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**Federal State Autonomous Educational Institution of Higher Education
PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA NAMED AFTER
PATRICE LUMUMBA
RUDN University**

Institute of Medicine

educational division (faculty/institute/academy) as higher education programme developer

STATE FINAL ATTESTATION SYLLABUS

Recommended by the Didactic Council for the Education Field of:

31.05.03 Dentistry

field of studies / speciality code and title

The final state examination is implemented within the professional education program of higher education:

Dentistry

higher education programme profile/specialisation title

1. GENERAL PROVISIONS

1.1. The Programme of the State Final Attestation (hereinafter referred to as the SFA) for the specialty 31.05.03 Dentistry at the Federal State Autonomous Educational Institution of Higher Education "Patrice Lumumba Peoples' Friendship University of Russia" (hereinafter referred to as RUDN University) has been developed in accordance with the Procedure for Conducting Final Attestation of Students Enrolled in Higher Education Programmes - Bachelor's, Specialist's and Master's Programmes - implemented at the Federal State Autonomous Educational Institution of Higher Education "Peoples' Friendship University of Russia" (approved by Order No. 10 dated 19 January 2023).

1.2. The responsibility and sequence of actions for preparing and conducting the SFA at RUDN University, as well as the list, order and deadlines for the processing of documents required for the SFA by the structural units of RUDN University, are determined by the Procedure for Conducting the State Final Attestation of Students.

1.3. The SFA for the specialty 31.05.03 Dentistry is conducted in the form of a state examination and consists of final testing and an interdisciplinary examination (hereinafter referred to as the IDE), including questions on the following sections (disciplinary blocks) of the main educational programme: Therapeutic Dentistry, Maxillofacial Surgery and Surgical Dentistry, Prosthodontics, Paediatric Dentistry, Orthodontics, General Dental Practice, and Public Health and Healthcare.

1.4. The results of the IDE are assessed as "excellent", "good", "satisfactory", or "unsatisfactory". Assessment according to the point-rating system adopted at RUDN University is permitted for the purposes of determining the graduate's ranking and detailing the graduate's portfolio. A necessary condition for passing the final test is obtaining 70 points or more (i.e. 70% or more correct answers).

1.5. To successfully complete the SFA and be awarded the qualification of "Dentist", a student must pass the final test (70 points or more) and then pass the IDE with a grade of "excellent", "good" or "satisfactory".

1.5.1. If the number of correct answers in the final test is below 70%, the student is not admitted to the IDE, is deemed not to have completed the SFA, and is subject to expulsion for academic failure.

1.5.2. If a student receives an "unsatisfactory" grade in the IDE, the student is deemed not to have completed the SFA and is subject to expulsion for academic failure.

1.6. Following the final test and the IDE, the student has the right to appeal (in accordance with the regulation on appeals during the SFA). The appeal is submitted after the announcement of the results, no later than one working day, to the appeals committee for the specialty 31.05.03 Dentistry, which is established annually by order of the Vice-Rector for Academic Affairs of RUDN University.

2. STATE FINAL ATTESTATION (SFA) GOAL AND TASKS

2.1 The goal of the SFA within the implementation of the higher education programme "Dentistry" is to determine whether the learning outcomes achieved by students upon completion of the programme comply with the relevant requirements of the Federal State

Educational Standard of Higher Education. The SFA includes preparation for the state examination and taking the state examination, the procedure for which is established by the Academic Council of the RUDN University Medical Institute.

2.2 The objectives of the State Final Attestation are:

- to assess the quality of students' acquisition of basic humanities knowledge, natural science laws and phenomena required in professional practice;
- to determine the level of theoretical and practical preparedness of graduates to perform professional tasks in accordance with the qualification awarded;
- to establish the degree of an individual's commitment to self-development, professional development and improvement of professional skills;
- to assess whether graduates have developed stable motivation for professional activity in accordance with the types of professional tasks provided for by the Federal State Educational Standard of Higher Education;
- to evaluate graduates' ability to identify organizational and managerial solutions in non-standard situations and their readiness to assume responsibility for such decisions;
- to ensure the integration of education and scientific and technological activity, improve the efficiency of using scientific and technological achievements, reform the scientific sphere and promote innovation activity;
- to ensure the quality of specialist training in accordance with the requirements of the Federal State Educational Standard of Higher Education.

3. REQUIREMENTS FOR HIGHER EDUCATION PROGRAMME COMPLETION AND LEARNING OUTCOMES

A student who has no academic debts and has fully completed the curriculum or individual curriculum of the higher education programme is allowed to the SFA.

On the higher education programme completion the graduate is expected to master the following **generic competences (GC)**, **general professional competences (GPC)**, **professional competences (PC)**:

Code and descriptor of the generic competences
GC-1. Able to critically analyze problematic situations based on a systems approach and develop an action strategy
GC-2. Able to manage a project at all stages of its life cycle
GC-3. Able to organize and lead team work, developing a team strategy to achieve the set goal
GC-4. Able to use modern communication technologies, including in foreign language(s), for academic and professional interaction
GC-5. Able to analyze and take into account cultural diversity in intercultural interaction
GC-6. Able to define and implement priorities of personal activity and ways of improving it based on self-assessment and lifelong learning
GC-7. Able to maintain an appropriate level of physical fitness to ensure full social and professional activity

GC-8. Able to create and maintain safe living conditions in everyday life and professional activity in order to preserve the natural environment and ensure sustainable development of society, including in the event or threat of emergencies and military conflicts
GC-9. Able to use basic defectological knowledge in social and professional spheres
GC-10. Able to make informed economic decisions in various areas of life
GC-11. Able to develop intolerance toward manifestations of extremism, terrorism and corrupt behavior and to counteract them in professional activity
Code and descriptor of the general professional competences
GPC-1. Able to implement moral and legal norms, ethical and deontological principles in professional activity
GPC-2. Able to analyze the results of personal activity in order to prevent professional errors
GPC-3. Able to counteract the use of doping in sport and combat it
GPC-4. Able to carry out and monitor the effectiveness of measures for prevention, promotion of a healthy lifestyle and sanitary and hygienic education of the population
GPC-5. Able to examine a patient to establish a diagnosis when solving professional tasks
GPC-6. Able to prescribe and monitor the effectiveness and safety of non-pharmacological and pharmacological treatment when solving professional tasks
GPC-7. Able to organize work and make professional decisions in emergency conditions, in emergency situations, epidemics and mass casualty settings
GPC-8. Able to use basic physicochemical, mathematical and natural science concepts and methods when solving professional tasks
GPC-9. Able to assess morphofunctional and physiological states and pathological processes in the human body for solving professional tasks
GPC-10. Able to organize the work of junior and mid-level medical personnel in patient care
GPC-11. Able to implement the principles of quality management in professional activity
GPC-12. Able to implement and monitor the effectiveness of medical rehabilitation of a dental patient
GPC-13. Able to solve standard tasks of professional activity using information and bibliographic resources, biomedical terminology and information and communication technologies, taking into account basic information security requirements
Code and descriptor of the professional competences
PC-1. Able to examine a patient in order to establish a diagnosis

PC-2. Able to prescribe and monitor the effectiveness and safety of non-pharmacological and pharmacological treatment
PC-3. Able to develop, implement and monitor the effectiveness of individual rehabilitation programmes
PC-4. Able to carry out and monitor the effectiveness of sanitary, anti-epidemic and other preventive measures for protecting public health
PC-5. Able to conduct sanitary and hygienic education among the population and medical workers in order to promote a healthy lifestyle
PC-6. Able to analyze and publicly present medical information based on evidence-based medicine, participate in scientific research, and introduce new methods and techniques aimed at protecting public health
PC-7. Able to perform organizational and managerial activities

4. STATE FINAL ATTESTATION PROCEDURE

The SFA may be conducted either in person (with students and the State Examination Committee present at RUDN University during the SFA) or using distance learning technologies (DLT) available in the RUDN University Electronic Information and Educational Environment (EIEE).

The procedure for conducting the SFA in person or using DLT is regulated by the relevant local regulatory act of RUDN University.

The SFA under the higher education programme "Dentistry" includes:

- state examination (SE - computer-based testing);
- state examination (SE - interdisciplinary interview);

The SFA for the specialty 31.05.03 Dentistry is conducted by the State Examination Committee, which is approved annually by order of the Rector (Vice-Rector for Academic Affairs) of RUDN University. The candidacy of the chairperson of the State Examination Committee is submitted annually by the RUDN University Medical Institute from among the heads of leading medical institutions - employer representatives - and is approved by order of the Rector of RUDN University. The committee operates for one year from the date of the order establishing it.

The final test is conducted as online testing using the technical facilities of RUDN University at the Simulation Training Centre of the RUDN University Medical Institute and at the Department of Medical Informatics of the RUDN University Medical Institute (for students enrolled in English-language instruction). The final test uses test items approved by the Academic Council of the RUDN University Medical Institute; these test items are updated annually and undergo review by a leading specialist in the field of 31.05.03 Dentistry, who is an employer representative and is not an employee of RUDN University. Test questions with correct answers are available in the RUDN University TUIS system from March of the year in which the SFA is conducted; access is provided both to the complete list of test items with correct answers and to an individual training mode for each student.

5. STATE EXAM PROCEDURE

The workload of the SFA under the higher education programme is 3 credits.

The state examination is conducted in two stages:

Stage 1 - assessment of the graduate's theoretical training in the form of **computer-based testing** using the resources available in the RUDN University Electronic Information and Educational Environment (EIEE);

Subject to successful completion of Stage 1 - computer-based testing - the graduate is admitted to Stage 2 of the State Final Attestation (interdisciplinary interview), which involves solving professional situational tasks (cases).

To prepare students for the SFA, the head of the higher education programme must, no later than one calendar month before the beginning of the SFA, familiarize final-year students with this SFA programme, the exhaustive list of theoretical questions included in the SFA, examples of professional situational tasks (cases) to be solved during the attestation procedure, as well as the procedure for each stage of the state examination and the methodology for assessing its results (assessment materials).

Before the SFA, mandatory consultation is provided for students on the questions and tasks included in the SFA programme (pre-examination consultation).

The procedure for computer-based testing within the SFA is as follows:

- 1) The student receives 80 questions by random selection;
- 2) The student must answer the questions within no more than 60 minutes;
- 3) The grade is assigned by the computer-based testing system as a percentage of correct answers;
- 4) The student is considered to have passed the final test if he or she answers 70% or more of the questions correctly.

The procedure for conducting the interdisciplinary final examination (interview on the main sections of dentistry) is as follows:

- 1) The interview is conducted on the basis of solving generalized situational tasks in the main sections of dentistry: therapeutic dentistry, surgical dentistry, prosthodontics, paediatric dentistry and orthodontics.

Assessment of SFA results is carried out in accordance with the methodology set out in the assessment materials included in this SFA programme.

6. REQUIREMENTS FOR GRADUATION QUALIFYING PAPER (DEGREE THESIS) AND PROCEDURE FOR ITS DEFENCE

Defence of a final qualifying work is not provided for in the SFA programme.

7. REQUIREMENTS FOR EQUIPMENT AND TECHNOLOGY SUPPORT FOR STATE FINAL ATTESTATION

Rooms for conducting the SFA are equipped with a set of specialized furniture and multimedia technical equipment: desks, chairs, Epson EB-X18 projector, ASUS M50SV COT8300 15.4" WXGA+Glare laptop, Lenovo IdeaPad 300-15ISK i3 6100U laptop, Windows 7 (Microsoft Office 2010, Licence No. 86626883 dated 01.04.2018); Lenovo IdeaPad 300-15ISK i3 6100U laptop; ASUS X553MA-XX061H 15.6" laptop; Acer AS610 (X118HP) projector; BenQ MW533 DLP WXGA 3300 AL High projector; Windows 7 (Microsoft Office 2010, Licence No. 86626883 dated 01.04.2018); SARATOGA SMILY E

dental simulators; LC Dental portable dental units (50 units); VirtEasy Dental simulator (5 units); Zamax dental electronic microscopes (17 units); built-in medical furniture; mobile instrument tables (7 units); Strong 303 micromotors; Strong a Cl(b)-01 c dental handpieces; polymerization lamps; dental examination trays (mirror, probe, tweezers); protective glasses; instruments for dental restorations; a set of restorative materials; assortments of burs and matrices; rubber dam sets (clamps, clamp forceps, rubber dam sheets, rubber dam punch); maxillary and mandibular models for practising various skills (60 units); sets of replacement teeth; polishing discs, brushes and rubber polishers; rotary files; clean stands; hand files; instruments for canal orifice enlargement; EDTA gel; endodontic syringes; endodontic rulers; calibrated endodontic rulers; sets of paper points; sets of gutta-percha; thematic stands.

8. RESOURCES RECOMMENDED FOR STATE FINAL ATTESTATION

Main readings to prepare for state exam and/or degree thesis defence:

1. Surgical Dentistry [Electronic resource]: Textbook / Edited by V.V. Afanasev. - 3rd ed., revised - Moscow: GEOTAR-Media, 2016. - 400 p. - ISBN 978-5-9704-3704-9.
2. Bazikyan Ernest Aramovich. Endodontics [Electronic resource]: Study guide / E.A. Bazikyan, L.V. Volchkova, G.I. Lukina; Edited by Prof. E.A. Bazikyan . - Moscow: GEOTAR-Media, 2016. - 160 p. = ISBN 978-5-9704-3557-1.
3. Volina Elena Grigorevna. Special Microbiology [Text]: Study guide for students of the specialties "General Medicine", "Dentistry", and "Nursing" / E.G. Volina, L.E. Sarukhanova. - Moscow: RUDN University Publishing House, 2016. - 222 p.: ill. - ISBN 978-5-209-06843-3: 108.89. 52.6-V 67
4. Kagan Ilya Iosifovich. Topographic Anatomy and Operative Surgery [Electronic resource]: Textbook / I.I. Kagan, S.V. Chemezov. - Moscow: GEOTAR-Media, 2016. - 672 p. - ISBN 978-5-9704-3856-5.
5. Maksimovsky Yuriy Mikhaylovich. Therapeutic Dentistry. Cariology and Diseases of Dental Hard Tissues. Endodontics [Electronic resource]: Study guide / Yu.M. Maksimovsky, A.V. Mitronin; Edited by Yu.M. Maksimovsky. - Moscow: GEOTAR-Media, 2016. - 480 p. - ISBN 978-5-97043589-2.
6. Therapeutic Dentistry. Cariology and Diseases of Dental Hard Tissues. Endodontics [Electronic resource]: Study guide / Edited by Yu.M. Maksimovsky. - Moscow: GEOTAR-Media, 2016.
7. Therapeutic Dentistry. Dental Diseases [Electronic resource]: Textbook in 3 parts. Part 1 / Edited by E.A. Volkov, O.O. Yanushevich. - Moscow: GEOTAR-Media, 2016. - 168 p. ill. – ISBN 978-5-9704-3619-6.
8. Therapeutic Dentistry [Electronic resource]: Textbook / O.O. Yanushevich [et al.]. - 3rd ed., revised and supplemented - Moscow: GEOTAR-Media, 2016. - 760 p. - ISBN 978-5-9704-3767-4
9. Paediatric Dentistry [Electronic resource]: Textbook in 3 parts. Part 3.: Orthodontics. - Moscow: GEOTAR-Media, 2016. - 240 p. - ISBN 978-5-9704-3554-0.
10. Paediatric Dentistry [Electronic resource]: Textbook in 3 parts. Part 2: Surgery. - Moscow: GEOTAR-Media, 2016. - 320 p. - ISBN 978-59704-3553-3
11. Paediatric Dentistry [Electronic resource]: Textbook in 3 parts. Part 1: Therapy. - Moscow: GEOTAR-Media, 2016. - 480 p. - ISBN 978-59704-3552-6.

12. Bulgakov Vsevolod Sergeevich. Dental Materials Science [Electronic resource]: Study guide / V.S. Bulgakov. - 3rd ed., corrected and supplemented; Electronic text data. - Moscow: RUDN University Publishing House, 2016. - 263 p. - ISBN 978-5-20906992-8.
13. Propedeutic Dentistry [Electronic resource]: Textbook / Edited by E.A. Bazikyan, O.O. Yanushchevicha. - 2nd ed., revised and supplemented - Moscow: GEOTAR-Media, 2016. - 640 p. - ISBN 978-5-9704-3617-2.
14. Bazikyan E.A. Osobennosti dezinfektsii i sterilizatsii v stomatologii [Electronic resource]: Study guide / E.A. Bazikyan. - Moscow: GEOTAR-Media, 2016.
15. Osnovy tekhnologii zubnogo protezirovaniya [Electronic resource]: Textbook v 2-kh tomakh. Vol. 2 / Edited by E.S. Kalivradzhiyana. - Moscow: GEOTAR-Media, 2016. - 92 p. - ISBN 978-5-9704-3610-3.
16. Osnovy tekhnologii zubnogo protezirovaniya. [Electronic resource]: Textbook v 2-kh tomakh. Vol. 1 / Edited by E.S. Kalivradzhiyana. - Moscow: GEOTAR-Media, 2016. - 576 p. - ISBN 978-5-9704-3609-7.
17. Prosthodontics [Electronic resource]: Textbook / Edited by I.Yu. Lebedenko, E.S. Kalivradzhiyana. - Moscow: GEOTAR-Media, 2016. - 640 p. - ISBN 978-5-9704-3722-3.
18. Yanushevich Oleg Olegovich. Orthodontics. Situatsionnye zadachi [Text]: Study guide / O.O. Yanushevich, L.S. Persin. - Moscow: GEOTAR-Media, 2016. - 192 p.: ill. - [ISBN 978-5-9704-3595-3; 770.00. 56.6 -Ya 65
19. Persin Leonid Semenovich. Orthodontics. Diagnosis and Treatment of Dentofacial Anomalies and Deformities [Text]: Textbook / L.S. Persin. - Moscow: GEOTAR-Media, 2016. - 640 p.: ill. - ISBN 978-5-9704-3882-4: 2350.00. 56.68 - P27 20. Dental Prosthetic Technology [Electronic resource]: Textbook / Edited by M.M. Rasulova, T.I. Ibragimova, I.Yu. Lebedenko. - 2 -e izd., corrected and supplemented - Moscow: GEOTAR-Media, 2016.
21. Diseases of the Endocrine Organs: Syndromes, Key Points and Clinical Tasks [Text/electronic resource]: Teaching and methodological manual po propedevtike vnutrennikh bolezney for 2nd- and 3rd-year students, enrolled in specialties "General Medicine", "Dentistry" / S.V. Villevalde [et al.]. - Electronic text data. - Moscow: RUDN University Publishing House, 2016. - 48 p. - ISBN 978-5-209-07227-0 : 22.29. 54.15 - 3-12
22. Diseases of the Oral Mucosa [Electronic resource]: Study guide for students dental faculty / F.Yu. Daurova [et al.]. - Electronic text data. - Moscow: RUDN University Publishing House, 2016. - 113 p. - ISBN 978-5-20907002-3.
23. Diseases of the Digestive Organs and Liver: Syndromes, Key Points and Clinical Tasks [Text]: Teaching and methodological manual po propedevtike vnutrennikh bolezney for 2nd- and 3rd-year students medical faculty specialties "General Medicine", "Dentistry" / S.V. Villevalde [et al.]; Edited by Zh.D.Kobalova. - Moscow: RUDN University Publishing House, 2016. - 91 p.: ill. - ISBN 978-5-209-07661-2: 35.70. 54.13 - 3-12
24. Gemonov V.V. Histology and Embryology of the Oral Organs and Teeth [Electronic resource]: Study guide / V.V. Gemonov, E.N. Lavrova, L.I. Falin. - Moscow: GEOTAR-Media, 2016.

25. Vavilova T.P. Biological Chemistry. Biochemistry of the Oral Cavity [Electronic resource]: Textbook / T.P. Vavilova, A.E. Medvedev. - Moscow: GEOTAR-Media, 2016.
26. Mitrofanenko V.P. Anatomy, Physiology and Biomechanics of the Dentofacial System [Electronic resource]: Study guide / V.P. Mitrofanenko. - 2nd ed., corrected - St. Petersburg: Lan Publishing House, 2016. - 304 p. - (Textbooki for higher education institutions. Spetsialnaya literatura). - ISBN 978-5-81 14-2030.
27. Surgical Dentistry and Maxillofacial Surgery [Electronic resource]: National guideline / Edited by A.A. Kulakov, T.G. Robustova, A.I. Nerobeeva. - Moscow: GEOTAR-Media, 2015. - 928 p. - (National Guidelines). = ISBN 978-5-9704-3727-8.
28. Pharmacotherapy in Endodontic Practice [Electronic resource]: Study guide for dentists i students medical faculty, enrolled in specialty "Dentistry". Part 1 / Compiled by A.V.Zoryan, I.V.Bagdasarova; edited by F.Yu. Daurova. - Electronic text data. - Moscow: RUDN University Publishing House, 2015. - 68 p.: ill. - ISBN 978-5-209-06680-4.
29. Student Practical Work Record Card [Electronic resource]: Teaching and methodological manual / Compiled by V.S.Bulgakov, S.N.Razumova, A.E.Anurova. - Electronic text data. - Moscow: RUDN University Publishing House, 2015. - 12p.: ill. - ISBN 978-5-20905583-9.
30. Therapeutic Dentistry [Electronic resource]: National guideline / Edited by L.A. Dmitrieva, Yu.M. Maksimovsky. - 2nd ed., revised and supplemented - Moscow: GEOTAR-Media, 2015.
31. Therapeutic Dentistry [Electronic resource]: Textbook in 3 parts. Part 3: Diseases of the Oral Mucosa / Edited by G.M. Barer. - 2nd ed., supplemented and revised - Moscow: GEOTAR-Media, 2015.
32. Therapeutic Dentistry [Electronic resource]: Textbook in 3 parts. Part 2 Periodontal Diseases / Edited by G.M. Barer. - Moscow: GEOTAR-Media. 2015.
33. Therapeutic Dentistry [Electronic resource]: Textbook in 3 parts. Part 1: Dental Diseases / Edited by E.A. Volkov, O.O. Yanushevich. - Moscow: GEOTAR-Media, 2015.
34. Dental Diseases nekarioznogo proiskhozhdeniya [Electronic resource]: Study guide for 3rd- to 5th-year students dental faculty / 3.S. Khabadze [et al.]. - Electronic text data. - Moscow: RUDN University Publishing House, 2015. - 91 p.: ill. - ISBN 978-5-209-06712-2.
35. Dental Diseases i polosti rta [Electronic resource]: Textbook / I.M. Makeeva [et al.. - Moscow: GEOTAR-Media, 2015. - 256 p. - ISBN 978-5-9704 3410-9.
36. Zandelov Vyacheslav Lavrentevich. Arthritis, Arthrosis, Ankylosis and Temporomandibular Joint Dysfunction in Adults. Summary of the module "Temporomandibular Joint Disorders" [Text/electronic resource]: Teaching and methodological manual / V.L. Zandelov, S.Yu. Ivanov. - Electronic text data. - Moscow: RUDN University Publishing House, 2015. - 41 p. - ISBN 978-5-209-06225-7: 37.96. 56.6 - 3-27
37. Manual for Practical Classes in Dental Arch Prosthetics (complex prosthetic rehabilitation) [Text/electronic resource]: Study guide / I.Yu. Lebedenko [et al.]; Edited by I.Yu. Lebedenko. - Electronic text data. - Moscow: Practical Medicine, 2014. - 408 p. - ISBN 978-5-98811-291-4: 465.00. 56.6 -R 85
38. Periodontology [Electronic resource]: National guideline / Edited by prof. L.A. Dmitrieva. - Moscow: GEOTAR-Media, 2014. - 704 p. - ISBN 978-5-97042768-2.

39. Operative Maxillofacial Surgery and Dentistry [Electronic resource]: Study guide / Edited by V.A. Kozlov, I.I. Kagan. - Moscow: GEOTAR-Media, 2014. - 544 p. - ISBN 978-5 9704-3045-3.
40. Lopatin Andrey Vyacheslavovich. Emergency Conditions in Dental Practice [Electronic resource]: Teaching and methodological manual / A.V. Lopatin. - Electronic text data. - Moscow: RUDN University Publishing House, 2014. - 31 p.: ill. - ISBN 978-5209-06086-4.
41. Bichun A.B. Emergency Care in Dentistry [Electronic resource]: Manual for physicians / A.B. Bichun, A.V. Vasilev, V.V. Mikhaylov. - Moscow: GEOTAR-Media, 2014.
42. Bykov V.L. Histology and Embryonic Development of the Human Oral Organs [Electronic resource] / V.L. Bykov. - Moscow: GEOTAR-Media, 2014.
43. Student Consultant [Electronic resource]: Database / Publishing Group "GEOTAR-Media"; Institute for Healthcare Management Problems LLC. - Moscow: GEOTAR-Media, 2013. - Access mode://www.studmedlib.ru/.
44. Paediatric Dentistry [Text] / Edited by RR. Velber, M.S. Daggala, M.-T. Khozi; translated from English edited by L.P. Kiselnikova. - Moscow: GEOTAR-Media, 2013. - 455 p. - [ISBN 978-5-9704-2451-3: 0.00. 57.3 -D 38
45. Sapin M.R. Atlas of Human Anatomy for Dentists [Electronic resource] / M.R. Sapin, D. B. Nikityuk, L. M. Litvinenko. - Moscow: GEOTAR-Media, 2013.
46. Bilich Gabriel Lazarevich. Human Anatomy [Electronic resource]: Small-format atlas in three volumes. Vol. 3 / G.L. Bilich, V.A. Kryzhanovskiy. - Moscow: GEOTAR-Media, 2013. - 624 p. - ISBN 978-5-9704-2349-3
47. Psychiatry and Narcology [Electronic resource]: Textbook / N. N. Ivanets [et al.]. - Moscow: GEOTAR-Media, 2012. - 832 p. - ISBN 978-5-97041167-4.
48. Dermatovenereology: Textbook / V. V. Chebotarev. - Moscow: GEOTAR-Media, 2012. - 272 p. - ISBN 978-5-9704-2094-2: 0.00. 55.8 - DZb
49. Kuznetsov Sergey Lvovich. Histology of the Oral Organs: Study guide. Atlas / S. L. Kuznetsov, V.E. Torbek. - Moscow: GEOTAR-Media, 2012. - 136 p.: ill. - ISBN 978-5-9704-2253-3: 0.00. 56.6 -K89
50. Vavilova Tatyana Pavlovna. Biochemistry of Oral Tissues and Fluids: Study guide for higher education institutions / TI. Vavilova. - 2nd ed., corrected and supplemented - Moscow: GEOTAR-Media, 2008, 2012. - 208 p.: ill. - ISBN 978-5-9704-0858-2: 357.00. 28.072 - V12
51. Gritsuk S.F. Anesthesia and Intensive Care in Dentistry [Electronic resource]: Manual for physicians / S.F. Gritsuk. - Moscow: GEOTAR-Media, 2012. - 240 p. - (Specialist Physician Library). - [ISBN 978-5-9704-2224-3.
52. Topolnitskiy O.3. Atlas of Paediatric Surgical Dentistry and Maxillofacial Surgery [Electronic resource]: Study guide / O.3. Topolnitskiy, A. Yu. Vasilev. - Moscow: GEOTAR-Media, 2011. - 264 p. - ISBN 978-597041826-0.

Additional readings to prepare for state exam and/or degree thesis defence:

1. Manual of Surgical Dentistry and Maxillofacial Surgery [Text]: In 2 volumes. Vol. 2 / T.G. Robustova [et al.]; Edited by V.M. Bezrukov, T.G. Robustovoy. - 2nd ed., revised and supplemented - Moscow: Medicine, 1996, 2000. - 488 p.: ill. - ISBN 5-225-04396-8: 275.00.

2. Kagan Ilya Iosifovich., Topographic Anatomy and Operative Surgery: Textbook for higher education institutions, enrolled in specialty "Dentistry" / I.I. Kagan, S.V. Chemezov. - Moscow: GEOTAR-Media, 2009. - 672 p.: ill. - ISBN 978-5-9704-10578: 900.00.
3. Drobyshev A.Yu., Maxillofacial Surgery [Electronic resource] / edited by A.Yu. Drobysheva, O.O. Yanushevich - Moscow: GEOTAR-Media, 2018. - 880 p. - ISBN 978-5-9704-4081-0
4. Arzhantsev A.P., Radiological Examinations in Dentistry and Maxillofacial Surgery [Electronic resource] / A.P. Arzhantsev - Moscow: GEOTAR-Media, 2016. - 320 p. - ISBN 978-5-9704-3773-5
5. Kulakov A.A., Surgical Dentistry and Maxillofacial Surgery [Electronic resource]: National guideline / Edited by A.A. Kulakov, T.G. Robustova, A.I. Nerobeeva. - Moscow: GEOTAR-Media, 2015. - 928 p. (Series "National Guidelines") - ISBN 978-5-9704-3727-8
6. Kozlov V.A., Operative Maxillofacial Surgery and Dentistry [Electronic resource] / edited by V.A. Kozlov, I.I. Kagan - Moscow: GEOTAR-Media, 2014. - 544 p. - ISBN 978-5-9704-3045-3
7. Maxillofacial Surgery. Modular Structure of the Discipline: Study guide / V.L. Zandelov; V.L.Zandelov et al. - Moscow: RUDN University Publishing House, 2011. - 66 p. - 60.00. 54.5 - Ch-41
8. Surgical Dentistry and Maxillofacial Surgery [Electronic resource]: National guideline / Edited by A.A. Kulakov, T.G. Robustova, A.I. Nerobeeva. - Moscow: GEOTAR-Media, 2015. - 928 p. - (National Guidelines). - ISBN 978-5-9704-3727-8.
9. Sevbitov A.V., Specific Features of Conduction Anesthesia in Tooth Extraction Procedures in Outpatient Dentistry [Electronic resource]: study guide / edited by A.V. Sevbitova. - Moscow: GEOTAR-Media, 2017. - 168 p. - ISBN 978-59704-3812-1
11. Afanasev V.V., Surgical Dentistry [Electronic resource]: textbook / V.V. Afanasev [et al.]; edited by V.V. Afanasev. — 3rd ed., revised - Moscow: GEOTAR-Media, 2016. - 400 p. - ISBN 978-5-9704-3704-9
12. Bazikyan E.A., Tooth Extraction Procedure [Electronic resource]: study guide / E. A. Bazikyan et al. - Moscow: GEOTAR-Media, 2016. - 144 p. - ISBN 978-5-97043558-8
13. Odontogenic Abscesses and Phlegmons of the Maxillofacial Region (clinical and diagnostic guidelines) [Text/electronic resource]: Teaching and methodological manual / V.L. Zandelov. - Electronic text data. - Moscow: RUDN University Publishing House, 2012. - 75 p.: ill. - ISBN 978-5-209-04598-4: 23.38.
14. Surgical Dentistry. Inflammatory and Dystrophic Diseases of the Salivary Glands [Electronic resource] / Edited by A.M. Panina. - Moscow: Litterra, 2011. - (Dentist's Library).
15. Prosthodontics: textbook / S.D. Arutyunov, E.A. Bragin, S.I. Burlutskaya [et al.]; edited by E.S. Kalivradzhiyana, I.Yu. Lebedenko, E.A. Bragina, I.P. Ryzhovoy. - 3rd ed., revised and supplemented - Moscow: GEOTAR-Media, 2020. - 800 p.: ill. - ISBN 978-5-9704-5272-1: 2200.00.
16. Technology of Dental and Maxillary Prosthetics [Text]: manual for practical classes / V. N. Trezubov, E. A. Bulycheva, S. D. Arutyunov. - Moscow: Practical Medicine,

2020. - 167 p.: ill., color ill.; 25 cm. - References: p. 167 (10 titles). - 500 copies - ISBN 978-5-98811-582-3 (hardcover)

17. Manual for Practical Classes in Prosthodontics for 4th-year students / edited by Lebedenko I. Yu., Elicheva V. V., Markova B. P. / (authors: Arutyunov S. D. et al.) Study guide. — Moscow: Practical Medicine, 2007. (Part II. — 352 p). ISBN: 978-5-98811-045-2

18. Manual for Practical Classes in Prosthodontics for 5th-year students / edited by Lebedenko I. Yu., Elicheva V. V., Markova B. P. / (authors: Arutyunov S. D. et al.) Study guide. — Moscow: Practical Medicine 2 012. (Part III. — 512 p). ISBN: 978-5-98811-046-0

19. Dental Prosthetic Technology: textbook / S.D. Arutyunov, D.M. Bulgakova, M.G. Grishkina [et al.]; edited by M.M. Rasulova, T.I. Ibragimova, I.Yu. Lebedenko. - 2nd ed., corrected and supplemented - Moscow: GEOTAR-Media, 2016. - 384 p. - ISBN 978-5-9704-3830-5.

20. Manual for Practical Classes in Dental Arch Prosthetics (complex prosthetic rehabilitation) [Text]: Study guide / I.Yu. Lebedenko [et al.]; Edited by I.Yu. Lebedenko. - Moscow: Practical Medicine, 2014. - 408 p. - ISBN 978-5-98811291-4: 465.00

21. Mironova M.L. Removable Dentures [Electronic resource]: Study guide / M.L. Mironova. - Moscow: GEOTAR-Media, 2016. - 464 p. - ISBN 978-5-9704-3718-

6.

22. Shemonaev Viktor Ivanovich. On the Issue of Intolerance to Construction Materials in Prosthodontic Practice [Text/electronic resource] / V.I. Shemonaev, E.I. Gubanova, O.A. Kuznetsova // Bulletin of Peoples' Friendship University of Russia: Medicine. - 2011. - No. 2. - pp. 94-96.

23. Bulgakov Vsevolod Sergeevich. The Role of Follow-up Care in Prosthodontic Practice during Implant-Supported Prosthetic Treatment / V.S. Bulgakov, T.V. Lukoyanova, I.I. Shakerov // Bulletin of Peoples' Friendship University of Russia: Medicine. - 2010. - No.1. - pp. 125-129.

24. Occlusion. Articulation. Biomechanics in Prosthodontic Practice [Electronic resource]: Teaching and methodological manual / Compiled by V.S. Bulgakov, S.N. Razumova. - Moscow: RUDN University Publishing House, 2009. - 35 p. - ISBN 978-5-209-03385-1: 0.00.

25. Patient Examination in Prosthodontic Practice. Tests [Text]: Teaching and methodological manual / RUDN; Compiled by V.S. Bulgakov, Sh.Kh. Saakyan. - Moscow: RUDN University Publishing House, 2007. - 20 p.

26. Dental Materials Science [Text]: Textbook / E.S. Kalivradzhiyan. - Moscow: Meditsinskoe informatsionnoe agentstvo, 2014. - 320 p. - ISBN 978-5-9986-0147-7: 540.00.

27. Gozhaya Lidiya Dmitrievna. Allergic Diseases in Prosthodontics [Text]: Monograph / L.D. Gozhaya. - Moscow: Medicine, 1988. - 156 p.: ill. - ISBN 5-225-00192-0: 0.50.

18. Gavrilov Evgeniy Ivanovich. Dental Arch Deformation [Text] / E.I. Gavrilov. - Moscow: Medicine, 1984. - 95 p.: ill. - 0.30.

Internet information and telecommunications resources:

1. RUDN University electronic library system and third-party electronic library systems to which university students have access under concluded agreements:

- RUDN University Electronic Library System - RUDN ELS

<http://lib.rudn.ru/MegaPro/Web>

- ELS "University Library Online" <http://www.biblioclub.ru>
- Yurayt ELS <http://www.biblio-online.ru>
- ELS "Student Consultant" www.studentlibrary.ru
- ELS "Lan" <http://e.lanbook.com/>
- ELS "Troitsky Most"

2. Databases and search engines:

- electronic collection of legal, regulatory and technical documentation
<http://docs.cntd.ru/>
- Yandex search engine <https://www.yandex.ru/>
- Google search engine <https://www.google.ru/>
- SCOPUS abstract and citation database
<http://www.elsevierscience.ru/products/scopus/>

Educational and methodological materials for students' independent work in preparation for the SFA*:

Additional recommendations:

In preparing for the SFA, students should actively use the resources of the RUDN University Electronic Library System (lib.rudn.ru), the RUDN University TUIS system and the Rubricator of Clinical Recommendations of the Ministry of Health of the Russian Federation (cr.minzdrav.gov.ru).

** All educational and methodological materials for students' independent work are placed, in accordance with the current procedure, on the SFA page in TUIS.*

Preparation for the SFA in the specialty 31.05.03 Dentistry includes the following questions:

1. The contribution of national scholars to the development of various fields of dentistry. Deontology and medical ethics of the dentist.
2. Methods of examination of dental patients and instruments used.
3. Modern theories of dental caries development. Classification of dental caries and carious cavities.
4. Clinical presentation and differential diagnosis of dental caries; use of physical factors. Conservative and surgical methods of dental caries treatment. Treatment protocols. Invasive and non-invasive treatment methods. Fissures.
5. Classifications of nosological entities according to ICD-10.
6. Classification of pulpitis (Moscow Medical Dental Institute). Clinical presentation and differential diagnosis of acute forms of pulpitis. Clinical presentation and differential diagnosis of chronic forms of pulpitis. Methods of pulpitis treatment. Methods of pain control.
7. Clinical presentation and differential diagnosis of acute forms of periodontitis. Clinical presentation and differential diagnosis of chronic forms of periodontitis. Specific features of root canal obturation in the treatment of periodontitis.
8. Modern theories of periodontal disease development. Pathogenesis. Classification of periodontal diseases according to ICD-10 and MMSI. Clinical presentation, differential diagnosis and treatment of gingivitis.

9. Technique of periodontal pocket curettage. Use of physical factors in the treatment of periodontal diseases. Interdependence between periodontal diseases and organs and body systems. Prevention of periodontal diseases and follow-up care.
10. Classification of diseases of the oral mucosa. Etiology, pathogenesis, clinical presentation and treatment of traumatic lesions of the oral mucosa. Etiology, pathogenesis, clinical presentation and treatment of leukoplakia.
11. Etiology, pathogenesis, clinical presentation and treatment of herpetic stomatitis.
12. Etiology, pathogenesis, clinical presentation and treatment of rhomboid glossitis. Etiology, pathogenesis, clinical presentation and treatment of glossalgia.
13. Etiology, pathogenesis, clinical presentation and treatment of contact allergic cheilitis.
14. Etiology, pathogenesis, clinical presentation and treatment of meteorological and actinic cheilitis. Atopic cheilitis.
15. Manifestations of viral infection in the oral cavity (herpetic and coronavirus infection).
16. Etiology, pathogenesis, clinical presentation and treatment of Melkersson-Rosenthal syndrome.
17. Types of surgical dental care: outpatient and inpatient, planned, urgent and emergency care; specific features of care provision in extreme situations.
18. Clinical and morphological characteristics of local anesthetics used in dentistry. Use of vasoconstrictors in local anesthesia. Premedication.
19. Anatomy of the head and neck, innervation and blood supply.
20. Torus anesthesia. Mental anesthesia. Tuberal anesthesia. Mandibular anesthesia.
21. Infiltration anesthesia and infraorbital anesthesia.
22. Tooth extraction as a surgical intervention. Indications and contraindications for tooth extraction. Extraction technique. Types of forceps and their intended use. Tooth extraction with forceps. Specific aspects of tooth extraction with forceps. Specific features of extraction of individual groups of teeth and roots. Technique for using elevators of various types.
23. Main routes of infection spread and causes of exacerbation of chronic odontogenic infection. Immunobiological features of maxillofacial tissues.
24. Acute purulent periostitis of the jaws. Palatal abscess.
25. Odontogenic osteomyelitis of the jaws: acute stage of osteomyelitis of the jaws. Subacute and chronic stages of osteomyelitis of the jaws. Clinical and radiological findings in various forms.
26. Acute and chronic lymphadenitis. Abscessing lymphadenitis. Adenophlegmon. Clinical presentation, diagnosis, differential diagnosis and treatment.
27. Abscess and phlegmon of the fascial spaces adjacent to the body of the mandible: submandibular and submental triangles, sublingual region and mylohyoid groove.
28. Phlegmon of the floor of the mouth and neck. Diffuse and progressive phlegmons. Putrid-necrotic phlegmon of the face and neck.
29. Inflammatory diseases of the salivary glands. Mikulicz disease (glandular lymphomatosis). Sjogren syndrome. Xerostomia as a symptom of salivary gland dysfunction.
30. Injuries of the maxillofacial region. Classification of injuries. General characteristics of facial trauma. Mandibular fracture. Principles of jaw fracture treatment:

reduction and immobilization of fragments, pharmacological treatment and physiotherapy, prevention of complications.

31. Fractures of the zygomatic bone and arch, zygomaticomaxillary fractures. Diagnosis and specific features of treatment. Indications for reduction of fragments of the zygomatic arch and bone. Methods of fragment reduction.

32. Tumours of the face, jaws and oral organs. Benign tumours and tumour-like conditions.

33. Local tissue plasty using tissues adjacent to the defect, pedicled flaps taken from nearby tissues.

34. Dental and maxillofacial implantology. Indications and contraindications. Types of implants. Stages of treatment.

35. Determination of centric jaw relation in complete edentulism. Materials for taking impressions (anatomical and functional), their properties and indications for use.

36. Preparation of the oral cavity for prosthetic treatment. Types of prosthetic designs used in prosthodontic practice.

37. Aesthetic issues in prosthodontics. Specific features of tooth hard tissue preparation for acrylic and porcelain crowns.

38. Indications and contraindications for prosthodontic treatment of bounded edentulous spaces with fixed and removable dental prostheses.

39. Temporary splinting in periodontitis and its role in comprehensive therapy. Requirements for splints. Indications for including teeth in a splint.

40. Construction of artificial dental arches of complete removable plate dentures in orthognathic occlusion.

41. Specific features of tooth hard tissue preparation for acrylic and porcelain crowns. Specific features of tooth hard tissue preparation for artificial metal crowns (stamped and cast crowns).

42. Main components of a clasp-retained removable partial denture. Clinical stages of treatment with clasp dentures.

43. Assessment of the mucosa of the denture-bearing area in edentulous jaws. Indications for pressure-relieving and compressive impressions. Methodology for obtaining a functional impression. Herbst functional tests.

44. Development of the oral cavity and teeth. Formation and maturation of primary teeth. Periods of primary occlusion formation.

45. Root formation after tooth eruption. Composition of the oral fluid microbiota. Enzyme and immune composition of saliva. Anatomical and histological features of the maxilla in childhood.

46. Anesthesia for surgical interventions in children in an outpatient setting. Sedative preparation of the child. Indications for choosing a method of anesthesia. Specific features of local anesthesia techniques in children of different ages.

47. Tooth extraction. Indications for extraction of primary and permanent teeth in childhood. Specific features of the technique of primary tooth extraction.

48. Prevalence and intensity of major dental diseases in children. Cariogenic situation. Fedorov-Volodkina oral hygiene index. Green-Vermillion index. Determination of the PMA index. Determination of the CPI and CPITN indices. Kulazhenko capillary resistance test. Gingival papillary bleeding index (Muhlemann and Son, 1971). Methods for determining enamel acid resistance. TER test and COSRE test.

49. The role of dental plaque and carbohydrates in the development of caries. Fluoride deficiency and dental caries. Mechanism of fluoride action. Methods of primary

prevention of major dental diseases in children. Use of local preventive agents (fluoride-containing preparations, remineralizing solutions, sealants). Endogenous caries prevention.

50. Non-carious lesions of dental hard tissues during follicular development. Endemic fluorosis.

51. Initial caries. Moderate caries in primary and permanent teeth. Specific features. Selection of restorative materials. Deep caries of primary and permanent teeth in children. Specific features. Selection of restorative materials.

52. Pulpitis in children. Classification. Specific clinical features in childhood. Acute pulpitis in childhood.

53. Traumatic injuries of the maxillofacial region in children. Principles of primary surgical wound management in children. Anesthesia. Methods and techniques of anesthesia. Indications for general anesthesia.

54. Fractures of the alveolar processes of the jaws in children. Diagnosis. Radiographic findings. Methods of reduction and immobilization of fragments. Technique. Duration of immobilization. Prognosis.

55. Mandibular fractures in children. Diagnosis. Radiographic findings. Methods of reduction and immobilization of fragments. Technique. Duration of immobilization. Prognosis. Indications for osteosynthesis.

56. Congenital clefts of the upper lip. Congenital clefts of the upper lip. Classification. Clinical presentation and diagnosis.

57. Congenital clefts of the palate. Clinical presentation. Diagnosis. Surgical techniques. Radical uranoplasty.

58. Specific features of the structure of the oral mucosa in children. Classification of oral mucosal lesions in children (Moscow State University of Medicine and Dentistry). Traumatic oral mucosal lesions.

59. Oral mucosal lesions in infectious diseases: measles and diphtheria.

60. Acute herpetic stomatitis. Diagnosis. Clinical presentation. Principles of treatment. Recurrent herpetic stomatitis. Herpangina.

61. Harmful habits in children. Methods of elimination. Disorders of dental hard tissue integrity in children and their effect on the development of dentofacial anomalies. Follow-up care for children with dentofacial anomalies.

62. Methods of physical examination in prosthodontic practice.

63. Modern clinical methods for assessing the condition of the temporomandibular joint and maxillofacial muscles.

64. Instrumental methods for assessing the condition of the temporomandibular joint.

65. Methods for studying mandibular movements.

66. BIOPAK system: purpose and functional capabilities.

67. Modern methods for determining tooth shade.

68. Radiological diagnostics in prosthodontics.

69. Axiography: principle and diagnostic significance.

70. Modern computer-based diagnostic methods in prosthodontics.

71. The dental outpatient record and its significance.

72. Structure of the diagnosis in prosthodontic practice.

73. ICD-10-CM: main diseases of dental hard tissues treated in prosthodontic practice.

74. Treatment of tooth defects with inlays. Types of inlays.
75. Treatment of tooth defects with inlays. Modern dental prosthetic technologies.
76. Treatment of tooth defects with inlays. Types of inlays and materials used.
77. Artificial crowns: types according to function, material and manufacturing technology.
78. Tooth preparation for artificial crowns. Methods of anesthesia.
79. Tooth preparation for artificial crowns. Types of burs and sequence of use.
80. Tooth preparation for artificial CEREC crowns.
81. Veneers: specific features of tooth preparation for ceramic veneers.
82. Provisional crowns. Materials and manufacturing techniques. Specific features of fixation.
83. Post-and-core dental prosthetic constructions. Indications for use. Types, materials, and clinical and laboratory stages.
84. Methods of fixing artificial crowns on natural teeth and implants.
85. Indications for the use of fixed dental prostheses in pathology of dental hard tissues. Index of occlusal surface destruction.
86. All-ceramic prostheses. Types, materials, laboratory and clinical stages. Advantages and disadvantages.
87. Impressions for the fabrication of fixed dental prostheses. Selection of materials and techniques.
88. Silicone impressions: types and specific features of use.
89. Permanent fixation of dental crowns: types of materials.
90. Selection of the number of abutment teeth for a bridge prosthesis.
91. Designs of bridge prostheses, materials and modern technologies.
92. Rules for fitting an artificial crown.
93. Means of protecting prepared dentin.
94. Personal protective equipment for the dentist during tooth preparation.
95. Main documents in prosthodontic practice during patient admission and provision of prosthodontic dental care.
96. Indications for tooth extraction. Indications for preserving tooth roots.
97. Dental handpieces in prosthodontic practice and their maintenance. Technologies and instruments for removing artificial crowns and bridge prostheses.
98. Indications for tooth devitalization in prosthodontic practice.
99. Clinical and laboratory stages of fabricating combined dental prostheses with attachment retention. Indications for the use of various types of attachments for removable dental prostheses.
100. Methodology for obtaining a functional impression in cases of extensive tooth loss. Specific features of taking impressions for implant-supported prostheses supported by several adjacent implants. Methods of taking impressions for implant-supported prostheses. Types of clasp-free attachments for removable dental prostheses. Indications for use. Advantages and disadvantages. Type and function of clasps in clasp-retained removable partial dentures.

101. Rehabilitation and preventive stage of prosthodontic treatment with removable dental prostheses. Rules for caring for removable dental prostheses. Modern methods of barrier protection for the prosthodontist and methods of additional visualization of the tooth preparation area. Modern methods of communication between the prosthodontist and dental technician.
102. Methods of fixing dental prostheses on implants.
103. Modern methods of disinfection and sterilization in prosthodontics.
104. Methods for diagnosing the stability of dental implants and their suitability for the initiation of prosthetic treatment.
105. Rules for caring for implant-supported prostheses.
106. Modern methods for determining centric jaw relation.
107. Modern concepts of the etiology and pathogenesis of periodontitis and of the prosthodontic stage of comprehensive treatment. Modern diagnostic methods in patients with periodontitis in prosthodontic practice. Modern methods of tooth splinting in periodontitis.
108. Modern methods for eliminating traumatic occlusion in prosthodontic practice.
109. Diagnostic algorithm for examination of patients with periodontal pathology in prosthodontic practice.
110. Modern diagnostic algorithm in patients with reduced lower facial height. Specific features of prosthodontic dental treatment of HIV-infected patients.
111. Use of the wax-up technique at the stages of comprehensive dental rehabilitation. Use of a facebow and an articulator adjusted to the patient's individual function at the stages of comprehensive dental rehabilitation. Temporary implant-supported prosthetics. Specific features. Indications. Phonetic aspects of prosthodontic dental treatment.
112. Sequence of stages and timing of dental prosthetic treatment after multiple tooth extraction.
113. Possible errors in obtaining alginate impressions and methods for preventing and correcting their consequences.
114. Possible errors in screw-retained implant prostheses and methods for preventing and correcting their consequences.
115. Possible errors in cement-retained implant prostheses and methods for preventing and correcting their consequences.
116. Possible diagnostic, tactical and technical clinical errors in the prosthodontic treatment of patients with dental arch deformities and partial edentulism, and methods for preventing and correcting their consequences.
117. Possible diagnostic, tactical and technical clinical errors in the prosthodontic treatment of patients with dental arch deformities and periodontitis.
118. Possible errors in completing the outpatient record in the clinic of prosthodontics. Methods for preventing and correcting them.
119. Possible errors in selecting the shade of artificial teeth and methods for their prevention and correction.
120. Possible complications during prosthodontic treatment with removable dental prostheses and methods for preventing and eliminating their consequences.

121. Possible complications during prosthodontic treatment with removable dental prostheses supported by endosseous implants and methods for preventing and eliminating their consequences.

122. Possible complications during prosthodontic treatment with removable dental prostheses with attachment retention and methods for preventing and eliminating their consequences.

123. Possible complications during prosthodontic treatment with acrylic removable dental prostheses and methods for preventing and eliminating their consequences.

124. Domestic noble metal alloys for dental prostheses. Indications for use.

125. Possible clinical errors in fabricating clasp-retained removable partial dentures and methods for preventing and correcting their consequences.

126. Possible complications and errors in the use of plate dentures with an elastic lining and methods for preventing and eliminating their consequences.

127. Deontology in prosthodontic practice. Psychological preparation of patients for prosthodontic treatment. Organization of the dentist's work in the prosthodontic department. Record and reporting documentation of the prosthodontist.

128. Provide a comparative description of methods for taking impressions for implant-supported prostheses.

129. Describe the technique of applying a facebow and mounting models in the articulator space using the facebow.

130. Describe the clinical stages of prosthetic rehabilitation with a mandibular overdenture supported by a bar fixed on the roots of individually preserved canines.

131. Describe the technique of Periotest measurement.

132. Describe the methods for assessing implant osseointegration in order to determine whether prosthetic treatment can be initiated.

133. Describe the technique of clinical relining of a removable denture using a silicone material for a soft liner.

134. Provide a comparative description of removable denture relining techniques.

135. Describe methods of impression disinfection.

136. Describe the technique of fitting the framework of a clasp-retained removable partial denture in the oral cavity.

137. Methodology of prosthodontic treatment of periodontitis by selective functional grinding of teeth. Classification of tooth mobility in periodontal disease. Specific features of bone tissue resorption at different degrees of tooth mobility.

138. Methodology for fabricating an individual tray in prosthodontic practice. Periodontal reserve capacity: concept, criteria and methods of determination. Odontoperiodontogram (V.Yu. Kurlyandsky).

139. The process of adaptation to removable dental prostheses; concept of treatment completion.

140. Definitions of the concepts of physiological rest position, centric occlusion and centric jaw relation.

141. Indications and contraindications for prosthodontic dental treatment using implants.
142. Types of dental implants and specific features of their use.
143. Use of CAD/CAM technologies in implant prosthetics.
144. Sequence of clinical stages in prosthetic rehabilitation with a single implant-supported crown.
145. Algorithm of clinical decision-making in prosthetic rehabilitation of a patient with Kennedy Class I or II edentulous space using dental implantation in the maxilla.
146. Algorithm of clinical decision-making in prosthetic rehabilitation of a patient with Kennedy Class I or II edentulous space using dental implantation in the mandible.
147. Types of additional retention for removable dental prostheses on endosseous implants in complete mandibular edentulism.
148. Types of additional retention for removable dental prostheses on implants in complete maxillary edentulism.
149. Relative contraindications to implant-supported prosthetic treatment and their rationale.
150. Methods and timing of examination for assessing the effectiveness of endosseous dental implant function.
151. Absolute contraindications to implant-supported prosthetic treatment and their rationale.
152. Complications that may occur during prosthodontic treatment with endosseous implants in patients with partial edentulism.
153. Professional care of implant-supported prostheses.
154. Specific features of impression taking for prostheses supported by several adjacent implants.
155. Possible errors and complications in determining lower facial height by the anatomical and physiological method.
156. Technique of relining removable acrylic dentures in prosthodontic practice.
157. Describe methods of dental surveyor analysis.
158. Stages of occlusion development in children.
159. Period of intrauterine development of the child's dentofacial system.
160. Period of primary occlusion formation (from 6-8 months to 3 years).
161. Period of preparation for replacement of primary teeth with permanent teeth (from 4 to 6 years).
162. Period of replacement of primary teeth with permanent teeth (from 6 to 12-13 years).
163. Angle classification and its disadvantages.
164. Katz classification.
165. Classification of dental arch occlusion anomalies (A.S. Persin).
166. Etiology of dentofacial anomalies.
167. Influence of early and improper artificial feeding on the development of dentofacial anomalies. Regimen for using a feeding nipple and pacifier.

168. Influence of mouth breathing on the development of dentofacial anomalies. Prevention and treatment measures.
169. Consequences of early loss of primary teeth.
170. Removable mechanical appliances.
171. Methods of treating dentofacial anomalies.
172. Classification of therapeutic orthodontic appliances according to the principle of action. Their characteristics.
173. Fixed mechanical appliances.
174. Angle arch: components, indications for use and disadvantages.
175. Classification of bracket systems.
176. Functional appliances and their characteristics.
177. Functional guiding appliances and their characteristics.
178. Katz crown and Katz plate: design, principle of action and indications for use.
179. Frankel function regulator type I: design, principle of action and indications for use.
180. Frankel function regulator type II: design, principle of action and indications for use.
181. Frankel function regulator type III: design, principle of action and indications for use.
182. Clinical and laboratory stages of fabricating a Frankel function regulator.
183. Combined-action appliances and their characteristics.
184. Basharova appliances for the treatment of distal occlusion: design, principle of action and indications for use.
185. Basharova appliances for the treatment of mesial occlusion: design, principle of action and indications for use.
186. Types of anomalies in the position of individual teeth.
187. Etiology and pathogenesis of anomalies in the position of individual teeth.
188. Etiology, clinical presentation and treatment of vestibular tooth position.
189. Etiology, clinical presentation and treatment of palatal tooth position.
190. Etiology, clinical presentation and treatment of tooth tortoanomaly.
191. Etiology, clinical presentation and treatment of diastema.
192. Types of dental arch anomalies.
193. Clinical and anthropometric diagnosis of dental arch anomalies.
194. Types of dental arch shape deformities.
195. Specific features of clinical examination of an orthodontic patient.
196. Biometric methods of examination: measurements in the transverse plane. Biometric methods of examination: measurements in the sagittal plane.
197. Radiological methods of examination in orthodontics. Orthopantomography of the jaws. Indications for use. Teleradiography. Angular assessment. Functional methods of examination in orthodontics.
198. Etiology and clinical presentation of distal occlusion.
199. Diagnosis of distal occlusion. Forms of distal occlusion. Eschler-Bittner test. Treatment of distal occlusion during the period of primary occlusion and the early mixed dentition period. Treatment of distal occlusion in the late mixed and permanent dentition.
200. Etiology and clinical presentation of mesial occlusion. Forms of mesial occlusion and their characteristics. Degrees of severity of mesial occlusion. Treatment of mesial occlusion during the primary and mixed dentition periods. Treatment of mesial occlusion during the mixed and permanent dentition periods.

201. Vertical incisal disocclusion. Etiology and clinical presentation. Clinical presentation and morphological variants of vertical incisal disocclusion. Treatment of vertical incisal disocclusion during primary and mixed dentition. Treatment of vertical incisal disocclusion in permanent dentition. Etiology and clinical presentation of deep incisal occlusion and deep incisal disocclusion. Diagnosis of deep incisal occlusion and deep incisal disocclusion and their clinical forms. Treatment of deep incisal occlusion and deep incisal disocclusion.

202. Classification of harmful habits. Myogymnastics. Indications for use. Exercises for muscles protruding the mandible.

203. Myogymnastics. Exercises for tongue muscles after frenuloplasty.

204. Types of crossbite and their characteristics. Etiology and clinical presentation of crossbite. Mesial occlusion. Clinical presentation, diagnosis and treatment. Retention appliances.

205. Requirements for removable prostheses used in paediatric practice.

206. Functional guiding and functional active orthodontic appliances. Special methods of examination in orthodontics.

207. Bracket system: components and principle of operation.

208. Consequences of early loss of primary molars.

209. Pont method. Korkhaus method.

210. Fixed prostheses used in paediatric practice. Indications for use. Modern fixed orthodontic appliances. Requirements for paediatric dental prostheses. Types of therapeutic orthodontic appliances.

211. Anomalies of individual teeth. Clinical presentation, diagnosis and treatment. Appliances for treating crossbite. Vestibular plates. Indications for use. Removable orthodontic appliances of combined action.

212. Palatal occlusion. Clinical presentation. Diagnosis. Treatment. Lingual occlusion. Clinical presentation. Diagnosis. Treatment. Appliances for treating distal occlusion. Appliances for treating mesial occlusion.

213. The role of harmful habits in the formation of dentofacial anomalies. Specific features of using the Frankel function regulator in crossbite (palatal occlusion, lingual occlusion).

214. Anatomical, physiological, histological and biochemical aspects of dental tissues.

215. Pathomorphological features of dental hard tissues and oral mucosa in various nosological entities.

9. ASSESSMENT MATERIALS AND POINT-RATING SYSTEM FOR EVALUATING THE LEVEL OF COMPETENCE FORMATION AND THE RESULTS OF COMPLETING THE HIGHER EDUCATION PROGRAMME "DENTISTRY":

Assessment tools intended to determine, during attestation procedures, whether the level of training of graduates who have completed the Federal State Educational Standard of Higher Education in the specialty 31.05.03 Dentistry corresponds or does not correspond to the required level.

The list of competencies to be acquired by the student as a result of completing the educational programme "Dentistry" is presented in Section 3.5.

Scale for assessing an oral answer at the IDE:

Grade "5" (excellent) is awarded if:

- the content of the examination ticket is fully disclosed;
- the material is presented competently and in a clear logical sequence;
- systematic and in-depth knowledge of the programme material is demonstrated;
- terminology is used accurately;
- the ability to illustrate theoretical provisions with specific examples and apply them in a new situation is demonstrated;
 - mastery of previously studied related issues and the formation and stability of competencies, abilities and skills are demonstrated;
 - the answer is given independently, without leading questions;
 - the ability to creatively apply theoretical knowledge to the solution of professional tasks is demonstrated;
 - knowledge of modern educational and scientific literature is demonstrated;
 - one
 - or two inaccuracies are made in covering secondary issues, which are corrected following a remark.

Grade "4" (good) is awarded if:

- the questions of the examination material are presented in a systematic and consistent manner;
 - the ability to analyze the material is demonstrated, although not all conclusions are sufficiently reasoned and evidence-based;
 - mastery of the core literature is demonstrated.
 - the answer generally meets the requirements for grade "5", but has one of the following shortcomings: minor gaps in presentation that do not distort the content of the answer; one or two shortcomings in covering the main content of the answer, corrected following the examiner's remark; an error or more than two shortcomings in covering secondary issues, which are easily corrected following the examiner's remark.

Grade "3" (satisfactory) is awarded if:

- the content of the material is disclosed incompletely or inconsistently, but a general understanding of the question is shown and abilities sufficient for further mastery of the material are demonstrated;
 - the main categories related to the question under consideration and additional questions have been mastered;
 - difficulties or errors occurred in defining concepts or using terminology, but were corrected after several leading questions;
 - in the presence of incomplete knowledge of the theoretical material, insufficient formation of competencies, abilities and skills is revealed, and the student is unable to apply theory in a new situation;
 - mastery of the core literature is demonstrated.

Grade "2" (unsatisfactory) is awarded if:

- the main content of the educational material is not disclosed;
- lack of knowledge or lack of understanding of most or the most important part of the educational material is revealed;

- errors are made in defining concepts or using terminology and are not corrected after several leading questions;
- competencies, abilities and skills have not been formed.

Correspondence between grade and number of points:

F (fail, without the right to retake): 30 points or fewer

FX (fail, with the right to retake): 31-50 points

E (satisfactory "minus"): 51-60 points

D (satisfactory): 61-68 points

C (good): 69-85 points

B (excellent): 86-94 points

A (excellent "plus"): 95-100 points

Assessment materials and point-rating system* for evaluating the level of competence formation upon completion of the higher education programme "Dentistry":

** Assessment materials and the point-rating system are developed on the basis of the requirements of the relevant local regulatory act of RUDN University (regulation/procedure).*

DEVELOPERS:

HEAD OF EDUCATIONAL DEPARTMENT:

Head of the Department of Maxillofacial Surgery and Dental Surgery		S.Yu. Ivanov
Name of the basic academic unit	Signature	Surname, initials
Head of the Department of Prosthodontics		I.Yu. Lebedenko
Name of the basic academic unit	Signature	Surname, initials
Head of the Department of General and Clinical Dentistry		A.M. Avanesov
Name of the basic academic unit	Signature	Surname, initials
Head of the Department of Paediatric Dentistry and Orthodontics		N.S. Tuturov
Name of the basic academic unit	Signature	Surname, initials
Head of the Department of Operative Dentistry		Z.S. Khabadze

Name of the basic academic
unit

Signature

Surname, initials

**HEAD
OF HIGHER EDUCATION PROGRAMME:**

Deputy Director of the
Medical Institute, Head of the
Department of Propedeutics of
Dental Diseases

Position, basic academic unit

Signature

S.N. Razumova

Surname, initials