

FEDERAL STATE BUDGET EDUCATIONAL INSTITUTION
OF HIGHER EDUCATION
"ROSTOV STATE MEDICAL UNIVERSITY"
MINISTRY OF HEALTH OF THE RUSSIAN FEDERATION

Faculty of Education of foreign students, residents and postgraduates

Supervisor
educational program

(signature)

CONFIRM

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(FULL NAME)

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20_23

THE PROGRAM OF EDUCATIONAL PRACTICE

RESEARCH WORK

Speciality 31.05.01 General medicine

Form of education full-time

Rostov-on-Don
2023

1.Objectives of research work:

consolidation and deepening of theoretical knowledge acquired during the study of the academic discipline of the main educational program (propaedeutics of internal diseases) and the development of students' skills in independent scientific work related to solving professional and scientific-practical problems.

The objectives of scientific research are work (research work) students development of scientific thinking And inclinations To research and creative activities; involving students within the educational process in the scientific study of medical problems; developing the skills of independent scientific research and a creative approach to solving assigned problems; formation of the scientific and professional culture of future specialists.

2.Place of research in the structure of the EP

Research Internal Medicine Job students By propaedeutics is compulsory section basic educational program 05/31/01 General Medicine and is included in the cycle "Practices, including research." To successfully complete research work on propaedeutics of internal diseases, the student must master the discipline program provided for by the curriculum.

3.Indication of the method and form of research work

Scientific information search in sources with a high evidence base index and presentation of information in abstract form as part of research activities, at meetings of the student scientific circle, participation in scientific student conferences, as well as preparation of theses and scientific articles on the topic of scientific research; gaining skills in preparing scientific papers.

4. Student competencies formed as a result of mastering research work

As a result of completing research work, the student must:

OPK-11 Capable prepare Andapply scientific, scientific production, design, organizational and managerial And regulatory documentation in the healthcare system.

5. Structure and content of research work

The labor intensity of research is

1 z 36 hours, 2 course and 1 z 36 hours, 3 course

Approximate topics of students' research works Topics include search tasks from the following sections:

Various aspects of research work

- 1.Epidemiology of diseases of internal organs
- 2.Human microbiome
- 3.Ethical considerations when performing scientific research
- 4.Evolution of clinical methods for examining patients
- 5.Bioethics
- 6.Development of the domestic therapeutic school
- 7.Social factors in the development of medical science
- 8.8. Methodology for constructing a diagnosis

Rare diseases of the heart and blood vessels

- 9.Brugada syndrome
- 10.Budd-Chiari syndrome
- eleven.dilated cardiomyopathy
- 12.Ebstein's anomaly
- 13.transposition of the great arteries
- 14.abdominal aortic aneurysm
- 15.arrhythmogenic right ventricular cardiomyopathy
- 16.Takotsubo cardiomyopathy
- 17.Kawasaki disease
- 18.pulmonary arterial hypertension
- 19.right ventricular hypoplasia
- 20.theory and practice of auscultation of the heart and lungs

Rare diseases of the lungs and respiratory system

- 21.silicosis
- 22.asbestosis
- 23.allergic bronchopulmonary aspergillosis
- 24.bronchiolitis obliterans
- 25.chronic granulomatous disease
- 26.cystic fibrosis
- 27.Goodpasture's syndrome
- 28.hemorrhagic vasculitis (Henoch-Schönlein purpura)
- 29.idiopathic acute eosinophilic pneumonia_____

thirty. idiopathic pulmonary fibrosis (idiopathic fibrosing alveolitis)

31. juvenile polymyositis
32. microscopic polyangiitis
33. multifocal fibrosclerosis
34. yellow nail syndrome.

Rare endocrine and metabolic diseases and syndromes

35. Addison's disease (hypocortisolism, chronic adrenal insufficiency)
36. hyperadrenalism
37. hyperparathyroidism
38. pheochromocytoma
39. gestational diabetes insipidus
40. porphyria
41. amyloidosis hereditary
42. Parkinson's disease 9 types
43. Wilson-Konovalov disease (hepatolenticular degeneration, Westphal-Wilson disease)
44. acromegaly
45. ACTH-secreting pituitary adenoma
46. ACTH-independent macronodular adrenal hyperplasia
47. autoimmune polyglandular syndrome types 1, 2, 3
48. Carpenter's syndrome
49. Cushing's syndrome
50. gigantism
51. granulomatous hypophysitis
52. growth hormone deficiency
53. hereditary paraganglioma-pheochromocytoma
54. hypoparathyroidism
55. hypopituitarism
56. Kallmann syndrome
57. prolactinoma
58. pseudohypoparathyroidism
59. isolated TSH deficiency
60. peripheral resistance to thyroid hormones
61. papillary thyroid carcinoma
62. multiple endocrine neoplasia (types 1, 2, 2A, 2B)
63. MODY (diabetes mature type in young people)
64. Hippel-Lindau disease (cerebroretinal angiomatosis, VHL)
65. Waterhouse-Friderichsen syndrome
66. amyloidosis (AL, ATTR, AA)
67. familial periodic fevers (periodic illness, cryopyrinopathy, Muckle-Wells syndrome, hyperimmunoglobulinemia D, TRAPS syndrome)

68. oligosecretory plasma cell dyscrasias (TEMPI, POEMS, Schnitzler syndrome)

Rare connective tissue and musculoskeletal diseases apparatus

69. amyopathic dermatomyositis

70. eosinophilic fasciitis

71. Marfan syndrome

72. Ehlers-Danlos syndrome

73. mixed connective tissue disease (Sharpe's syndrome)

74. polymyositis

75. seronegative juvenile idiopathic arthritis

76. diaphyseal sclerosis (Ribbing's disease)

77. eosinophilic granulomatosis with polyangiitis (ANCA-associated vasculitis)

78. systemic scleroderma (diffuse cutaneous systemic sclerosis)

79. Sjögren's syndrome

80. Still's disease in adults

81. Behçet's disease

82. Felty's syndrome

83. juvenile osteoporosis

84. juvenile dermatomyositis

85. Sappho syndrome

86. tarsal tunnel syndrome

87. Tietze syndrome (costochondral syndrome, costochondritis)

Rare diseases of the kidneys and urinary system

88. primary renal amyloidosis

89. myeloma nephropathy

90. radiation damage to the kidneys

91. paraneoplastic kidney damage

Rare diseases of the digestive system

92. autoimmune hepatitis

93. achalasia cardia

94. eosinophilic gastroenteritis (eosinophilic esophagitis)

95. Ménétrier's disease

96. diverticula of the esophagus and stomach

97. sideropenic dysphagia

98. Schmieden's syndrome

99. Whipple's disease

100. cystic fibrosis of the pancreas (cystic fibrosis)

101. intestinal carcinoid

102. Gardner's syndrome

103. Hilayditi syndrome

104. pancreatic stones

105. main clinical syndromes in pathology of the digestive and urinary organs: pathophysiological and clinical aspects

106. **Rare blood diseases**

107. autoimmune hemolytic anemia

108. Fisher-Evans syndrome/Evans syndrome (FES)

109. sickle cell anemia

110. Casteleman's disease

111. **The most rare diseases**

112. argyrosis ("blue skin syndrome")

113. fatal familial insomnia

114. progeria (Hutchinson's disease)

115. analgia (congenital insensitivity to pain)

116. Fields disease

117. **Aspects of digitalization in healthcare.**

118. Innovative diagnostic technologies in the clinic of internal diseases

119. Possibilities of telemedicine in modern realities.

120. Using artificial intelligence to evaluate the results of diagnostic studies

121. Artificial intelligence research to evaluate the effectiveness of therapy.

122. Internet of things in monitoring various diseases

123. Ethical aspects of the use of artificial intelligence in healthcare

124. A vision of a digital hospital.

Reporting form: credit based on the results of the abstract submission. Basic requirements for writing an essay and criteria for its evaluation.

An abstract is a brief record of ideas contained in one or more sources, which requires the ability to compare and analyze different points of view. An abstract is one of the forms of interpretation of the source text or several sources. Therefore, the abstract, unlike the synopsis, is a new, original text. Novelty in this case implies a new presentation, systematization of the material, a special author's position when comparing different points of view.

Abstracting involves presenting a question based on classification, generalization, analysis and synthesis of one or more sources.

Abstract specifics:

- does not contain detailed evidence, comparisons, reasoning, ratings,

- gives an answer to the question of what is new and significant contained in the text.

Abstract structure:

- 1) title page;
- 2) work plan indicating the pages of each question, sub-question (item);
- 3) introduction;
- 4) textual presentation of the material, divided into questions and sub-questions (clauses, subclauses) with the necessary links to sources used by the author;
- 5) conclusion;
- 6) list of used literature;
- 7) applications that consist of tables, charts, graphs, drawings, diagrams (optional part of the abstract).

Applications are arranged sequentially, according to headings that reflect their content.

Requirements for the preparation of an abstract.

The volume of the abstract ranges from 10-15 printed pages. The work is done on one side of a standard size sheet. On both sides of the sheet, margins of 35 mm on the left and 15 mm on the right are left, font 14 is recommended, spacing is 1.5. All sheets of the abstract must be numbered. Each question in the text must have a title in exact accordance with the name in the table of contents.

The abstract is assessed by the scientific supervisor according to the indicators based on from and criteria for assessing the abstract established by the department.

Criteria and indicators used when assessing an educational essay

Criteria	Indicators
1. Novelty abstracted text Max. - 20 points	<ul style="list-style-type: none"> - relevance of the problem and topic; - novelty and independence in the formulation of the problem, in the formulation of a new aspect of the problem chosen for analysis; - presence of the author's position, independence of judgment.
2. Degree of opening essence of the problem Max. - 30 points	<ul style="list-style-type: none"> - compliance of the plan with the topic of the abstract; - compliance of the content with the topic and plan of the abstract; - completeness and depth of disclosure of the basic concepts of the problem; - validity of methods and methods of working with the material; - ability to work with literature, systematize and structure material; - ability to generalize, compare different points of view on the issue under consideration, justify the main provisions and conclusions.
3. Validity	<ul style="list-style-type: none"> - circle, completeness of use of literary

selection of sources Max. - 20 points	sources on the issue; - attraction of the latest works on the problem (journal publications, materials from collections of scientific papers, etc.).
4. Compliance requirements for design Max. - 15 points	- correct formatting of references to the literature used; - literacy and culture of presentation; - mastery of terminology and conceptual apparatus of the problem; - compliance with the requirements for the volume of the abstract; - design culture: highlighting paragraphs.
5. Literacy Max. - 15 points	- absence of spelling and syntactic errors, stylistic errors; - absence of typos, abbreviations of words, except generally accepted ones; - literary style.

Essay evaluation

The abstract is graded on a 100-point scale, the points are converted into grades of academic performance as follows:

- up to 50 points – “not accepted”;
- from 51 points – “passed”.

6. Methodological recommendations for carrying out research work for students

The organization of research work is built taking into account the following factors:

- have a personality-oriented character
- be complex in nature
- be creative

In the process of research work it is envisaged:

- planning stages of work carried out and monitoring results with use of the resource www.trello.com
- studying types of scientific research (randomized, observational, etc.) and scientific publications (systematic review, original article, review article)
- conducting knowledge assessment using interactive exercises using the service www.puzzlecup.net
- study of literary sources (scientific monographs, articles, reports, methodological literature, reports on the implementation of research work, etc.) on propaedeutics of internal diseases, internal diseases

- education using electronic databases/resources for searching
(<https://www.rsl.ru>, www.elibrary.ru, www.cyberleninka.ru, www.sciencedirect.com,
<https://pubmed.ncbi.nlm.nih.gov> , <https://clinicaltrials.gov> , <https://scholar.google.com> , <https://www.cochrane.org>)
- visualization using resource www.boirender.com/
www.piktochart.com, systematization and structuring of the information received
- participation in scientific student conferences, preparation of abstracts speeches and reports
- preparation of a scientific speech on the topic of scientific research in within the circle of the department of propaedeutics of internal diseases,
- gaining skills in designing scientific papers using digital visualization technologies (www.visme.ru/ <https://sboard.online/>).

7. Educational, methodological and information support for research work

a) basic literature:

1. Mukhin N.A. Propaedeutics of internal diseases [Electronic resource] / N. A. Mukhin, V. S. Moiseev - M.: GEOTAR-Media, 2014.

b) additional literature:

1. Greenhalgh T.; Fundamentals of evidence-based medicine. Per. from English; Ed. I.N. Denisova, K.I. Saitkulova, V.P. Leonova - M.: GEOTAR - Media, ed. 4th revised, expanded, 2015.

c) Internet resources:

	ELECTRONIC EDUCATIONAL RESOURCES	Access to the resource
	Electronic library RostSMU. – URL: http://109.195.230.156:9080/opacq/	Access is not limited
	Student Advisor [Kits: "Medicine. Healthcare. IN"; "Medicine. Healthcare. SPO"; "Psychological Sciences"]: Electronic library system. – Moscow: Politekhresurs LLC. – URL: https://www.studentlibrary.ru + opportunities for inclusive education	Access is not limited
	Doctor's consultant. Electronic medical library: Electronic library system. – Moscow: LLC "Higher School of Organization and Management of Healthcare. Comprehensive medical consulting." - URL: http://www.rosmedlib.ru +	Access is not limited

	opportunities for inclusive education	
	Scientific electronic library eLIBRARY. - URL: http://elibrary.ru	Open access
	National Electronic Library. - URL: http://neb.rf/	Access computers libraries With
	Russian education. Single window of access: federal portal.-URL: http://www.edu.ru/ . - New educational environment.	Open access
	Federal Center for Electronic Educational Resources. - URL: http://srtv.fcior.edu.ru/	Open access
	Electronic Library of the Russian Foundation for Basic Research(RFBR). -URL: http://www.rfbr.ru/rffi/ru/library	Open access
	Federal Electronic Medical Library of the Russian Ministry of Health. - URL: https://femb.ru/femb/	Open access
	Cochrane Library: official website ; chapter "Open Access". - URL: https://cochranelibrary.com/about/open-access	Content open access
	Cochrane Russia : Russian department Cochrane cooperation/RMANPO. – URL: https://russia.cochrane.org/	Content open access
	Webmedinfo.ru: website [open information and educational medical resource]. - Moscow. - URL: https://webmedinfo.ru/	Open access
	Univadis from Medscape: international honey. portal. -URL: https://www.univadis.com/ [Regularly updated database of unique information and educational medical resources].	Free registration
	Med-Edu.ru: medical educational video portal. -URL: http://www.med-edu.ru/ . Free registration.	Open access
	Doctor's world: professional portal [information resource for doctors and students]. - URL: https://mirvracha.ru .	Free registration
	DoctorSPB.ru: information-reference portal about medicine [for students and doctors]. - URL: http://doctorspb.ru/	Open access
	BEARWEST : Russian doctor portal [library, database knowledge]. - URL: https://medvestnik.ru	Open access
	PubMed: electronic search engine [for biomedical research of the National Center for Biotechnology	Open access

	information (NCBI, USA)]. - URL: https://pubmed.ncbi.nlm.nih.gov/	
	Cyberleninka Open Science Hub: open scientific electronic library of publications in foreign languages. - URL: https://cyberleninka.org/	Content open that access
	Scientific heritage of Russia: <u>electronic library</u> / MSC RAS. - URL: http://www.e-heritage.ru/	Open access
	Russian doctor: website [news for doctors and medical archive. magazines]/ Publishing House "Russian Doctor". - URL: https://rusvrach.ru/	Open access
	South Russian magazine therapeutic practices / RostSMU. -URL: http://www.therapeutic-j.ru/jour/index	Open access
	Categories clinical recommendations of the Russian Ministry of Health. -URL: https://cr.minzdrav.gov.ru/	Open access
	FBUZ " Information and methodological center » Rospotrebnadzor: official website. - URL: https://www.crc.ru	Open access
	Ministry of Health of the Russian Federation: official website. - URL: https://minzdrav.gov.ru	Open access
	World Health Organization: official website. -URL: http://who.int/ru/	Open access
	Ministry of Science and Higher Education Russian Federation: official website. - URL: http://minobrnauki.gov.ru/(search engine_Yandex system)	Open access