

# SYLLABUS

## 1. General information on the course

<b>Full course name</b>	Childrens' Infections
<b>Full official name of a higher education institution</b>	Sumy State University
<b>Full name of a structural unit</b>	Academic and Research Medical Institute. Кафедра педіатрії
<b>Author(s)</b>	Smiian Kateryna Oleksandrivna
<b>Cycle/higher education level</b>	The Second Level Of Higher Education, National Qualifications Framework Of Ukraine – The 7th Level, QF-LLL – The 7th Level, FQ-EHEA – The Second Cycle
<b>Semester</b>	1 week during the 9th semester or 1 week during the 10th semester
<b>Workload</b>	The volume of the discipline is 1.5 ECTS credits, 45 hours, of which 30 hours is contact work with the teacher (30 practical classes)
<b>Language(s)</b>	Ukrainian, English

## 2. Place in the study programme

<b>Relation to curriculum</b>	Compulsory course available for study programme "Medicine"
<b>Prerequisites</b>	Krok-1
<b>Additional requirements</b>	There are no specific requirements
<b>Restrictions</b>	There are no specific restrictions

## 3. Aims of the course

The aim of the discipline is to achieve modern knowledge and professional skills in pediatric infectious diseases based on knowledge of etiology, epidemiology, pathogenesis of major infectious diseases of childhood, skills of clinical, laboratory and instrumental examination of the child, determining the main areas of treatment from the standpoint of evidence-based medicine anti-epidemic measures in compliance with the principles of medical ethics and deontology.

## 4. Contents

<b>Module 1. Acute intestinal infections and viral hepatitis</b>
Topic 1 Viral hepatitis A, B, C, D and others Etiology, epidemiological features, pathogenesis. Classification. Clinic of various forms. Laboratory diagnostics. Principles of treatment and prevention.

Topic 2 Shigellosis. Salmonellosis.

Etiology, epidemiology, pathogenesis. Classification. Clinic of typical forms in children of different ages. Complication. Laboratory diagnostics. Principles of treatment and prevention.

Topic 3 Escherichia coli. Intestinal yersiniosis. Rotavirus infection.

Escherichia coli. Intestinal yersiniosis. Rotavirus infection. Etiology, epidemiology, pathogenesis. Classification. Clinic of typical forms in children of different ages. Complication. Laboratory diagnostics. Principles of treatment and prevention. different forms. Laboratory diagnostics. Principles of treatment and prevention.

## **Module 2. Infectious diseases of the nervous system and ARVI in children**

Topic 4 Poliomyelitis. Enterovirus infection.

Etiology, epidemiology, pathogenesis. Classification. Clinic of various forms. Complication. Diagnosis. Consequences. Principles of treatment. Specific prevention and anti-epidemic measures in the center of infection.

Topic 5 Meningococcal infection.

Etiology, epidemiology, pathogenesis. Classification. Clinic of various forms. Complication. Diagnosis. Consequences. Principles of treatment. Specific prevention and anti-epidemic measures in the center of infection.

Topic 6 Influenza.

Etiology, epidemiological features, pathogenesis. Clinical forms of Complications. Diagnosis. Principles of treatment and prevention.

Topic 7 Acute respiratory viral infections (parainfluenza, adenoviral, respiratory syncytial, rhinovirus infection).

Etiology, epidemiological features, pathogenesis. Clinical forms of Complications. Diagnosis. Principles of treatment and prevention.

## **Module 3. Pediatric drip infections**

Topic 8 Measles. Rubella.

Etiology, epidemiology, pathogenesis, clinic of typical forms, complications Congenital rubella. Principles of treatment. Specific prevention. Anti-epidemic measures in the center of infection.

Topic 9 Varicella. Shingles.

Etiology, epidemiology, pathogenesis, clinic of typical forms, complications Congenital rubella. Principles of treatment. Specific prevention. Anti-epidemic measures in the center of infection.

Topic 10 Scarlet fever. Pseudotuberculosis.

Etiology, epidemiology, pathogenesis, clinic of typical forms, complications. Principles of treatment. Anti-epidemic measures in the center of infection.

Topic 11 Infectious mononucleosis.

Etiology, epidemiology, pathogenesis, clinic of typical forms, complications. Principles of treatment. Anti-epidemic measures in the center of infection.

<p>Topic 12 Diphtheria.</p> <p>Etiology, epidemiology, pathomorphological features of different forms. Classification, clinic of typical forms and complications. Diagnosis. Principles of treatment. Specific prevention and anti-epidemic measures in the center of infection.</p>
<p>Topic 13 Pertussis</p> <p>Etiology, epidemiology, pathomorphological features of different forms. Classification, clinic of typical forms and complications. Diagnosis. Principles of treatment. Specific prevention and anti-epidemic measures in the center of infection.</p>
<p>Topic 14 Mumps infection.</p> <p>Etiology, epidemiology, pathomorphological features of different forms. Classification, clinic of typical forms and complications. Diagnosis. Principles of treatment. Specific prevention and anti-epidemic measures in the center of infection.</p>
<p>Topic 15 Practice-oriented differentiated test</p> <p>Testing, polling, solving a practical case.</p>

### 5. Intended learning outcomes of the course

After successful study of the course, the student will be able to:

LO1	Skills in surveying and clinical examination of a patient Collect patient's complaint data, medical history, history of life (including occupational history) at a healthcare institution, its subdivision, or at patient's home, by means of a standard survey.
LO2	Ability to determine the required set of laboratory and instrumental studies and to evaluate their results Evaluate information about diagnosis at a healthcare institution or its subdivision by means of a standard procedure using knowledge about a human, his organs and systems, based on the results of laboratory and instrumental studies.
LO3	Ability to establish a provisional and clinical diagnosis of disease. Perform the following at a healthcare institution or its subdivision and among the assigned population.
LO4	Ability to determine the necessary mode of work and rest in the treatment course. Determine the necessary mode of work and rest in the treatment course at a healthcare institution, at patient's home and during medical evacuation, based on the provisional clinical diagnosis, using knowledge about a child, his organs and systems, observing the relevant ethical and legal norms, by making a reasonable decision according to existing algorithms and standard procedures.
LO5	Ability to determine a diet in the treatment course. Determine the necessary diet in the treatment course of diseases at a healthcare institution, at patient's home and during medical evacuation, based on the provisional clinical diagnosis, using knowledge about a human, his organs and systems and observing the relevant ethical and legal norms, by making a reasonable decision according to existing algorithms and standard procedures.

LO6	Ability to determine the principles of treatment and treatment modality. Determine the treatment mode (conservative, operative) for diseases at a healthcare institution, at patient's home and during medical evacuation, based on the provisional clinical diagnosis, using knowledge about a human, his organs and systems and observing the relevant ethical and legal norms, by making a reasonable decision according to existing algorithms and standard procedures. Determine the treatment approach for diseases at a healthcare institution, at patient's home and during medical evacuation (including in the field), based on the provisional clinical diagnosis, using knowledge about a human, his organs and systems and observing the relevant ethical and legal norms, by making a reasonable decision according to existing algorithms and standard procedures.
LO7	Ability to diagnose medical emergencies. Establish a diagnosis by making a reasonable decision based on evaluation of the person's state, using standard methods of physical examination and possible history data, the knowledge about a human, his organs and systems, and observing the relevant ethical and legal norms under any circumstances (at home, in the street, at a healthcare facility), including under emergency and military operation conditions, in the field, with a lack of information and limited time.
LO8	Ability to determine the approach to emergency medical care. Determine the appropriate approach in emergency medical care case under any circumstances, using the knowledge about a human, his organs and systems and observing the relevant ethical and legal norms, by making a reasonable decision based on the medical emergency diagnosis using standard schemes under limited time conditions.
LO9	Skills in emergency medical procedures. Provide emergency medical assistance under any circumstances, using the knowledge about a human, his organs and systems and observing the relevant ethical and legal norms, by making a reasonable decision based on the medical emergency diagnosis using standard schemes under limited time conditions.
LO11	Skills in performing medical procedures. Perform medical procedures at a medical facility, at home or at work by making a reasonable decision on the basis of a provisional clinical diagnosis and/or health parameters using the knowledge about a human, his organs and systems and observing the relevant ethical and legal norms.
LO13	Ability to perform sanitary and preventive measures.
LO14	Ability to plan and conduct preventive and disease control measures for infectious diseases.
LO15	Ability to manage the patients who are subject to dispensary monitoring. Perform the following at a healthcare institution or at patient's home using the knowledge about a human, his organs and systems and observing the relevant ethical and legal norms, by making a reasonable decision based on the patient health data.
LO16	Ability to perform disability examination. Detect disability and determine the degree of daily activity limitation, disability type, severity and duration as well as to maintain relevant documents at a healthcare institution on the basis of the data on disease course and professional activity of the person.

LO17	Ability to maintain medical records. Perform the following at a healthcare institution or its subdivision: prepare annual reports on personal work activity using official accounting documents, in a generalized form; maintain medical records related to patients and cohorts (outpatient/inpatient records, medical history, sanatorium and health resort card form, temporary disability leave, sociomedical assessment documentation, etc.), using standard technique based on regulations.
LO18	Ability to conduct epidemiological and medical-statistical research of public health; ability to process governmental, social, economic, and medical information.
LO19	Ability to assess the influence of environment, socio-economic and biological determinants on the health of a person, family, or population.

## 6. Role of the course in the achievement of programme learning outcomes

Programme learning outcomes achieved by the course.

For 222 Medicine:

PO1	Skills in surveying and clinical examination of a patient.
PO2	Ability to determine the required set of laboratory and instrumental studies and to evaluate their results.
PO3	Ability to establish a provisional and clinical diagnosis of disease.
PO4	Ability to determine the necessary mode of work and rest in the treatment course.
PO5	Ability to determine a diet in the treatment course.
PO6	Ability to determine the principles of treatment and treatment modality.
PO7	Ability to diagnose medical emergencies.
PO8	Ability to determine the approach to emergency medical care.
PO9	Skills in emergency medical procedures.
PO10	Ability to conduct medical evacuation procedures.
PO13	Ability to perform sanitary and preventive measures.
PO14	Ability to plan and conduct preventive and disease control measures for infectious diseases.
PO15	Ability to manage the patients who are subject to dispensary monitoring.
PO17	Ability to maintain medical records.
PO18	Ability to conduct epidemiological and medical-statistical research of public health; ability to process governmental, social, economic, and medical information.
PO19	Ability to assess the influence of environment, socio-economic and biological determinants on the health of a person, family, or population.
PO21	Ability to carry out measures for organization and integration of public medical care and marketing of medical service.

## 7. Teaching and learning activities

### 7.1 Types of training

**Topic 1. Viral hepatitis A, B, C, D and others**

pr.tr.1 "Viral hepatitis A, B, C, D and others" (full-time course)

Etiology, epidemiological features, pathogenesis. Classification. Clinic of various forms. Laboratory diagnostics. Principles of treatment from the standpoint of evidence-based medicine and prevention. The study of this topic involves theoretical work in the classroom in the absence of quarantine restrictions work at the patient's bedside in the specialized department (according to the agreement on cooperation between the medical institution and the university). In addition, the study of this topic involves role-playing games. Interpretation of results of laboratory (clinical blood test, biochemical blood test, results of immunological tests) test methods.

**Topic 2. Shigellosis. Salmonellosis.**

pr.tr.2 "Shigellosis. Salmonellosis." (full-time course)

Etiology, epidemiology, pathogenesis. Classification. Clinic of typical forms in children of different ages. Complication. Laboratory diagnostics. Principles of treatment from the standpoint of evidence-based medicine and prevention. The study of this topic involves theoretical work in the classroom in the absence of quarantine restrictions work at the patient's bedside in the specialized department (according to the agreement on cooperation between the medical institution and the university).

**Topic 3. Escherichia coli. Intestinal yersiniosis. Rotavirus infection.**

pr.tr.3 "Escherichia coli. Intestinal yersiniosis. Rotavirus infection." (full-time course)

Etiology, epidemiology, pathogenesis. Classification. Clinic of typical forms in children of different ages. Complication. Laboratory diagnostics. Principles of treatment from the standpoint of evidence-based medicine and prevention. different forms. Laboratory diagnostics. Principles of treatment and prevention. The study of this topic involves theoretical work in the classroom in the absence of quarantine restrictions work at the patient's bedside in the specialized department (according to the agreement on cooperation between the medical institution and the university).

**Topic 4. Poliomyelitis. Enterovirus infection.**

pr.tr.4 "Poliomyelitis. Enterovirus infection." (full-time course)

Etiology, epidemiology, pathogenesis. Classification. Clinic of various forms. Complication. Diagnosis. Consequences. Principles of treatment from the standpoint of evidence-based medicine. Specific prevention and anti-epidemic measures in the center of infection. The study of this topic involves theoretical work in the classroom in the absence of quarantine restrictions work at the patient's bedside in the specialized department (according to the agreement on cooperation between the medical institution and the university).

**Topic 5. Meningococcal infection.**

pr.tr.5 "Meningococcal infection." (full-time course)

Etiology, epidemiology, pathogenesis. Classification. Clinic of various forms. Complication. Diagnosis. Consequences. Principles of treatment from the standpoint of evidence-based medicine. Specific prevention and anti-epidemic measures in the center of infection. The study of this topic involves theoretical work in the classroom in the absence of quarantine restrictions work at the patient's bedside in the specialized department (according to the agreement on cooperation between the medical institution and the university). Interpretation of results of laboratory (clinical analysis of blood, cerebrospinal fluid, biochemical analysis of blood, results of bacteriological researches) methods of inspection.

**Topic 6. Influenza.**

pr.tr.6 "Influenza." (full-time course)

Etiology, epidemiological features, pathogenesis. Clinical forms of Complications. Diagnosis. Principles of treatment from the standpoint of evidence-based medicine and prevention. The study of this topic involves theoretical work in the classroom in the absence of quarantine restrictions work at the patient's bedside in the specialized department (according to the agreement on cooperation between the medical institution and the university). In addition, the study of this topic provides role-playing games.

**Topic 7. Acute respiratory viral infections (parainfluenza, adenoviral, respiratory syncytial, rhinovirus infection).**

pr.tr.7 "Acute respiratory viral infections (parainfluenza, adenoviral, respiratory syncytial, rhinovirus infection)." (full-time course)

Etiology, epidemiological features, pathogenesis. Clinical forms of Complications. Diagnosis. Principles of treatment from the standpoint of evidence-based medicine and prevention. The study of this topic involves theoretical work in the classroom in the absence of quarantine restrictions work at the patient's bedside in the specialized department (according to the agreement on cooperation between the medical institution and the university). Drawing up a treatment plan. The use of virtual simulation (watching movies with symptoms of stenotic laryngitis and obstructive bronchitis) with further discussion.

**Topic 8. Measles. Rubella.**

pr.tr.8 "Measles. Rubella." (full-time course)

Etiology, epidemiology, pathogenesis, clinic of typical forms, complications Congenital rubella. Principles of treatment from the standpoint of evidence-based medicine. Specific prevention. Anti-epidemic measures in the center of infection. The study of this topic involves theoretical work in the classroom in the absence of quarantine restrictions work at the patient's bedside in the specialized department (according to the agreement on cooperation between the medical institution and the university).

**Topic 9. Varicella. Shingles.**

pr.tr.9 "Varicella. Shingles." (full-time course)

Etiology, epidemiology, pathogenesis, clinic of typical forms, complications Congenital rubella. Principles of treatment from the standpoint of evidence-based medicine. Specific prevention. Anti-epidemic measures in the center of infection. The study of this topic involves theoretical work in the classroom in the absence of quarantine restrictions work at the patient's bedside in the specialized department (according to the agreement on cooperation between the medical institution and the university).

**Topic 10. Scarlet fever. Pseudotuberculosis.**

pr.tr.10 "Scarlet fever. Pseudotuberculosis." (full-time course)

Etiology, epidemiology, pathogenesis, clinic of typical forms, complications. Principles of treatment from the standpoint of evidence-based medicine. Anti-epidemic measures in the center of infection. The study of this topic involves theoretical work in the classroom in the absence of quarantine restrictions work at the patient's bedside in the specialized department (according to the agreement on cooperation between the medical institution and the university).

**Topic 11. Infectious mononucleosis.**

pr.tr.11 "Infectious mononucleosis." (full-time course)

Etiology, epidemiology, pathogenesis, clinic of typical forms, complications. Principles of treatment from the standpoint of evidence-based medicine. Anti-epidemic measures in the center of infection. The study of this topic involves theoretical work in the classroom in the absence of quarantine restrictions work at the patient's bedside in the specialized department (according to the agreement on cooperation between the medical institution and the university). Interpretation of results of laboratory (clinical blood test, biochemical blood test, results of immunological tests) test methods.

**Topic 12. Diphtheria.**

pr.tr.12 "Diphtheria." (full-time course)

Etiology, epidemiology, pathomorphological features of different forms. Classification, clinic of typical forms and complications. Diagnosis. Principles of treatment from the standpoint of evidence-based medicine. Specific prevention and anti-epidemic measures in the center of infection. The study of this topic involves theoretical work in the classroom in the absence of quarantine restrictions work at the patient's bedside in the specialized department (according to the agreement on cooperation between the medical institution and the university). In addition, the study of this topic involves role-playing games.

**Topic 13. Pertussis**

pr.tr.13 "Pertussis." (full-time course)

Etiology, epidemiology, pathomorphological features of different forms. Classification, clinic of typical forms and complications. Diagnosis. Principles of treatment from the standpoint of evidence-based medicine. Specific prevention and anti-epidemic measures in the center of infection. The study of this topic involves theoretical work in the classroom in the absence of quarantine restrictions work at the patient's bedside in the specialized department (according to the agreement on cooperation between the medical institution and the university). Using a virtual simulation (watching movies with symptoms of whooping cough) followed by discussion.



<b>Topic 14. Mumps infection.</b>
pr.tr.14 "Mumps infection." (full-time course) Etiology, epidemiology, pathomorphological features of different forms. Classification, clinic of typical forms and complications. Diagnosis. Principles of treatment from the standpoint of evidence-based medicine. Specific prevention and anti-epidemic measures in the center of infection. The study of this topic involves theoretical work in the classroom in the absence of quarantine restrictions work at the patient's bedside in the specialized department (according to the agreement on cooperation between the medical institution and the university).
<b>Topic 15. Practice-oriented differentiated test</b>
pr.tr.15 "Practice-oriented differentiated test" (full-time course) Testing, polling, solving a practical case.

## 7.2 Learning activities

LA1	Analysis of clinical cases
LA2	Preparation for practical classes
LA3	E-learning in systems (Meet, MIX.sumdu.edu.ua)
LA4	Self-study
LA5	Solving situational problems
LA6	Watching movies
LA7	Work with textbooks and relevant information sources
LA8	Participation in discussion (group and pair)
LA9	Preparing for Krok 2
LA10	Interpretation of laboratory (clinical analysis of blood, urine, cerebrospinal fluid, biochemical analysis of blood, serological and immunological tests, coprogram, bacteriological examination of biological fluids and secretions) methods of examination.

## 8. Teaching methods

Course involves learning through:

TM1	Case-based learning (CBL)
TM3	Research-based learning (RBL).
TM4	Educational discussion / debate
TM6	Think-pair-share
TM8	Case-study

The discipline is taught using modern teaching methods (CBL, TBL, RBL), which not only promote the development of professional skills, but also stimulate creative and scientific activities and are aimed at training practice-oriented professionals.

The discipline provides students with the following soft skills: LC 1. Ability to abstract thinking, analysis and synthesis. LC 2. Ability to learn and master modern knowledge.. LC 3. Ability to apply knowledge in practice. LC 4. Knowledge and understanding of the subject area and professional activity comprehension. LC 5. Ability to adapt and act in a new situation. LC 6. Ability to make reasoned decisions. LC 7. Ability to work as a team member. LC 8. Interpersonal skills. LC 11. Skills in information and communication technologies. LC 12. Determination and persistence on the tasks and commitments undertaken.

## 9. Methods and criteria for assessment

### 9.1. Assessment criteria

Definition	National scale	Rating scale
Outstanding performance without errors	5 (Excellent)	$170 \leq RD \leq 200$
Above the average standard but with minor errors	4 (Good)	$140 \leq RD < 169$
Fair but with significant shortcomings	3 (Satisfactory)	$120 \leq RD < 139$
Fail – some more work required before the credit can be awarded	2 (Fail)	$0 \leq RD < 119$

### 9.2 Formative assessment

FA1	Testing
FA3	Teacher's instructions in the process of performing practical tasks
FA4	Interviews and oral comments of the teacher on his results
FA5	Discussion and self-correction of the work done by students
FA6	Solving situational problems

### 9.3 Summative assessment

SA1	Interviewing, testing, solving a clinical case
SA2	Final control: practice-oriented differentiated test (according to the regulations)

Form of assessment:

<b>9 semester</b>		<b>200 scores</b>
SA1. Interviewing, testing, solving a clinical case		<b>120</b>
	Oral questioning, solving situational problems, current computer testing, writing and defense of abstract and analytical-review tasks	120
SA2. Final control: practice-oriented differentiated test (according to the regulations)		<b>80</b>
	Oral questioning, current computer testing.	80

Form of assessment (special cases):

<b>9 semester</b>	<b>200 scores</b>
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SA1. Interviewing, testing, solving a clinical case		<b>120</b>
	In case of quarantine restrictions, practical classes are conducted remotely using the platform Mix.sumdu.edu.ua, Zoom, Google meet. In case of quarantine restrictions, the writing and defense of the abstract and analytical-review task is carried out remotely using the platform Mix.sumdu.edu.ua, Zoom, Google meet.	120
SA2. Final control: practice-oriented differentiated test (according to the regulations)		<b>80</b>
	In the case of quarantine restrictions, the differentiated test is performed remotely using Zoom, Google meet, Mix.sumdu.edu.ua.	80

When mastering the materials of the student's discipline, a maximum of 5 points is assigned for each practical lesson (the grade is set in the traditional 4-point grading system). At the end of the discipline is calculated arithmetic mean of student performance. The maximum number of points that a student can get in practical classes during the semester - 120. The number of student points is calculated by the formula 120 multiplied by the arithmetic mean and divided by 5. For writing an abstract assignments are assigned the following points: "5" - 5 points, "4" - 4 points, "3" - 3 points, "2" - 0 points. The maximum number of points for the current educational activity of the student is 120. The student is admitted to the differentiated test provided that the requirements of the curriculum are met and if he scored at least 72 points for the current educational activity. Differentiated credit is made according to the schedule for the last lesson. Test control includes 30 test tasks: 100-91% of correct answers - grade "5", 81-90% of correct answers - grade "4", 60-80% of correct answers - grade "3". Oral answer or written work, which includes 6 questions: the first - the solution of a complex structured situational problem, the second question - classification and severity of various diseases, the third question - anti-epidemic measures for various infections, the fourth question - diagnostic clinical and laboratory criteria for various diseases, n question - treatment, the sixth question - to write a prescription. Students are assessed on a traditional scale ("5", "4", "3", "2"). The maximum number of points that a student can score during the final module control is 80. The final module control is credited if the student scored at least 60% of the maximum amount of points for the final module control. The minimum number of points that a student must score for the final module control is 48. The grade in the discipline is defined as the sum of points for current educational activities and points of the final module control.

## 10. Learning resources

### 10.1 Material and technical support

MTS1	Library funds, archive of results of laboratory methods of inspection
MTS2	Information and communication systems
MTS3	Computers, computer systems and networks
MTS4	Municipal non-profit enterprise "Children`s Clinical Hospital of Saint Zinaida" Sumy City Council
MTS5	Multimedia, video and sound reproduction, projection equipment (video cameras, projectors, laptop screens)
MTS6	Software (to support distance learning)

MTS8	Projection equipment
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## 10.2 Information and methodical support

<b>Essential Reading</b>	
1	Pediatric Infectious Diseases [Текст] : textbook / S. O. Kramarev, O. B. Nadraga, L. V. Pipa etc. — 4-th edition. — Kyiv : AUS Medicine Publishing, 2020. — 240 p. + Гриф МОЗ.
2	Manual of Children's Infectious Diseases [Текст] = Дитячі інфекційні хвороби : навч. посіб. / O. Ye. Fedortsiv, I. L. Horishna, H. A. Pavlyshyn, I. M. Horishnyi. — Vinnitsia : Nova Knyha, 2020. — 440 p.
3	Methodical instructions for practical lessons "Children infectious diseases. Measles" [Текст] : for students of specialty 7.110101 of full-time studying / O. I. Smiyan, T. P. Bynda, Iu. A. Mozgova, K. O. Smiian-Horbunova. — Sumy : Sumy State University, 2017. — 59 p.
4	Methodological instructions for practical lessons "Scarlet fever" on the discipline "Childhood infections" [Текст] : in accordance with the conditions of the Bologna process for students of specialty 222 "Medicine" of full-time training / O. I. Smiyan, T. P. Bynda, K. O. Smiian-Horbunova, O. G. Vasilyeva. — Sumy : Sumy State University, 2019. — 54 p.
5	Methodological instructions for practical lessons "Pertussis" on the discipline "Childhood Infections" (in accordance with the conditions of the Bologna process) [Текст] : for students of specialty 222 "Medicine" of full-time training / O. I. Smiyan, T. P. Bynda, K. O. Smiian, O. G. Vasilyeva. — Sumy : Sumy State University, 2020. — 57 p.
<b>Supplemental Reading</b>	
1	Methodological instructions for practical lessons "Diphtheria" on the discipline "Childhood Infections" (in accordance with the conditions of the Bologna process) [Текст] : for students of specialty 222 "Medicine" of full-time training / O. I. Smiyan, T. P. Bynda, O. G. Vasilyeva, K. O. Smiian. — Sumy : Sumy State University, 2020. — 83 p.
2	Infant and Young Child Nutrition (0–23 months) : recommendations [Текст] / O. V. Katilov, A. V. Varzar', O. Yu. Belousova etc. — Vinnytsia : Nova Knyha, 2019. — 64 p.
3	Methodical instructions for practical lesson on the topic "Viral hepatitis" on the discipline "Children infectious diseases" (in accordance with the conditions of the Bologna process) [Текст] : for students of specialty 222 "Medicine" of full-time training / O. I. Smiyan, T. P. Bynda, K. O. Smiian. — Sumy : Sumy State University, 2021. — 79 p.
4	Children infectious diseases. Methodical instructions for practical lessons. "Poliomyelitis" [Електронний ресурс] : for students specialty 7.110101 of full-time studying / O. I. Smiyan, T. P. Bynda, O. G. Vasilyeva. — Електронне видання каф. педіатрії післядипломної освіти. — Sumy : Sumy State University, 2015. — 50 p.

5	Methodological instructions for practical lessons "Rubella" on the discipline "Childhood infections" [Текст] : in accordance with the conditions of the Bologna process for students of specialty 222 "Medicine" of full-time training / O. I. Smiyan, T. P. Bynda, K. O. Smiian-Horbunova. — Sumy : Sumy State University, 2018. — 53 p.
<b>Web-based and electronic resources</b>	
1	<a href="https://www.who.int/">https://www.who.int/</a> World Health Organization
2	<a href="https://moz.gov.ua/">https://moz.gov.ua/</a> Міністерство охорони здоров'я України
3	<a href="https://www.ecdc.europa.eu/en">https://www.ecdc.europa.eu/en</a> European Centre for Disease Prevention and Control
4	<a href="https://www.nlm.nih.gov/">https://www.nlm.nih.gov/</a> U. S. National Library of Medicine
5	<a href="https://pubmed.ncbi.nlm.nih.gov/">https://pubmed.ncbi.nlm.nih.gov/</a> PubMed
6	<a href="https://www.who.int/wer/en/">https://www.who.int/wer/en/</a> Weekly Epidemiological Record
7	<a href="https://www.cdc.gov/">https://www.cdc.gov/</a> Centers for Disease Control and Prevention