

MINISTRY OF HEALTH CARE OF UKRAINE
ODESSA NATIONAL MEDICAL UNIVERSITY

Department of Pediatrics №1

APPROVE



Vice-Rector of Scientific and Pedagogical Work

Svitlana KOTIUZHYNKA

Date: 01.09. 2022

WORKING PROGRAM OF THE SELECTIVE DISCIPLINE

Emergency conditions in paediatric allergology

Level of higher education: second (master's)

Area of expertise: 22 "Health"

Specialty: 222 "Medicine"

Educational and professional program : "Medicine"

The working program is compiled on the basis of the educational and professional program "Medicine", the training of specialists of the second (master's) level of higher education in the specialty 222 "Medicine" of the field of knowledge 22 "Health care", approved by the Academic Council of ONMedU, dated Jun 23, 2022, protocol No. 9..

Developers: head of the department, Corresponding Member of NAMS of Ukraine, DSc, Prof. Aryaev M.L., head teacher of the department, PhD, assoc. of professor Kaplina L. E., PhD, assoc. of professor Senkivska L. I., PhD, ass. of prof Varbanets D.A., PhD, ass. of prof. Biryukov V.S.

The working program was approved at the meeting of the Department of Pediatrics No. 1
Protocol No. 21 dated June 29, 2022

Head of the department, Corresponding Member of NAMS of Ukraine,
DSc, Prof.

Agreed with the guarantor of the EPP

Mykola ARYAYEV

(signature)

(Valeria MARICHEREDA)
(Name SURNAME)

The program was approved at the meeting of the subject cycle commission for pediatric disciplines of ONMedU

Protocol No. 6 dated "30" 06 2022 y.

Head of the subject cycle methodical commission for pediatric disciplines, professor

(Natalia KOTOVA)

(signature)

(signature)

(Name SURNAME)
(Name SURNAME)

Reviewed and approved at the meeting of the Department of Pediatrics No. 1

Protocol No. dated " " 20 y.

Head of the department (Mykola ARYAYEV)

Reviewed and approved at the meeting of the Department of Pediatrics No. 1

Protocol No. dated " " 20 y.

Head of the department (Mykola ARYAYEV)

(signature)

(Name SURNAME)

1. Description of elective academic discipline :

2. The name of indicators	Field of knowledge, specialty, specialization, level of higher education	Characteristics of the academic discipline
Total: Credits: 1.5 Hours: 45 Informative modules: 1	Field of knowledge 22 "Health"	<i>Daytime education</i> <i>Selective discipline</i>
	Speciality 222 "Medicine"	<i>Year of education: 6</i>
		<i>Semester XI-XII</i>
		<i>Lectures (0 hours)</i>
	Specialization "doctor"	<i>Seminars (16 hours)</i>
		<i>Practical (0 hours)</i>
		<i>Laboratory (0 hours)</i>
		<i>Independent work (29 hours)</i>
	Level of higher education second (master's)	<i>including individual tasks (0 hours)</i>
		<i>The form of final control (according to the curriculum) is a credit</i>

2. The purpose and objectives of the academic discipline

Purpose: The application's acquisition of the higher education of additional knowledge and mastery of professional competences in providing emergency care to children, based on the competences obtained during the study of previous disciplines.

A task:

1. Formation of skills and abilities of communication with a sick child or his parents in case of common allergic diseases in children
2. Improving the skills of substantiating a clinical diagnosis, drawing up a plan for laboratory and instrumental studies for common allergic diseases in children
3. Mastering the ability to determine tactics of management and prevention of common allergic diseases in children.

The process of studying the discipline is aimed at forming the elements of the following general competencies (GC):

General (GC):

- GC1 – Ability to abstract thinking, analysis and synthesis.
- GC2 – Ability to learn and master modern knowledge.
- GC3 – Ability to apply knowledge in practical situations.
- GC4 – Knowledge and understanding of the subject area and understanding of professional activity.
- GC5 – Ability to adapt and act in a new situation.
- GC6 – Ability to make reasonable decisions.
- GC7 – Ability to work in a team.
- GC8 – Ability to interpersonal interaction.
- GC10 – Ability to use information and communication technologies.
- GC11 – Ability to search, process and analyze information from various sources.
- GC12 – Determination and perseverance regarding the assigned tasks and assumed responsibilities.
- GC13 – Awareness of equal opportunities and gender issues.

- GC14 – Ability to realize one's rights and responsibilities as a member of society, to realize the values of public (free democratic) society and the need for its sustainable development, the rule of law, the rights and freedoms of a person and a citizen in Ukraine.
- GC15 – Ability to preserve and multiply moral, cultural, scientific values and achievements of society based on understanding the history and patterns of development of the subject area, its place in the general system of knowledge about nature and society and in the development of society, techniques and technologies, use different types and forms motor activity for active recreation and leading a healthy lifestyle.
- GC17 – Desire to preserve the environment.

Special (SC):

- SC1 – Ability to collect medical information about the patient and analyze clinical data.
- SC2 – Ability to determine the necessary list of laboratory and instrumental studies and evaluate their results.
- SC3 – Ability to establish a preliminary and clinical diagnosis of the disease.
- SC4 – Ability to determine the necessary regime of work and rest in the treatment and prevention of diseases.
- SC5 – Ability to determine the nature of nutrition in the treatment and prevention of diseases.
- SC6 – Ability to determine the principles and nature of treatment and prevention of diseases.
- SC7 – Ability to diagnose emergency conditions.
- SC8 – Ability to determine tactics and provide emergency medical care.
- SC11 – Ability to solve medical problems in new or unfamiliar environments in the presence of incomplete or limited information, taking into account aspects of social and ethical responsibility.
- SC13 – Ability to carry out sanitary and hygienic and preventive measures.
- SC16 – Ability to fill medical documentation, including electronic forms.
- SC17 – Ability to assess the impact of the environment, socio-economic and biological determinants on the state of health of an individual, family, population.
- SC21 – Ability to clearly and unambiguously convey one's own knowledge, conclusions and arguments on health care problems and related issues to specialists and non-specialists, in particular to people who are studying.
- SC24 – Adherence to ethical principles when working with patients and laboratory animals.
- SC25 – Adherence to professional and academic integrity, being responsible for the reliability of the obtained scientific results.
- SC26 – Ability to determine the management tactics of persons subject to dispensary supervision.

Expected learning outcomes. As a result of studying, the application's acquisition of the higher education must:

Have:

- PLO1 – Having a thorough knowledge of the structure of professional activity. Being able to carry out professional activities that require updating and integration of knowledge. To be responsible for professional development, the ability for further professional training with a high level of autonomy.
- PLO2 – Understanding and knowledge of basic and clinical biomedical sciences, at a level sufficient for solving professional tasks in the field of health care.
- PLO3 – . Specialized conceptual knowledge that includes scientific achievements in the field of health care and is the basis for conducting research, critical understanding of problems in the field of medicine and related interdisciplinary problems.
- PLO4 – Identifying leading clinical symptoms and syndromes (according to list 1); according to standard methods, using preliminary data of the patient's history, data of the patient's examination, knowledge about the person, his organs and systems, establish a preliminary clinical diagnosis of the disease (according to list 2)..
- PLO5 – Collecting complaints, history of life and diseases, assessing the psychomotor and physical development of the patient, the state of organs and systems of the body, based on the results of laboratory and instrumental studies, evaluation of the information regarding the diagnosis (according to list 4), taking into account the age of the patient..

- PLO6 – Establishing the final clinical diagnosis by making a reasoned decision and analyzing the received subjective and objective data of clinical, additional examination, carrying out differential diagnosis, observing the relevant ethical and legal norms, under the control of the managing physician in the conditions of the health care institution (according to the list 2).
- PLO7 – . Assigning and analyzing additional (mandatory and optional) examination methods (laboratory, functional and/or instrumental) (according to list 4) of patients with diseases of organs and body systems for differential diagnosis of diseases (according to list 2).
- PLO8 – Determination of the main clinical syndrome or symptom that determines the severity of the victim's/victim's condition (according to list 3) by making a reasoned decision about the person's condition under any circumstances (in the conditions of a health care facility, outside its borders), including in conditions of emergency and hostilities, in field conditions, in conditions of lack of information and limited time.
- PLO9 – Determination of the nature and principles of treatment (conservative, operative) of patients with diseases (according to list 2), taking into account the patient's age, in the conditions of a health care institution, outside its borders and at the stages of medical evacuation, including in field conditions, based on a preliminary clinical diagnosis, observing the relevant ethical and legal norms, by making a reasoned decision according to existing algorithms and standard schemes, in case of the need to expand the standard scheme, be able to justify personalized recommendations under the control of the head physician in the conditions of a medical institution.
- PLO10 – Determination of the necessary mode of work, rest and nutrition based on the final clinical diagnosis, observing the relevant ethical and legal norms, by making a reasoned decision according to existing algorithms and standard schemes.
- PLO12 – Assessment of the general condition of a newborn child by making a reasoned decision according to existing algorithms and standard schemes, observing the relevant ethical and legal norms.
- PLO13 – Assessment and monitoring of the child's physical and psychomotor development, provision of recommendations on feeding and nutritional features depending on age, and organization of preventive vaccinations according to the calendar.
- PLO14 – Determination of tactics and providing emergency medical care in emergencies (according to list 3) in limited time conditions according to existing clinical protocols and standards of treatment.
- PLO17 – Performing medical manipulations (according to list 5) in the conditions of a medical institution, at home or work based on a previous clinical diagnosis and/or indicators of the patient's condition by making a reasoned decision, observing the relevant ethical and legal norms.
- PLO21 – Searching for the necessary information in the professional literature and databases of other sources, analysing, evaluating and application of this information.
- PLO25 – Conveying one's knowledge, conclusions and arguments on health care problems and related issues to specialists and non-specialists clearly and unambiguously.
- PLO27 – Communication freely in the state language and English, both orally and in writing to discuss professional activities, research and projects.
- PLO30 – Determination of the management tactics of persons subject to dispensary supervision (children, pregnant women, workers whose professions require mandatory dispensary examination).

Expected learning outcomes. As a result of studying the discipline, the applicant of the higher education must:

Know: Algorithms of action in detecting anaphylactic shock, acute urticaria, Quincke's edema, allergic-toxic-dermatological syndromes, acute respiratory failure, broncho-obstructive syndrome and osmotic status.

Be able to:

- Determine tactics and provide emergency medical care for anaphylactic shock
- Determine the severity of violations of important systems of life
- Provide emergency care for acute urticaria
- Perform differential diagnosis of rash
- Determine tactics and provide emergency medical care for Quincke's edema
- Highlight symptoms that could threaten a child's life

- Determine tactics and provide emergency medical care for allergic-toxic-dermatological syndromes
- Assess the severity of the child's condition.
- Substantiate the clinical diagnosis
- Determine the doctor's tactics in acute respiratory failure
- Perform airway management and artificial ventilation skills using a mask and an Ambu bag on simulation equipment.
- Provide emergency care for acute respiratory failure
- Determine the doctor's tactics for broncho-obstructive syndrome
- Communicate with the parents of a child with complaints of a prolonged cough according to the algorithm of communication with the parents of a child with diseases foreign body in the respiratory tract cystic fibrosis, Lymphogranulomatosis
- Conduct a survey of the child's parents to determine the risk of the likelihood of bronchial asthma in the child.
- Determine tactics and provide emergency medical care for asthmatic status
- Conduct a clinical examination of children of all ages according to standard methods.
- Analysis of the results of laboratory, functional and instrumental studies.
- Conduct medical manipulations with common diseases in children.
- Maintain medical records for common illnesses in children

3. The content of the selective discipline Emergency conditions in pediatric allergology

Content module 1.

Topic 1. Anaphylactic shock . Pathophysiological mechanisms of dysfunction of the immune system in children. Etiological factors of anaphylactic shock. Clinic. Determining the severity of violations of important systems of life. Urgent care.

Topic 2. Acute urticaria. Etiology, pathogenesis, clinic. Differential diagnosis of rash. Treatment.

Topic 3. Quincke's edema Etiology, pathogenesis, clinic, differential diagnosis. Isolation of symptoms that may threaten the life of the child (swelling of the larynx). Urgent care. Treatment. Prevention.

Topic 4. Allergo-toxic-dermatological syndromes. *Allergo-toxic-dermatological syndromes* - Stevens-Johnson, Lyell. Etiology, pathogenesis, clinic, differential diagnosis of rash. Assessment of the severity of the child's condition. Substantiation of the clinical diagnosis. Urgent care.

Topic 5. Acute respiratory failure. Etiology, pathogenesis, classification, clinic, diagnostics, differential diagnostics, substantiation of clinical diagnosis. Providing emergency care. Performing the skill of ensuring airway patency and artificial ventilation of the lungs using a mask and an Ambu bag on simulation equipment.

Topic 6. Broncho-obstructive syndrome . Etiology, pathogenesis, classification, clinic, diagnostics. Differential diagnosis (stenosing laryngotracheitis, foreign body of the respiratory tract, asthma, cystic fibrosis). Mastering the practical skill of providing airway patency with a mask or Ambu bag on simulation equipment.

Topic 7. Asthmatic status. Etiology, pathogenesis, classification, clinic. Assessment of the severity of the condition based on the results of an objective and laboratory examination. Providing emergency care. Perform airway management with a mask or Ambu bag on simulation equipment.

Topic 8. Features of communication with parents. Processing communication skills of communication with the child's parents about the likelihood of having bronchial asthma in a child. Development of communication skills of communication with parents of a child with chronic cough. Providing emergency care.

4. The academic discipline structure

name the topic	Number of hours					
	Total	including				
		lectures	seminar s	practical	laboratory	IWS
Content module 1. Emergency conditions in pediatric allergology						
Topic 1. Anaphylactic shock . Pathophysiological mechanisms of dysfunction of the immune system in children. Etiological factors of anaphylactic shock. Clinic. Determining the severity of violations of important systems of life. Urgent care.	6	0	2	0	0	4
Topic 2. Acute urticaria. Etiology, pathogenesis, clinic. Differential diagnosis of rash. Treatment.	6	0	2	0	0	4
Topic 3. Quincke's edema Etiology, pathogenesis, clinic, differential diagnosis. Isolation of symptoms that may threaten the life of the child (swelling of the larynx). Urgent care. Treatment. Prevention.	6	0	2	0	0	4
Topic 4 Allergo-toxic-dermatological syndromes - Stevens-Johnson, Lyell. Etiology, pathogenesis, clinic, differential diagnosis of rash. Assessment of the severity of the child's	6	0	2	0	0	4

condition. Substantiation of the clinical diagnosis. Urgent care.						
<p>Topic 5</p> <p>Acute respiratory failure. Etiology, pathogenesis, classification, clinic, diagnostics, differential diagnostics, substantiation of clinical diagnosis. Providing emergency care. Performing the skill of ensuring airway patency and artificial ventilation of the lungs using a mask and an Ambu bag on simulation equipment.</p>	6	0	2	0	0	4
<p>Topic 6.</p> <p>Broncho-obstructive syndrome . Etiology, pathogenesis, classification, clinic, diagnostics. Differential diagnosis (stenosing laryngotracheitis, foreign body of the respiratory tract, asthma, cystic fibrosis). Mastering the practical skill of providing airway patency with a mask or Ambu bag on simulation equipment.</p>	6	0	2	0	0	4
<p>Topic 7.</p> <p>Asthmatic status. Etiology, pathogenesis, classification, clinic. Assessment of the severity of the condition based on the results of an objective and laboratory examination. Providing emergency care. Perform airway management with a mask or Ambu bag on simulation equipment.</p>	5	0	2	0	0	3

Topic 8. Features of communication with parents. Processing communication skills of communication with the child's parents about the likelihood of having bronchial asthma in a child. Development of communication skills of communication with parents of a child with chronic cough. Providing emergency care.	4	0	2	0	0	2
<i>Total content module 1</i>	45	0	16	0	0	29
<i>Individual tasks</i>	0	0	0	0	0	0
Total hours	45	0	16	0	0	29

5. Topics of lectures / seminars / practical / laboratory classes

5.1. Lecture Topics - not provided

5.2. Seminar Topics.

No.	Topic	Quantity. hours
1.	Topic 1. Anaphylactic shock . Pathophysiological mechanisms of dysfunction of the immune system in children. Etiological factors of anaphylactic shock. Clinic. Determining the severity of violations of important systems of life. Urgent care.	2
2.	Topic 2. Acute urticaria . Etiology, pathogenesis, clinic. Differential diagnosis of rash. Treatment.	2
3.	Topic 3. Quincke's edema Etiology, pathogenesis, clinic, differential diagnosis. Isolation of symptoms that may threaten the life of the child (swelling of the larynx). Urgent care. Treatment. Prevention.	2
4.	Topic 4 Allergo-toxic-dermatological syndromes. Allergo-toxic-dermatological syndromes - Stevens-Johnson, Lyell. Etiology, pathogenesis, clinic, differential diagnosis of rash. Assessment of the severity of the child's condition. Substantiation of the clinical diagnosis. Urgent care.	2
5.	Topic 5. Acute respiratory failure . Etiology, pathogenesis, classification, clinic, diagnostics, differential diagnostics, substantiation of clinical diagnosis. Providing emergency care. Performing the skill of ensuring airway patency and artificial ventilation of the lungs using a mask and an Ambu bag on simulation equipment.	2
6.	Topic 6. Broncho-obstructive syndrome . Etiology, pathogenesis, classification, clinic, diagnostics. Differential diagnosis (stenosing laryngotracheitis, foreign body of the respiratory tract, asthma, cystic fibrosis). Mastering the practical skill of providing airway patency with a mask or Ambu bag on simulation equipment.	2
7.	Topic 7. Asthmatic status . Etiology, pathogenesis, classification, clinic. Assessment of the severity of the condition based on the results of an objective	2

	and laboratory examination. Providing emergency care. Perform airway management with a mask or Ambu bag on simulation equipment.	
8.	Topic 8. Features of communication with parents. Processing communication skills of communication with the child's parents about the likelihood of having bronchial asthma in a child. Development of communication skills of communication with parents of a child with chronic cough. Providing emergency care.	2
	Total	16

5.3. Topics of practical classes - not provided

6. Independent work of a higher education applicant

No. g/n	Types of IWS	Number of hours
1	Preparation for the seminar: Anaphylactic shock. Pathophysiological mechanisms of dysfunction of the immune system in children. Etiological factors of anaphylactic shock. Clinic. Determining the severity of violations of important systems of life. Urgent care.	4
2	Preparation for the seminar: Acute urticaria. Etiology, pathogenesis, clinic. Differential diagnosis of rash. Treatment.	4
3	Preparation for the seminar: Quincke's edema Etiology, pathogenesis, clinic, differential diagnosis. Isolation of symptoms that may threaten the life of the child (swelling of the larynx). Urgent care. Treatment. Prevention.	4
4	Preparation for the seminar: Allergo-toxic-dermatological syndromes. Allergo-toxic-dermatological syndromes - Stevens-Johnson, Lyell. Etiology, pathogenesis, clinic, differential diagnosis of rash. Assessment of the severity of the child's condition. Substantiation of the clinical diagnosis. Urgent care.	4
5	Preparation for the seminar: Acute respiratory failure. Etiology, pathogenesis, classification, clinic, diagnostics, differential diagnostics, substantiation of clinical diagnosis. Providing emergency care. Performing the skill of ensuring airway patency and artificial ventilation of the lungs using a mask and an Ambu bag on simulation equipment.	4
6	Preparation for the seminar: Broncho-obstructive syndrome. Etiology, pathogenesis, classification, clinic, diagnostics. Differential diagnosis (stenosing laryngotracheitis, foreign body of the respiratory tract, asthma, cystic fibrosis). Mastering the practical skill of providing airway patency with a mask or Ambu bag on simulation equipment.	4
7	Preparation for the seminar: Asthmatic status. Etiology, pathogenesis, classification, clinic. Assessment of the severity of the condition based on the results of an objective and laboratory examination. Providing emergency care. Perform airway management with a mask or Ambu bag on simulation equipment.	3
8	Preparation for the seminar: Features of communication with parents. Processing communication skills of communication with the child's parents about the likelihood of having bronchial asthma in a child. Development of communication skills of communication with parents of a child with chronic cough. Providing emergency care.	2
	Total	29

9. Teaching methods

Seminars: discussion of theoretical issues , frontal survey on basic terminology, testing, role-playing games to master the communication skills of communicating with a sick child or his parents and providing emergency care for common allergic diseases in children (team work).

Independent work: studying the topics of the seminar for common allergic diseases in children.

Forms of control and evaluation methods (including criteria for assessing learning outcomes)

Current control: assessment of mastering the practical skills of communicating with a sick child and his parents with common diseases in children during a role-playing game.

Final control: test.

The structure of the current assessment at the seminar

- Evaluation of compliance with the communication algorithm during the role-playing game;
- maximum score - 5, minimum score - 3, unsatisfactory score - 2 .
- Evaluation of the purpose of additional examination methods and their interpretation
- maximum score - 5, minimum score - 3, unsatisfactory score - 2 ;
- Evaluation of the rationale for a preliminary or clinical diagnosis and determination of patient management tactics.
- maximum score - 5, minimum score - 3, unsatisfactory score - 2 ;

The grade for the lesson is the arithmetic average for all components and can only have an integer value, namely 5, 4, 3, 2.

Criteria for the current assessment at the seminar:

Excellent "5"	The applicant is fluent in the material, takes an active part in role-playing, discussing and solving a situational clinical problem, confidently demonstrates practical skills when examining a sick child and interpreting data from clinical, laboratory and instrumental studies, expresses his opinion on the topic of the lesson, and demonstrates clinical thinking.
Good "4"	The applicant has a good command of the material, takes part in a role-playing game, discusses and solves a situational clinical problem, demonstrates practical skills when examining a sick child and interpreting data from clinical, laboratory and instrumental studies with some errors, expresses his opinion on the topic of the lesson, and demonstrates clinical thinking.
Satisfactorily "3"	The applicant does not have enough knowledge of the material, hesitantly takes part in a role-playing game, discussing and solving a situational clinical problem, demonstrates practical skills when examining a sick child and interpreting data from clinical, laboratory and instrumental studies with significant errors.
Unsatisfactorily "2"	The applicant does not own the material, does not take part in a role-playing game, discussing and solving a situational clinical problem, does not demonstrate practical skills when examining a sick child and interpreting data from clinical, laboratory and instrumental studies.

9. Distribution of points received by applicants for higher education

The applicant for higher education is credited with optional discipline, provided there is no academic debt and an average current grade of at least 3.0.

10. Methodological support:

- The work program of the selective academic discipline
- Syllabus of selective academic discipline
- Tutorials:
- **Nelson textbook** of pediatrics, 2 volume set. **Edition : 21st** , 2019. PDF format. <http://pediacalls.com/e-books/nelson-textbook-of-pediatrics-21st-edition/>
- Педіатрія у двох томах, за редакцією Аряєва М.Л., Котової Н.В. Т2, Захворювання дітей раннього віку. Пульмонологія. Алергологія. Кардіологія. Гастроентерологія. Нефрологія. ВІЛ-інфекція. Первинна медико-санітарна допомога підручник 2014. – 312 с.
- Педіатрія. Диференційна діагностика. Невідкладні стани; за редакцією Аряєва М.Л., Котової Н.В. Одеса: ОНМедУ. – 2017. – 280 с.
- Педіатрія. Диференційна діагностика. Невідкладні стани за редакцією Аряєва М.Л., Котової Н.В., електронне видання на компакт-диску. ОНМедУ. – 2017
- multimedia presentations
- Test tasks
- Methodical development of seminars

11.Recommended literature

Basic:

1. **Nelson textbook** of pediatrics, 2 volume set. **Edition : 21st** , 2019. PDF format. <http://pediacalls.com/e-books/nelson-textbook-of-pediatrics-21st-edition/>
2. Chang AB, Marchant JM Approach to Chronic Cough in Children. - Literature review: Nov 18, 2020. – UpToDate: https://www.uptodate.com/contents/approach-to-chronic-cough-in-children?search=chronic%20cough%20in%20children&source=search_result&selectedTitle=1~150&usage_type=default&display_rank=1

Additional

1. Allergy Symptoms in Children. URL: <https://acaai.org/allergies/allergies-101/who-gets-allergies/children/>
2. Allergies in children. URL: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2805592/>
3. Chang AB, Marchant JM Approach to Chronic Cough in Children. - Literature review: Nov 18, 2020. – UpToDate: https://www.uptodate.com/contents/approach-to-chronic-cough-in-children?search=chronic%20cough%20in%20children&source=search_result&selectedTitle=1~150&usage_type=default&display_rank=1
4. Food Allergies in Children. URL: <https://www.hopkinsmedicine.org/health/conditions-and-diseases/food-allergies-in-children>
5. Seasonal Allergies in Children. URL: <https://www.healthychildren.org/English/health-issues/conditions/allergies-asthma/Pages/Seasonal-Allergies-in-Children.aspx>

12. Electronic information resources

1. <https://www.pediatrics.od.ua/>
2. <http://moz.gov.ua> – Ministry of Health of Ukraine
3. www.ama-assn.org - American Medical Association / American Medical Association

4. www.oapn.od.ua - NGO "Odesa Association of Pediatricians and Neonatologists"
5. www.who.int - World Health Organization
6. www.dec.gov.ua/mtd/home/ - State Expert Center of the Ministry of Health of Ukraine
7. <http://bma.org.uk> - British Medical Association
8. www.gmc-uk.org - *General Medical Council* (*GMC*)
9. www.bundesaerztekammer.de – German Medical Association
10. https://www.who.int/workforcealliance/members_partners/member_list/ipa/en/ - International Pediatric Association (IPA)
11. <http://pediacalls.com/e-books/nelson-textbook-of-pediatrics-21st-edition/>