

Документ подписан простой электронной подписью

Информация о владельце:

ФИО: Кубанов Сергей Исмаилович

Должность: и.о. декана медико-биологического факультета

Дата подписания: 20.10.2026 10:11:25

Уникальный программный ключ:

bbc0243907972fc80f279c67afb4501106151a7d

MINISTRY OF SCIENCE AND HIGHER EDUCATION

RUSSIAN FEDERATION

Federal State Autonomous Educational Institution of Higher Education

NORTH-CAUCASUS FEDERAL UNIVERSITY

APPROVED

Assoc. Prof. Kubanov S.I.

PhD in Medical Sciences

Dean

Faculty of Medicine and Biology

COURSE OUTLINE OF THE DISCIPLINE (MODULE)

Allergology

Name of the discipline (module)

- Specialty: 31.05.01 General Medicine
- Mode of training: Full-time
- Year of commencement of studies: 2026
- Delivered in Semester 5,6.

Developed by:

Associate Professor of the Department of Physical

Chemistry Biology and Immunology

Vlasov A.A.

Stavropol 2026

1. Purpose and Objectives of the Discipline

The purpose of studying the discipline is to obtain the necessary amount of knowledge, skills and abilities in the field of allergology. The course of allergology allows students to acquire knowledge about the mechanisms of the influence of allergens on the human body and its functioning in new conditions.

The main objectives of studying the discipline are:
mastering modern approaches in the diagnosis and treatment of allergic diseases;
formation of practical skills in the field of allergology;
assessment of the epidemiological picture of allergic diseases.

2. Place of the Discipline in the Structure of the Educational Program

The discipline «Allergology» belongs to the disciplines of the part formed by the participants of educational relations.

3. List of Planned Learning Outcomes for the Discipline, Correlated with the Planned Results of Mastering the Educational Program

Code, formulation of competence	Code, formulation of indicator	Planned learning outcomes for the discipline characterizing the stages of formation of competences, indicators
PC-2. Ready to collect and analyze patient complaints, data from his anamnesis, results of examination, laboratory, instrumental, pathological and other studies in order to recognize a condition or establish the fact of the presence or absence of a disease	ID-1PC-2 Ability to collect complaints, life history and disease history of the patient and analyze the information received ID-2PC-2 Conducts a complete physical examination of the patient (examination, palpation, percussion, auscultation) and interprets its results ID-3PC-2 Formulates a preliminary diagnosis and draws up a plan for laboratory and instrumental examinations of the patient	Formation of clinical thinking
PC-3. Able to determine the main pathological conditions, symptoms, syndromes of diseases, nosological forms in accordance with the International Statistical Classification of Diseases and Related Health Problems, X revision	ID-1PC-3 Able to build an algorithm and select criteria for determining the main pathological conditions, syndromes, diseases in patients of various profiles in accordance with the International Statistical Classification of Diseases and Related Health Problems, X revision (ICD-X) ID-2PC-3 Identifies the main pathological symptoms and syndromes, formulates a clinical diagnosis in accordance with ICD-X	Formation of clinical thinking. Acquisition of special medical skills and their application in practical healthcare

4. Scope of the Discipline and Forms of Control *

Scope of classes: total: 4 credits 144 academic hours	Full-time, in academic hours
Contact work:	68
Lectures / of which practical training	34
Practical classes / of which practical training	34
Independent work	76
Forms of control:	
Credit	

* The discipline provides for the use of e-learning, distance educational technologies (unless otherwise established by the educational standard).

5. Content of the Discipline, Structured by Topics (Sections) Indicating the Number of Hours and Types of Classes

No .	Section (topic) of the discipline and brief content	Formed competencies, indicators	Full-time form				Forms of current progress control
			Contact work of students with the teacher / of them in the form of practical training, hours			Independent work, hours	
			Lectures	Practical classes	Laboratory work		
5th semester							
1	Principles of organizing medical care for patients with diseases associated with disorders in the immune system. Standards of medical care, medical examination of patients.	PC-2 ID-1, ID-2, ID-3, PC-3 ID-1, ID-2, ID-3	2	2		4	Interview
2	Pathophysiology of allergic reactions	PC-2 ID-1, ID-2, ID-3, PC-3 ID-1, ID-2, ID-3	2	2		4	Interview
3	Allergens and types of allergic reactions	PC-2 ID-1, ID-2, ID-3, PC-3 ID-1, ID-2, ID-3	2	2		4	Interview
4	Allergic diseases of the respiratory organs 1. Concept, classification, characteristics of diseases. 2. Bronchial asthma. 3. Pulmonary eosinophilias. 4. Exogenous allergic alveolitis	PC-2 ID-1, ID-2, ID-3, PC-3 ID-1, ID-2, ID-3	2	2		4	Interview
5	Allergic rhinitis. Pollinosis: 1. Definition, etiology, pathogenesis 2.	PC-2 ID-1, ID-2, ID-3,	2	2		4	Interview

	Clinical picture, diagnosis, treatment.	PC-3 ID-1, ID-2, ID-3					
6	Allergic skin diseases: 1. Concept, pathogenesis, classification. 2. Modern methods of diagnosis and treatment.	PC-2 ID-1, ID-2, ID-3, PC-3 ID-1, ID-2, ID-3	2	2		4	Interview
7	Food allergy: 1. Definition, etiology, pathogenesis, 2. Clinical picture, diagnosis, treatment.	PC-2 ID-1, ID-2, ID-3, PC-3 ID-1, ID-2, ID-3	2	2		4	Interview
8	Insect allergy: 1. definition, etiology, pathogenesis 2. Clinical picture, diagnosis, treatment	PC-2 ID-1, ID-2, ID-3, PC-3 ID-1, ID-2, ID-3	2	2		4	Interview
9	Critical conditions in allergy. Anaphylactic reactions. Anaphylactic shock.	PC-2 ID-1, ID-2, ID-3, PC-3 ID-1, ID-2, ID-3	2	2		4	Interview
Total for the 5th semester			18	18		36	
10	Drug allergy 1. Features of drug allergy, drug as an allergen, pathogenesis 2. Clinical picture, principles of diagnosis, emergency care. 3. Prevention.	PC-2 ID-1, ID-2, ID-3, PC-3 ID-1, ID-2, ID-3	2	2		4	Interview
11	Allergic eye diseases 1. Types 2. Symptoms 3. Treatment	PC-2 ID-1, ID-2, ID-3, PC-3 ID-1, ID-2, ID-3	2	2		4	Interview
12	Allergy and the environment 1. Interrelation 2. Impact of the environment on the condition of allergy sufferers.	PC-2 ID-1, ID-2, ID-3, PC-3 ID-1, ID-2, ID-3	2	2		4	Interview
13	Occupational skin allergies. Occupational contact dermatitis.	PC-2 ID-1, ID-2, ID-3, PC-3 ID-1, ID-2, ID-3	2	2		4	Interview
14	Occupational respiratory diseases.	PC-2 ID-1, ID-2, ID-3, PC-3 ID-1, ID-2, ID-3	2	2		6	Interview
15	Allergy and mental state.	PC-2 ID-1, ID-2, ID-3, PC-3 ID-1, ID-2, ID-3	2	2		6	Interview
16	Methods of diagnosis of allergic diseases	PC-2 ID-1, ID-2, ID-3,	2	2		6	Interview

		PC-3 ID-1, ID-2, ID-3					
17	Principles of treatment of allergic diseases. 1. Etiological therapy, drugs affecting the immune stage, pathochemical. 2. Treatment of patients in remission: ASIT. 3. Indications, contraindications, methods of conducting. 4. Principles of prevention of allergic diseases.	PC-2 ID-1, ID-2, ID-3, PC-3 ID-1, ID-2, ID-3	2	2		6	Interview
Total for the 6th semester			16	16		40	
TOTAL			34	34		76	

6. Fund of Assessment Tools for the Discipline

The Fund of Assessment Tools (FAT) for the discipline «Allergology» is based on the list of competencies being mastered, indicating the stages of their formation in the process of mastering the discipline (module). The FAT ensures objective control of the achievement of planned learning outcomes. The FAT includes:

description of indicators and criteria for assessing competencies at various stages of their formation, description of assessment scales;

methodological materials defining the procedures for assessing knowledge, skills, abilities and (or) experience of activities characterizing the stages of formation of competencies;

standard control tasks and other materials necessary for assessing knowledge, skills and the level of mastery of the competencies being formed in the process of mastering the discipline. The FAT is an appendix to this discipline program.

7. Methodological Guidelines for Students on Mastering the Discipline

When starting work, each student should take into account the following provisions.

The discipline (module) is built on a thematic principle, each topic is a logically completed section.

The lecture material is devoted to the consideration of key, basic provisions of the courses and explanation of educational tasks assigned to independent work of students.

Practical classes are conducted to consolidate the learned information, acquire skills of its application in solving practical problems in the relevant subject area.

Independent work of students is aimed at independent study of additional material, preparation for laboratory classes, as well as performing all types of independent work.

For successful mastering of the discipline, it is necessary to complete all types of independent work, using the recommended sources of information.

8. Educational, Methodological and Information Support of the Discipline

8.1. List of Basic and Additional Literature Required for Mastering the Discipline

8.1.1. List of Basic Literature:

1. Morozova, N. V. All about allergies. Complete reference book [Electronic resource] / N. V. Morozova. — Electronic text data. — Saratov : Scientific book, 2019. — 589 p. — 978-5-9758-1853-9. — Access mode: <http://www.iprbookshop.ru/80208.html>
2. Fundamentals of clinical immunology and allergology [Electronic resource] : textbook / A.A. Alekseeva [et al.]. — Electronic text data. — M. : Pediatrician, 2016. — 152 p. — 978-5-906332-32-5. — Access mode: <http://www.iprbookshop.ru/70801.html>

8.1.2. List of Additional Literature:

1. Allergology and immunology : national guide / Assoc. med. societies on quality, Russian Association of Allergologists and Clinical Immunologists ; chief ed. R. M. Khaitov, N. I. Ilyina. — M. : GEOTAR-Media, 2009. — 656 p. : append. — (Series «National Guides») (National Project «Health»). — Subject index: p. 647-649. — ISBN 978-5-9704-0903-9
2. Allergology : textbook : specialty 060112 – Medical Biochemistry / compiled by O. I. Anfinogenova ; Ministry of Education and Science of the Russian Federation, GOU VPO «Stavropol State University». — Stavropol : SSU Publishing House, 2010. — 184 p. — Bibliography: p. 179-180
3. Diagnosis and treatment of allergy to cow's milk proteins in infants and young children [Electronic resource] : practical recommendations / A.A. Baranov [et al.]. — Electronic text data. — M. : Pediatrician, 2014. — 48 p. — 978-5-906332-14-1. — Access mode: <http://www.iprbookshop.ru/70509.html>
4. Zemskov, A. M. Clinical immunology : textbook for universities / A. M. Zemskov, V. M. Zemskov, A. V. Karaulov. — M. : GEOTAR-Media, 2008. — 432 p. — Bibliography: p. 423-426. — ISBN 978-5-9704-0775-28.2.

List of Educational and Methodological Support for Independent Work of Students in the Discipline

Ivchenko G.S. Educational and methodological guide: Methodological recommendations for organizing independent work of students in the discipline «Allergology» for students of specialty 31.05.01 General Medicine. — Stavropol, 2026.

8.3. List of Internet Resources Required for Mastering the Discipline

1. <http://rudocctor.net/> - Medical portal
2. <http://www.livemedical.ru/> - IT-medicine
3. <https://www.rmj.ru/> - Russian Medical Journal

9. List of Information Technologies Used in the Educational Process for the Discipline, Including the List of Software and Information Reference Systems

When reading lectures, computer technology is used, demonstrations of presentation multimedia materials. In laboratory classes, students present presentations prepared by them during independent work.

Information reference systems:

Information reference and information legal systems used in the study of the discipline:

1	http://www.pubmed.com/ - database of full-text medical articles
---	--

Software:

1	Alt Workstation 10
2	Alt Workstation K
3	Alt «Server»
4	Office software package - R7-Office

10. Description of the Material and Technical Base Necessary for the Implementation of the Educational Process in the Discipline

Lectures	Classroom for conducting classes, equipped with multimedia equipment and technical teaching aids.
Practical classes	A set of educational furniture for 16 seats, equipped with specialized furniture and technical teaching aids, serving for presenting educational information to a large audience: projector, «Thin» client computer with the necessary set of licensed software. Equipment: Automatic pipettes: 0.5-10 µl.; Automatic pipettes: 20-200 µl.; Automatic pipettes: 100-1000 µl.; Automatic pipettes: 5-50 µl.; Automatic pipettes: 1-5 ml. Microcentrifuge. Laboratory shaker. Laboratory magnetic stirrer. Laboratory scales. Spectrophotometer. Immunoassay analyzer. Laboratory tabletop centrifuge. Thermo-shaker. Photometer FBS-01-02 (Microlab.-540). Automatic plate washer «Aquamarine». Biochemical analyzer StatFax. Flow cytometer Advia.
Independent work	A room for independent work of students, equipped with computer equipment with the ability to connect to the Internet and access to the electronic information and educational environment of the university.

11. Features of Mastering the Discipline by Persons with Disabilities

Students with disabilities are provided with special textbooks, teaching aids and didactic materials, special technical teaching aids of collective and individual use, services of an assistant providing the necessary technical assistance to students, as well as services of sign language interpreters and typhlosign language interpreters.

Mastering the discipline (module) by students with disabilities can be organized together with other students, as well as in separate groups.

Mastering the discipline (module) by students with disabilities is carried out taking into account the peculiarities of psychophysical development, individual capabilities and health status. In order to ensure the accessibility of higher education under the educational program for persons with disabilities when mastering the discipline (module), the following is provided:

for persons with visual disabilities:

presence of an assistant providing the student with the necessary technical assistance taking into account individual characteristics (helps to take a workplace, move around, read and complete the task, including dictating), written assignments, as well as instructions on the procedure for their completion, are made in large print, special textbooks, teaching aids and didactic materials (having large print or audio files), individual uniform lighting of at least 300 lux, if necessary, the student is provided with a magnifying device for completing the task; for persons with hearing disabilities: presence of an assistant providing the student with the necessary technical assistance taking into account individual characteristics (helps to take a workplace, move around, read and complete the task, including dictating), availability of sound-amplifying equipment for collective use is ensured, if necessary, the student is provided with sound-amplifying equipment for individual use; provided with appropriate sound means of reproducing information; for persons with disabilities with musculoskeletal disorders (including those with severe impairments of motor functions of the upper limbs or absence of upper limbs): written assignments are performed on a computer with specialized software or dictated to an assistant;

at the student's request, tasks can be performed orally.

12. Features of the Implementation of the Discipline Using Distance Learning Technologies and E-Learning

According to Part 1 of Article 16 of the Federal Law of December 29, 2012 No. 273-FZ «On Education in the Russian Federation», e-learning refers to the organization of educational activities using information contained in databases and used in the implementation of educational programs, and information technologies, technical means that ensure its processing, as well as information and telecommunication networks that ensure the transmission of the specified information via communication lines, interaction of students and teaching staff. Distance educational technologies refer to educational technologies implemented mainly using information and telecommunication networks with indirect (at a distance) interaction between students and teaching staff.

The implementation of the discipline can be carried out using distance learning technologies and e-learning in full or in part. The components of the teaching and learning materials of the discipline (work program of the discipline, assessment and methodological materials, forms of certification), implemented using distance learning technologies and e-learning, contain an indication of their use.

When organizing educational activities using distance learning technologies and e-learning, asynchronous and synchronous methods of interaction between participants of educational relations through the Internet can be provided.

When using distance learning technologies and e-learning, the schedule for the discipline specifies: methods of interaction between participants of educational relations through the Internet (VCS - video conferencing, ET - electronic testing); links to the electronic information and educational environment of NCFU, to educational platforms and resources of other organizations that are provided with open access via the Internet; for synchronous learning - the time of online classes and teachers; for asynchronous learning - the authors of online courses.

When organizing intermediate certification using distance learning technologies and e-learning, the Methodological Recommendations on the use of technical means ensuring the objectivity of results during intermediate and state final certification in educational programs of higher education - bachelor's programs, specialist programs and master's programs using distance learning technologies (Letter of the Ministry of Education and Science of Russia dated 07.12.2020 No. MN-19/1573-AN «On the direction of methodological recommendations») are used.

The implementation of the discipline using e-learning and distance educational technologies is carried out using the electronic information and educational environment of NCFU, to which students are provided with access through the Internet, or using the resources of other organizations, including platforms that provide services for video conferencing, online meetings and distance learning (MTS-Link), as well as using the capabilities of social networks for communication between students and teachers.

The educational and methodological support of the discipline, implemented using e-learning and distance educational technologies, includes the work program, educational and methodological manuals or a course of lectures, methodological instructions for performing various types of educational activities of students provided for by the discipline, and other educational and methodological materials posted in the information and educational environment of NCFU in electronic form.