <b>Tests</b>               |
|     |                              | <b>Interview Questions</b> |
|     |                              | <b>Mini-Case Studies</b>   |
|     |                              | <b>Checklists</b>          |
| 2   | <b>Interim assessment</b>    | <b>Interview Questions</b> |
|     |                              | <b>Checklists</b>          |

**3. The contents of assessment tools** for continuous and interim examination are prepared by the teacher of the course

#### 1. Interview questions

|   | Code     | Competence description / name of labor function / name of work activity / text                                                                                                                                                                                                                                    |
|---|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| S | 31.05.03 | Dentistry for foreign students (English-language program)                                                                                                                                                                                                                                                         |
| C | GPC-5    | Able to examine a patient and make a diagnosis                                                                                                                                                                                                                                                                    |
| C | GPC-6    | Able to administer and control the effectiveness and safety of non-pharmacological and pharmacological therapies                                                                                                                                                                                                  |
| C | PC-1     | ability and willingness to implement activities aimed at diagnosing dental diseases using digital health methods                                                                                                                                                                                                  |
| C | PC-2     | ability to administer and apply modern methods and/or digital technologies to treat dental patients as well as monitor the effectiveness and safety of the treatment                                                                                                                                              |
| F | A/01.7   | Patient examination. Making a diagnosis                                                                                                                                                                                                                                                                           |
| F | A/02.7   | Prescribing and monitoring the effectiveness and safety of non-pharmacological and pharmacological therapies                                                                                                                                                                                                      |
| I |          | <b>ANSWER THE QUESTIONS</b><br><br>1. Organization of surgical dental care in a dental clinic. Hygienic requirements for the premises and appearance of the dental surgeon. Quantitative and qualitative indicators of the dental surgeon's performance. Regulatory documentation for the dental surgeon. Asepsis |

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|  | <p>and antisepsis. Measures to protect medical personnel in the dental surgery office from infection.</p> <p>2. Methods of examination of a dental surgical patient. Basic and additional.</p> <p>3. Features of facial and oral surgery. Patient preparation for tooth extraction during planned and emergency surgery. Doctor and patient positions during tooth extraction for different groups.</p> <p>4. General rules for anesthesia during facial and oral surgery. Types of general anesthesia. Absolute and relative indications for general anesthesia during maxillofacial surgery. Anesthesia for surgical procedures in outpatient and hospital settings. Anesthesia for tooth extraction and various other dental procedures. Premedication.</p> <p>5. Infiltration anesthesia for maxillofacial surgery. Types, indications, and technique. Idiosyncrasies during local anesthesia.</p> <p>6. Conduction anesthesia for maxillary surgery. Bone openings and target sites for conduction anesthesia in the maxilla. Infraorbital anesthesia. Intraoral method. Extraoral method. Indications, technique, anesthesia zone.</p> <p>7. Conduction anesthesia for maxillary surgery. Bone openings and target sites for conduction anesthesia in the maxilla. Incisor anesthesia. Intraoral method. Extraoral method. Indications, technique, anesthesia zone.</p> <p>8. Conduction anesthesia for maxillary surgery. Bone openings and target sites for conduction anesthesia in the maxilla. Incisor anesthesia. Intraoral method. Extraoral method. Indications, technique, anesthesia zone.</p> <p>9. Conduction anesthesia for maxillary surgery. Bone openings and target sites for conduction anesthesia in the maxilla. Anesthesia at the foramen magnum. Indications, technique, and anesthesia zone.</p> <p>10. Conduction anesthesia for mandibular surgery. Bone openings and target sites for conduction anesthesia in the mandible. Mandibular anesthesia: by palpation. Indications, technique, and anesthesia zone. Mandibular apodactyl anesthesia according to Verlotsky. Indications, technique, and anesthesia zone.</p> <p>11. Conduction anesthesia for mandibular surgery. Bone openings and target sites for conduction anesthesia in the mandible. Weissbrem's torus anesthesia. Indications, technique, and anesthesia zone.</p> <p>12. Conduction anesthesia for mandibular surgery. Bone openings and target sites for conduction anesthesia in the mandible. Anesthesia at the mental foramen. Indications, technique, and anesthesia zone.</p> <p>13. Conduction anesthesia for mandibular surgery. Bone openings and target sites for conduction anesthesia in the mandible. Extraoral mandibular anesthesia according to Bershe. Inferior alveolar nerve block according to Bershe-Dubov. Indications, technique, anesthesia zone.</p> <p>14. General and local complications of injection anesthesia. Local complications of local anesthesia: vascular injury, nerve damage, soft palate paresis. Causes, diagnosis, treatment, prevention.</p> <p>15. Emergencies in a dental clinic. Fainting, collapse, shock. Causes, clinical presentation, diagnosis, and differential diagnosis. Resuscitation for emergencies in a surgical dental clinic.</p> <p>16. Types of asphyxia. Prevention.</p> <p>17. Tooth extraction. Absolute and relative indications. Contraindications. Tooth extraction forceps. Their types, design, and indications for use. Tooth extraction technique with forceps. Surgery stages. Elevators. Types and indications for use. Elevator operating technique.</p> |
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|  | <p>18. Stages of tooth extraction. Wound healing after tooth extraction. Removal of impacted teeth. Indications for extraction and techniques for removing impacted teeth in various locations.</p> <p>19. Complex tooth and root extraction. Indications and contraindications. Surgical access, tooth extraction technique using a chisel and drill. Technique for extracting teeth erupted outside the dental arch in the upper jaw. Technique for extracting teeth erupted outside the dental arch in the lower jaw.</p> <p>20. Complications arising during tooth extraction. Alveolar bleeding. Causes, diagnosis, treatment, prevention. Alveolitis. Causes, diagnosis, treatment, prevention. Vasoconstrictor overdose. Clinical presentation, diagnosis, physician's approach.</p> <p>21. Etiology and pathogenesis of odontogenic inflammatory diseases. Possible routes of spread of odontogenic infection. Causes of exacerbation of chronic odontogenic infection.</p> <p>22. Periodontitis. Classification. Etiopathogenesis. Pathological anatomy. Surgical treatments for chronic periodontitis. Root apex resection, hemisection, hemiamputation. Indications and contraindications, preparation and stages of surgery.</p> <p>23. Complicated teething. Clinical presentation, diagnosis, differential diagnosis, and management. Pericoronitis. Causes, clinical presentation, diagnosis, and differential diagnosis. Treatment.</p> <p>24. Acute odontogenic periostitis of the jaws. Definition. Classification. Pathological anatomy, etiopathogenesis, clinical features, diagnosis, differential diagnosis, treatment.</p> <p>25. Acute odontogenic osteomyelitis of the jaws: definition. Classification. Etiology. Current concepts of pathogenesis. Pathological anatomy. Clinical presentation, diagnostics, and differential diagnostics. Emergency surgical care in an outpatient setting, documentation, hospitalization, and disease prevention. Comprehensive treatment. Rehabilitation. Outcomes and possible complications.</p> <p>26. Subacute and chronic stages of odontogenic osteomyelitis. Clinical presentation. Diagnostics. Clinical and radiological picture. Differential diagnostics. Treatment. Indications for sequestrectomy. Surgical technique. Complex treatment. Outcome, possible complications.</p> <p>27. Acute odontogenic maxillary sinusitis. Etiology. Pathological anatomy. Classification. Clinical presentation. Diagnostics. Differential diagnostics. Treatment methods for acute odontogenic maxillary sinusitis.</p> <p>28. Chronic odontogenic maxillary sinusitis. Perforation and oro-antral junction of the maxillary sinus. Clinical presentation. Diagnostics. Differential diagnostics. Methods of conservative and surgical treatment of chronic odontogenic maxillary sinusitis.</p> <p>29. Acute lymphadenitis of the face and neck. Adenophlegmon. Etiology, pathogenesis. Classification. Clinical presentation. Diagnostics. Differential diagnostics. Treatment. Prevention.</p> <p>30. Chronic lymphadenitis of the face and neck. Classification. Clinical presentation. Diagnostics. Differential diagnostics. Treatment. Prevention.</p> <p>31. Specific inflammatory diseases of the maxillofacial region. Syphilis, actinomycosis, tuberculosis. Etiology. Pathogenesis. Classification. Clinical features. Diagnostics. Medical tactics.</p> <p>32. Manifestations of HIV infection in the maxillofacial region. Prevention in outpatient and hospital settings.</p> <p>33. Inflammatory diseases of the skin and subcutaneous fat of the face. Furuncle and carbuncle. Etiopathogenesis. Pathological anatomy. Clinical</p> |
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|  | <p>features. Diagnostics. Differential diagnostics. Features of treatment of furuncles of the maxillofacial region depending on the stage of development of the disease. Erysipelas of the face. Anthrax. Noma. Etiopathogenesis. Features of the clinical features. Diagnostics. Medical tactics.</p> <p>34. Abscesses and phlegmons of the face. Etiology. Pathogenesis. Sources of infection. Routes of spread.</p> <p>35. Abscess and phlegmon of the infraorbital region. Abscess and phlegmon of the buccal region. Topographic anatomy. Sources of infection. Possible routes of exudate spread. Clinical presentation. Diagnostics. Surgical approach for drainage of the purulent focus.</p> <p>36. Abscess and phlegmon of the submandibular region. Abscess of the sublingual region. Abscess and phlegmon of the pterygomandibular space. Topographic anatomy. Sources of infection. Possible routes of exudate spread. Clinical presentation. Diagnostics. Surgical approach for drainage of the purulent focus.</p> <p>37. Phlegmon of the floor of the mouth. Topographic anatomy. Sources of infection. Possible routes of exudate spread. Clinical presentation. Diagnostics. Surgical approach for drainage of the purulent focus.</p> <p>38. Basic principles of treatment of inflammatory diseases of the face.</p> <p>39. Diseases of the salivary glands, classification. Reactive-dystrophic diseases of the salivary glands, sialosis: etiopathogenesis, clinical features, diagnosis, treatment.</p> <p>40. Inflammatory diseases of the salivary glands. Sialadenitis. Sialodochitis. Classification. Etiology, clinical features, treatment. Salivary stone disease. Etiopathogenesis, clinical features, diagnosis, treatment.</p> <p>41. TMJ Diseases. Classification. Inflammatory and degenerative diseases of the TMJ, jaw dislocations. Diagnosis of primary bone diseases. Osteoarthritis, osteoarthrosis, bone ankylosis. Etiology and pathogenesis of these diseases. Secondary deforming osteoarthrosis. Causes of development. Clinical presentation, diagnosis, complex treatment, prevention of osteoarthrosis and ankylosis. Contracture of the mandible. Clinical presentation, differential diagnosis, treatment.</p> <p>42. Functional joint and muscle disorders of the TMJ. Pain syndrome, joint and muscle dysfunction. Treatment methods and principles. Treatment outcomes.</p> <p>43. Statistics and classification of maxillofacial injuries. Examination methods. Dislocations and fractures of teeth, alveolar process fractures. Non-gunshot soft tissue injuries. Clinical presentation, diagnosis, treatment, complications.</p> <p>44. Injuries to soft tissues of the face and neck. Classification. Clinical presentation. Diagnostics. Outpatient care. Primary surgical treatment of wounds. Indications for hospitalization. Rehabilitation of the patient after injury. Consequences.</p> <p>45. Non-gunshot fractures of the maxilla. Etiopathogenesis, clinical features, diagnosis, treatment, complications.</p> <p>46. Zygomaticomaxillary fractures, fractures of the zygomatic arch, and nasal bones. Etiopathogenesis, clinical presentation, diagnosis, treatment, and complications.</p> <p>47. Facial bone trauma. Mandibular fractures. TMJ injuries. Diagnosis. Clinical presentation. Greenstick fractures, subperiosteal fractures. Treatment options. Bone fragment fixation methods. Fracture healing</p> |
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|  | <p>times. Complications developing after various types of jaw and facial bone trauma and their prevention. Post-injury rehabilitation.</p> <p>48. Neuritis (prosalgia) and trigeminal neuralgia. Clinical presentation, diagnosis, and treatment. Facial nerve injuries. Clinical presentation, diagnosis, surgical treatment methods, and reconstructive surgeries for facial muscle paralysis.</p> <p>49. Jaw cysts. Etiology, pathogenesis, diagnosis, treatment. Etiology, pathogenesis, diagnosis, differential diagnosis, treatment.</p> <p>50. Tumors of the maxillofacial region. Epidemiology and classification of maxillofacial tumors. Odontogenic tumors of the jaws. Odontomas, ameloblastoma: clinical presentation, diagnosis, differential diagnosis, and treatment.</p> <p>51. Tumors of the maxillofacial region. Epidemiology and classification of maxillofacial tumors. Osteogenic tumors of the jaws. Osteoma, osteoblastoclastoma, osteoid osteoma: clinical presentation, diagnosis, differential diagnosis, and treatment.</p> <p>52. Tumor-like formations of the jaws. Fibrous dysplasia, eosinophilic granuloma, Paget's disease: clinical presentation, diagnosis, differential diagnosis, treatment.</p> <p>53. Benign tumors and tumor-like processes of soft tissues, organs of the oral cavity and face. Classification, clinical picture, diagnostic features, methods and treatment options. (papilloma, Malherbe epithelioma, nevi, fibroma, mucous cysts, fibromatosis, papillomatosis, vascular tumors, epulis).</p> <p>54. Congenital cysts and fistulas of the face and neck. Median and lateral cysts of the neck, dermoid cysts: etiology, clinical features, diagnosis, differential diagnosis, treatment.</p> <p>55. Precancerous diseases of the face and oral cavity. Classification, predisposing factors. Morphological characteristics. Optional and obligate precancers, underlying diseases. Principles of treatment of patients with precancerous diseases of the maxillofacial organs and tissues.</p> <p>56. Malignant tumors of the soft tissues and bones of the face. Classification. Clinical features, diagnostic methods. Organization of treatment. Principles of oncological alertness. (Lymphogranulomatosis, lymphangioendothelioma, lymphosarcoma, mucoepidermoid tumor, cylindroma).</p> <p>57. Lip cancer. Clinical presentation, morphology, diagnostics, differential diagnostics, treatment, prognosis, rehabilitation, prevention.</p> <p>58. Tongue cancer. Clinical presentation, morphology, diagnostics, differential diagnostics, treatment, prognosis, rehabilitation, prevention.</p> <p>59. Cancer of the oral mucosa. Clinical presentation, morphology, diagnostics, differential diagnostics, treatment, prognosis, rehabilitation, prevention.</p> <p>60. Facial skin cancer. Clinical presentation, morphology, diagnostics, differential diagnostics, treatment, prognosis, rehabilitation, prevention.</p> <p>61. Benign tumors and cysts of the salivary glands. Clinical presentation, morphology, diagnostics, differential diagnostics, treatment, prognosis, rehabilitation, prevention.</p> <p>62. Malignant tumors of the salivary glands. Clinical presentation, morphology, diagnostics, differential diagnostics, treatment, prognosis, rehabilitation, prevention.</p> <p>63. Malignant tumors of the mandible. Clinical presentation, morphology, diagnostics, differential diagnostics, treatment, prognosis, rehabilitation, prevention.</p> |
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|  |  | <p>64. Malignant tumors of the maxilla. Clinical presentation, morphology, diagnostics, differential diagnostics, treatment, prognosis, rehabilitation, prevention.</p> <p>65. General principles of treatment of patients with malignant tumors of the maxillofacial region. The tasks of the dentist in providing specialized care to patients with maxillofacial tumors.</p> <p>66. Principles and methods of reconstructive surgery of the maxillofacial region. History of development.</p> <p>67. Facial defect repair with pedicle flaps and Filatov's round stem. Advantages, disadvantages, indications, and contraindications. Free tissue transfer, complex flaps with microvascular anastomosis.</p> <p>68. Bone grafting of the jaws. Analysis of jaw bone defects. Selection of graft type. Preparation of patients for bone grafting. Surgical technique and postoperative period. Surgical treatment of anomalies and deformities of the upper and lower jaws.</p> <p>69. Surgical methods for treating periodontal diseases. Indications, contraindications, types of operations, surgical techniques, complications.</p> <p>70. Dental and maxillofacial implantation: surgical principles, types of implants, principles of surgical planning, technique for performing the surgical stage.</p> |
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#### Assessment criteria

“Very good” - more than 91% correct answers

“Good” - 81-90% correct answers

“Satisfactory” - 71-80% correct answers

“Unsatisfactory” - less than 71% correct answers

#### 2. Tests for continuous and interim assessment

|   | Code     | Competence description / name of labor function / name of work activity / text                                                                                                                                                                                                                                                                                                        |
|---|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| S | 31.05.03 | Dentistry for foreign students (English-language program)                                                                                                                                                                                                                                                                                                                             |
| C | GPC-5    | Able to examine a patient and make a diagnosis                                                                                                                                                                                                                                                                                                                                        |
| C | GPC-6    | Able to administer and control the effectiveness and safety of non-pharmacological and pharmacological therapies                                                                                                                                                                                                                                                                      |
| C | PC-1     | ability and willingness to implement activities aimed at diagnosing dental diseases using digital health methods                                                                                                                                                                                                                                                                      |
| C | PC-2     | ability to administer and apply modern methods and/or digital technologies to treat dental patients as well as monitor the effectiveness and safety of the treatment                                                                                                                                                                                                                  |
| F | A/01.7   | Patient examination. Making a diagnosis                                                                                                                                                                                                                                                                                                                                               |
| F | A/02.7   | Prescribing and monitoring the effectiveness and safety of non-pharmacological and pharmacological therapies                                                                                                                                                                                                                                                                          |
| I |          | <b>ANSWER LEVEL 1 TEST QUESTIONS (ONE CORRECT ANSWER)</b>                                                                                                                                                                                                                                                                                                                             |
|   |          | <p>1. Straight forceps are used to remove</p> <ol style="list-style-type: none"> <li>1) molars</li> <li>2) premolars</li> <li>3) wisdom teeth</li> <li><b>4) upper incisors</b></li> <li>5) lower jaw incisors</li> </ol> <p>2. S-shaped pliers without barbs are used to remove</p> <ol style="list-style-type: none"> <li>1) roots of teeth</li> <li>2) lower jaw molars</li> </ol> |

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|  |  | <p>3) upper molars</p> <p><b>4) maxillary premolars</b></p> <p>5) 3rd lower molars</p> <p>3. S-shaped forceps with a spike are used to remove</p> <p>1) incisors</p> <p>2) 3rd molars</p> <p><b>3) upper molars</b></p> <p>4) maxillary premolars</p> <p>5) 3rd lower jaw molars</p> <p>4. The following are removed with bayonet forceps</p> <p>1) lower jaw incisors</p> <p>2) upper molars</p> <p>3) lower jaw premolars</p> <p>4) 3rd lower molars</p> <p><b>5) roots and premolars of the upper jaw</b></p> <p>5. The following are removed using beak-shaped forceps with converging cheeks</p> <p>1) lower jaw incisors</p> <p>2) lower jaw molars</p> <p>3) maxillary premolars</p> <p>4) 3rd maxillary molars</p> <p><b>5) roots of the teeth of the lower jaw</b></p> <p>6. Teeth are removed using beak-shaped forceps with non-converging cheeks</p> <p>1) upper incisors</p> <p>2) upper molars</p> <p><b>3) lower jaw premolars</b></p> <p>4) roots of the teeth of the lower jaw</p> <p>5) maxillary premolars</p> <p>7. On the lower jaw, elevators are used to remove at an angle</p> <p>1) fangs</p> <p>2) incisors</p> <p>3) premolars</p> <p><b>4) roots of teeth</b></p> <p>5) molars</p> <p>8. The following teeth are removed from the lower jaw using a bayonet elevator (Lecluze elevator)</p> <p>1) incisor</p> <p>2) premolar</p> <p>3) first molar</p> <p>4) second molar</p> <p><b>5) third molar</b></p> <p>9. Forceps for removing the roots of upper incisors</p> <p>1) bayonet-shaped</p> <p>2) beak-shaped root forceps</p> <p>3) curved along the plane</p> <p>4) S-shaped forceps with non-converging cheeks</p> <p><b>5) straight root forceps</b></p> |
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10. To remove the upper jaw canines, use forceps
  - 1) **straight crown forceps**
  - 2) straight root forceps
  - 3) S-shaped with a spike
  - 4) beak-shaped root forceps
  - 5) curved along the plane
11. Forceps for removing the roots of the upper canines
  - 1) **straight root forceps**
  - 2) S-shaped forceps with a spike
  - 3) beak-shaped root forceps
  - 4) forceps curved along the plane
  - 5) S-shaped forceps with converging cheeks
12. Maxillary premolar extraction forceps
  - 1) straight root forceps
  - 2) **S-shaped forceps without a spike**
  - 3) beak-shaped root forceps
  - 4) forceps curved along the plane
  - 5) S-shaped forceps with converging cheeks
13. Forceps for removing the roots of upper premolars
  - 1) **S-shaped converging forceps**
  - 2) straight root forceps
  - 3) S-shaped forceps with a spike
  - 4) beak-shaped root forceps
  - 5) forceps curved along the plane
14. Forceps for removing the first and second right molars of the upper jaw
  - 1) converging forceps
  - 2) **forceps with a spike on the left**
  - 3) non-convergent forceps
  - 4) forceps with a spike on the right
  - 5) beak-shaped converging forceps
15. Forceps for removing the first and second left molars of the upper jaw
  - 1) converging forceps
  - 2) **forceps with a spike on the left**
  - 3) non-convergent forceps
  - 4) forceps with a spike on the right
  - 5) forceps with round cheeks
16. Maxillary third molar extraction forceps
  - 1) straight forceps
  - 2) S-shaped forceps with a spike
  - 3) S-shaped converging forceps
  - 4) **bayonet-shaped forceps with converging cheeks**
  - 5) bayonet-shaped forceps with non-converging rounded cheeks
17. Instrument for removing third molars of the upper jaw
  - 1) straight forceps
  - 2) direct elevator
  - 3) S-shaped pliers with a spike

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|  |  | <p>4) <b>bayonet forceps</b><br/>5) bayonet elevator</p> <p>18. Forceps for removing the roots of upper incisors<br/>1) beak-shaped forceps<br/>2) <b>bayonet-shaped forceps</b><br/>3) S-shaped converging forceps<br/>4) S-shaped forceps with a spike on the right<br/>5) S-shaped non-converging forceps</p> <p>19. To remove the roots of the upper jaw incisors, use<br/>1) direct elevator<br/>2) beak-shaped forceps<br/>3) beak-shaped forceps with spines<br/>4) S-shaped converging forceps<br/>5) <b>S-shaped non-converging forceps</b></p> <p>20. Forceps for removing lower incisors<br/>1) <b>beak-shaped convergent</b><br/>2) beak-shaped non-convergent<br/>3) S-shaped pliers with a spike<br/>4) horizontal crown<br/>5) bayonet-shaped forceps with converging jaws</p> <p>21. Forceps for removing lower jaw canines<br/>1) beak-shaped convergent<br/>2) S-shaped pliers with a spike<br/>3) <b>beak-shaped non-convergent</b><br/>4) horizontal crown<br/>5) bayonet-shaped forceps with converging jaws</p> <p>22. Forceps for removing lower premolars<br/>1) beak-shaped convergent<br/>2) S-shaped pliers with a spike<br/>3) <b>beak-shaped non-convergent</b><br/>4) horizontal crown<br/>5) bayonet-shaped forceps with converging jaws</p> <p>23. Forceps for removing the first and second lower molars<br/>1) beak-shaped convergent<br/>2) S-shaped with a spike<br/>3) horizontal crown<br/>4) <b>beak-shaped, non-converging with spines</b><br/>5) bayonet-shaped with converging cheeks</p> <p>24. Forceps for removing the third lower molar<br/>1) beak-shaped convergent<br/>2) S-shaped with a spike<br/>3) <b>horizontal crown</b><br/>4) beak-shaped, non-convergent with a spine<br/>5) bayonet-shaped with converging cheeks</p> <p>25. Instrument for removing the third molar of the lower jaw<br/>1) <b>direct elevator</b></p> |
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|  |  | <ul style="list-style-type: none"> <li>2) S-shaped tongs</li> <li>3) beak-shaped forceps</li> <li>4) beak-shaped forceps with a spike</li> <li>5) S-shaped converging forceps</li> </ul>                                                                                                                     |
|  |  | <p>26. Instrument for removing the third molar of the lower jaw</p> <ul style="list-style-type: none"> <li>1) straight tongs</li> <li>2) corner elevator</li> <li>3) <b>beak-shaped forceps with a spike</b></li> <li>4) S-shaped converging forceps</li> <li>5) S-shaped non-converging forceps</li> </ul>  |
|  |  | <p>27. Instrument for removing the third molar of the lower jaw</p> <ul style="list-style-type: none"> <li>1) straight tongs</li> <li>2) <b>Lecluse elevator</b></li> <li>3) beak-shaped forceps with a spike</li> <li>4) S-shaped converging forceps</li> <li>5) S-shaped non-converging forceps</li> </ul> |
|  |  | <p>28. Instrument for removing the roots of the lower jaw teeth</p> <ul style="list-style-type: none"> <li>1) straight tongs</li> <li>2) needle holder</li> <li>3) beak-shaped forceps with a spike</li> <li>4) <b>beak-shaped converging forceps</b></li> <li>5) S-shaped non-converging forceps</li> </ul> |
|  |  | <p>29. Instrument for removing the roots of the lower jaw teeth</p> <ul style="list-style-type: none"> <li>1) burnisher</li> <li>2) straight forceps</li> <li>3) <b>corner elevator</b></li> <li>4) beak-shaped forceps with a spike</li> <li>5) S-shaped non-converging forceps</li> </ul>                  |
|  |  | <p>30. Additional tool for removing the roots of the lower and upper teeth</p> <ul style="list-style-type: none"> <li>1) <b>drill</b></li> <li>2) straight forceps</li> <li>3) needle holder</li> <li>4) Limberg hook</li> <li>5) Karapetyan elevator</li> </ul>                                             |
|  |  | <p>31. Additional tool for removing the roots of the lower and upper teeth</p> <ul style="list-style-type: none"> <li>1) excavator</li> <li>2) straight forceps</li> <li>3) needle holder</li> <li>4) Limberg hook</li> <li>5) <b>Karapetyan elevator</b></li> </ul>                                         |
|  |  | <p>32. Additional tool for removing roots of lower and upper teeth</p> <ul style="list-style-type: none"> <li>1) burnisher</li> <li>2) straight forceps</li> <li>3) needle holder</li> <li>4) <b>Limberg hook</b></li> <li>5) Karapetyan elevator</li> </ul>                                                 |

33. In case of impacted dislocation of a permanent incisor with a formed root, the following is indicated
- 1) remove a tooth
  - 2) trepan, depulp, fill, replant a tooth
  - 3) elimination of load, observation (radiograph, EOD), endodontic treatment if indicated
  - 4) reposition, fixation, observation with X-ray control and EOD**
  - 5) observation
34. The first movement when removing the sixth tooth of the upper jaw is
- 1) rotation
  - 2) luxation and rotation
  - 3) luxation to the palatal side
  - 4) luxation to the buccal side**
  - 5) luxation in both directions
35. When opening the bottom of the maxillary sinus, the following should be done
- 1) tight tamponade of the socket
  - 2) cover the opening of the socket with an iodoform turunda for 5-7 days
  - 3) loose tamponade of the socket with an iodoform turunda for 2 days
  - 4) suturing the perforation with a trapezoid flap**
  - 5) conduction anesthesia
36. When pushing the root of a tooth into the maxillary sinus, you should
- 1) try to remove it through the hole
  - 2) make a tight tamponade of the socket
  - 3) prescribe physiotherapy treatment
  - 4) refer the patient to hospital**
  - 5) perform infiltration anesthesia
37. Most often, a fracture of the lower jaw occurs during extraction of
- 1) 3.5 or 4.5
  - 2) 4.4 or 3.4
  - 3) 3.8 or 4.8**
  - 4) 3.2 or 4.2
  - 5) 3.1 or 4.1
38. Perforation of the maxillary sinus floor is most likely during extraction of
- 1) 1.2, 2.2, 1.1, 2.1
  - 2) 2.3, 1.3, 2.4, 1.4
  - 3) 1.6, 2.6, 1.7, 2.7**
  - 4) 1.8, 2.8, 3.8, 4.8
  - 5) 4.5, 3.5, 4.4, 3.4
39. A fracture of the lower jaw is more likely when working with instruments
- 1) with beak-shaped forceps without spines
  - 2) Lecluse elevator**
  - 3) beak-shaped forceps with spines
  - 4) corner elevator "away from you"
  - 5) with straight forceps
40. Local causes of bleeding from the socket are
- 1) high blood pressure

|  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |  | <ul style="list-style-type: none"> <li>2) fracture of the interradicular septum</li> <li>3) soft tissue rupture</li> <li>4) root fracture</li> <li>5) sharp edges of the hole</li> </ul> <p>41. If bleeding occurs from the bottom of the socket, the following should be done</p> <ul style="list-style-type: none"> <li>1) <b>tight tamponade of the socket with an iodoform turunda</b></li> <li>2) tamponade of the socket opening with an iodoform turunda</li> <li>3) removal of the inter-root septum</li> <li>4) application of a hemostatic sponge to the socket opening</li> <li>5) conduction anesthesia</li> </ul> <p>42. In case of alveolitis, the following should be done during the first visit</p> <ul style="list-style-type: none"> <li>1) tight tamponade of the socket with an iodoform turunda</li> <li>2) curettage of the socket</li> <li>3) incision along the transition fold</li> <li>4) <b>remove the disintegrated clot and loosely insert an iodoform turunda into the hole</b></li> <li>5) local anesthesia</li> </ul> <p>43. To stop bleeding from the socket walls, do the following</p> <ul style="list-style-type: none"> <li>1) tamponade with iodoform turunda</li> <li>2) prescribing antihypertensive therapy</li> <li>3) blood transfusion</li> <li>4) urgent hospitalization of the patient</li> <li>5) <b>compression of the bleeding area of the bone</b></li> </ul> <p>44. To stop bleeding from soft tissue damage, use</p> <ul style="list-style-type: none"> <li>1) blood transfusion</li> <li>2) <b>suturing the wound</b></li> <li>3) general hemostatic therapy</li> <li>4) intravenous anticoagulants</li> <li>5) local anesthesia</li> </ul> <p>45. When opening the bottom of the maxillary sinus, the following is performed</p> <ul style="list-style-type: none"> <li>1) rinsing with an antiseptic solution</li> <li>2) <b>flap suturing</b></li> <li>3) tight tamponade of the socket</li> <li>4) application of antibiotics</li> <li>5) curettage of the maxillary sinus</li> </ul> <p>44. In case of root fracture, the doctor's incorrect action is</p> <ul style="list-style-type: none"> <li>1) complete removal of the root</li> <li>2) <b>leaving the root fragment in the socket</b></li> <li>3) removal of granulation tissue</li> <li>4) smoothing the sharp edge of the bone</li> <li>5) repeat surgery after 7-10 days</li> </ul> |
|  |  | <b>ANSWER LEVEL 2 TEST QUESTIONS (MULTIPLE CORRECT ANSWERS)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|  |  | <p>1. Mandibular anesthesia is used for pain relief in</p> <ul style="list-style-type: none"> <li>1) tooth 3.4</li> <li>2) tooth 4.4</li> <li>3) tooth 3.1</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

|  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |  | <p>4) tooth 3.8<br/>5) tooth 1.4<br/>6) tooth 4.1</p> <p>2. Torus anesthesia is used for pain relief in<br/>1) tooth 4.8<br/>2) tooth 3.8<br/>3) tooth 3.4<br/>4) tooth 3.1<br/>5) tooth 1.4<br/>6) tooth 4.1</p> <p>3. Infraorbital and infiltration anesthesia are used for pain relief in<br/>1) tooth 2.4<br/>2) tooth 1.4<br/>3) tooth 3.1<br/>4) tooth 4.8<br/>5) tooth 3.8<br/>6) tooth 4.1</p> <p>4. Elevator and sickle-shaped burnisher are used for<br/>1) syndesmotomy<br/>2) dislocation<br/>3) extraction<br/>4) curettage<br/>5) tissue retention<br/>6) tissue suturing</p> <p>5. Elevator and curettage spoon are used for<br/>1) dislocations<br/>2) curettage<br/>3) syndesmotomy<br/>4) extraction<br/>5) tissue retention<br/>6) tissue suturing</p> |
|  |  | <b>ANSWER LEVEL 3 TEST QUESTIONS (MATCHING QUESTIONS)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|  |  | <p>1. Match the anesthetic with its properties</p> <p>Properties:</p> <p>1) does not pass through the hemotoplacental barrier<br/>2) used in all types of anesthesia<br/>3) the most effective in terms of duration<br/>4) used only for topical anesthesia<br/>5) hydrolyzed by pseudocholinesterase<br/>6) does not have a pronounced effect on blood vessels and can be used without a vasoconstrictor</p> <p>Anesthetic:</p> <p>A) anesthesin<br/>B) novocaine<br/>C) articaine<br/>D) lidocaine<br/>E) bupivacaine<br/>F) mepivacaine</p>                                                                                                                                                                                                                            |

2. Match the manipulation with the tool used for it

Manipulation:

- 1) removal the roots of the upper teeth
- 2) removal of upper molars
- 3) removal of lower molars
- 4) dislocation of teeth
- 5) removal of lower incisors
- 6) removal all tooth roots

Forceps:

- A) with two spikes
- B) bayonet
- C) elevator
- D) beak-shaped
- E) with one spike
- F) luxator

3. Match the manipulation with the tool used for it

Manipulation:

- 1) syndesmotomy
- 2) extraction
- 3) dislocation
- 4) curettage
- 5) tissue retention
- 6) tissue suturing

Tool:

- A) elevator
- B) sickle-shaped trowel
- C) Farabeuf hook
- D) curettage spoon
- E) forceps
- F) needle

4. Match the manipulation with its possible complication

Manipulation:

- 1) bringing the edges of the wound together
- 2) incomplete rapprochement of the wound edges
- 3) an open wound
- 4) suturing the wound
- 5) an open and untreated wound for a long time
- 6) failure to bring the edges of the hole together

Complication:

- A) secondary tension
- B) suppuration
- C) necrosis
- D) proliferation of granulation tissue
- E) primary tension
- F) exostoses

5. Match the symptoms with the diseases

Symptom:

- 1) sequestration

|  |  |                                                                                                                                                                                                                                                                                                                                                              |
|--|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |  | 2) thickening of the periosteal tissue<br>3) hyperemia of the marginal gum<br>4) periodontal pockets<br>5) false periodontal pockets<br>6) inflammation of the gingival hood in the area of the unerupted tooth<br><br>Disease:<br>A) hypertrophic gingivitis<br>B) osteomyelitis<br>C) periodontitis<br>D) periostitis<br>E) gingivitis<br>F) pericoronitis |
|--|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### Assessment criteria

“Very good” - more than 91% correct answers of questions of every level

“Good” - 81-90% correct answers of questions of every level

“Satisfactory” - 71-80% correct answers of questions of every level

“Unsatisfactory” - less than 71% correct answers of questions of every level

Standardized case studies and checklists for the **B1.C.34 Surgical dentistry** course

#### Case Study No.1

|   | Code     | Competence description / name of labor function / name of work activity / text                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| S | 31.05.03 | Dentistry for foreign students (English-language program)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| C | GPC-5    | Able to examine a patient and make a diagnosis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| C | GPC-6    | Able to administer and control the effectiveness and safety of non-pharmacological and pharmacological therapies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| C | PC-1     | ability and willingness to implement activities aimed at diagnosing dental diseases using digital health methods                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| C | PC-2     | ability to administer and apply modern methods and/or digital technologies to treat dental patients as well as monitor the effectiveness and safety of the treatment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| F | A/01.7   | Patient examination. Making a diagnosis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| F | A/02.7   | Prescribing and monitoring the effectiveness and safety of non-pharmacological and pharmacological therapies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| I |          | <p><b>READ THE PROVIDED CASE DESCRIPTION AND GIVE DETAILED ANSWERS TO THE QUESTIONS</b></p> <p>Patient A., 65 years old, complained of constant aching pain in the area of the socket of the extracted tooth 4.7, radiating to the ear, and bad breath.</p> <p>Progression of the current disease: According to the patient, tooth No. 47 was removed three days ago due to chronic periodontitis. The pain has intensified since yesterday evening.</p> <p>Past and concomitant illnesses: according to the patient, hypertension and gastritis. He denies history of HIV, syphilis, or hepatitis. He has no history of allergies.</p> <p>General condition is satisfactory. Body temperature is 36.9°C.</p> <p>Local status: facial configuration is unchanged. Mouth opening is normal. The submandibular lymph nodes on the right are enlarged, slightly tender to palpation, and not adherent to surrounding tissues. Oral examination: the margins of the socket of the extracted tooth #4.7 are covered with fibrinous plaque. There is no clot in the alveolus of the extracted tooth</p> |

|   |   |                                                                                                                                                                 |
|---|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   |   | 4.7; the socket is filled with food debris. The mucous membrane in the socket area of the extracted tooth 4.7 is hyperemic, edematous, and tender to palpation. |
| Q | 1 | Question: Make a diagnosis and indicate the most significant symptoms for this disease                                                                          |
| Q | 2 | Question: Conduct differential diagnostics                                                                                                                      |
| Q | 3 | Question: Create a comprehensive treatment plan with dentists of various specialties                                                                            |
| Q | 4 | Question: Justify the sequence of surgical stages of treatment                                                                                                  |
| Q | 5 | Question: List possible local and general complications                                                                                                         |

#### Case Study No.1 Checklist

|   | Code     | Competence description / name of labor function / name of work activity / text                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| S | 31.05.03 | Dentistry for foreign students (English-language program)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| C | GPC-5    | Able to examine a patient and make a diagnosis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| C | GPC-6    | Able to administer and control the effectiveness and safety of non-pharmacological and pharmacological therapies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| C | PC-1     | ability and willingness to implement activities aimed at diagnosing dental diseases using digital health methods                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| C | PC-2     | ability to administer and apply modern methods and/or digital technologies to treat dental patients as well as monitor the effectiveness and safety of the treatment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| F | A/01.7   | Patient examination. Making a diagnosis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| F | A/02.7   | Prescribing and monitoring the effectiveness and safety of non-pharmacological and pharmacological therapies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| I |          | <p><b>READ THE PROVIDED CASE DESCRIPTION AND GIVE DETAILED ANSWERS TO THE QUESTIONS</b></p> <p>Patient A., 65 years old, complained of constant aching pain in the area of the socket of the extracted tooth 4.7, radiating to the ear, and bad breath.</p> <p>Progression of the current disease: According to the patient, tooth No. 47 was removed three days ago due to chronic periodontitis. The pain has intensified since yesterday evening.</p> <p>Past and concomitant illnesses: according to the patient, hypertension and gastritis. He denies history of HIV, syphilis, or hepatitis. He has no history of allergies.</p> <p>General condition is satisfactory. Body temperature is 36.9°C.</p> <p>Local status: facial configuration is unchanged. Mouth opening is normal. The submandibular lymph nodes on the right are enlarged, slightly tender to palpation, and not adherent to surrounding tissues. Oral examination: the margins of the socket of the extracted tooth #4.7 are covered with fibrinous plaque. There is no clot in the alveolus of the extracted tooth 4.7; the socket is filled with food debris. The mucous membrane in the socket area of the extracted tooth 4.7 is hyperemic, edematous, and tender to palpation.</p> |
| Q | 1        | Question: Make a diagnosis and indicate the most significant symptoms for this disease                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| A |          | <p>Correct answer:</p> <p>Chronic alveolitis of the socket of an extracted tooth 4.7.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

|    |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |              | Based on:<br>1. Patient complaints<br>2. Anamnesis (tooth extraction)<br>3. Objective data: the edges of the socket of the extracted tooth 4.7 are covered with fibrinous plaque. There is no clot in the alveolus of the extracted tooth 4.7, and the socket is filled with food debris. The mucous membrane in the socket area of the extracted tooth 4.7 is hyperemic, edematous, and painful to palpation                                                                                                                                                                                                                                                                                                                                                            |
| R2 | Very good    | All descriptors of the correct answer have been listed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| R1 | Good         | 3 descriptors of the correct answer have been listed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|    | Satisfactory | 1-2 descriptors of the correct answer have been listed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| R0 | Fail         | No descriptors of the correct answer have been listed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Q  | 2            | Question: Conduct differential diagnostics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| A  |              | Correct answer:<br>1. Sharp edge of the hole.<br>2. Periostitis.<br>3. Osteomyelitis.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| R2 | Very good    | All descriptors of the correct answer have been listed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| R1 | Good         | 2 descriptors of the correct answer have been listed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|    | Satisfactory | 1 descriptor of the correct answer has been listed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| R0 | Fail         | No descriptors of the correct answer have been listed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Q  | 3            | Question: Create a comprehensive treatment plan with dentists of various specialties                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| A  |              | Correct answer:<br>1. Under local anesthesia, carefully remove any debris and remaining blood clot from the socket using a surgical spoon, without damaging the socket walls. The alveolus is then irrigated with a 3% hydrogen peroxide solution or furacilin (1:5000). A strip of iodoform gauze is loosely inserted into the wound. A powdered antibiotic with added anesthesin can be sprinkled into the socket, covering the wound with a sterile, loose swab.<br>2. Antineuralgic drugs (amidopyrine, analgin) are prescribed orally.<br>3. Treatment with UHF and microwave electric current, diadynamic current, ultrasound, and local ultraviolet irradiation. Laser therapy has shown good results in the treatment of alveolitis.<br>4. Rational prosthetics. |
| R2 | Very good    | All descriptors of the correct answer have been listed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| R1 | Good         | 3 descriptors of the correct answer have been listed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|    | Satisfactory | 1-2 descriptors of the correct answer have been listed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| R0 | Fail         | No descriptors of the correct answer have been listed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Q  | 4            | Question: Justify the sequence of surgical stages of treatment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| A  |              | Correct answer:<br>1. Providing adequate local anesthesia.<br>2. Cleaning the socket of the extracted tooth: Using a syringe with an irrigation needle, flush out any broken blood clot and food debris from the socket with a warm stream of antiseptic solution (hydrogen peroxide, betadine, chlorhexidine, ethacridine lactate, potassium permanganate). Then, using a sharp surgical spoon, remove any remaining broken blood clot, granulation tissue, bone fragments, and tooth fragments.<br>3. Formation of a blood clot.<br>4. Prescribing non-steroidal anti-inflammatory drugs                                                                                                                                                                               |
| R2 | Very good    | All descriptors of the correct answer have been listed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

|    |              |                                                                                    |
|----|--------------|------------------------------------------------------------------------------------|
| R1 | Good         | 3 descriptors of the correct answer have been listed                               |
|    | Satisfactory | 1-2 descriptors of the correct answer have been listed                             |
| R0 | Fail         | No descriptors of the correct answer have been listed                              |
| Q  | 5            | Question: List possible local and general complications                            |
| A  |              | Correct answer:<br>1. Bleeding.<br>2. Osteomyelitis of the socket.<br>3. Neuritis. |
| R2 | Very good    | All descriptors of the correct answer have been listed                             |
| R1 | Good         | 2 descriptors of the correct answer have been listed                               |
|    | Satisfactory | 1 descriptor of the correct answer has been listed                                 |
| R0 | Fail         | No descriptors of the correct answer have been listed                              |

### Case Study No.2

|   | Code     | Competence description / name of labor function / name of work activity / text                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| S | 31.05.03 | Dentistry for foreign students (English-language program)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| C | GPC-5    | Able to examine a patient and make a diagnosis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| C | GPC-6    | Able to administer and control the effectiveness and safety of non-pharmacological and pharmacological therapies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| C | PC-1     | ability and willingness to implement activities aimed at diagnosing dental diseases using digital health methods                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| C | PC-2     | ability to administer and apply modern methods and/or digital technologies to treat dental patients as well as monitor the effectiveness and safety of the treatment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| F | A/01.7   | Patient examination. Making a diagnosis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| F | A/02.7   | Prescribing and monitoring the effectiveness and safety of non-pharmacological and pharmacological therapies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| I |          | <p><b>READ THE PROVIDED CASE DESCRIPTION AND GIVE DETAILED ANSWERS TO THE QUESTIONS</b></p> <p>Patient K., 52 years old, complained of constant pain in the upper jaw, swelling of the cheek on the right, and an increase in body temperature.</p> <p>Progression of the present illness: According to the patient, a week ago, pain developed in tooth No. 16. Three days later, swelling developed in the right cheek area. The toothache subsided, but pain developed in the right jaw. For three days, the patient applied warm compresses to the cheek. His condition worsened.</p> <p>Past and concomitant illnesses: according to the patient, hypertension. He denies HIV, syphilis, or hepatitis. No history of allergies.</p> <p>General condition is satisfactory. Body temperature is 37.8°C.</p> <p>Local status: facial configuration is altered due to swelling in the cheek area. Skin color is normal, folds, and is painful to palpation. Mouth opening is normal. The right submandibular lymph nodes are enlarged, painful, and not adherent to surrounding tissue.</p> <p>Oral examination reveals a bulging mucosal fold in the area of teeth 15, 16, and 17. The mucosa is hyperemic, and palpation reveals a painful infiltrate and fluctuation. Tooth 16 is covered with a metal-ceramic crown; percussion of this tooth is painful; percussion of teeth 15 and 17 is painless.</p> |

|   |   |                                                                                        |
|---|---|----------------------------------------------------------------------------------------|
| Q | 1 | Question: Make a diagnosis and indicate the most significant symptoms for this disease |
| Q | 2 | Question: Conduct differential diagnostics                                             |
| Q | 3 | Question: Create a comprehensive treatment plan with dentists of various specialties   |
| Q | 4 | Question: Justify the sequence of surgical stages of treatment                         |
| Q | 5 | Question: List possible local and general complications                                |

#### Case Study No.2 Checklist

|   | Code     | Competence description / name of labor function / name of work activity / text                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| S | 31.05.03 | Dentistry for foreign students (English-language program)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| C | GPC-5    | Able to examine a patient and make a diagnosis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| C | GPC-6    | Able to administer and control the effectiveness and safety of non-pharmacological and pharmacological therapies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| C | PC-1     | ability and willingness to implement activities aimed at diagnosing dental diseases using digital health methods                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| C | PC-2     | ability to administer and apply modern methods and/or digital technologies to treat dental patients as well as monitor the effectiveness and safety of the treatment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| F | A/01.7   | Patient examination. Making a diagnosis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| F | A/02.7   | Prescribing and monitoring the effectiveness and safety of non-pharmacological and pharmacological therapies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| I |          | <p><b>READ THE PROVIDED CASE DESCRIPTION AND GIVE DETAILED ANSWERS TO THE QUESTIONS</b></p> <p>Patient K., 52 years old, complained of constant pain in the upper jaw, swelling of the cheek on the right, and an increase in body temperature.</p> <p>Progression of the present illness: According to the patient, a week ago, pain developed in tooth No. 16. Three days later, swelling developed in the right cheek area. The toothache subsided, but pain developed in the right jaw. For three days, the patient applied warm compresses to the cheek. His condition worsened.</p> <p>Past and concomitant illnesses: according to the patient, hypertension. He denies HIV, syphilis, or hepatitis. No history of allergies.</p> <p>General condition is satisfactory. Body temperature is 37.8°C.</p> <p>Local status: facial configuration is altered due to swelling in the cheek area. Skin color is normal, folds, and is painful to palpation. Mouth opening is normal. The right submandibular lymph nodes are enlarged, painful, and not adherent to surrounding tissue.</p> <p>Oral examination reveals a bulging mucosal fold in the area of teeth 15, 16, and 17. The mucosa is hyperemic, and palpation reveals a painful infiltrate and fluctuation. Tooth 16 is covered with a metal-ceramic crown; percussion of this tooth is painful; percussion of teeth 15 and 17 is painless.</p> |
| Q | 1        | Question: Make a diagnosis and indicate the most significant symptoms for this disease                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| A |          | <p>Correct answer:</p> <ol style="list-style-type: none"> <li>1. Acute odontogenic periostitis.</li> </ol> <p>Based on:</p> <ol style="list-style-type: none"> <li>2. Patient complaints</li> <li>3. Anamnesis (pain in the tooth, then swelling in this area)</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

|    |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |              | <p>4. Objective data (change in facial configuration, swelling, hyperemia of the mucous membrane in the area of tooth 1.6, pain on percussion)</p> <p>The most significant symptoms are:</p> <p>5. Edema and hyperemia of the mucous membrane</p> <p>6. Painful percussion</p> <p>7. Enlargement and soreness of the lymph nodes</p> <p>8. Increased body temperature</p>                                                                                                      |
| R2 | Very good    | All descriptors of the correct answer have been listed                                                                                                                                                                                                                                                                                                                                                                                                                         |
| R1 | Good         | 6-7 descriptors of the correct answer have been listed                                                                                                                                                                                                                                                                                                                                                                                                                         |
|    | Satisfactory | 2-5 descriptors of the correct answer have been listed                                                                                                                                                                                                                                                                                                                                                                                                                         |
| R0 | Fail         | No descriptors of the correct answer have been listed                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Q  | 2            | Question: Conduct differential diagnostics                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| A  |              | <p>Correct answer:</p> <p>1. Exacerbation of chronic periodontitis</p> <p>2. Acute odontogenic osteomyelitis of the jaw</p> <p>3. Inflammatory diseases of the sublingual and submandibular glands and their ducts</p> <p>4. Acute odontogenic lymphadenitis</p> <p>5. Periodontal abscess</p>                                                                                                                                                                                 |
| R2 | Very good    | All descriptors of the correct answer have been listed                                                                                                                                                                                                                                                                                                                                                                                                                         |
| R1 | Good         | 3-4 descriptors of the correct answer have been listed                                                                                                                                                                                                                                                                                                                                                                                                                         |
|    | Satisfactory | 1-2 descriptor of the correct answer has been listed                                                                                                                                                                                                                                                                                                                                                                                                                           |
| R0 | Fail         | No descriptors of the correct answer have been listed                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Q  | 3            | Question: Create a comprehensive treatment plan with dentists of various specialties                                                                                                                                                                                                                                                                                                                                                                                           |
| A  |              | <p>Correct answer:</p> <p>1. The orthodontist removes the metal-ceramic crown.</p> <p>2. Dentist-therapist endodontic retreatment of tooth canals 1.6.</p> <p>3. The dental surgeon makes an incision in the area of the transitional fold, carries out antiseptic treatment, installs drainage, which is changed the next day.</p> <p>4. After healing and successful retreatment of the root canals, a new orthopedic structure is manufactured by an orthopedic dentist</p> |
| R2 | Very good    | All descriptors of the correct answer have been listed                                                                                                                                                                                                                                                                                                                                                                                                                         |
| R1 | Good         | 3 descriptors of the correct answer have been listed                                                                                                                                                                                                                                                                                                                                                                                                                           |
|    | Satisfactory | 1-2 descriptors of the correct answer have been listed                                                                                                                                                                                                                                                                                                                                                                                                                         |
| R0 | Fail         | No descriptors of the correct answer have been listed                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Q  | 4            | Question: Justify the sequence of surgical stages of treatment                                                                                                                                                                                                                                                                                                                                                                                                                 |
| A  |              | <p>Correct answer:</p> <p>1. Administering local anesthesia</p> <p>2. Opening the subperiosteal incision for the outflow of exudate</p> <p>3. Installing a drain to prevent the wound from adhering</p> <p>4. If conservative treatment is not possible, the diseased tooth is extracted</p>                                                                                                                                                                                   |
| R2 | Very good    | All descriptors of the correct answer have been listed                                                                                                                                                                                                                                                                                                                                                                                                                         |
| R1 | Good         | 3 descriptors of the correct answer have been listed                                                                                                                                                                                                                                                                                                                                                                                                                           |
|    | Satisfactory | 1-2 descriptors of the correct answer have been listed                                                                                                                                                                                                                                                                                                                                                                                                                         |
| R0 | Fail         | No descriptors of the correct answer have been listed                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Q  | 5            | Question: List possible local and general complications                                                                                                                                                                                                                                                                                                                                                                                                                        |
| A  |              | <p>Correct answer:</p> <p>1. Osteomyelitis</p>                                                                                                                                                                                                                                                                                                                                                                                                                                 |

|    |              |                                                                                                |
|----|--------------|------------------------------------------------------------------------------------------------|
|    |              | 2. Chronic periostitis<br>3. Bleeding<br>4. Acute sinusitis<br>5. Lymphadenitis<br>6. Phlegmon |
| R2 | Very good    | All descriptors of the correct answer have been listed                                         |
| R1 | Good         | 4-5 descriptors of the correct answer have been listed                                         |
|    | Satisfactory | 1-3 descriptor of the correct answer has been listed                                           |
| R0 | Fail         | No descriptors of the correct answer have been listed                                          |

### Case Study No.3

|   | Code     | Competence description / name of labor function / name of work activity / text                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |  |  |  |  |  |  |  |  |  |  |   |   |  |
|---|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|--|--|--|--|--|--|--|--|--|--|---|---|--|
| S | 31.05.03 | Dentistry for foreign students (English-language program)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |  |  |  |  |  |  |  |  |  |  |   |   |  |
| C | GPC-5    | Able to examine a patient and make a diagnosis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |  |  |  |  |  |  |  |  |  |  |   |   |  |
| C | GPC-6    | Able to administer and control the effectiveness and safety of non-pharmacological and pharmacological therapies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |  |  |  |  |  |  |  |  |  |  |   |   |  |
| C | PC-1     | ability and willingness to implement activities aimed at diagnosing dental diseases using digital health methods                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |  |  |  |  |  |  |  |  |  |  |   |   |  |
| C | PC-2     | ability to administer and apply modern methods and/or digital technologies to treat dental patients as well as monitor the effectiveness and safety of the treatment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |  |  |  |  |  |  |  |  |  |  |   |   |  |
| F | A/01.7   | Patient examination. Making a diagnosis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |  |  |  |  |  |  |  |  |  |  |   |   |  |
| F | A/02.7   | Prescribing and monitoring the effectiveness and safety of non-pharmacological and pharmacological therapies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |  |  |  |  |  |  |  |  |  |  |   |   |  |
| I |          | <b>READ THE PROVIDED CASE DESCRIPTION AND GIVE DETAILED ANSWERS TO THE QUESTIONS</b><br><br>Patient M., 36, complained of a painful swelling in the right submandibular region and fever. Current disease development: according to the patient, a painful swelling in the right submandibular region appeared during meals for 3 months. The swelling disappeared within 10-15 minutes. Over the past 2 days, the swelling in the submandibular region has been increasing without improvement, the pain has intensified, and a salty taste in the mouth has appeared. Past and concomitant illnesses: according to the patient, he is practically healthy. He denies HIV, syphilis, and hepatitis. No aggravated allergy history. General condition is satisfactory. Body temperature is 37.6°C. Local status: configuration is altered due to swelling in the right submandibular region. Mouth opening is free. The right submandibular lymph nodes are enlarged, tender to palpation, and not fused with surrounding tissue. The right submandibular gland is enlarged, firm, and elastic, and tender to palpation. Oral examination reveals hyperemic sublingual mucosa and painful palpation. Massage of the right submandibular salivary gland produces purulent saliva. Radiograph of the floor of the mouth reveals a clearly defined, rounded shadow approximately 0.7 cm in diameter over the anterior third of the submandibular duct.<br>Dental formula. <table><tr><td>A</td><td></td><td>F</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>A</td></tr><tr><td>8</td><td>7</td><td>6</td><td>5</td><td>4</td><td>3</td><td>2</td><td>1</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td></tr><tr><td>F</td><td>Cd</td><td>C</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>F</td><td>F</td><td></td></tr></table> | A |   | F |   |   |   |   |   |   |   |   |   |   |   |  | A | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | F | Cd | C |  |  |  |  |  |  |  |  |  |  | F | F |  |
|   | A        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | F |   |   |   |   |   |   |   |   |   |   |   |   | A |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |  |  |  |  |  |  |  |  |  |  |   |   |  |
|   | 8        | 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 6 | 5 | 4 | 3 | 2 | 1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |  |  |  |  |  |  |  |  |  |  |   |   |  |
|   | F        | Cd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | C |   |   |   |   |   |   |   |   |   |   | F | F |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |  |  |  |  |  |  |  |  |  |  |   |   |  |
| Q | 1        | Question: Make a diagnosis and indicate the most significant symptoms for this disease                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |  |  |  |  |  |  |  |  |  |  |   |   |  |

|   |   |                                                                                      |
|---|---|--------------------------------------------------------------------------------------|
| Q | 2 | Question: Conduct differential diagnostics                                           |
| Q | 3 | Question: Create a comprehensive treatment plan with dentists of various specialties |
| Q | 4 | Question: Justify the sequence of surgical stages of treatment                       |
| Q | 5 | Question: List possible local and general complications                              |

### Case Study No.3 Checklist

| Case Study 10-5: Cheekswell |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-----------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|                             | Code     | Competence description / name of labor function / name of work activity / text                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| S                           | 31.05.03 | Dentistry for foreign students (English-language program)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| C                           | GPC-5    | Able to examine a patient and make a diagnosis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| C                           | GPC-6    | Able to administer and control the effectiveness and safety of non-pharmacological and pharmacological therapies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| C                           | PC-1     | ability and willingness to implement activities aimed at diagnosing dental diseases using digital health methods                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| C                           | PC-2     | ability to administer and apply modern methods and/or digital technologies to treat dental patients as well as monitor the effectiveness and safety of the treatment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| F                           | A/01.7   | Patient examination. Making a diagnosis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| F                           | A/02.7   | Prescribing and monitoring the effectiveness and safety of non-pharmacological and pharmacological therapies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| I                           |          | <b>READ THE PROVIDED CASE DESCRIPTION AND GIVE DETAILED ANSWERS TO THE QUESTIONS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                             |          | Patient M., 36, complained of a painful swelling in the right submandibular region and fever. Current disease development: according to the patient, a painful swelling in the right submandibular region appeared during meals for 3 months. The swelling disappeared within 10-15 minutes. Over the past 2 days, the swelling in the submandibular region has been increasing without improvement, the pain has intensified, and a salty taste in the mouth has appeared. Past and concomitant illnesses: according to the patient, he is practically healthy. He denies HIV, syphilis, and hepatitis. No aggravated allergy history. General condition is satisfactory. Body temperature is 37.6°C. Local status: configuration is altered due to swelling in the right submandibular region. Mouth opening is free. The right submandibular lymph nodes are enlarged, tender to palpation, and not fused with surrounding tissue. The right submandibular gland is enlarged, firm, and elastic, and tender to palpation. Oral examination reveals hyperemic sublingual mucosa and painful palpation. Massage of the right submandibular salivary gland produces purulent saliva. Radiograph of the floor of the mouth reveals a clearly defined, rounded shadow approximately 0.7 cm in diameter over the anterior third of the submandibular duct. |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                             |          | Dental formula.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|                             |          | A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    | F |   |   |   |   |   |   |   |   |   |   |   | A |   |
|                             |          | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 7  | 6 | 5 | 4 | 3 | 2 | 1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|                             |          | F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Cd | C |   |   |   |   |   |   |   |   |   |   | F | F |   |
| Q                           | 1        | Question: Make a diagnosis and indicate the most significant symptoms for this disease                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| A                           |          | Correct answer:<br>1. Exacerbation of chronic parenchymal sialadenitis.<br>Symptoms:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

|    |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |              | <p>2. The submandibular gland on the right is enlarged, has a dense elastic consistency, and is painful upon palpation.</p> <p>3. In the oral cavity: the mucous membrane of the sublingual region is hyperemic, and palpation is painful. When massaging the right submandibular salivary gland, saliva mixed with pus is secreted.</p> <p>4. On the radiograph of the floor of the oral cavity: in the projection of the anterior third of the submandibular duct, a clearly defined rounded shadow with a diameter of about 0.7 cm is determined.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| R2 | Very good    | All descriptors of the correct answer have been listed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| R1 | Good         | 3 descriptors of the correct answer have been listed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|    | Satisfactory | 1-2 descriptors of the correct answer have been listed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| R0 | Fail         | No descriptors of the correct answer have been listed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Q  | 2            | Question: Conduct differential diagnostics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| A  |              | <p>Correct answer:</p> <p>Parenchymatous sialadenitis should be differentiated from:</p> <ol style="list-style-type: none"> <li>1. chronic interstitial sialadenitis,</li> <li>2. sialodochit,</li> <li>3. salivary stone disease,</li> <li>4. epidemic mumps.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| R2 | Very good    | All descriptors of the correct answer have been listed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| R1 | Good         | 3 descriptors of the correct answer have been listed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|    | Satisfactory | 1-2 descriptors of the correct answer have been listed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| R0 | Fail         | No descriptors of the correct answer have been listed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Q  | 3            | Question: Create a comprehensive treatment plan with dentists of various specialties                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| A  |              | <p>Correct answer:</p> <p>If you have signs of sialoadenitis, you should seek advice from doctors such as:</p> <ol style="list-style-type: none"> <li>1. infectious disease specialist,</li> <li>2. maxillofacial surgeon</li> <li>3. Dentist (treatment of tooth 4.6 due to caries)</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| R2 | Very good    | All descriptors of the correct answer have been listed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| R1 | Good         | 2 descriptors of the correct answer have been listed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|    | Satisfactory | 1 descriptor of the correct answer has been listed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| R0 | Fail         | No descriptors of the correct answer have been listed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Q  | 4            | Question: Justify the sequence of surgical stages of treatment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| A  |              | <p>Correct answer:</p> <ol style="list-style-type: none"> <li>1. In the initial stages, conservative treatment includes dry heat, solarium, a diet to increase salivation, antibiotics, and oral administration of 1% pilocarpine hydrochloride solution, 6-8 drops 2-3 times daily. Penicillin-novocaine blockade of the subcutaneous tissue of the parotid masticatory area (40-50 ml of 0.5% novocaine solution and 200,000 U of penicillin), as well as infiltration of the submucosal layer along the gland duct.</li> <li>2. If conservative therapy is ineffective and there are frequent exacerbations, surgical treatment is performed: ligation of the main excretory duct or removal of the salivary glands (in case of extirpation of the parotid salivary glands, the branches of the facial nerve are preserved).</li> <li>3. Ligation of the main excretory duct is performed through the intraoral approach: the duct is isolated from the excretory orifice to its maximum length, folded in half, and secured with two silk ligatures. The wound is</li> </ol> |

|    |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                        |
|----|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
|    |              | sutured tightly. A gentle diet is prescribed postoperatively; 0.1% atropine sulfate solution, 6-8 drops 3 times daily.<br>4. When removing the submandibular salivary gland, an incision is made 1.5-2.0 cm from the edge of the mandible, and the skin, subcutaneous tissue, and superficial fascia are dissected parallel to it. At the anterior edge of the masseter muscle, the facial artery and vein are isolated, ligated, and transected. The submandibular salivary gland is isolated bluntly and sharply. The facial vessels are ligated a second time at the posterior pole (rarely, the main trunk of the facial artery passes outside the gland). Hemostasis is achieved. At the end of the surgery, the excretory duct is isolated to its maximum length, ligated with two ligatures, and transected between them. The remaining stump is treated with iodine solution. The wound is sutured layer by layer, leaving drainage for 24 hours, and a pressure bandage is applied. |                                                        |
| R2 | Very good    | All descriptors of the correct answer have been listed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                        |
| R1 | Good         | 3 descriptors of the correct answer have been listed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                        |
|    | Satisfactory | 1-2 descriptors of the correct answer have been listed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                        |
| R0 | Fail         | No descriptors of the correct answer have been listed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                        |
| Q  | 5            | Question: List possible local and general complications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                        |
| A  |              | Correct answer:<br>1. The outcome of chronic sialoadenitis is sclerosis of the gland with atrophy of the acinar sections, stromal lipomatosis, with a decrease or loss of function, which is especially dangerous in case of systemic damage to the glands (Sjogren's syndrome), as this leads to xerostomia.<br>2. As acute sialadenitis progresses, the inflammatory process may result in an abscess or purulent-necrotic phlegmon of the parotid region. In these cases, surgical treatment is used, including incision of the phlegmon.<br>3. Acute sialoadenitis can be complicated by stenosis of the salivary ducts, formation of salivary fistulas, and persistent decrease in gland function.                                                                                                                                                                                                                                                                                      |                                                        |
|    | R2           | Very good                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | All descriptors of the correct answer have been listed |
|    | R1           | Good                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2 descriptors of the correct answer have been listed   |
|    |              | Satisfactory                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1 descriptor of the correct answer has been listed     |
|    | R0           | Fail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | No descriptors of the correct answer have been listed  |

#### 4. Assessment criteria for learning outcomes

**"Very good"** grade is given to a student who possesses knowledge of the subject in full scope outlined in the curriculum, has a sufficiently deep insight into the subject; is able to answer all questions clearly, exhaustively, and with no outside help; structures their answers logically, with emphasis on the most important information; is able to analyze, compare, classify, summarize, refine, and structure the course content, giving particular attention to cause-and-effect relationships.

**"Good"** is given to a student whose knowledge of the subject is almost in full scope outlined in the curriculum (gaps are only present in the knowledge of some especially complex aspects); is able to answer questions exhaustively with little to no outside help; does not always put emphasis on the most important information, but does not make significant mistakes.

**"Satisfactory"** is given to a student who possesses the bulk of knowledge on the subject; has difficulties answering questions with no outside help, uses imprecise wording; makes mistakes in substantial number of their answers.

**"Unsatisfactory"** is given to a student who does not have the mandatory minimum of knowledge on the subject, is not able to give an answer even with additional guiding questions.

**Practical Skills Assessment Checklist**

Practical Skill Name: Conducting infiltration anesthesia of 1.1 tooth

|    |                                                                                                                                                                                                       |                                                                                                                                                                      |               |  |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--|
| C  | PC-2                                                                                                                                                                                                  | ability to administer and apply modern methods and/or digital technologies to treat dental patients as well as monitor the effectiveness and safety of the treatment |               |  |
| F  | A/02.7                                                                                                                                                                                                | Prescribing and monitoring the effectiveness and safety of non-pharmacological and pharmacological therapies                                                         |               |  |
|    | Action                                                                                                                                                                                                | Performed                                                                                                                                                            | Not Performed |  |
| 1. | Prepare a tray with instruments (medical spatula, dental tweezers, dental mirror, carpule syringe), carpule with anesthetic, injection needles                                                        | 1 point                                                                                                                                                              | -1 point      |  |
| 2. | Treat the diaphragm of the cartridge with an antiseptic                                                                                                                                               | 1 point                                                                                                                                                              | -1 point      |  |
| 3. | Place the cartridge into the injector                                                                                                                                                                 | 1 point                                                                                                                                                              | -1 point      |  |
| 4. | Align the cartridge plugger with the injector plunger                                                                                                                                                 | 1 point                                                                                                                                                              | -1 point      |  |
| 5. | Install and secure the injection needle onto the carpule injector. Check the needle for patency.                                                                                                      | 1 point                                                                                                                                                              | -1 point      |  |
|    | Position the carpule system relative to the injection site (45° to the alveolar process of the maxilla/alveolar part of the mandible) from the palatine/lingual surface                               | 1 point                                                                                                                                                              | -1 point      |  |
|    | Insert a needle into the mucosa at the level of the transition of the alveolar process to the palatine process on the upper jaw/along the transitional fold from the lingual surface on the lower jaw | 1 point                                                                                                                                                              | -1 point      |  |
|    | Insert the injection needle into the tissue to the required depth (to the periapical area)                                                                                                            | 1 point                                                                                                                                                              | -1 point      |  |
|    | Perform an aspiration test. If the aspiration test is negative, slowly infuse the anesthetic solution into the tissue.                                                                                | 1 point                                                                                                                                                              | -1 point      |  |
|    | Withdraw the injection needle from the tissue. Monitor the patient's condition. Wait for the anesthetic's latency period to take effect.                                                              | 1 point                                                                                                                                                              | -1 point      |  |
|    | Ensure the effectiveness of the anesthesia (absence of pain sensitivity when exposed to an irritant).                                                                                                 | 1 point                                                                                                                                                              | -1 point      |  |
|    | Inform the patient about the completion of the procedure                                                                                                                                              | 1 point                                                                                                                                                              | -1 point      |  |
|    | Total                                                                                                                                                                                                 |                                                                                                                                                                      |               |  |

Assessment criteria:

"Pass" - at least 75% of required actions performed

"Fail" - 74% of required actions or less performed