

MINISTRY OF EDUCATION AND SCIENCE OF THE RUSSIAN FEDERATION

PENZA STATE UNIVERSITY

MEDICAL INSTITUTE

APPROVED

by director of medical institute



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## PRACTICAL TRAINING PROGRAM

C2.1.2 Clinical practice (Assistant of dentist (hygienist))

Program (specialty) - *31.05.03 Dentistry*

Major - *Dentist*

Graduate's qualification (degree) – *specialist*

Study format - *full-time*

Penza, 2016

### **1. Goals of clinical practice.**

Goal of clinical practice (Assistant of dentist (hygienist)) is prevention of dental diseases.

### **2. Objectives of clinical practice.**

Objectives of clinical practice (Assistant of dentist (hygienist)) are

- to study principles of organization and work of dental clinic, prevention of nosocomial infections in medical institutions;
- development of measures on labor protection and safety, prevention occupational diseases, monitoring of compliance and ensuring of environmental safety;
- to perform dental examination of children and adults;
- to eliminate risk factors of occurrence of dental diseases;
- development of methods of dental education and implementation of motivation of population to maintain dental health;
- development of methods of prevention of dental diseases, as well as prevention of complications in dental clinic;
- development of diagnostic methods of examination of patients with different dental diseases, injuries, defects and deformities of maxillofacial region;
- development of methods of diagnosis of symptomatic manifestations of oral somatic and infectious diseases;
- communication skills and interaction with colleagues and patients;
- to study basic principles of ethics and deontology.

### **3. The place of practical training in the speciality MPEP's structure.**

Clinical practice (Assistant of dentist (hygienist)) refers to the basic part of C2 block of Practice (module) of the curriculum for the specialty "Dentistry".

Practical training "Assistant of dentist (surgeon)" is in the methodological relationship and is based on the following disciplines: Human anatomy, Human Physiology, Pre-clinical course of Dentistry, Science of dental materials, Cariesology, Prevention and municipal dentistry, Local anesthesia and anesthesiology in dentistry.

Competences acquired during passage Practical training "Assistant of dentist (surgeon)" prepare the student for mastering other professional competences. The basic skills acquired during passage Practical training "Assistant of dentist (surgeon)" should be used in further study of the following disciplines: Clinical dentistry; Orthodontics and child prosthetics, Pediatric dentistry, Oral and maxillofacial surgery, Periodontology, Practical trainings (assistant of dentist (pediatric dentist); assistant of dentist (general practitioner dentist); assistant of dentist (prosthetic dentist); assistant of dentist (surgeon)).

### **4. Venue and time of clinical practice implementation.**

General workload of the said practical training totals 3 credit units or 2 weeks or 108 hours.

Practical training "Practice of obtaining of vocational skills and experience of professional activities (Assistant of dentist (surgeon))" is carried out on the basis of dental clinic - "Municipal dental care".

The duration of the training is 2 weeks. Duration of the work is 6 hours.

For persons with disabilities choice of places of practical training takes into account health and accessibility requirements.

### **5. Student's competences to be developed as a result of clinical practice completion.**

Completion of the said practical training should lead to development of components of the following competences in compliance with FSES HE in the given field (specialty):

- be ready to solve typical problems in their professional activities using different information sources, medical terminology, computer technologies and complying with the demands of information security (GPC-1);
- be ready to communicate in spoken and written forms in Russian and foreign languages to solve the problems of professional activities (GPC-2);
- ability to use the basic economic and legal knowledge in professional activities (GPC-3);
- strictly follow the rules of medical ethics in professional activities (GPC-4);
- be able to analyze the results of professional activities and employ measures for preventing medical errors (GPC-5);
- know how to compile health records (GPC-6);
- employ knowledge in general science and its branches for solving professional tasks (GPC-7);
- know how to use drugs medicines and their combinations in solving professional problems (GPC-8);
- know how to use medicines, medical products and technologies in solving professional problems (GPC-9);
- know how to organize patients care and provide primary medical care (GPC- 10);
- know how to use various medical equipment according to their purpose and in compliance with healthcare standards (GPC-11).
- be able to analyse patients complaints and medical history, results of medical examinations, laboratory tests, special equipment diagnostics and others so as to determine the presence or absence of dental disorders (SPC- 5);
- be able to determine the pathological states and conditions, symptoms and syndromes, nosology forms according to the International Classification of Diseases (N revision) (SPC-6);
- be ready to conduct medical expert review for disability statements, death statements and others (SPC-7);
- be able to determine the optimum strategy for treating patients with various dental disorders (SPC-8);
- be ready to provide hospital treatment for dental patients with different types of diseases (SPC-9);
- be ready to participate in providing medical care in emergency situations, including medical evacuations (SPC-10);
- be ready to determine and advise medical treatment and natural, non-drug therapies for dental patients requiring rehabilitation and health-resorts treatment (SPC -11);
- be able to teach the patients and their families necessary hygiene, health monitoring and healthcare measures that contribute to the prevention of dental diseases and improving the general health (SPC-12);
- be able to educate the public on eliminating the health risk factors and building healthy lifestyle (SPC-13)
- be ready to apply new methods and technologies so as to promote higher standards of public healthcare (SPC -19).

As a result of the clinical practice students should have the following:

Knowledge:

- medical documentation;
- etiology, pathogenesis and clinical symptoms of main oral diseases;
- principles of treatment of main oral diseases;
- dental materials, their application, advantages and disadvantages;
- classifications of oral diseases;
- principles of diagnosis of various oral diseases;
- methods of diagnosis, treatment and prevention of oral diseases;
- indications and contraindications for surgery intervention in outpatient and hospital;
- basic principles and methods of medical care;
- main groups of drugs used for medical therapy in patients with various oral diseases.

Skills:

- to use medical and biological terminology;

- to apply the theoretical principles of medical ethics and medical deontology in communication with patients and colleagues;
  - to fill in medical documentation;
  - to perform extraoral and intraoral examination;
  - to diagnose oral diseases, laboratory and instrumental analysis and to interpret their results;
  - to explain the mechanisms of development and clinical symptoms of oral diseases, as well as mechanisms their prevention;
  - to perform primary and secondary prevention of oral disease;
  - to promote a healthy lifestyle;
- to carry out treatment and prevention of diseases using the latest methods.

Working abilities:

- extraoral examination;
- intraoral examination;
- x-ray examination;
- laboratory examination;
- diagnosis of oral diseases;
- assessment of disability;
- to make plan of treatment of dental patients;
- organization of medical care;
- collection of complaints, life and disease history;
- individual selection of oral hygiene aids depending on age and condition of oral health;
- control oral hygiene;
- performing professional oral hygiene.

5.1 For people with disabilities, health status and accessibility requirements are taken into account at the choice of places for passing practical training.

## 6. Structure and contents of clinical practice.

General workload of the said practical training totals 3 credit units or 2 weeks or 108 hours.

№	Training sections (stages)	Types of instruction during practical training including students' independent work and workload (in hours)				Current monitoring means
		<i>Specify work type</i>		<i>Specify work type</i>		
		With instructor	Amount of hours	Independent	Amount of hours	
1. Preparatory stage						
1.1	Instruction on safety technique.	Taking of instruction on safety technique.	2			Register of instruction on safety technique.
1.2	Familiarity with the medical and preventive institution. Rules of patients' admission. Reception work. Safety instructions. Consultations on filling in the diary. Familiarization of students with activities on labor protection and prevention of occupational diseases.	Consultations on filling in practice diary; carrying out of attachment of students to dentists.	2			Practice diary
2. Working as assistant of dentist						
2.1	Examination of dental patients.	Consultations on the main and additional methods of examination, filling in the diary of practice; control of filling out an outpatient card.	4	Work with dentist at preventive reception. Filling in of medical documentation and diary of practical training.	20	Practice diary
2.2	Individual oral hygiene. Dental plaque and dental calculus and methods of their detection. Oral hygiene aids. Controlled tooth cleaning.	Consultations on the choice of controlled tooth cleaning, filling in of diary of practice; control of filling out of outpatient card, compliance of rules of asepsis and antiseptics.	6	Work with dentist at preventive reception. Filling in of medical documentation and diary of practical training.	28	Practice diary
2.3	Prevention of dental caries.	Consultation	4	Work with	28	Practice diary

	Fluoride medicines and methods of their application.	on difficult clinical cases, filling in of practice diary; control of filling in of patient card, the observance of rules of aseptics and antiseptics, the control of prescriptions, filling of references		dentist at preventive reception. Filling in of medical documentation and diary of practical training.		
2.4	Dental education	Consultations on the age characteristics of groups during the sanitary and educational works.	2	Interviews on dental or general medical topic, preparation of sanitary bulletin.	6	Practice diary.
3. Final stage						
3.1	Test with evaluation	Check of practice diary, report. Conducting interviews on control questions and practical skills.		To answer control questions, to work out practical skills, to prepare a practice diary and report.	6	Control questions, practical skills, practice diary, report.
Total	108		20		88	

### 7. Interim certification on basis of clinical practice (Assistant of dentist (hygienist)), evaluation methods.

Interim certification on results of clinical practice is made in form of pass-fail exam with evaluation which includes:

1. Interview:

- control questions;
- practical skills

2. Correctness of filling in reporting documents:

- practice diary;
- report of practice;
- characteristic of student.

Pass-fail exam with evaluation is at the end of period of clinical practice.

#### Demonstrative interview questions

1. Examination of oral hygiene. Hygienic indexes.
2. Examination of state of periodontal tissues. Periodontal indexes.
3. Dental plaque. Its role in pathogenesis of dental caries and periodontal disease.
4. Methods of detection of dental plaque.
5. Methods of teeth cleaning. Controlled teeth cleaning.



6. Oral hygiene aids and materials. Classification, physico-chemical properties. Indications for use.
7. Microorganisms of oral cavity. Its physiological significance, role in development of caries and periodontal disease. Methods and means of prevention.
8. Factors stimulating appearance of caries. Their identification and elimination.
9. Protective functions of oral mucosa. Their role in prevention of dental caries, periodontal diseases.
10. Methods and means of exogenous prevention of dental caries in children. Oral hygiene education for children in different ages.
11. Methods of professional oral hygiene.

#### **Criteria for assessing interview answers**

"Excellent" ("5") – Student is able to present the content of basic (additional) questions in full using data of additional literature. Student demonstrates comprehensive knowledge of content of the discipline.

"Good" ("4") – Student is able to present the content of basic (additional) questions in full. Student demonstrates the ability to fully generalize and compare used material.

"Satisfactory" ("3") – Student is able to partially present the content of basic (additional) questions. Student demonstrates the ability to partially generalize and compare used material.

"Unsatisfactory" ("2") – Student cannot present the content of basic (additional) questions, there is no knowledge of the discipline. Student demonstrates inability to generalize and compared used material.

#### **Demonstrative practical skills.**

1. Dental examination of children in different ages and adults.
2. Recording tooth numbering system for permanent and temporary teeth .
3. Determination of DMF index, DMF surfaces index.
4. Determination of periodontal tissue condition using CPITN, PMA indexes.
5. Definition of hygienic index by Fedorov-Volodkin, Green - Vermillion, PHP.
6. Technique of examination of tooth tissues demineralization.
7. Individual selection of oral hygiene aids.
8. Methods of cleaning of teeth on phantoms.
9. Teaching of children in different ages to brush their teeth.
10. Monitoring of effectiveness of tooth brushing.

#### **Criteria for assessing practical skills**

- “Passed” - development of basic practical skills, abilities and manipulations, ability to use them in standard clinical situations.
- “Failed” - lack of clear understanding, practical skills, abilities and manipulations, lack of ability to use practical skills in specific situations.

### **8. Educational, methodological and informational means provided for C2.1.2 Clinical practice (Assistant of dentist (hygienist))**

a) basic literature:

1. Therapeutic dentistry. Cariesology and diseases of hard tooth tissues. Endodontics [Electronic resource] / Yu. M. Maksimovsky, A.V. Mitronin; under the General ed. of Yu. M. Maksimovsky - M.: GEOTAR-Media, 2014."-  
<http://www.studmedlib.ru/book/ISBN9785970429198.html>

2. Therapeutic dentistry. In 3 parts. Part 2. Periodontal disease [Electronic resource] : textbook / Edited by G. M. Barer. - Moscow : GEOTAR-Media, 2015. - <http://www.studmedlib.ru/book/ISBN9785970434598.html>

б) additional literature:

1. Dentistry. Thematic tests. Section I: Pre-clinical dentistry [Electronic resource] / edited by E. A. Bazikyan M.: GEOTAR - Media, 2009. - <http://www.studmedlib.ru/book/ISBN9785970412459.html>

2. Dentistry. Record and maintain of medical history [Electronic resource] : the manual / Under the editorship of V. V. Afanas'eva, O. O. Yanushevich. - 2nd ed., Rev. and extra - M. : GEOTAR - Media, 2013. - <http://www.studmedlib.ru/book/ISBN9785970427088.html>.

3. Dentistry. Neurostomatologic. Dysfunction of the dentition [Electronic resource] : studies. manual / L. S. persin, M. N. Sharov - M. : GEOTAR - Media, 2013. - <http://www.studmedlib.ru/book/ISBN9785970427286.html>

4. Therapeutic dentistry in 3 parts. Part 3. Diseases of the oral mucosa. [Electronic resource] / edited by G. M. Barrera. - 2nd ed., Rev. and extra - M.: GEOTAR - Media, 2010. - <http://www.studmedlib.ru/book/ISBN9785970411193.html>

5. Therapeutic dentistry. Diseases of teeth. At 3 h. H. 1. [Electronic resource]: textbook / Edited by E. A. Volkov, O. O. Yanushevich - M.: GEOTAR-Media, 2013. - <http://www.studmedlib.ru/book/ISBN9785970426296.html>

6. Pre-clinical dentistry [Electronic resource]: a textbook / Bazikyan E. A., Robustova T. G., Lukina G. I., etc. Under the editorship of E. A. Bazikyan. - Moscow: GEOTAR-Media, 2010. - <http://www.studmedlib.ru/book/ISBN9785970414804.html>

с) Online resources and Software:

1. Single window of access to educational resources - access Mode: <http://window.edu.ru/> free. The title. from the screen.;

2. Scientific electronic library [elibrary.ru http://elibrary.ru/defaultx.asp](http://elibrary.ru/defaultx.asp);

3. Electronic library <http://www.studmedlib.ru>;

4. Licensed software: «Microsoft Windows»; registration number 00037FFEBA CF8FD7, record № CD-130712001 from 12.07.2013; freely distributed SOFTWARE: OpenOffice; Adobe AcrobatReader



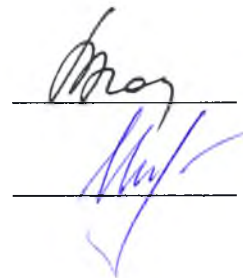
**9. Material and technical means provided for practical training C2.1.2 Clinical practice (Assistant of dentist (hygienist)).**

№	Name of subject (module), practice in accordance with academic plan	Name of special premises for out-of-class work	Equipment of special room and facilities for out-of-class work
1	2	3	4
	C2.1.2 Clinical practice (Assistant of dentist (hygienist))	Clinic premises in accordance with treaty of practical training students with "City dental clinics": department № 4, treatment room №5, central sterilization room	<p>Dental equipment: dental unit, blood pressure monitor, stethoscope, thermometer, anti-shock kit, kit and styling for emergency preventive and curative measures, negatoscope, autoclave, apparatus for disinfection of impressions, dental products and tools, packing machine (machine for pre-sterilization packaging tools), cleaner ultrasonic (ultrasonic cleaning and disinfection device tools and products), lamp (irradiator) bactericidal for premises, radiovisiograph, physiodispenser, air turbine and slow-speed handpieces, set of surgical instruments for tooth extraction.</p> <p>Dental instruments: dental tray, college tweezers, dental probe, dental mirror, Petri dishes with circular brushes, rubber cups, strips, flosses, cotton buds, brushes, applicator, powder of sodium bicarbonate to air flow, indicators, plaque, dyeing tablets, periodontal kit, periodontal probes, toothbrushes, models of dentition, retractors for lips , preparations for dental calculus softening, polishing paste, first aid kit, Anti-AIDS.</p> <p>Consumables: cleaning and lubrication products, drills, hooks for ultrasonic scaler, sterile gauze balls, anesthesia, disinfecting and sterile wipes.</p>

The work program of practical training C2.1.2 Clinical practice (Assistant of dentist (hygienist)) was composed in compliance with requirements of FSES HE taking into account recommendation of EMEP in accordance to academic plan of specialty 31.05.03 Dentistry.

The program was compiled by:

1. L.A. Zyul'kina - head of sub-Dentistry sub-department
2. O.O. Ilyunina -assistant of Dentistry sub-department



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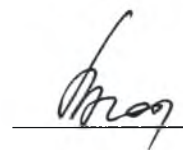
It is prohibited to reproduce the said program in any form without the prior written permission of the sub-department that developed the program.

The program was approved at a meeting of sub-department of Dentistry

Report № 6

from «05» 03 2016

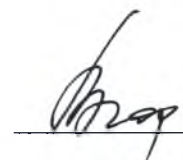
Head of sub-department of Dentistry



L.A. Zyul'kina

The program was approved by the head of faculty of Dentistry

Candidate of Medicine, assistant professor



L.A. Zyul'kina

The program was approved by the methodological committee of medical institute

Report № 7

from «05» 03.2016

Head of the methodological committee of medical institute

Head of the methodological committee of medical institute






O.V. Kalmin

Verification and correction is executed by T.D. Tokareva,  
Diploma № 582406330966 06.07.2018



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**Data on re-approval of the program for consecutive academic years and record of amendments**

Academic year	Department decision (Record no. date, signature of head of the department)	Introduced amendments	Page numbers		
			changed	new	annulled
2016/2017	Record no. 9 dated 13.06.2017  L.A. Zyul'kina	Change of title page in accordance with the order of the Ministry of Education of the Russian Federation No. 320 dated 10.04.2017 from "General practice dentist" to "Dentist»	1	1	-
2017/2018	Record no. 1 dated 30.08.2017  L.A. Zyul'kina	Re-approved for 2017/2018 academic year.  Unchanged	-	-	-
2018/2019	Record no. 12 dated 02.07.2018  L.A. Zyul'kina	Re-approved for 2018/2019 academic year.  Updated section № 7 "Material and technical means provided for the discipline (module)"	2	-	-