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**TRANSFORMATION OF CHEMICAL DISCIPLINES IN THE TRAINING
OF FUTURE DOCTORS AT THE BOGOMOLETS NATIONAL MEDICAL
UNIVERSITY**

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The COVID-19 pandemic and Russia's military aggression have brought about significant changes and have become a real challenge for both the country and each of its citizens.

The main goal of the Bogomolets National Medical University is to bring the standards of training of future doctors closer to the world standards. Updating the educational programs for medical students will ensure that Ukrainian doctors acquire high-level knowledge and that Ukrainian patients will always be able to receive competent medical care.

The staff of the Bogomolets National Medical University and, in particular, the Department of Medical Biochemistry and Molecular Biology took the changes with utmost responsibility and actively joined the fight against the challenges of today.

In particular, such disciplines as "Medical Chemistry" (taught in the 1st year) and "Biological and Bioorganic Chemistry" (taught in the 2nd year), which were taught in

the training of future doctors in the specialties 222 "Medicine", 228 "Pediatrics", 221 "Dentistry" at the Bogomolets National Medical University, have undergone transformation. Starting from the academic year 2022-2023, future doctors will study a new discipline "Medical Biochemistry" in the 1st and 2nd years. The new discipline "Medical Biochemistry", which includes only 9 ECTS credits (270 hours), is allocated only 60 hours in the 1st year (lectures - 14 hours, practical classes - 36 hours, independent work - 10 hours), and in the 2nd year only 210 hours are allocated: lectures - 30 hours, practical classes - 99 hours, independent work - 81 hours) [2].

That is why the Department of Medical Biochemistry and Molecular Biology has become even more active - the staff has organized counseling of future doctors both in person and remotely, through messengers for medical students who are unable to get to the Bogomolets National Medical University. A bomb shelter has been set up in the Physics and Chemistry Building, and classes are held under constant air raid alerts. The staff of the Department of Medical Biochemistry and Molecular Biology prepared:

- work programs of the discipline and syllabus of the discipline for the specialties 222 "Medicine", 228 "Pediatrics", 221 "Dentistry";
- multimedia lectures;
- methodical recommendations for practical classes;
- methodical recommendations for independent work of the student;
- electronic versions of the educational and methodological complex are posted on the website of the department and on the LIKAR_NMU distance learning platform:
 - <https://nmuofficial.com/zagalni-vidomosti/kafedri/department-bioorganic-biological-chemistry/informatsiya-dlya-studentiv-5/>;
 - <https://likar.nmuofficial.com> [1];
- workbooks;
- electronic bank of test tasks KROK 1 for current and final control of students' progress;
- cases of situational tasks and clinical situations for current and final control of students' progress with examples of solutions.

The events of recent years have forced the staff of the Department of Medical Biochemistry and Molecular Biology to master distance learning methods at a frantic pace, to try to maintain the quality of education and not to lose the element of live communication. The Department of Medical Biochemistry and Molecular Biology quickly developed materials for self-study, remote control, and created presentations for each lesson. Of course, the distance format is not an adequate substitute for face-to-face classes. However, teachers use various teaching options to try to involve as many students as possible in the face-to-face process. This includes the formation of separate groups of students who have the opportunity to attend classes, extracurricular activities, master classes, and involvement in student clubs. All of these forms have proven to be effective in the context of quarantine restrictions and allow us to effectively conduct classes during the period of military operations.

Conclusions. The past two years of the Department of Medical Biochemistry and Molecular Biology have been challenging, as well as for our entire country, but also instructive. They gave us the opportunity to demonstrate moral qualities and show the importance of teamwork, and cohesion, mutual assistance and a professional approach to work allow us to overcome any difficulties and achieve victory.

References:

1. LIKAR_NMU - Dystantsiina osvita NMU imeni O.O. Bohomoltsia. (2023).

Retrieved from <https://likar.nmuofficial.com/> [ukr].

2. Syllabus of the academic discipline «Medical biochemistry». (2022).

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from

<https://drive.google.com/drive/folders/157OHjxhnhWL18gPGAOU2GDtmNledkW>

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