

**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 №10 "Standardized patient in the pediatric dentistry clinic"  
Objective Structured Clinical Examination (OSCE)**

SPECIALTY

221 Dentistry

EDUCATIONAL PROGRAM

«Dentistry»

FACULTY

Faculty of Dentistry

## APPENDICES OF EXAMINATION MATERIALS

1. Student Instructions at the Station (Appendix 1)
2. List of Practical Skills at the Station (Appendix 2)
3. Algorithms for Performing Practical Skills (Appendix 3)
4. Sample Task (Appendix 4)
5. Regulatory Documents (Appendix 5)

Appendix 1

### STUDENT INSTRUCTIONS FOR STATION No. 10 " STANDARDIZED PATIENT IN A PEDIATRIC DENTISTRY CLINIC "

**The higher education applicant (HEA) at the station with a standardized patient must:**

- Greet, introduce yourself, and get to know the patient/his/her representatives.
- Establish contact with the child, ask open-ended questions.
- Collect a targeted history - ask about complaints, detail the complaints, what the occurrence is associated with, how long it lasts, etc.
- Conduct an objective examination. Before conducting an objective examination, the patient should be explained the purpose of the procedure, the hands should be treated, and permission should be requested;
- Conduct a dialogue with the patient about the possible diagnosis/condition and differential diagnosis, explain the opinion regarding the possible diagnosis, provide information/clarification regarding the differential diagnosis.
- Assign a patient examination plan and evaluate the results of the data obtained.
- Formulate a final diagnosis.
- Determine the tactics and treatment of the patient.
- Perform the necessary manipulations.
- Wait for the signal to end the time spent at the station, leave the station and move on to the next one.

**THE FOLLOWING COMPETENCES ARE ASSESSED** : manipulation; diagnostics; tactics and treatment.

*The duration of the station is 8 minutes.*

**The higher education applicant is prohibited from the following at the station:**

- communicate with the examiner,
- use educational and support materials,
- use gadgets,
- transmit, copy, and distribute any information related to the exam that is not publicly available.

**Note:** If a candidate for higher education violates the above norms, his/her exam will be terminated, and the exam grade will be "failed" (violation of the rules of academic integrity).

**TO HAVE their own gloves with them.**

Appendix 2

### LIST OF PRACTICAL SKILLS AT THE STATION

No.	Diagnosis	Complaints, objectively	Diagnostics	Treatment, prevention
1	Acute initial caries	Chalk-like spots in the cervical region	Welcome painting	Remineralization therapy, deep fluoridation

2	Chronic candidal stomatitis	Light gray plaque, dense, not removable	Bacteriological, cytological examination	General and local antifungal therapy, oral cavity sanitation
3	Chronic recurrent herpetic stomatitis	4-5 blisters with serous contents, was ill a year ago	PCR, Enzyme-Linked Immunosorbent Assay (ELISA), Cytological Examination	Local and general treatment, immunostimulants, desensitizing therapy, detoxification therapy.
4	Chronic hypertrophic pulpitis	Pain while eating, cavity filled with red tissue	EOD, probing, radiography	Pain relief, surgical treatment methods, endodontic treatment
5	Exacerbation of chronic periodontitis	The pain intensifies when biting, the feeling of a tooth that has grown, the tooth is gray in color,	Percussion, palpation in the area of the tooth apex, EOD, radiography	Endodontic treatment, NSAIDs
6	Herzenberg's pseudoparotitis	Tumor-like, mildly painful neoplasm in the left parotid region	Biopsy with subsequent histological examination	Opening of the abscess, drainage of the wound, antibiotic therapy, phonophoresis of hydrocortisone, electrophoresis
7	Follicular cyst of tooth 46.	Swelling in the area of the angle of the lower jaw	X-ray examination	Cystectomy
8	Acute purulent periostitis	Swelling in the upper lip area	X-ray examination, palpation	Opening of the submandibular abscess, drainage of the wound, preservation of the causative tooth
9	Exacerbation of chronic parenchymal mumps	Swelling in the parotid-masticatory area	Palpation, ultrasound, laboratory research methods	NSAIDs, antibiotic therapy, enzyme therapy
10	Papilloma	Neoplasm on the upper lip, growth on the nail	Biopsy	Removal of neoplasm

11	Mesial traumatic bite	Reverse incisor overlap, sagittal cleft 3 mm, oral trauma	Orthopantomogram CT	Transverse expansion of the upper jaw
12	Palatal position of the tooth	Cosmetic defect, oral position of the upper incisor	Orthopantomography, telerradiography, diagnostic models	Use of removable orthodontic structures
13	Distal bite, Engle class II, subclass 1	Difficulty biting food, cleft palate	Orthopantomography, telerradiography, measurements of diagnostic plaster models.	Apparatus-based treatment method, myogymnastics, elimination of harmful habits
14	Crossbite	Smoothness of its lower third, displacement of the midline of the chin	Orthopantomography, telerradiography, measurements of diagnostic plaster models.	Use of removable orthodontic functionally guiding appliances
15	Neutral bite, crowding of teeth	Aesthetic disturbance, close position of incisors	Orthopantomography, tele-radiography, measurements of diagnostic plaster models, construction of the Hawley-Herber-Herbst diagram, functional tests.	Apparatus-based treatment method, myogymnastics, elimination of harmful habits

Appendix 3

### ALGORITHMS FOR PERFORMING PRACTICAL SKILLS

#### **The higher education applicant at a station with a standardized patient must:**

- Greet, introduce yourself, and get to know the patient/his/her representatives.
- Establish contact with the child, ask open-ended questions.
- Collect a targeted history - ask about complaints, detail the complaints, what the occurrence is associated with, how long it lasts, etc.
- Conduct an objective examination. Before conducting an objective examination, the patient should be explained the purpose of the procedure, the hands should be treated, and permission should be requested;
- Conduct a dialogue with the patient about the possible diagnosis/condition and differential diagnosis, explain the opinion regarding the possible diagnosis, provide information/clarification regarding the differential diagnosis.
- Assign a patient examination plan and evaluate the results of the data obtained.
- Formulate a final diagnosis.
- Determine the tactics and treatment of the patient.
- Wait for the signal to end the time spent at the station, leave the station and move on to the next one.

Appendix 4

## SAMPLE TASKS

### STATION 10 " Standardized patient in a pediatric dentistry clinic "

**Task 11.** Patient 10 years old. Complaints of a cosmetic defect. On external examination, the lower third of the face is reduced, the chin is pushed forward, the upper lip is shortened, the nasolabial folds are sharply pronounced, the corners of the mouth are lowered, the angle of the lower jaw is turned out. When closing the teeth, a reverse incisor overlap is determined with the presence of a sagittal gap of 3 mm, the cutting edges of the upper incisors injure the mucous membrane of the oral part of the alveolar process of the lower jaw. In the lateral areas, a contract of homonym teeth is determined, and the buccal medial tubercle 6/6 contacts the distal tubercle 6/6.

No.	The answer scheme includes
1.	Formulate a diagnosis?
2.	What are some additional examination methods?
3	What are the likely causes of this anomaly?
4	What is the treatment plan?
5.	Treatment prognosis?

### I STATION EVALUATION CHECKLIST

No. of the company	Practical skills	Number of points per skill	Number of points of the applicant
<b>1</b>	<b>Communication</b>	<b>1.5</b>	
	(greetings, introductions, beginning and end of communication)		
<b>2</b>	<b>Complaints, medical history.</b>	<b>0.75</b>	
	Mesial bite/progenia	0.75	
	Mesial traumatic bite	0.5	
<b>3</b>	<b>Objective examination</b>	<b>1.5</b>	
	Examination, palpation, probing, bad habits, heredity	1.5	
	Bad habits, heredity	1.2	
	Heredity	0.9	
<b>4</b>	<b>Diagnostics.</b>	<b>1.5</b>	
	Orthopantomogram, CT, TRG	1.5	
	CT, TRG	1.2	
	Orthopantomogram	0.9	
<b>5</b>	<b>Tactics and treatment.</b>	<b>0.3</b>	
	Transverse expansion of the upper jaw	0.15	
	Use of fixed orthodontic appliances	0.15	
<b>6</b>	<b>Prevention. Treatment prognosis?</b>	<b>0.15</b>	
	Favorable under the condition of skeletal expansion of the upper jaw		

	Mandatory removal of wisdom teeth to avoid recurrence	0.15	
<b>7</b>	<b>Ethical aspects</b>	<b>0.3</b>	
	<b>Maximum points per station</b>	<b>6.0</b>	
	<b>The amount of points the student scored</b>		

**Appendix 5**  
**REGULATORY DOCUMENTS (only for the last 5 years)**  
**on the basis of which clinical cases were created.**

1. Procedure for the certification of applicants for the degree of professional pre-higher education and degrees of higher education at the first (bachelor's) and second (master's) levels in the form of a unified state qualification exam, approved by the Resolution of the Cabinet of Ministers of Ukraine dated May 19, 2021, No. 497;
2. Resolution of the Cabinet of Ministers of Ukraine No. 269 dated March 28, 2023 "On amendments to the Procedure for conducting the Unified State Qualification Exam for applicants for a master's degree in specialties of the field of knowledge '22 Health Care'";
3. Procedure, conditions, and deadlines for the development and conduct of the Unified State Qualification Exam and the criteria for evaluating results, approved by the Order of the Ministry of Health of Ukraine dated February 19, 2019, No. 419 with amendments according to Order No. 900 dated May 24, 2024;
4. Higher education standard of the second (master's) level, field of knowledge 22 Health Care, specialty 221 Dentistry;
5. Regulations on the organization of the educational process at Vinnytsia National Pirogov Memorial Medical University, dated June 28, 2024;
6. Regulations on the organization, procedure, and evaluation of the Objective Structured Practical (Clinical) Examination in the field of knowledge 22 "Health Care" for the specialties 222 "Medicine", 228 "Pediatrics", 221 "Dentistry", and 227 "Therapy and Rehabilitation" at Vinnytsia National Pirogov Memorial Medical University;
7. Propedeutics of Pediatric Therapeutic Dentistry – Khomenko L.O., Knyha Plyus, 2021, 310 p.;
8. Pharmacotherapy in Dentistry / V.M. Bobyriov, T.A. Petrova, G.Yu. Ostrovska, M.M. Ryabushko, A.A. Kapustianska. Vinnitsia, Nova Knyha, 2020, 376 p.;
9. Pediatric Dentistry / eds. N. Kotsanos, H. Sarnat, K. Park. Cham: Springer International Publishing, 2022;
10. Stomatology in 2 books. Rozhko M.M., 2020, 792 p.;
11. Kenneth M. Hargreaves, Louis G. Berman – Endodontics. Textbook, 2022, 1040 p.;
12. Ashraf F. Fouad, Mahmoud Torabinejad, Shahrokh Shabahang – Endodontics: Principles and Practice, 2020, 496 p.;
13. Prevention of Dental Diseases, Kaskova L.F., Amosova L.I., Kulai O.O., Magnoliya Publishing, 2022;
14. Pharmacotherapy in Dentistry. Bobyriov V.M., Petrova T.A., Ostrovska G.Yu., Nova Knyha, 2020, 376 p.;
15. Prevention of Dental Diseases. Textbook. Smolyar N.I., Humeniuk O.M., Magnoliya Publishing, 2021;
16. Operative Dentistry. Endodontics: Textbook in 2 vol. Vol.1 / M.Yu. Antonenko et al.; edited by A.V. Borisenko. 2nd ed. Kyiv: AUS Medicine Publishing, 2020, 384 p.;
17. Kenneth Eaton, Philip Ower – Practical Periodontology (Ukrainian ed. 2nd), Kyiv: VSV "Meditsyna", 2023, 325 p.;
18. Clinical Periodontology and Implantology by Newman and Carranza, 14th ed., 2 vols., Ukrainian ed., Kyiv: VSV "Meditsyna", 2024, 1280 p.;
19. Examination of Children with Surgical Maxillofacial Diseases. Practical Guide – Yakovenko L., Knyha Plyus, 2022, 164 p.;

20. Clinical Periodontology and Implantology by Newman and Carranza, 14th ed., 2 vols., Ukrainian ed., Meditsyna, 2025, 1543 p.;
21. Kharkov L.V., Yakovenko L.M., Chekhova I.L. – Pediatric Surgical Dentistry and Maxillofacial Surgery: Textbook, 2nd ed., Meditsyna, 2022, 496 p.;
22. Pediatric Oral and Maxillofacial Surgery: Textbook / L.V. Kharkov et al., 2nd ed., 2020, 104 p.;
23. Pediatric Surgical Dentistry and Maxillofacial Surgery: Textbook / L.M. Yakovenko et al., 2nd ed., 2022, 496 p.;
24. Tymofieiev O.O. – Maxillofacial Surgery: Textbook, 3rd ed., 2022, 792 p.;
25. Tymofieiev O.O. – Surgical Dentistry and Maxillofacial Surgery. Vol. 1., 2024, 348 p.;
26. Hutor N.S. – Practical Skills in Surgical Dentistry: Manual, Ukrmedkn., 2024, 236 p.;
27. Tkachenko P.I., Bilokon S.O., Lokhmatova N.M. – Acute and Chronic Maxillofacial Lymphadenitis in Children, Magnoliya, 2022, 124 p.;
28. Malyk S.V. – Surgery for Dental Faculties, Nova Knyha, 2020, 440 p.;
29. Yakymets A.V., Skrypnyk I.L., Leporskyi D.V. – Digital and Clinical Protocols for Orthodontic Aligner Use, PublishPro, Kyiv, 2022;
30. Fastovets O.O., Sergienko O.I. – Results of Clinical and Functional Study of Patients with Partial Defects of Dental Arches Complicated by Dentofacial Deformities Requiring Orthodontic Treatment in Preparation for Prosthetics, Bulletin of Dentistry, 2023, 122(1), pp. 153–159;
31. Maes M. – Precision Nomothetic Medicine in Depression Research, Journal of Personalized Medicine, 2022, 12(3), 403;
32. Petrenko O.M. – The Role of Modern Imaging Diagnostic Methods in Determining Functional Disorders of the Masticatory-Mimetic System in Children with Distal Bite, Radiology and Radiography, 2021, 4(2), pp. 112–120;
33. Yarova S.P. et al. – Static and Dynamic Occlusion: Collective Monograph, European Scientific Platform, 2023;
34. Temporary Anchorage Devices in Clinical Orthodontics / Edited by Jae Hyun Park, 2020.756.