

AMENDMENTS AND CHANGES TO THE CURRICULUM IN THE EDUCATIONAL DISCIPLINE
«MICROBIOLOGY, VIROLOGY, IMMUNOLOGY»
for the specialty 1-79 01 07 «Dentistry»

2023/2024 academic year

Amendments and changes		Basis/Reason
1.	No changes were made to the thematic plan and educational discipline curricular chart	Educational Plan for 2023/2024 academic year
2.	No changes were made to the academic discipline curricular chart and the list of lectures and practical studies	Schedule of sessions for the 2023-2024 academic year
3.	The list of practical skills has been updated according to Appendix № 1	Department meeting of June 08, 2023, protocol No. 13
4.	The list of literature recommended for 2023-2024 academic year has been updated (Appendix № 2)	Department meeting of June 08, 2023, protocol No. 13
5.	The content of the topics «Ecology of microorganisms. Antimicrobial measures: methods of sterilization, disinfection, antiseptics, asepsis», «Basics of the infection doctrine. Biological method of investigation. Microbiological basis of chemotherapy and antiseptics of bacterial infections», and of the section «Clinical stomatological microbiology» has been updated and the following information has been added: Ensuring epidemiological safety in the provision of medical care	Письмо Министерства здравоохранения Республики Беларусь № 4-38/7173 от 06.04.2023 «О выполнении плана мероприятий»
6.	The content of the topic «Immune and nonimmune protective mechanisms in oral cavity» has been updated and the following data have been added: act of implementation of the results of students' scientific research <i>"The impact of coronavirus infection COVID-19 on the state of the oral cavity"</i> (author Kuzmich K.I.)	Act of implementation of the results of scientific research in the educational process (protocol of the meeting of the department No. 2 dated 10.05.2022)
7.	The content of the topic «Stomatological microbiology. Methods for studying normal microflora. Microbiology of caries» has been updated and the following data have been added: act of implementation of the results of students' scientific research <i>"Study of the antimicrobial activity of carbon-containing toothpastes"</i> (author Bogomolova A.A.)	Act of implementation of the results of scientific research in the educational process (protocol of the meeting of the department No.

<p>8. The content of the topic «Methods for virological diagnosis of diseases caused by hepatitis viruses, herpesviruses, adenoviruses» has been updated and the following data have been added: act of implementation of the results of students' scientific research "Manifestations of the epidemic process of viral hepatitis B and C in Minsk" (author Apanovich A.V.);</p>	<p>2 dated 09/09/2022) Act of implementation of the results of scientific research in the educational process (protocol of the meeting of the department No. 5 dated 10.05.2022)</p>
<p>9 The content of the section «Special medical virology» has been updated and the following data have been added: acts of implementation of the results of students' scientific research "Features of the epidemiology of rabies infection in the Republic of Belarus from 2013 to 2021" (author Stashkevich A.N.),</p>	<p>Act of implementation of the results of scientific research in the educational process (protocol of the meeting of the department No. 5 dated 10.05.2022)</p>

The curriculum is revised and approved at the department meeting of the department microbiology, virology, immunology (protocol No. 08 of June 08 2023)

Head of the Microbiology, Virology, Immunology department,
Candidate of Medical Sciences,
Associate Professor



T.A. Kanashkova

APPROVED
Dean of the Medical Faculty of
International Students, PhD, associate
professor



O.S. Ishutin

List of academic discipline literature recommended for
2023-2024 academic year

Basic:

1. Generalov, I. I. Medical Microbiology, Virology & Immunology : lecture course for students of medical universities. Pt. 1 : General Microbiology & Medical Immunology / I. I. Generalov. - Vitebsk : VSMU, 2020. - 281 p.
2. Generalov, I. I. Medical Microbiology, Virology & Immunology : lecture course for students of medical universities. Pt. 2 : Medical Bacteriology & Medical Virology / I. I. Generalov. - Vitebsk : VSMU, 2020. - 390 p.
3. Стоматологическая микробиология, вирусология, иммунология = Stomatological microbiology, virology, immunology : пособие / Д. А. Черношей [и др.]. – Минск : БГМУ, 2020. – 152 с.

Additional:

4. Generalov, I. I. Instructions for laboratory training in Special Microbiology and Virology for students of Faculty of Dentistry / I. I. Generalov, A. V. Frolova. – Vitebsk : VSMU, 2016. – 32 p. – Electronic version of publ.
5. Generalov, I. I. Medical Microbiology, Virology & Immunology : lecture course for students of medical universities. Pt. 1 : General Microbiology & Medical Immunology / I. I. Generalov. – Vitebsk : VSMU, 2016. – 281 p. – Electronic version of publ.
6. Zverev, V. V. Medical Microbiology, Virology, Immunology : textbook. Vol. 1 / V. V. Zverev, M. N. Boichenko. - Москва : ГЭОТАР-Медиа, 2020. - 384 p.
7. Zverev, V. V. Medical Microbiology, Virology, Immunology : textbook : Vol. 2. / V. V. Zverev, M. N. Boichenko. - Москва : ГЭОТАР-Медиа, 2020. - 392 p.
8. Микробиология, вирусология, иммунология = Microbiology, virology, immunology : лабораторный практикум / В. В. Кочубинский [и др.]. – 6-е изд. – Минск : БГМУ, 2022. – 84 с.
9. Структура бактериальной клетки. Бактериоскопический метод исследования = Structure of bacterial cells/ Microscopic examination of bacteria : учебно-методическое пособие / Т.А.Канашкова [и др.] – Минск : БГМУ, 2023. – 24 с.

Head of the Microbiology, Virology,
Immunology department
Candidate of Medical Sciences,
Associate Professor



T.A. Kanashkova

AGREED

Head of the Reader Service Department



V.A. Koleda

List of practical skills on discipline Microbiology, virology, immunology
for 2023-2024 academic year

1. Prepare a smear from liquid (broth) culture of bacteria and stain by Gram method.
2. Prepare a smear from solid (agar) culture of bacteria and stain by Gram method.
3. Determine the morphology of staphylococcus in a Gram-stained smear.
4. Determine the morphology of Streptococcus spp. in a Gram-stained smear.
5. Morphology of Klebsiella, in a smear stained by Burri-Gins (negative contrast)
6. Morphology of Mycobacterium in sputum (Ziehl–Neelsen staining).
7. Determine the morphology of Neisseria gonorrhoeae in pus (Gram-stained smear).
8. Determine the morphology of Escherichia coli in a Gram-stained smear.
9. Determine the morphology of Staphylococcus spp. and Escherichia coli in mixture (Gram-stained smear).
10. Determine the morphology of Bacillus anthracis in a Gram-stained smear.
11. Determine the morphology of Vibrio spp. in a Gram-stained smear.
12. Determine the morphology of Brucella spp. in a Gram-stained smear.
13. Determine the morphology of Candida spp. in a Gram-stained smear.
14. Determine the morphology of Corynebacterium diphtheria (Löffler staining).
15. Aseptically transfer a bacterial colony from an agar plate to a sterile agar slant
16. Aseptically transfer a bacterial culture from an agar slant to a sterile agar slant
17. Aseptically transfer a bacterial culture from a broth tube to a sterile agar plate
18. Register and assess the antibiotic susceptibility of bacterium by disc-diffusion method.
19. Register the results of agglutination reaction in tubes and determine the antibody titer.
20. Register the results of Indirect (passive) agglutination test and determine the antibody titer.
21. Register the results of haemagglutination inhibition test.
22. Performe the slide agglutination.