

**"Approved"**  
**at the methodical meeting**  
**educational and scientific**  
**Department of Pediatrics Academic and Research**  
**Medical Institute of Sumy State University**  
**protocol N \_\_\_\_\_**  
**from “ \_\_\_\_\_ “ \_\_\_\_\_ 20 \_\_\_\_\_**

### **Methodical development**

**practical lesson on the discipline "Clinical aspects of immunoprophylaxis"**

**Topic: The place of immunoprophylaxis in the system of preventive and anti-epidemic measures. Modern aspects of immunoprophylaxis.**

**Place of work: KNP SMR "City Children's Clinical Hospital of St. Zinaida", study room.**

**The number of hours is 2.**

#### **Questions for self-training**

1. The concept of immunoprophylaxis
2. Immunological structure of the population.
3. Criteria for assessing immunity to infectious diseases.
4. Types of immunization.
5. Types of vaccines.
6. Ways and methods of administering vaccines.
7. The vaccination algorithm.
8. Action algorithm after immunization.
9. Transportation of vaccines .
10. Conditions of stability of vaccines .
11. Storage of vaccines .
12. Thermal indicators of vaccines .

#### **Essential Reading**

1. Manual of Children's Infectious Diseases [Текст] = Дитячі інфекційні хвороби : навч. посіб. / О. Ye. Fedortsiv, I. L. Horishna, H. A. Pavlyshyn, I. M. Horishnyi. — Vinnitsia : Nova Knyha, 2020. — 440 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, 2020. — 64 p.

3. 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.

### **Supplemental Reading**

1. 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.
2. Epidemiology of infectious diseases: textbook / ND Yushchuk, Yu. V. Martynov, EV Kukhtevich, Yu. Yu. Grishina. - 3rd ed. revised and add. - ed. "GEOTAR-Media". - 2016. - 496 p.
3. Infectious diseases and epidemiology: textbook / V. I. Pokrovsky, N. I. Briko, B. K. Danilkin. - 3rd ed., Rev. and add. - М.: GEOTAR-Media.- 2016.- 1008 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.
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6. 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.
7. 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.
8. 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.

9. 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.

### **Web-based and electronic resources**

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### **Methodical development**

**practical lesson on the discipline "Clinical aspects of immunoprophylaxis"**

**Topic: Active immunoprophylaxis preparations.**

**Place of work: KNP SMR "City Children's Clinical Hospital of St. Zinaida", study room.**

**The number of hours is 2.**

#### **Questions for self-training**

1. Classification of vaccines, composition of preparations for active immunoprophylaxis.
2. Storage and transportation of vaccines. Pharmacovigilance of vaccines: global guidelines for the supervision of AEAI, messages, priority signals for investigation, final classification.
3. Criteria for assessing the post-vaccination period. Classification of adverse events after immunization.
4. Organization of AEAI monitoring. System of registration, accounting and notification of AEAI. AEAI investigation system.
5. The main legislative acts that guarantee social justice in relation to persons who have developed AEAI.
6. Organization of support for immunoprophylaxis in society: conducting situational analysis and cooperation with community leaders, public figures and religious leaders, establishing friendly, trusting relations with the population and the community, training of health workers in communication skills, use of various information channels, work with the media in case of crisis situations

#### **Essential Reading**

1. Manual of Children's Infectious Diseases [Текст] = Дитячі інфекційні хвороби : навч. посіб. / О. Ye. Fedortsiv, I. L. Horishna, H. A. Pavlyshyn, I. M. Horishnyi. — Vinnitsia : Nova Knyha, 2020. — 440 p.

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### **Supplemental Reading**

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### **Methodical development**

**practical lesson on the discipline "Clinical aspects of immunoprophylaxis"**

**Topic: Immunoprophylaxis of hepatitis A and B.**

**Place of work: KNP SMR "City Children's Clinical Hospital of St. Zinaida", study room.**

**The number of hours is 2.**

#### **Questions for self-training**

1. The incidence of viral hepatitis in Ukraine.
2. Who is more often sick with viral hepatitis A and B?
3. Disease risk factors.
4. The purpose of hepatitis A and hepatitis B immunoprophylaxis.
5. Drugs for active immunoprophylaxis of hepatitis A and hepatitis B.
6. Vaccination schemes and routes of administration of vaccines against hepatitis A and B.
7. Contraindications to vaccination against hepatitis A and hepatitis B.
8. Reactions to the administration of vaccines.
9. Complications after vaccination.
10. Effectiveness of vaccination and duration of protection against hepatitis A and B.
11. Immunoprophylaxis of contacts.
12. Vaccination of pregnant women and children who have fallen ill.

#### **Essential Reading**

2. Manual of Children's Infectious Diseases [Текст] = Дитячі інфекційні хвороби : навч. посіб. / О. Ye. Fedortsiv, I. L. Horishna, H. A. Pavlyshyn, I. M. Horishnyi. — Vinnitsia : Nova Knyha, 2020. — 440 p.
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### **Supplemental Reading**

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.
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### **Methodical development**

**practical lesson on the discipline "Clinical aspects of immunoprophylaxis"**

**Topic: Immunoprophylaxis of diphtheria and pertussis.**

**Place of work: KNP SMR "City Children's Clinical Hospital of St. Zinaida", study room.**

**The number of hours is 2.**

#### **Questions for self-training**

1. 1 The incidence of diphtheria, whooping cough and tetanus in Ukraine.
2. What is the danger of diphtheria, whooping cough and tetanus.
3. Purpose of immunization against diphtheria, pertussis and tetanus.
4. Preparations for active immunoprophylaxis of diphtheria, whooping cough and tetanus.
5. Vaccination schemes and administration of vaccines.
6. Contraindications to vaccination against diphtheria, pertussis and tetanus.
7. Reactions to the administration of vaccines.
8. Possible complications after vaccination.
9. Vaccination effectiveness and duration of protection.
10. Vaccination of contacts.
11. How should those who have contracted diphtheria, whooping cough and tetanus be vaccinated?

#### **Essential Reading**

3. Manual of Children's Infectious Diseases [Текст] = Дитячі інфекційні хвороби : навч. посіб. / О. Ye. Fedortsiv, I. L. Horishna, H. A. Pavlyshyn, I. M. Horishnyi. — Vinnitsia : Nova Knyha, 2020. — 440 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, 2020. — 64 p.

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### **Supplemental Reading**

5. 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.
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### **Methodical development**

**practical lesson on the discipline "Clinical aspects of immunoprophylaxis"**

**Topic: Immunoprophylaxis of tuberculosis.**

**Place of work: KNP SMR "City Children's Clinical Hospital of St. Zinaida",  
study room.**

**The number of hours is 2.**

#### **Questions for self-training**

1. The incidence of tuberculosis in Ukraine.
2. Who gets tuberculosis more often?
3. How dangerous is tuberculosis?
4. Disease risk factors.
5. What is the purpose of vaccination against tuberculosis?
6. What drugs are used for active immunoprophylaxis of tuberculosis.
7. Vaccination schemes and administration of vaccines.
8. Contraindications to BCG vaccination.
9. Reactions to BCG vaccine administration.
10. Vaccination complications are possible.
11. Effectiveness of vaccination and duration of protection.

#### **Essential Reading**

4. Manual of Children's Infectious Diseases [Текст] = Дитячі інфекційні хвороби : навч. посіб. / О. Ye. Fedortsiv, I. L. Horishna, H. A. Pavlyshyn, I. M. Horishnyi. — Vinnitsia : Nova Knyha, 2020. — 440 p.
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### **Supplemental Reading**

7. 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.
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### **Methodical development**

**practical lesson on the discipline "Clinical aspects of immunoprophylaxis"**

**Topic: Immunoprophylaxis of poliomyelitis.**

**Place of work: KNP SMR "City Children's Clinical Hospital of St. Zinaida", study room.**

**The number of hours is 2.**

#### **Questions for self-training**

13. The incidence of poliomyelitis in Ukraine.
14. What is the danger of poliomyelitis.
15. The goal of active poliomyelitis immunoprophylaxis on a global scale.
16. Preparations for active immunoprophylaxis of poliomyelitis.
17. Vaccination schemes and routes of administration of vaccines against poliomyelitis.
18. Contraindications to vaccination against poliomyelitis.
19. Reactions to the administration of vaccines.
20. Possible complications after vaccination.
21. Vaccination effectiveness and duration of protection.
22. Vaccination of contacts.
23. Vaccination of children with poliomyelitis.

#### **Essential Reading**

5. Manual of Children's Infectious Diseases [Текст] = Дитячі інфекційні хвороби : навч. посіб. / О. Ye. Fedortsiv, I. L. Horishna, H. A. Pavlyshyn, I. M. Horishnyi. — Vinnitsia : Nova Knyha, 2020. — 440 p.
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### **Supplemental Reading**

9. 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.
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7. 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.
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### **Methodical development**

**practical lesson on the discipline "Clinical aspects of immunoprophylaxis"**

**Topic: Immunoprophylaxis of influenza.**

**Place of work: KNP SMR "City Children's Clinical Hospital of St. Zinaida", study room.**

**The number of hours is 2.**

#### **Questions for self-training**

24. The incidence of influenza in Ukraine.
25. How dangerous are flu.
26. The goal of active immunoprophylaxis of influenza.
27. Preparations for active immunoprophylaxis of influenza.
28. Vaccination schemes and routes of administration of vaccines against influenza.
29. Contraindications to vaccination against influenza.
30. Reactions to the administration of vaccines.
31. Possible complications after vaccination.
32. Vaccination effectiveness and duration of protection.
33. Vaccination of contacts.
34. Vaccination of children who have contracted influenza.

#### **Essential Reading**

6. Manual of Children's Infectious Diseases [Текст] = Дитячі інфекційні хвороби : навч. посіб. / О. Ye. Fedortsiv, I. L. Horishna, H. A. Pavlyshyn, I. M. Horishnyi. — Vinnitsia : Nova Knyha, 2020. — 440 p.
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### **Supplemental Reading**

11. 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.
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### **Methodical development**

**practical lesson on the discipline "Clinical aspects of immunoprophylaxis"**

**Topic: Immunoprophylaxis of tetanus.**

**Place of work: KNP SMR "City Children's Clinical Hospital of St. Zinaida", study room.**

**The number of hours is 2.**

#### **Questions for self-training**

- 12.1 The incidence of tetanus in Ukraine.
13. What is the danger of tetanus.
14. Purpose of immunization against tetanus.
15. Preparations for active immunoprophylaxis of tetanus.
16. Vaccination schemes and administration of vaccines.
17. Contraindications to vaccination against tetanus.
18. Reactions to the administration of vaccines.
19. Possible complications after vaccination.
20. Vaccination effectiveness and duration of protection.
21. Vaccination of contacts.
22. How should those who have contracted tetanus be vaccinated?

#### **Essential Reading**

7. Manual of Children's Infectious Diseases [Текст] = Дитячі інфекційні хвороби : навч. посіб. / О. Ye. Fedortsiv, I. L. Horishna, H. A. Pavlyshyn, I. M. Horishnyi. — Vinnitsia : Nova Knyha, 2020. — 440 p.
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### **Supplemental Reading**

13. 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.
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### **Methodical development**

**practical lesson on the discipline "Clinical aspects of immunoprophylaxis"**

**Topic: Immunoprophylaxis of rotavirus infection.**

**Place of work: KNP SMR "City Children's Clinical Hospital of St. Zinaida", study room.**

**The number of hours is 2.**

#### **Questions for self-training**

35. The incidence of rotavirus infection in Ukraine.
36. What is the danger rotavirus infection.
37. The goal of active immunoprophylaxis of rotavirus infection.
38. Preparations for active immunoprophylaxis of rotavirus infection.
39. Vaccination schemes and routes of administration of vaccines against rotavirus infection.
40. Contraindications to vaccination against rotavirus infection.
41. Reactions to the administration of vaccines.
42. Possible complications after vaccination.
43. Vaccination effectiveness and duration of protection.
44. Vaccination of contacts.
45. Vaccination of children who have had rotavirus infection.

#### **Essential Reading**

8. Manual of Children's Infectious Diseases [Текст] = Дитячі інфекційні хвороби : навч. посіб. / О. Ye. Fedortsiv, I. L. Horishna, H. A. Pavlyshyn, I. M. Horishnyi. — Vinnitsia : Nova Knyha, 2020. — 440 p.
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### Supplemental Reading

15. 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.
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9. 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.

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### **Methodical development**

**practical lesson on the discipline "Clinical aspects of immunoprophylaxis"**

**Topic: Immunoprophylaxis of chicken pox.**

**Place of work: KNP SMR "City Children's Clinical Hospital of St. Zinaida",  
study room.**

**The number of hours is 2.**

#### **Questions for self-training**

46. The incidence of chicken pox in Ukraine.
47. What is the danger of chicken pox.
48. The goal of active immunoprophylaxis of chicken pox.
49. Preparations for active immunoprophylaxis of chicken pox.
50. Vaccination schemes and routes of administration of vaccines against chicken pox.
51. Contraindications to vaccination against chicken pox.
52. Reactions to the administration of vaccines.
53. Possible complications after vaccination.
54. Vaccination effectiveness and duration of protection.
55. Vaccination of contacts.
56. Vaccination of children who have had chicken pox.

#### **Essential Reading**

9. Manual of Children's Infectious Diseases [Текст] = Дитячі інфекційні хвороби : навч. посіб. / О. Ye. Fedortsiv, I. L. Horishna, H. A. Pavlyshyn, I. M. Horishnyi. — Vinnitsia : Nova Knyha, 2020. — 440 p.
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### **Supplemental Reading**

17. 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.
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### **Methodical development**

**practical lesson on the discipline "Clinical aspects of immunoprophylaxis"**

**Topic: Immunoprophylaxis of measles, rubella.**

**Place of work: KNP SMR "City Children's Clinical Hospital of St. Zinaida", study room.**

**The number of hours is 2.**

#### **Questions for self-training**

57. The incidence of measles, rubella in Ukraine.
58. What is the danger of measles, rubella.
59. The goal of active immunoprophylaxis of measles, rubella.
60. Preparations for active immunoprophylaxis of measles, rubella.
61. Vaccination schemes and routes of administration of vaccines against measles, rubella.
62. Contraindications to vaccination against measles, rubella.
63. Reactions to the administration of vaccines.
64. Possible complications after vaccination.
65. Vaccination effectiveness and duration of protection.
66. Vaccination of contacts.
67. Vaccination of children who have contracted measles, rubella.

#### **Essential Reading**

10. Manual of Children's Infectious Diseases [Текст] = Дитячі інфекційні хвороби : навч. посіб. / О. Ye. Fedortsiv, I. L. Horishna, H. A. Pavlyshyn, I. M. Horishnyi. — Vinnitsia : Nova Knyha, 2020. — 440 p.
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3. 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.

### **Supplemental Reading**

19. 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.
20. Epidemiology of infectious diseases: textbook / ND Yushchuk, Yu. V. Martynov, EV Kukhtevich, Yu. Yu. Grishina. - 3rd ed. revised and add. - ed. "GEOTAR-Media". - 2016. - 496 p.
3. Infectious diseases and epidemiology: textbook / V. I. Pokrovsky, N. I. Briko, B. K. Danilkin. - 3rd ed., Rev. and add. - М.: GEOTAR-Media.- 2016.- 1008 p.
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5. 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.
6. 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.
7. 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.
8. 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.



9. 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.

### **Web-based and electronic resources**

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2. <https://www.ecdc.europa.eu/en> European Centre for Disease Prevention and Control
3. <https://pubmed.ncbi.nlm.nih.gov/> PubMed
4. <https://www.nlm.nih.gov/> U. S. National Library of Medicine
5. <https://www.who.int/wer/en/> Weekly Epidemiological Record
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### **Methodical development**

**practical lesson on the discipline "Clinical aspects of immunoprophylaxis"**

**Topic: Immunoprophylaxis of epidemic parotitis.**

**Place of work: KNP SMR "City Children's Clinical Hospital of St. Zinaida", study room.**

**The number of hours is 2.**

#### **Questions for self-training**

68. The incidence of mumps in Ukraine.
69. What is the danger of epidemic parotitis.
70. The goal of active immunoprophylaxis of epidemic parotitis.
71. Preparations for active immunoprophylaxis of epidemic parotitis.
72. Vaccination schemes and routes of administration of vaccines against epidemic mumps.
73. Contraindications to vaccination against epidemic parotitis.
74. Reactions to the administration of vaccines.
75. Possible complications after vaccination.
76. Vaccination effectiveness and duration of protection.
77. Vaccination of contacts.
78. Vaccination of children who have contracted epidemic mumps.

#### **Essential Reading**

1. Manual of Children's Infectious Diseases [Текст] = Дитячі інфекційні хвороби : навч. посіб. / О. Ye. Fedortsiv, I. L. Horishna, H. A. Pavlyshyn, I. M. Horishnyi. — Vinnitsia : Nova Knyha, 2020. — 440 p.
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### **Supplemental Reading**

21. 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.
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9. 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.

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4. <https://www.nlm.nih.gov/> U. S. National Library of Medicine
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### **Methodical development**

**practical lesson on the discipline "Clinical aspects of immunoprophylaxis"**

**Topic: Immunoprophylaxis of pneumococcal infection.**

**Place of work: KNP SMR "City Children's Clinical Hospital of St. Zinaida", study room.**

**The number of hours is 2.**

#### **Questions for self-training**

79. The incidence of pneumococcal infection in Ukraine.
80. How dangerous are pneumococcal infections.
81. The goal of active immunoprophylaxis of pneumococcal infection.
82. Preparations for active immunoprophylaxis of pneumococcal infection.
83. Vaccination schemes and routes of administration of vaccines against pneumococcal infection.
84. Contraindications to vaccination against pneumococcal infection.
85. Reactions to the administration of vaccines.
86. Possible complications after vaccination.
87. Vaccination effectiveness and duration of protection.
88. Vaccination of contacts.
89. Vaccination of children who have contracted pneumococcal infection .

#### **Essential Reading**

12. Manual of Children's Infectious Diseases [Текст] = Дитячі інфекційні хвороби : навч. посіб. / О. Ye. Fedortsiv, I. L. Horishna, H. A. Pavlyshyn, I. M. Horishnyi. — Vinnitsia : Nova Knyha, 2020. — 440 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, 2020. — 64 p.

3. 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.

### **Supplemental Reading**

23. 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.

24. Epidemiology of infectious diseases: textbook / ND Yushchuk, Yu. V. Martynov, EV Kukhtevich, Yu. Yu. Grishina. - 3rd ed. revised and add. - ed. "GEOTAR-Media". - 2016. - 496 p.

3. Infectious diseases and epidemiology: textbook / V. I. Pokrovsky, N. I. Briko, B. K. Danilkin. - 3rd ed., Rev. and add. - М.: GEOTAR-Media.- 2016.- 1008 p.

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5. 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.

6. 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.

7. 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.

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9. 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.

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### **Methodical development**

**practical lesson on the discipline "Clinical aspects of immunoprophylaxis"**

**Topic: Immunoprophylaxis of hemophilic infection.**

**Place of work: KNP SMR "City Children's Clinical Hospital of St. Zinaida", study room.**

**The number of hours is 2.**

#### **Questions for self-training**

90. The incidence of hemophilic infection in Ukraine.
91. What is the danger of hemophilic infection.
92. The goal of active immunoprophylaxis of hemophilic infection.
93. Drugs for active immunoprophylaxis of hemophilic infection.
94. Vaccination schemes and routes of administration of vaccines against hemophilic infection.
95. Contraindications to vaccination against hemophilic infection.
96. Reactions to the administration of vaccines.
97. Possible complications after vaccination.
98. Vaccination effectiveness and duration of protection.
99. Vaccination of contacts.
100. Vaccination of children with hemophilic infection.

#### **Essential Reading**

13. Manual of Children's Infectious Diseases [Текст] = Дитячі інфекційні хвороби : навч. посіб. / О. Ye. Fedortsiv, I. L. Horishna, H. A. Pavlyshyn, I. M. Horishnyi. — Vinnitsia : Nova Knyha, 2020. — 440 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, 2020. — 64 p.



3. 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.

### **Supplemental Reading**

25. 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.

26. Epidemiology of infectious diseases: textbook / ND Yushchuk, Yu. V. Martynov, EV Kukhtevich, Yu. Yu. Grishina. - 3rd ed. revised and add. - ed. "GEOTAR-Media". - 2016. - 496 p.

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6. 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.

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8. 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.

9. 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.

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### **Methodical development**

**practical lesson on the discipline "Clinical aspects of immunoprophylaxis"**

**Topic: Immunoprophylaxis of meningococcal infection.**

**Place of work: KNP SMR "City Children's Clinical Hospital of St. Zinaida", study room.**

**The number of hours is 2.**

#### **Questions for self-training**

101. The incidence of meningococcal infection in Ukraine.
102. How dangerous is meningococcal infection.
103. The goal of active immunoprophylaxis of meningococcal infection.
104. Drugs for active immunoprophylaxis of meningococcal infection.
105. Vaccination schemes and routes of administration of vaccines against meningococcal infection.
106. Contraindications to vaccination against meningococcal infection.
107. Reactions to the administration of vaccines.
108. Possible complications after vaccination.
109. Vaccination effectiveness and duration of protection.
110. Vaccination of contacts.
111. Vaccination of children with meningococcal infection.

#### **Essential Reading**

14. Manual of Children's Infectious Diseases [Текст] = Дитячі інфекційні хвороби : навч. посіб. / О. Ye. Fedortsiv, I. L. Horishna, H. A. Pavlyshyn, I. M. Horishnyi. — Vinnitsia : Nova Knyha, 2020. — 440 p.
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### **Supplemental Reading**

27. 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.

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### **Methodical development**

**practical lesson on the discipline "Clinical aspects of immunoprophylaxis"**

**Topic: Immunoprophylaxis of the human papilloma virus.**

**Place of work: KNP SMR "City Children's Clinical Hospital of St. Zinaida", study room.**

**The number of hours is 2.**

#### **Questions for self-training**

112. The incidence of HPV in Ukraine.
113. How dangerous is HPV.
114. The goal of active immunoprophylaxis of HPV.
115. Drugs for active immunoprophylaxis of HPV.
116. Vaccination schemes and routes of administration of vaccines against HPV.
117. Contraindications to vaccination against HPV.
118. Reactions to the administration of vaccines.
119. Possible complications after vaccination.
120. Vaccination effectiveness and duration of protection.
121. Vaccination of contacts.
122. Vaccination of children with HPV.

#### **Essential Reading**

15. Manual of Children's Infectious Diseases [Текст] = Дитячі інфекційні хвороби : навч. посіб. / О. Ye. Fedortsiv, I. L. Horishna, H. A. Pavlyshyn, I. M. Horishnyi. — Vinnitsia : Nova Knyha, 2020. — 440 p.
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3. 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.

### **Supplemental Reading**

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9. 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.

### **Web-based and electronic resources**

1. <https://moz.gov.ua/> Ministry of Health of Ukraine
2. <https://www.ecdc.europa.eu/en> European Centre for Disease Prevention and Control
3. <https://pubmed.ncbi.nlm.nih.gov/> PubMed
4. <https://www.nlm.nih.gov/> U. S. National Library of Medicine
5. <https://www.who.int/wer/en/> Weekly Epidemiological Record
6. <https://www.cdc.gov/> Centers for Disease Control and Prevention



**"Approved"**  
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**Department of Pediatrics Academic and Research**  
**Medical Institute of Sumy State University**  
**protocol N \_\_\_\_\_**  
**from “ \_\_\_\_\_ “ \_\_\_\_\_ 20\_\_**

### **Methodical development**

**practical lesson on the discipline "Clinical aspects of immunoprophylaxis"**

**Topic: Immunoprophylaxis of Covid-19.**

**Place of work: KNP SMR "City Children's Clinical Hospital of St. Zinaida", study room.**

**The number of hours is 2.**

#### **Questions for self-training**

123. The incidence of Covid-19 in Ukraine.
124. How dangerous are Covid-19.
125. The goal of active immunoprophylaxis of Covid-19.
126. Preparations for active immunoprophylaxis of Covid-19.
127. Vaccination schemes and routes of administration of vaccines against Covid-19.
128. Contraindications to vaccination against Covid-19.
129. Reactions to the administration of vaccines.
130. Possible complications after vaccination.
131. Vaccination effectiveness and duration of protection.
132. Vaccination of contacts.
133. Vaccination of children who have contracted Covid-19.

#### **Essential Reading**

16. Manual of Children's Infectious Diseases [Текст] = Дитячі інфекційні хвороби : навч. посіб. / О. Ye. Fedortsiv, I. L. Horishna, H. A. Pavlyshyn, I. M. Horishnyi. — Vinnitsia : Nova Knyha, 2020. — 440 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, 2020. — 64 p.

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### **Methodical development**

**practical lesson on the discipline "Clinical aspects of immunoprophylaxis"**

**Topic: FINAL MODULE**

**Place of work: KNP SMR "City Children's Clinical Hospital of St. Zinaida",  
study room.**

**The number of hours is 2.**

#### **Questions for module**

1. What changes have occurred in the production of vaccines over the past 80 years?
2. Are there pathognomonic manifestations of post-vaccination reactions and complications?
3. What else can be expected after vaccination?
4. WHO evaluation criteria of the post-vaccination period.
5. What is a reaction to a vaccine?
6. What are software errors?
7. What are accidental NCDIs?
8. What is a reaction to an injection (shot)?
9. What is an undiagnosed NPPI?
10. What is the algorithm of actions in the event of adverse events after immunization (AEs)?
11. Immunoprophylaxis of tuberculosis.
12. Immunoprophylaxis of hepatitis A.
13. Immunoprophylaxis of hepatitis B.

14. Immunoprophylaxis of diphtheria and tetanus.
15. Immunoprophylaxis of whooping cough.
16. Immunoprophylaxis of poliomyelitis.
17. Immunoprophylaxis of hemophilic infection.
18. Immunoprophylaxis of measles, rubella and epidemic parotitis.
19. Immunoprophylaxis of chicken pox.
20. immunoprophylaxis of rotavirus infection.
21. Immunoprophylaxis of pneumococcal infection.
22. Immunoprophylaxis of influenza.
23. Immunoprophylaxis of meningococcal infection and infection.
24. Immunoprophylaxis of infection caused by the human papilloma virus.

### **Essential Reading**

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