

**MINISTRY OF HEALTH OF UKRAINE  
VINNYTSIA NATIONAL MEDICAL UNIVERSITY  
NAMED AFTER M.I. PYROGOV**

**“APPROVED”**

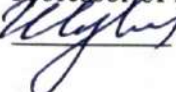
by Methodological Council  
of dentistry disciplines

Protocol № 8

dated “26” 03 2025

Head of the Methodological Council

Professor of HEI

 Serhii SHUVALOV

**“AGREED”**

The head of the Examination

Comission № 4

dated “27” 03 2025

Professor of HEI

 Mariia SHINKARUK-DYKOVYTSKA

**EXAMINATION MATERIALS**

**STATION №6 “EMERGENCY MEDICAL CARE IN THE DENTAL OFFICE”  
OSP(C)E**

SPECIALTY

221 Dentistry

EDUCATIONAL PROGRAM

«Dentistry»

FACULTY

Faculty of Dentistry

## APPENDICES TO EXAM MATERIALS

1. Instructions for students at the station (Appendix 1)
2. List of practical skills (Appendix 2)
3. Sample task (Appendix 3)
4. Regulatory documents (Appendix 4)

### INSTRUCTIONS FOR STUDENTS AT STATION No. 6 "EMERGENCY MEDICAL AID AT A DENTAL RECEPTION"

THE FOLLOWING COMPETENCES ARE ASSESSED: collecting complaints and anamnesis; diagnosing the main symptoms and manifestations of emergency conditions in a dental clinic; providing emergency care in emergency conditions in a dental clinic; determining management and treatment tactics; performing medical manipulations on a standardized patient or on a mannequin.

The higher education (HE) candidate must greet and present the examiner with the identification number that was assigned during registration at the OSP(K)I. The candidate's response is videotaped at the station. The HE candidate receives a task according to a certain clinical scenario. Work at the station involves interaction with a tutor who plays the role of a standardized patient (mostly) or a medical professional, as indicated in the scenario.

Before starting communication with the tutor, the candidate is familiarized with the "Task for the student". Then, he clearly performs all the items of the "Task" according to the following scheme.

Stages of work	Instructions
<b>Avoid focusing too much on one stage</b>	
Objective examination	Use the information provided in the condition. Conduct the examination according to the scenario conditions. A list of symptoms to monitor is provided after the table.
Manipulation	It is performed according to the algorithm presented in a separate appendix. For different tasks, it may apply to different stages of work (objective examination, provision of emergency care).
Determining management and treatment tactics	Provide the patient with the necessary position. Name the necessary manipulations and select the means for their implementation. Offer drug treatment in the form of prescriptions, indicate the doses and method of administration of the drugs. The list of means is given after the table.
Completion of the exam	Say goodbye to the patient. Confirm the completion of the tasks.

List of symptoms,  
which are to be demonstrated when solving tasks at Station 6

- symptoms of stroke according to the FAST scale

List of practical skills and abilities,  
which are to be demonstrated when solving tasks at Station 6

Patient interview according to the SAMPLE scheme

Determination of symptoms from the list above

Palpation of pulse on the radial artery

Palpation of pulse on the external carotid artery

Measurement of blood pressure

Determination of respiratory rate

Putting on a face mask for oxygen supply

Assessment of signs of normal breathing: "I see, I hear, I feel"

Protrusion of the lower jaw and tongue forward

Safar's triple technique

Performing artificial respiration using an AMBU bag  
Introduction of an airway, intubation tube  
Performing cardiopulmonary resuscitation  
Digital compression of the temporal artery  
Digital compression of the facial artery

List medications for prescriptions when solving tasks at Station 6  
(other drugs from the specified groups or with similar action are allowed)  
Cardiological drugs (tablet Validol 60 mg, sublingual tab Nitroglycerin 0.5 mg)  
Sedatives (oral drops Corvalol)  
Analeptics (amp. Cordiamine 2 ml)  
Antihistamines (amp. Suprastin 1 ml)  
Hypotensive drugs (drops "Pharmadipin" 2%, tab. Captopres 50/12.5 mg)  
Salicylic acid and derivatives (tab. Aspirin 500 mg)  
Corticosteroids (Dexamethasone 0.4% 1 ml amp.)  
Adrenaline tartrate 0.18% 1 ml amp.

Duration of work at the station - 8 minutes.

After completing the task or the end of the time spent at the station, return the task to the teacher, wait for the signal to end the time spent at the station, and leave the station. After the end of the time spent at the station, the examiner does not accept a response. The examiner is an observer of your actions and does not provide instructions, comments, or questions.

After passing the first station, the student must move to another station according to the route sheet.

IT IS PROHIBITED to communicate with the examiner (except in cases related to safety issues, deterioration of well-being, unforeseen circumstances, etc.), use educational and auxiliary materials, use gadgets, transmit, copy, and distribute any information related to the exam and not publicly available. If a candidate for VO violates the above norms, his/her exam is terminated, and the grade for passing the exam is given as "failed" (violation of the rules of academic integrity).

Appendix 3

## **SAMPLE OF TASKS**

### **Station No. 6 "Emergency medical care at a dental appointment"**

#### **Tasks for a student when working at the station.**

You, a dentist, are seeing a patient. The patient has signs of angina pectoris after a difficult, long-term extraction of the lower eighth impacted tooth.

Demonstrate the actions of a dentist when a patient develops angina pectoris. Record the time. Measure blood pressure, pulse, apply oxygen. Name the main groups of emergencies at a dentist's appointment.

1. Determine the clinical signs of angina pectoris in the patient.
2. Measure blood pressure, pulse in peripheral and main vessels. Determine the respiratory rate.
3. Provide first aid for signs of angina pectoris: record the time; provide the patient with the necessary position; ensure access to air, oxygen; provide medical treatment.
4. Complete the work at the station.

#### **Instructions for a standardized patient.**

You are simulating a 48-year-old patient with signs of angina after a complicated long-term extraction of the lower eighth impacted tooth.

You have a sharp pain behind the sternum, which radiates to the left arm; fear of death. The pain has not passed for 5 minutes.

The doctor (recipient of the VO) will give you a semi-sitting position, put on a face mask (oxygen), unbutton the two top buttons on your shirt. The doctor will give you a nitroglycerin tablet, Corvalol drops, assure you of the success of the treatment, determine the respiratory rate, pulse, and measure blood pressure.

After completing the emergency care, tell the doctor (recipient of the VO) that the pain has passed.

### CHECKLIST

#### Skills assessment at the OSP(K)I station

№	Practical skills	Number of points per skill	Number of student points
<b>Identify the clinical signs of angina in the patient</b>		<b>1,5</b>	
	Pain behind the sternum, feeling of pressure, burning in the chest, radiating pain	0,75	
	Duration of pain	0,75	
<b>Measure blood pressure, pulse on peripheral and main vessels. Determine respiratory rate.</b>		<b>3,0</b>	
	Blood pressure measurement	1,0	
	Pulse measurement on peripheral and major vessels	1,0	
	Determining respiratory rate	1,0	
<b>Provide first aid for signs of angina pectoris</b>		<b>1,5</b>	
	Record the time, provide the patient with the necessary position	0,5	
	Provide access to air and oxygen	0,5	
	Provide medical treatment	0,5	
<b>Maximum points per station</b>		<b>6,0</b>	
<b>The amount of points the student scored</b>			

Appendix 4

### REGULATORY DOCUMENTS

1. Order of the Ministry of Health of Ukraine No. 1269 dated 05.06.2019 "On approval and implementation of medical and technological documents on the standardization of emergency medical care".

2. Order of the Ministry of Health of Ukraine No. 1259 dated 18.07.2024 "On approval of the Standards of medical care "Cardiopulmonary resuscitation in children (basic and advanced measures)", "Cardiopulmonary resuscitation in adults (basic and advanced measures)".

3. Emergencies in surgery / S.D. Khimich, M.I. Burkovsky, O.A. Viltsanyuk et al.; edited by S.D. Khimich. All-Ukrainian specialized publishing house "Medicine", 2025, 487p.

4. Emergencies in surgery: teaching manual / K.M. Bobak, A.I. Bobak, V.V. Kyretiv, etc.; ed. L.M. Kovalchuk. – Kyiv: Medicine, 2017. – 560 p.

5. Protocols for providing emergency medical care at the level of advanced life support (ALS). National textbook edited by prof. Roshchin G.G.: Kyiv, 2019 – 297 p.

6. Timofeev O.O. Maxillofacial surgery: textbook / O.O. Timofeev. - 3 ed., revised and supplemented. - Kyiv: VSV "Medicine", 2022. – 792 p.