

Educational establishment  
"Belarusian State Medical University"  
"APPROVED"  
Head of the Oral Surgery Department  
I.O. Pohodenko-Chudakova



28. 09 2025

**QUESTIONS**  
**for the credit in 5th semester for students of Medical Faculty for**  
**International Students, 3rd course, 3rd batch**  
**(specialty 7-07-0911-03'Stomatology')**

**1. Organization of Oral and Maxillofacial Surgery**

1. Define the subject "Maxillofacial Surgery".
2. History of the development of oral and maxillofacial surgery in the Republic of Belarus.
3. Describe the main subjects and tasks of the discipline "Maxillofacial Surgery".
4. Describe the basic principles of the maxillofacial surgery service organization in the Republic of Belarus.
5. Staff units of doctors-dental surgeons, assistants in dental outpatient and inpatient clinics?
6. How many rooms should be in a dental surgical block?
7. Required tools and equipment for surgical outpatient clinic.
8. Name the square requirements for surgical outpatient clinic office.
9. What are the sanitary standards, approved for the organization of surgical dental offices and departments of maxillofacial surgery?
10. List the normative documents regulated activities of maxillofacial surgeon in outpatient and inpatient clinics.
11. Name the staff duties of a doctor - maxillofacial surgeon.
12. What are the indications of activity estimated dentist surgeon on surgical treatment?
13. What is the time allocated for one patient on the surgical treatment?

**2. Preparation of the hands of the surgeon and the surgical field. Disinfection and sterilization of instruments and dressing in a polyclinic and hospital**

1. What groups should be subdivided antimicrobial activities?
2. What is meant by the definition of "microbial decontamination"?
3. What does the term "sterilization" and that it provides?
4. What should be subject of sterilization in health care facilities?
5. What are the stages of sterilization process?
6. Describe the scheme of sterilizing instruments in the surgical dental office with the latest orders of the Ministry of Health of the Republic of Belarus.
7. List sterilization methods.
8. What "disinfection" is?
9. List the disinfectants that are permitted for use in the Republic of Belarus.
10. What should be the frequency of cleaning in the surgical dentist's office?
11. Give the definition for antiseptics.
12. What groups are antiseptics divided depending on damaging microbe's agent?
13. What is meant by physical, mechanical, chemical, biological, mixed antiseptics?
14. List the basic requirements for antiseptics.
15. Name the groups of antiseptics.
16. What are 3 categories of processing surgeon's hands?

17. What is the purpose of processing the surgeon hands?
18. What is the way of antiseptic treatment is currently applied in dental surgeon's office?
19. Give the general scheme of preoperative antisepsis for patients.

### **3. Examination of the patient with surgical pathology of the maxillofacial region**

1. What are the features of disease anamnesis in patients with pathology of the maxillofacial region, clarifying the conditions of life and patient labor?
2. Specify the order of examination of the maxillofacial region.
3. List the tools that are necessary for the initial examination of the maxillofacial patient.
4. Tell the palpation rule of tissues of maxillofacial area.
5. What does the superficial and deep palpation of the tissue mean?
6. Specify the rules and procedures for examination of regional lymph nodes in maxillofacial area.
7. List the methods of examination of the temporomandibular joint.
8. What methods of bite investigation do you know?
9. Specify the sequence and examination methods of teeth and surrounding soft tissues.
10. Specify the salivary glands and their functions examination methods.
11. What tools are needed for the examination of salivary glands?
12. List the specific methods of examination of patients with pathology of the maxillofacial region.

### **4. Types of local anesthesia, instruments, local anesthetics in practice of maxillofacial surgeon**

1. Indications and contraindications for local anesthesia.
2. Types of local anesthesia.
3. Drugs used for non-injection local anesthesia.
4. Characteristics of drugs belonging to the group of ethers and specify the indications for their use.
5. Characteristics of drugs belonging to the group of amides and specify the indications for their use.
6. Characteristics of drugs belonging to the group of vasoconstrictors and specify indications for their use.
7. Tools required for the local anesthesia.

### **5. Nerve block in the mandible**

1. List the types of regional anesthesia in the mandible and provide indications for them.
2. Inferior alveolar nerve block. Indications. Procedure. Anesthesia areas.
3. Non-palpation method of mandibular anesthesia. Anatomical guidelines.
4. Palpation method of mandibular anesthesia. Anatomical guidelines.
5. Torus anesthesia. Indications. Procedure. Anesthesia areas.
6. Mental anesthesia. Indications. Procedure.
7. Anesthesia near foramen ovale. Indications. Procedure.
8. Other nerve block anesthesia in maxillofacial area (Gow-Gates, Akinosi-Vazirani).
9. The combination of nerve block and infiltration anesthesia for tooth extraction in the mandible. Indications.
10. Indicate which nerves "turned off" during the posterior superior alveolar nerve block by Weisbrem.
11. What is anesthesia area with mental nerve block?
12. What kind of nerve block is used for anesthesia only the motor fibers of the III branch of the trigeminal nerve?
13. What kinds of nerve block are used for anesthesia of the lingual nerve.
14. List the types of anesthesia that can be done for tooth extraction of 3.6, 4.6 because of the apical periodontitis in young and middle age.
15. Which type of anesthesia may lead to reflex contracture of masticatory muscles?
16. Which branch of the trigeminal nerve is "off" after anesthesia near foramen ovale?

17. Specify the local complications because of torus anesthesia.
18. What kind of anesthesia can be used for extraction of teeth 3.1 and 4.1?

#### **6. Nerve block in the maxilla**

1. Specify the difference between the nerve blocking and infiltration anesthesia.
2. List the types of nerve block in the maxilla.
3. The methodology of the posterior superior alveolar nerve block.
4. Safety precautions during posterior superior alveolar nerve block.
5. Large alveolar nerve block
6. The nasopalatine anesthesia, intra- and extraoral methods
7. Infraorbital anesthesia, the technique of.
8. Anesthesia near foramen rotundum, a technique of.
9. Infratemporal anesthesia, technique of.
10. Anesthesia areas during various types of nerve block in the maxilla.
11. Which nerves are "turned off" during the posterior superior alveolar nerve block?
12. Which nerves are "turned off" during infraorbital anesthesia?
13. Which types of anesthesia can be used I case of extraction root 1.2?
14. Which type of anesthesia should be done for extraction teeth 1.6, 2.6?
15. Which branch of the trigeminal nerve "turned off" during anesthesia near a round hole?
16. Specify types infiltration anesthesia.
17. Which type of anesthesia should be done for extraction teeth 1.4, 2.4
18. When extraction of which teeth nasopalatine anesthesia should be done?
19. What complications can develop during the posterior superior alveolar nerve block?
20. Specify the path of the needle during the posterior superior alveolar nerve block.
21. Specify the optimum amount of anesthetic solution injected during nasopalatine anesthesia.

#### **7. General anesthesia in maxillofacial surgery**

1. Indications and contraindications for general anesthesia in maxillofacial surgery.
2. Plan for patient examination by its preparation for general anesthesia.
3. Types of general anesthesia. Tool and hardware support.
4. Give a definition of sedation.
5. Indications for sedation in maxillofacial surgery.
6. Indications and contraindications for acupuncture and electroanalgesy in maxillofacial surgery.

#### **8. Local complications injection anesthesia in maxillofacial area**

1. Early complications occurring after local anesthesia.
2. Late complications occurring after local anesthesia.
3. What rules must be observed in case of purulent inflammatory focus in the soft tissues of the oral and maxillofacial region while making local anesthesia?
4. Treatment and prevention of bleeding from the site of injection needles during injection anesthesia.
5. Treatment and prevention of postinjection hematoma.
6. Ischemia treatment and prevention of limited skin area resulting by the injection of anesthetic solution.
7. Treatment and prevention of traumatic neuritis, muscle contractures of pterygium muscle.
8. While making which type of anesthesia reflex contracture of masticatory muscles can develop?
9. Specify the possible local complications occurring during the torus nerve block.
10. Which local complications may occur during the posterior superior alveolar nerve block?

### **9. Indications and contraindications for tooth extraction**

1. List the sanitation indications for tooth extraction.
2. List the prosthetic indications for tooth extraction.
3. List the functional indications for tooth extraction.
4. List the aesthetic indications for tooth extraction.

### **10. Tools and methods for tooth extraction on the lower jaw**

1. What are the stages of tooth extraction on the lower jaw?
2. The ergonomic rules during tooth extraction on the lower jaw.
3. Which forceps are used for extraction tooth with saved crown on the mandible?
4. Which forceps are used for extraction tooth with unsaved crown on the mandible?
5. Specify the differences of forceps, curved along the edge, and curved along a plane.
6. What are the ways of holding forceps for tooth extraction on the lower jaw.
7. Techniques of incisors and canines extraction in the lower jaw.
8. Techniques of premolars extraction in the lower jaw.
9. Techniques of molars extraction in the lower jaw.
10. What kind of reception is carried out for dislocation of the lower incisors.
11. What forceps should be used for canines and premolars extraction with saved crown.
12. What the components of forceps for tooth extraction.

### **11. Tools and methods of tooth extraction in the maxilla**

1. What are the stages of tooth extraction on the maxilla?
2. The ergonomic rules during tooth extraction on the maxilla.
3. Which forceps are used for extraction tooth with saved crown on the maxilla?
4. Which forceps are used for extraction tooth with unsaved crown on the maxilla?
5. Techniques of incisors and canines extraction in the maxilla.
6. Techniques of premolars extraction in the maxilla.
7. Techniques of molars extraction in the maxilla.
8. Which forceps are used for extraction teeth 1.3, 2.3 with the saved crown?
9. Which forceps are used for extraction 1.7 with saved crown?
10. While removing of which tooth on the maxilla the first move is in palatal side?

### **12. Complex tooth extraction on mandible and maxilla**

1. What is "complex tooth extraction"?
2. What indications of using dental unit while complex tooth extraction are?
3. Indications for using a chisel while complex tooth extraction.
4. Approaches used in the operation of complex tooth extraction.
5. The operation stages of complex 4.8 tooth extraction.
6. Management of the patient after complex tooth extraction.

### **13. Local complications during tooth extraction**

1. Fracture of the removed tooth or root: causes, treatment, prevention.
2. Tooth-antagonist fracture during tooth extraction: causes, treatment, prevention.
3. Dislocation or removal of the adjacent tooth during tooth removing: causes, treatment, prevention.
4. Fracture of the mandible during the teeth extraction. Causes, clinical picture, diagnosis, treatment, prevention.
5. Mandible dislocation during the teeth extraction. Causes, clinical picture, diagnosis, treatment, prevention.
6. Fracture of the adjacent area of the alveolar bone while the tooth extraction. Causes, clinical picture, diagnosis, treatment, prevention.

7. Fracture of the maxillary tuber during tooth extraction. Causes, clinical picture, diagnosis, treatment, prevention.
8. Sinus perforation during tooth extraction. Causes, clinical picture, diagnosis, treatment, prevention.
9. Damage of the surrounding soft tissues during tooth extraction. Causes, clinical picture, diagnosis, treatment, prevention.
10. Pushing the tooth root at the bottom of the soft tissues of the oral cavity during tooth extraction. Causes, clinical picture, diagnosis, treatment, prevention.
11. The sudden profuse bleeding during tooth extraction. Causes, clinical picture, diagnosis, treatment, prevention.

#### **14. Features of local anesthesia and tooth extractions in patients with general somatic pathology**

1. Determine the indications and contraindications for tooth extraction in patients with hypertension in an outpatient clinic. Choose the anesthetic solution.
2. Determine the indications and contraindications for tooth extraction in patients with coronary heart disease in an outpatient clinic. Choose the anesthetic solution.
3. Determine the indications and contraindications for tooth extraction in patients with asthma in an outpatient clinic. Choose the anesthetic solution.
4. Determine the indications and contraindications for tooth extraction in patients with diabetes in an outpatient clinic. Choose the anesthetic solution.
5. Determine the indications and contraindications for tooth extraction in patients with bleeding diathesis in an outpatient clinic. Choose the anesthetic solution.
6. Create preoperative plan for planned tooth extraction under local anesthesia for patient with general somatic pathology.
7. Create postoperative treatment plan for the patient with general somatic pathology.
8. What is necessary to observe during the operation of tooth extraction in patients ischemic heart disease?
9. List the features of the tooth extraction in patients with asthma.
10. List the features of the tooth extraction in patients with blood disease.
11. How soon after myocardial infarction can surgical dental health be done?
12. Where urgent surgery should be performed in the oral cavity to the patient in the first 6 months after myocardial infarction?
13. Specify the features of the management of patients with diabetes after tooth extraction.
14. Describe the main clinical symptoms of hypertension.
15. List the emergencies that can develop in patients with arterial hypertension in an outpatient dental clinic.
16. List the factors that contribute to the development of hypertensive crisis in hypertensive patients.
17. What are the possible complications of hypertension?
18. List the set of preventive measures that reduce the risk of complications in patients with hypertension.
19. Assist algorithm for hypertensive crisis in a polyclinic.
20. List the risk factors for stroke during a reception at the surgeon-dentist in the outpatient setting.
21. What are the most frequent manifestations of ischemia?
22. List the factors that contribute to the development of stenocardia attack and its main symptoms.
23. List the main measures of complications prevention of ischemic heart disease.
24. List the main symptoms of myocardial infarction.
25. Give an algorithm to assist in acute myocardial infarction.
26. List the main clinical symptoms of asthma attack and enter the factors contributing to its development.
27. List the prevention measures that reduce the risk of asthma attack on reception at the dentist surgeon.

28. List the main clinical symptoms of hypoglycemic coma, and the factors contributing to its development.
29. List the prevention measures to reduce the risk of hyperglycemic coma on the reception at the dentist surgeon.
30. Give an algorithm for emergency assistance in hyperglycemic coma.
31. Specify the factors that contribute to the development of hypoglycemic coma, and list its symptoms.
32. Give an algorithm for emergency assistance in a hypoglycemic coma.
33. What are the main symptoms of an epileptic seizure? Specify the factors contributing to its development.
34. List the preventive measures of episode in patients with epilepsy.
35. Give an algorithm for emergency aid in an episode of epilepsy.

### **15. Drug anaphylactic shock**

1. The definition of the drug anaphylactic shock.
2. List the risk factors for drug anaphylactic shock.
3. What type of allergic reactions drug anaphylactic shock belongs to?
4. What is meant by the term "sensitization"?
5. Describe the clinical picture of drug anaphylactic shock.
6. What are the 5 types of anaphylactic shock, depending on the leading syndrome and describe the characteristics of their clinical symptoms.
7. Describe the clinical picture of mild severity drug anaphylactic shock.
8. Describe the clinical picture of medium severity drug anaphylactic shock.
9. Describe the clinical picture of severe severity drug anaphylactic shock.
10. Give an algorithm for emergency aid in anaphylactic shock.
11. What is meant by the term "primary prevention of anaphylactic shock"?
12. What is meant by the concept of "secondary prevention of anaphylactic shock"?