**Kharkiv National Medical University**

**The V Faculty on Training Foreign Students at the Training**

**and Research Institute for Foreigners**

**Department of Propaedeutic of Pediatrics #2**

Field of knowledge 22 “Healthcare”

Specialty 228 "Pediatrics"

Educational-professional program (educational-scientific program) Medicine

Educational qualification “Master of Medicine”

**SYLLABUS OF THE COURSE**

**«** **Urgent Problems of Paediatric Allergology »**

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| --- | --- | --- |
| The syllabus of the discipline approved at the meeting of the department of Propedeutic of Pediatrics#2Protocol of"\_\_28 " 08 2020 number 1Head of Department\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Klymenko V.A.  (signature) (surname and initials)“\_\_\_”\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 20\_\_ |  | Approved at the KhNMU methodical meeting\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Protocol of “\_31\_\_”\_\_\_08\_\_ 2020 year № 1Chairman\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Gonchar M.O.\_\_\_\_(signature) (surname and initials)“\_\_\_”\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 20\_\_ |

Kharkiv – 2020

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Information about the teacher (s) (professional interests, trajectory of professional development) with reference to the teacher's profile (on the website of the department, in the Moodle system - if available).

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Information about consultations: Oral (face-to-face) consultations: according to the schedule of the department on the basis of the department - regional children's clinical hospital №1 and by prior arrangement. On-line consultations: by prior arrangement with the teacher using the resources of the system Moodle. (<http://31.128.79.157:8083/login/index.php>)

Location 1 Lectures and practical classes: lecture hall and classrooms of the Department of Propaedeutics of Pediatrics №2 (337a, Klochkivska Street).

Class hours: Monday, Tuesday, Wednesday, Thursday, Friday (8:30-12:10 / 13:50-17:40 according to the schedule.

**Discipline information**

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| --- | --- | --- |
| Name of indicators | Field of knowledge, direction of training, educational and qualification level | Characteristics of the discipline |
| full-time education |
| Number of credits - | educational program for training specialists of the second (master's)level of higher education training 22 "Health" | Selective |
| The total number of hours is 120Number of credits-4 | Specialty:222 "Medicine" | Year of preparation: |
| 5th |
| **Semestr** |
|  |
| Hours for day (or evening) form of study:classrooms - 20independent student work - 100 | Education level: master | **Lectures** |
| 0 hours |
| Practical, seminar |
| 20 hours |
| **Laboratory** |
| 0 hours |
| **Individual work** |
| 100 hours |
| **Individual tasks** |
|  |
| Type of control: credit |

Educational program of higher education of Ukraine, second (master's) level, educational qualification assigned - master's degree, field of knowledge - 22 Healthcare, specialty 228 "Pediatrics" is based on the Law of Ukraine "On Higher Education" and the resolution of the Cabinet of Ministers of Ukraine 01.02.2017 № 53 "On amendments to the resolution of the Cabinet of Ministers of Ukraine dated 29.04.2015 № 266", in accordance with the order of the Ministry of Education and Science of Ukraine dated 01.06.2016 № 600 "On approval and implementation of Methodological recommendations for the development standards of higher education ".

The course program determines the prerequisites for access to education, orientation and main focus of the program, the amount of credits required for a master's degree, a list of general and special (professional) competencies, normative and variable content of training, formulated in terms of learning outcomes and control requirements quality of higher education.

The department accepts qualified students of any race, national or ethnic origin, gender, age, people with special needs, any religion, sexual orientation, gender, veteran status or marital status for all rights, privileges, programs and activities, provided to university students.

**INTRODUCTION**

 **The syllabus** of the discipline "Current scientific research on childhood allergology" is compiled in accordance with the temporary Standard of Higher Education of Ukraine (hereinafter - the Standard) of specialists of the third (educational and scientific) level, field of knowledge 22 - " Healthcare", specialty - 228 "Pediatrics" educational program.

 **Description of the discipline** (abstract). Educational and scientific training program for specialists of the third (educational and scientific) level of higher education in the specialty 228 "Pediatrics" developed in accordance with the Law of Ukraine "On Higher Education" from 01.07.2014 № 1556-VII, Resolutions of the Cabinet of Ministers of Ukraine from 23.11.2011 "On approval of the National Qualifications Framework" dated 30.12.2015 87 1187, "On approval of the Licensing Conditions for educational activities of educational institutions" dated 20.12.2015, "On approval of the Procedure for training applicants for higher education for the degree of Doctor of Philosophy and Doctor of Science in higher educational institutions(scientific institutions) ”dated 23.03.2016 № 261,“ On amendments to the Resolution of the Cabinet of Ministers of Ukraine dated 29 April 2015 №266 ”dated 01.02.2017. №53, methodical recommendations «Development of educational programs. Methodical recommendations ”(2014).

 The educational and scientific program determines the prerequisites for access to education, orientation and main focus of the program, the amount of ECTS credits required for the degree of Master of Medicine, the list of general and special (professional) competencies, normative and variable content of training, formulated in terms of results training and quality control requirements for higher education.

 The modern development of public relations poses new challenges to the education system of Ukraine, among which an important place is occupied by the training of a qualified professional who will be able to effectively realize their potential. The education development strategy must take these challenges into account in order to remain the driving force behind the development of society as a whole. Therefore, it is very important to conduct quality control and monitoring of educational activities within the walls of higher education institutions. Without appropriate knowledge and skills in the field of control, which are transformed in the learning process into appropriate professional competencies, it is impossible to imagine a positive development of education and its improvement.

 The syllabus is organized with the application of modern pedagogical principles of organization of the educational process of higher education.

 **The subject** of the course is the forms, methods and means of control of knowledge, skills and abilities.

**The purpose and objectives of the discipline**

 **Purpose:** to provide training of highly qualified specialists in the field of pediatrics, family medicine on the basis of deep knowledge and understanding of pathogenesis, clinical manifestations, diagnosis and treatment of allergic diseases in children.

 **The main objectives of the course** are for students to acquire competencies in accordance with the general and professional competencies of the educational-professional program "Medicine" of the second (master's) level of higher education in the specialty 222 Medicine (discipline "Pediatrics").

 **Integral competencies:**

- ability to solve typical and complex specialized tasks and practical problems in professional activities in the field of health care, or in the learning process, which involves research and / or innovation and is characterized by complexity and uncertainty of conditions and requirements.

 **General competencies (GC):**

• the ability to think abstractly, analyze and synthesize;

• the ability to apply knowledge in practical situations;

• the knowledge and understanding of the subject area and understanding of professional activity;

• the ability to communicate in English both verbally and in writing;

• skills of using information and communication technologies;

• the ability to learn and obtain modern knowledge;

• the ability to search, process and analyze information from different sources;

• the ability to be critical and self-critical;

• the ability to adapt and act in a new situation; the ability to generate new ideas (creativity);

• certainty and perseverance in terms of tasks and responsibilities;

• the ability to make informed decisions; ability to work in a team; interpersonal skills;

• the ability to act socially responsible and consciously.

 **Special (professional) competencies (SC):**

1. To collect data on complaints and medical history in patient with allergic diseases, using the results of the interview of the patient, according to the standard scheme of interviewing the patient. Under any circumstances (in a healthcare institution and its units), using knowledge of humans, their organs and systems, with certain algorithms:

• to collect information about general condition (consciousness, constitution) and appearance in patient with allergic diseases;

• to make diets for children of all ages with food allergy;

• to examine the condition of the cardiovascular system (examination and palpation of the heart area and superficial vessels, determination of percussion borders of the heart and blood vessels, auscultation of the heart and blood vessels);

• to examine the condition of the respiratory system in patients with bronchial asthma;

• to examine the condition of the abdominal organs in patients with allergic diseases of gastro-intestinal tract;

• to examine the condition of the musculoskeletal system (examination and palpation);

• to examine the condition of the nervous system in patients with allergic diseases;

• to examine the condition of the excretory system in patients with allergic diseases;

• to examine the condition of the endocrine system in patients with allergic diseases;

• to examine the condition of the blood system in patients with allergic diseases;

• to examine the condition of the immune system in patients with allergic diseases;

 The study of this discipline also forms the following **social skills** in students:

- teamwork (implemented through: methods of working with subgroups of students and brainstorming during the analysis of clinical cases);

- communicativeness (implemented through: methods of working with subgroups of students and brainstorming during the analysis of clinical cases, methods of presenting the results of independent work and their protection in the group);

- leadership skills (implemented through: methods of presenting the results of independent work and their protection in the group);

- conflict management (implemented through: methods of business games in subgroups);

- time management (implemented through: methods of self-organization during classroom work in groups and independent work).

 **Discipline status:** selective; The format of the discipline is mixed - a discipline that has support in the Moodle system, teaching the discipline involves a combination of traditional forms of classroom learning with elements of distance learning, which uses available interactive information technology (ZOOM, Moodle, Google Meet), face-to-face and distance counseling.

 **Teaching methods**

Practical classes with the use of modern teaching technologies - case method,

brainstorming, situational tasks, analysis of a clinical case, etc.

Independent work with the use of video materials, methodical recommendations and control tests.

 **Learning outcomes**

 The course covers the main aspects of training a future pediatrician, family doctor, pediatric allergist and immunologist. According to the training program in the discipline "Topical issues of childhood allergology", the applicant will acquire theoretical knowledge and practical skills in the following sections:

- Epidemiology of allergic diseases

- Pathogenesis of allergic reactions and diseases

- Methods of diagnosis of the most common allergic diseases - bronchial asthma, atopic dermatitis, allergic rhinitis, urticaria, hay fever, anaphylactic shock

- Treatment and prevention of allergic diseases in children

- Emergency and emergency care for critical conditions associated with allergic diseases

**The content of the discipline**

**Curriculum of the discipline**

|  |
| --- |
| CURRENT ISSUES OF CHILDREN'S ALLERGOLOGY (90 hours) 3 credits |
| **Topics of practical classes (20 hours)** |
| 1 | Basic concepts of allergic reactions | 2 |
| 2 | Diagnostic methods in allergology | 2 |
| 3 | Food allergies | 2 |
| 4 | Modern ideas about the etiology, pathogenesis, clinic, diagnosis and treatment of bronchial asthma in children | 2 |
| 5 | Modern ideas about the etiology, pathogenesis, clinic, diagnosis and treatment of allergic rhinitis in children | 2 |
| 6 | Modern ideas about the etiology, pathogenesis, clinic, diagnosis and treatment of urticaria in children | 2 |
| 7 | Modern ideas about the etiology, pathogenesis, clinic, diagnosis and treatment of atopic dermatitis in children | 2 |
| 8 | Allergic diseases of the gastrointestinal tract. Eosinophilic esophagitis | 2 |
| 9 | Specific immunotherapy - modern methods of patient selection and methods. The concept of molecular allergology | 2 |
| 10 | Anaphylactic shock. Drug allergy | 2 |
| Total |  | 20 |
| **Themes of independent works (100 hours)** |
| 1 | History of allergology | 10 |
| 2 | Modern electronic databases, sites for finding information on international guidelines, diagnosis and treatment of allergic diseases | 10 |
| 3 | Bronchial asthma through the eyes of a 21st century scientist - what's new? Changing perceptions of the pathogenesis and treatment of allergic diseases | 10 |
| 4 | Topical steroids in pulmonology - the benefits of use | 10 |
| 5 | The main reasons for the lack of control in the management of patients with allergic diseases | 10 |
| 6 | Atopic march in grandfathers - the possibility of its modification | 10 |
| 7 | Differential diagnosis of obstructive syndrome in children | 10 |
| 8 | Exanthemas in children - a matter of differential diagnosis | 10 |
| 9 | Specific immunotherapy as the main method of treatment of allergic diseases | 10 |
| 10 | What is molecular allergology.  | 10 |
| Total |  | 100 |

**Topics of practical classes**

**1. Basic concepts of allergic reactions.**

Classification of allergic reactions. The main mediators of immediate and delayed allergy types. Pathogenesis of major allergic diseases. Antihistamines - classification, mechanisms of action.

**2. Diagnostic methods in allergology.**

Clinical diagnostic methods with an emphasis on interviewing the patient. Patch and patch tests. Laboratory diagnosis of allergies and sensitization. Spirography. Provocative tests.

**3. Food allergies.**

Patogenesis. Food allergies in adults and children - differences. Formation of food tolerance. Allergy to cow's milk proteins. Types of therapeutic mixtures and therapeutic nutrition for various types of food allergies.

**4. Modern ideas about the etiology, pathogenesis, clinic, diagnosis and treatment of bronchial asthma in children**

Epidemiology, clinic, diagnosis, treatment, prevention of bronchial asthma

Asthma in young children.

**5. Modern ideas about the etiology, pathogenesis, clinic, diagnosis and treatment of allergic rhinitis in children**

Epidemiology, clinic, diagnosis, treatment, prevention of allergic rhinitis. Pollinosis. Aeropalinological research.

**6. Modern ideas about the etiology, pathogenesis, clinic, diagnosis and treatment of urticaria in children**

Epidemiology, clinic, diagnosis, treatment, prevention of urticaria.

**7. Modern ideas about the etiology, pathogenesis, clinic, diagnosis and treatment of atopic dermatitis in children**

Epidemiology, clinic, diagnosis, treatment, prevention of atopic dermatitis in children. Differential diagnosis of exanthemas in children. Basic skin care.

**8. Allergic diseases of the gastrointestinal tract. Eosinophilic esophagitis**

Epidemiology, clinic, diagnosis, treatment, prevention of allergic diseases of the gastrointestinal tract. Instrumental methods of research of a gastrointestinal tract.

**9. Specific immunotherapy - modern methods of patient selection and methods. The concept of molecular allergology.**

Basic rules for selecting patients for allergen-specific therapy. Leading to molecular allergology - the concept of major and minor antigens. Mechanisms of ASIT. Therapy schemes.

**10. Anaphylactic shock. Drug allergy**

Emergency care for anaphylactic shock. Shock prevention. Epidemiology, clinic, diagnosis, treatment, prevention of drug allergies. Allergy tests with medications.

**Literature:**

1. Global Strategy for Asthma Management and Prevention. 2018 Available from: https://ginasthma.org/2018-gina-report-global-strategy-for-asthma-management-and-prevention/ Global atlas of asthma
2. ARIA guideline Available from: https://www.jacionline.org/article/S0091-6749(17)30919-3/pdf
3. EAACI Food Allergy and Anaphylaxis Guidelines: diagnosis and management of food allergy Available from: https://onlinelibrary.wiley.com/doi/full/10.1111/all.12429
4. AALU - Асоціація алергологів України: http://aalu.org.ua/
5. WAO – world allergy organization: https://www.worldallergy.org/

**Discipline policy and values**

Discipline requirements (system of requirements and rules that the teacher imposes on students of higher school in the study of the discipline). To achieve the goals of training and successfully complete the course, it is necessary: to join the work from the first day; attend lectures regularly; read the material in advance, before its consideration in a practical class; not to be late and not to miss classes; come to the department dressed in a medical form, have changeable medical shoes, have a phonendoscope, notebook, pen; perform all necessary tasks and work every day; be able to work with a partner or in a group; ask for help and get it when you need it. Written tasks and homework must be completed in full volume and on time.

Academic mobility, interchangeability of credit credits (1 credit contains 30 hours) are provided. Students can discuss different tasks, but their performance is strictly individual.

Class attendance and behavior. Attendance at lectures and practical classes by students is mandatory. Students are not allowed to be late for lectures and practical classes.

During the lecture, students are recommended to keep notes of the lesson and keep a sufficient level of silence. Asking questions to the lecturer is perfectly normal.

Electronic gadgets using is allowed only with the teacher’s permission. You are not allowed to write off, use various software, tips, use a mobile phone, tablet or other electronic gadgets during the lesson.

Academic Integrity Policy (including liability for breach of academic integrity). Observance of academic integrity by students of education provides:

* + Independent performance of educational tasks, tasks of current and final control of learning outcomes (for persons with special educational needs this requirement is applied taking into account their individual needs and opportunities);
	+ Links to sources of information in the case of the use of ideas, developments, statements, information;
	+ Compliance with copyright and related rights legislation;
	+ Providing reliable information about the results of their own (scientific, creative) activities, used research methods and sources of information.

The Propaedeutic of Pediatrics Department maintains zero tolerance for plagiarism. Students are expected to constantly raise their awareness of academic writing. The first lessons will provide information on what to consider plagiarism and how to properly conduct research and scientific research.

Policy for people with special educational needs. Students with special needs should meet with the teacher or warn teacher before the start of classes, at the request of the student it can be done by group monitor.

Recommendations for successful completion of the discipline (activity of higher school students during practical classes, completion of the required minimum of educational work). Practical classes include:

Active participation during the discussion in the auditorium, students should be ready to understand the material in detail, ask questions, express their point of view, discuss. During the discussion, it is important:

* respect for colleagues;
* tolerance for others and their experiences;
* susceptibility and impartiality;
* the ability to disagree with the opinion, but to respect the personality of the opponent;
* careful argumentation of one's opinion and courage to change one's position because of influence of evidence;
* expression, when a person avoids unnecessary generalizations, describes his feelings and formulates his wishes based on their own thoughts and emotions;
* obligatory acquaintance with primary sources.

A creative approach in its various manifestations is welcome. Students are expected to be interested in participating in city, national and international conferences, competitions and other events in the subject profile.

Encouragement and penalties (additional points for conferences, research, edits, advice, participation in surveys). Assessment of individual student tasks is carried out under the conditions of the teacher's tasks (report of the abstract in a practical lesson, report with a presentation in a practical lesson, report at scientific and practical conferences of the department, university, writing abstracts, articles, participation in the All-Ukrainian Olympiad). Points (not more than 10) are added as incentives.

Safety precautions. The first lesson of the course will explain the basic principles of labor protection by conducting appropriate training. It is expected that everyone should know where the evacuation exit is closest to the auditorium, where the fire extinguisher is, how to use it, etc.

The procedure for informing about changes in the syllabus, etc. Development, updating and approval of the syllabus of the discipline is carried out every academic year. Mandatory placement on the website of KhNMU in the profile of the educational program "Medicine" until June 30 of the current academic year for the next academic year.

**Evaluation policy**

Evaluation system and requirements

**Organization of current control.** Assimilation of the topic (current control) is controlled during practical class in accordance with specific goals. The following tools are used to assess the level of preparation of students: solving situational problems, interpretation and evaluation of laboratory results, analysis and evaluation of instrumental studies and parameters that characterize the functions of the human body, control of practical skills. The final class must be conducted in accordance with the curriculum during the semester on schedule, during classes. Taking of final class is carried out by the teacher of the academic group. The assessment is conducted in the traditional 4-point grade scale ("excellent", "good", "satisfactory" and "unsatisfactory"). Teacher automatically receives using the electronic journal of automated control system conversion of the average grade for current educational activities in a multiscore scale is carried out in accordance with the "Instructions for assessing the educational activities of students…" or the average grade (to the nearest hundredth) in accordance with the NQF. The minimum quantity of points which student can get for current activity during section studying is 70 points, the maximum – 120 points.

**Evaluation of students' self-studying work.** Self-studying work of students, which is provided by the topic of the lesson along with classroom work, is assessed during the current control of the topic in the relevant lesson.

**Organization of final control – differential credit.** Permission for grading test is determined in points of current educational activity: min - 70, max - 120 points. Grading test is made by the teacher of the academic group or on commission in case of disagreement of the student with the results of attestation. If the grading test is not made, the dates of test retaking during the holidays are set, before the beginning of the next semester. Directly grading credit is estimated from 50 up to 80 points.

Grading test in the discipline is a process when following indexes received during the course are checked:

- level of theoretical knowledge;

- development of creative thinking;

- skills of self-studying work;

- competencies – the ability to synthesize the acquired knowledge and apply them in solving practical problems.

Grading test is conducted by the group teacher at the last class. During the grading test, the acquired practical skills and theoretical knowledge assessment is carried out according to the tickets drawn up at the department, which include all topics of the discipline.

**The discipline grade** is defined as the average arithmetic of the points for all semesters during which the discipline was studied, which are converted into a 120-point ECTS scale with the addition of points obtained directly on the grading test.

The maximum number of points that a student can score for studying the discipline is 200 points, including the maximum number of points for current educational activities for 120 points, as well as the maximum number of points according to the results of grading test for 80 points. The minimum number of points is 120, including the minimum current educational activity – 70 and the results of differentiated credit – 50 points.

The discipline grade is given only to students who have enrolled in all practical classes and grading tests. If the grading test is not received, the dates of retaking during the holidays are set, before the beginning of the next semester.

Elimination of academic debt (working off). Omissions of practical classes are worked off hour by hour to the teacher of the group or the duty teacher (according to the schedule on the information stand of the department). Taking of working off and consultations are held daily from 3.00pm till 5.00pm, on Saturdays in accordance with the "Regulations on the procedure of working off of missed practical classes by students" from 07.12.2015 No. 415 or remotely in quarantine.

Students who have not been admitted to the grading test or have not passed it are entitled to liquidation of current academic debt and retake the exam within the current semester, as well as within the approved schedule for two weeks during the winter or summer holidays after completion of the relevant semester or academic year.

If you have any questions, students can to contact the teacher.

**Conversion of the average grade for current activity**

**into a multiscore scale.**

The conversion is performed under the "Instruction on the evaluation of academic activity of students…" (Table 1).

Table 1

**Conversion of the average score for current activity into a multipoint scale**

 **(for courses that end with a grading test)**

| 4-point scale | 200- point scale  |  | 4- point scale  | 200- point scale  |
| --- | --- | --- | --- | --- |
| 5 | 120 | 3.91-3,94 | 94 |
| 4.95-4,99 | 119 | 3.87-3,9 | 93 |
| 4.91-4,94 | 118 | 3.83- 3,86 | 92 |
| 4.87-4,9 | 117 | 3.79- 3,82 | 91 |
| 4.83-4,86 | 116 | 3.74-3,78 | 90 |
| 4.79-4,82 | 115 | 3.7- 3,73 | 89 |
| 4.75-4,78 | 114 | 3.66- 3,69 | 88 |
| 4.7-4,74 | 113 | 3.62- 3,65 | 87 |
| 4.66-4,69 | 112 | 3.58-3,61 | 86 |
| 4.62-4,65 | 111 | 3.54- 3,57 | 85 |
| 4.58-4,61 | 110 | 3.49- 3,53 | 84 |
| 4.54-4,57 | 109 | 3.45-3,48 | 83 |
| 4.5-4,53 | 108 | 3.41-3,44 | 82 |
| 4.45-4,49 | 107 | 3.37-3,4 | 81 |
| 4.41-4,44 | 106 | 3.33- 3,36 | 80 |
| 4.37-4,4 | 105 | 3.29-3,32 | 79 |
| 4.33-4,36 | 104 | 3.25-3,28 | 78 |
| 4.29-4,32 | 103 | 3.21-3,24 | 77 |
| 4.25- 4,28 | 102 | 3.18-3,2 | 76 |
| 4.2- 4,24 | 101 | 3.15- 3,17 | 75 |
| 4.16- 4,19 | 100 | 3.13- 3,14 | 74 |
| 4.12- 4,15 | 99 | 3.1- 3,12 | 73 |
| 4.08- 4,11 | 98 | 3.07- 3,09 | 72 |
| 4.04- 4,07 | 97 | 3.04-3,06 | 71 |
| 3.99-4,03 | 96 | 3.0-3,03 | 70 |
| 3.95- 3,98 | 95 | Less than 3 | Not sufficient |

Head of the Department of Propaedeutic of Pediatrics,

DM, professor Klymenko V.A.