

Ministry of Health of Ukraine
Vinnitsa national pirogov memorial medical university
Department of Surgical Dentistry and Maxillofacial Surgery

«Agreed»

Methodical Council of the Faculty of
Dentistry
Protocol № 8
«26» 04 2023
Chairman of the Methodological Council
of the Faculty of Dentistry
Professor of HEI

 Serhii SHUVALOV

«Approved»

By the Scientific Council of VNMU

Protocol № 7
«27» 04 2023
Chairman of the Academic Council
Professor of HEI

 Viktoriia PETRUSHENKO

Instructions for the student to the station №4

«Solving a clinical situational problem in surgical dentistry»

The practical component of the unified state qualification exam OSP(C)E at the Faculty of Dentistry will take place in a one-day format according to the order of the rector of VNMU №33 dated 16.04.2021 in connection with the epidemiological situation in Vinnytsia region and on the basis of the Resolution of the Cabinet of Ministers of Ukraine №2 956 dated 13 October 2020 "On amendments to the Resolution of the Cabinet of Ministers of Ukraine dated 22 July 2020 № 641 "and in order to prevent the spread of acute respiratory disease COVID-19 caused by coronavirus SARS-CoV-2, according to the order of the rector of VNMU №26 dated April 28, 2021, distance learning has been continued, so OSP (C) E-2 **will take place on the Microsoft Teams platform.**

On the day of the exam, the secretary of the State Examination Commission join the student of the group, which passes the exam according to the schedule, to the meeting of the examiner. Exam recording is included. At the station, the student must greet and introduce himself, **present a document (passport)** proving his identity to the teacher. The student acquires a practical skill or scenario, which provides to indicate the sequence of procedures, manipulations, interpret the results of examination and research, anamnestic and objective data, interpret the results of laboratory and instrumental methods of research of the patient, diagnose, determine patient management and prescribe treatment, naming group of drugs and a representative.

The duration of the station is 10 minutes. After the end of the stay at the station, the examiner does not accept the answer. Please note that the teacher is an observer of your actions and does not provide instructions, not comment or give question.

Requirements for passing the station:

- use a computer or laptop while answering;
- the answer is accepted provided the camera is on, where the student taking the exam is clearly visible, and the microphone with clear sound;
- video is recorded while working at the station.

It is forbidden to use a mobile phone and other electronic gadgets, to transmit, copy and take out any information related to the exam.

Part of OSP(C) E in surgical dentistry consists of two stations.

Station №4: «Solving a clinical situational problem in surgical dentistry»

An example of an answer to a clinical situational problem «The patient is 20 years old, complains of a tumor on the side of the neck on the right. I noticed a tumor a year ago. Objectively: a semi-oval tumor with clear borders 2x3 cm. on the lateral surface of the neck. The tumor is not fused to the skin, painless dense-elastic consistency, moving up and to the side. Regional lymph nodes are not enlarged. At a puncture the light yellow liquid consisting of the squamous epithelium, cholesterol crystals, lymphocytes, erythrocytes is received. Formulate a diagnosis and determine a plan for diagnosis and treatment?»

Questions to the task:

№	List of questions
1.	Formulate a diagnosis?
2.	What are the main symptoms that indicate this pathology?
3.	With what diseases it is necessary to carry out differential diagnosis of this disease?
4.	Make a treatment plan.
5.	What is the surgical method of treatment?

Competencies that are assessed at the station:

Communicative: the ability to present oneself, to explain the purpose of communication..

Physical: mastery of the method of examination, history taking, patient complaints.

Cognitive:

- skills of using a carpule syringe;
- skills of observing the rules of asepsis and antiseptics at dental surgery.

Logistics of the station: dental unit, dental drill, skull, upper jaw, syringe, spatula or dental mirror, answer sheet, checklist..

List of situations:

- anaphylactic shock;
- fainting;
- collapse;
- epileptic seizure;
- cardiogenic shock;
- myocardial infarction;
- stroke;
- diabetic coma;
- pulmonary diseases;
- diabetes;
- obesity,
- liver disease;
- drug allergy;
- kidney disease,
- osteoporosis.

Практичні навички до станції №4

1. A 42-year-old patient complains of pain in the right submandibular and sublingual areas, which is aggravated during the meal, a rise in body temperature to 37.6° C. He feels sick for 2 months. Objectively: infiltration along the sublingual fold, hyperemia, soft tissue edema, acute pain on palpation. Turbid saliva with pus is secreted from the duct of the right submandibular gland. Determine the diagnosis and further treatment tactics?

№	The answer includes	Marks / traditional score	Marks
1.	Determine the diagnosis.	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
2.	What are the main symptoms that indicate this pathology?	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
3.	From what diseases you should differentiate this disease?	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
4	Make a treatment plan.	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
5	What is the surgical method of treatment?	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
At all		0-5 scores	

2. Patient A. 24 years old, after the trauma, complains of pain and swelling in the middle third of the face, nasal bleeding, impaired occlusion, dizziness. Objectively: asymmetry of the face due to the swelling of the soft tissues of the middle third of the face. The symptom of the "step" and the mobility of bone fragments are determined by palpation of the zygomatico-frontal and fronto-nasal sutures. Guerin and Malevich's symptom is positive. Determine the diagnosis and choose the plan of examination and treatment.

№	The answer includes	Marks / traditional score	Marks
1.	Determine the diagnosis.	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
2.	What are the main symptoms that indicate this pathology?	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
3.	From what diseases you should differentiate this disease?	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	

4	Make a treatment plan.	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
5	What is the surgical method of treatment?	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
At all		0-5 scores	

3. The 19-year-old patient was referred to the trauma center with complaints on facial asymmetry, paresthesia of the upper lip on the right and nasal bleeding. Objectively: significant asymmetry of the face due to the swelling and hematoma in the infraorbital area and lower eyelid on the right. The opening of the mouth is slightly limited, the occlusion is not disturbed. During the palpation the symptom of "step" in the area of the right zygomatico-maxillary suture, deformation in the area of lateral margin of the right orbit and a zygomatico-maxillary crest, crepitation in the right infraorbital area is defined; during the percussion there is a symptom of a "cracked pot". Determine the diagnosis and treatment tactics?

№	The answer includes	Marks / traditional score	Marks
1.	Determine the diagnosis.	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
2.	What are the main symptoms that indicate this pathology?	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
3.	From what diseases you should differentiate this disease?	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
4	Make a treatment plan.	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
5	What is the surgical method of treatment?	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
At all		0-5 scores	

4. The patient was taken to the admission department after the accident. Examination of the patient revealed a large hematoma in the area of the floor of the mouth that extends to the neck, as well as significant swelling of the soft tissues of the floor of the mouth and neck. There are signs of asphyxia. Make a complete diagnosis and determine the amount of emergency care?

№	The answer includes	Marks / traditional score	Marks
1.	Determine the diagnosis.	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	

2.	What are the main symptoms that indicate this pathology?	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
3.	From what diseases you should differentiate this disease?	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
4	Make a treatment plan.	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
5	What is the surgical method of treatment?	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
At all		0-5 scores	

5. The patient is 47 years old, complains of constant pain in 2.7 tooth, which is exacerbated when biting. Objectively: the face is symmetrical, normal skin color, mouth opening is not limited, the mucous membrane of the alveolar process is swollen and hyperemic at the level of 2.7 tooth. 2.7 tooth has a deep carious cavity that connects to the pulp chamber. In places, the crown of 2.7 tooth is destroyed below the gingival margin. During the percussion of 2.7 tooth there is an acute pain. On the radiography there is a resorption of the bone tissue in the periapical area of 2.7 tooth, with clear contours, oval in shape, up to 5 mm in diameter. Determine the diagnosis and further tactics of the doctor.

№	The answer includes	Marks / traditional score	Marks
1.	Determine the diagnosis.	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
2.	What are the main symptoms that indicate this pathology?	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
3.	From what diseases you should differentiate this disease?	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
4	Make a treatment plan.	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
5	What is the surgical method of treatment?	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
At all		0-5 scores	

6. The patient is 42 years old, complains of a tumor in the front of the palate, which develops over 10 years. The 1.3, 1.2, 1.1, 2.1, 2.2, 2.3 teeth are intact. On the radiography of the

maxilla there is a focus of the bone destruction with clear contours, the size is 1.5-2.5 cm. Periodontal fissure of the 1.3, 1.2, 1.1, 2.1, 2.2, 2.3 teeth has clear contours. Determine the diagnosis and treatment tactics.

№	The answer includes	Marks / traditional score	Marks
1.	Determine the diagnosis.	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
2.	What are the main symptoms that indicate this pathology?	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
3.	From what diseases you should differentiate this disease?	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
4	Make a treatment plan.	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
5	What is the surgical method of treatment?	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
At all		0-5 scores	

7. The patient is 43 years old, complained of painful swallowing, limited mouth opening. 3 days ago he felt pain in the destroyed 3.7 tooth, the next day there was a limited opening of the mouth. Objectively: edema in the left submandibular area. During palpation there are enlarged lymph nodes. The mouth opens on 1.5 cm. Swelling of the left palatine arch and the lateral wall of the pharynx. 3.7 tooth is destroyed, the mucous membrane around the tooth is swollen, percussion is slightly painful. Determine the diagnosis and treatment tactics.

№	The answer includes	Marks / traditional score	Marks
1.	Determine the diagnosis.	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
2.	What are the main symptoms that indicate this pathology?	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
3.	From what diseases you should differentiate this disease?	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
4	Make a treatment plan.	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
5	What is the surgical method of	0,93-1 / 5	

	treatment?	0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
At all		0-5 scores	

8. The 37-year-old man complained of pain and swelling in his left submandibular area that appeared during the meal. Objectively: elastic swelling of a polygonal shape in the submandibular area, slightly painful. Mouth opening is not limited. Bimanual palpation in the sublingual area reveals a mobile thickening. The mucous membrane is not changed. No saliva is secreted from the sublingual duct. Determine the preliminary diagnosis and make a plan of examination to determine the treatment tactics.

№	The answer includes	Marks / traditional score	Marks
1.	Determine the diagnosis.	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
2.	What are the main symptoms that indicate this pathology?	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
3.	From what diseases you should differentiate this disease?	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
4	Make a treatment plan.	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
5	What is the surgical method of treatment?	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
At all		0-5 scores	

9. The patient, 42 years old, complained of acute pain in the mandible on the left, mobility of the 3.4, 3.5, 3.6 teeth, fever. He feels sick for 2 days. Objectively: swelling of the left cheek. Opening of the mouth in full, slightly painful on the left. In the area of 3.4, 3.5, 3.6 teeth there is a muff-like swelling of the mucous membrane. Percussion of the 3.5 tooth is slightly painful, of the 3.4, 3.6 teeth it is painful. Determine the preliminary diagnosis and make a treatment plan.

№	The answer includes	Marks / traditional score	Marks
1.	Determine the diagnosis.	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
2.	What are the main symptoms that indicate this pathology?	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
3.	From what diseases you should	0,93-1 / 5	

	differentiate this disease?	0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
4	Make a treatment plan.	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
5	What is the surgical method of treatment?	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
At all		0-5 scores	

10. The patient went to the dentist with the complaints of pain and swelling in the mandible. During the examination, trismus up to 1.5 cm is determined, the mucous membrane of the retromolar area is swollen, hyperemic. The 3.8 tooth is covered with a mucous hood, from which pus is excreted, body temperature is 37.8° C, pain during swallowing on the left. Determine the diagnosis and a treatment plan.

№	The answer includes	Marks / traditional score	Marks
1.	Determine the diagnosis.	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
2.	What are the main symptoms that indicate this pathology?	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
3.	From what diseases you should differentiate this disease?	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
4	Make a treatment plan.	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
5	What is the surgical method of treatment?	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
At all		0-5 scores	

11. The patient is 20 years old, complains of a tumor on the lateral side of the neck on the right. He noticed a tumor a year ago. Objectively: a semi-oval tumor with clear margins 2x3 cm on the lateral surface of the neck. The tumor is not fused to the skin, painless dense-elastic consistency, it is mobile in an upward direction and to the side. Regional lymph nodes are not enlarged. A puncture revealed the light yellow liquid consisting of the squamous epithelium, cholesterol crystals, lymphocytes, erythrocytes. Determine the diagnosis and the plan of treatment.

№	The answer includes	Marks / traditional score	Marks
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1.	Determine the diagnosis.	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
2.	What are the main symptoms that indicate this pathology?	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
3.	From what diseases you should differentiate this disease?	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
4	Make a treatment plan.	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
5	What is the surgical method of treatment?	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
At all		0-5 scores	

12. The patient complains of acute intense pain and swelling in the area of the destroyed tooth, weakness, fever up to 38.3° C, loss of appetite, insomnia. Objectively: collateral edema of the soft tissues of the submandibular area on the right, lower section of the right cheek. Regional lymph nodes on the right are enlarged, painful during palpation. The crown of the 4.6 tooth is half destroyed, the 4.5, 4.6, 4.7 teeth are mobile, there is a muff-like infiltration in the area of these teeth. Vinsent's symptom is positive. Determine the preliminary diagnosis and the plan of treatment.

№	The answer includes	Marks / traditional score	Marks
1.	Determine the diagnosis.	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
2.	What are the main symptoms that indicate this pathology?	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
3.	From what diseases you should differentiate this disease?	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
4	Make a treatment plan.	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
5	What is the surgical method of treatment?	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
At all		0-5 scores	

13. A 56-year-old man complains of pain in the left parotid area, a progressive asymmetry of the face, which he noticed a month ago. Objectively: leftside paresis of facial muscles. In front of the tragus there is a pathological infiltration, the skin over it is tense and cyanotic, lymph nodes on the left are enlarged. The opening of the mouth is limited to 2.5 cm. Saliva is not secreted from the duct of the left parotid gland. Determine the preliminary diagnosis and the plan of treatment.

№	The answer includes	Marks / traditional score	Marks
1.	Determine the diagnosis.	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
2.	What are the main symptoms that indicate this pathology?	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
3.	From what diseases you should differentiate this disease?	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
4	Make a treatment plan.	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
5	What is the surgical method of treatment?	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
At all		0-5 scores	

14. A 51-year-old patient was injured 3 days ago. He complains of pain and swelling in the left infraorbital region, numbness of the wings of the nose, upper lip, maxillary teeth on the left, periodic bleeding from the left nostril. Objectively: asymmetry of the face due to the depression of the tissues of the left zygomatic area. At the same time the symptom of a "step" on the inferior orbital margin on the left is palpated. Mouth opening is limited to 2.5 cm, painful on the left. The occlusion is not disturbed. Hyperemia and edema are observed along the buccal fold in the area of the 2.6, 2.7 teeth, and the "step" deformity is palpated. Make the preliminary diagnosis and determine the plan of treatment.

№	The answer includes	Marks / traditional score	Marks
1.	Determine the diagnosis.	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
2.	What are the main symptoms that indicate this pathology?	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
3.	From what diseases you should differentiate this disease?	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3	

		0,59 and less / 2	
4	Make a treatment plan.	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
5	What is the surgical method of treatment?	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
At all		0-5 scores	

15. The 27-year-old patient received a facial injury during a fight with unknown people 2 hours ago. He complains of pain and swelling in the infraorbital areas, a feeling of numbness in the wing of the nose, upper lip, teeth of the upper jaw on the left and right, the inability to completely close the teeth. Objectively: facial asymmetry due to the swelling of the soft tissues of the middle third of the face on both sides. Palpation determines the symptom of "steps" on the inferior orbital margin on both sides. Mouth opening is up to 4 cm, painful on both sides. Positive symptom of Malevich. Determine the preliminary diagnosis and the plan of treatment.

No	The answer includes	Marks / traditional score	Marks
1.	Determine the diagnosis.	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
2.	What are the main symptoms that indicate this pathology?	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
3.	From what diseases you should differentiate this disease?	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
4	Make a treatment plan.	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
5	What is the surgical method of treatment?	0,93-1 / 5 0,8-0,92 / 4 0,6-0,79 / 3 0,59 and less / 2	
At all		0-5 scores	

List of educational and methodical literature[^]

1. Peterson's Principles Of Oral & Maxillofacial Surgery, Third Edition - 2 Vol. Set (Hb) 2011
2. Atlas of Oral and Maxillofacial Surgery (Deepak Kademani, Paul Tiwana) 2015
3. Contemporary Oral and Maxillofacial Surgery (James R. Hupp DMD MD JD MBA, Myron R. Tucker DDS, Edward Ellis III DDS MS) 2018

4. Oral and Maxillofacial Surgery Review: A Study Guide (Perfect for Board Review) (Inglés) Tapa blanda – 9 Julio 2015 (Din Lam, Daniel Laskin)
5. Oral and Maxillofacial Surgery Secrets (A. Omar Abubaker DMD PhD, Din Lam DMD MD) 2015
6. Oral Surgery for Dental Students: A Quick Reference Guide 1st Edition, (Jeffrey A. Elo, Alan S. Herford) 2019
7. Surgical Approaches to the Facial Skeleton (Edward Ellis III DDS, Michael F. Zide DDS) 2018