

# V. N. Karazin Kharkiv National University



## School of Medicine



## Department of Hygiene and Social Medicine



## GENERAL INFORMATION

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Today the Department of Hygiene and Social Medicine is one of leaders at medical faculty that is caused by high qualification of teachers, the general methodological approach to the organization of educational process, the organization of high-quality methodical providing and maintenance of the realized educational programs, regular rising of professional level and methodical culture of teachers and active participation in actual scientific researches.

The Department is a graduating which train specialists in the specialty of 7.12010001 "Medicine case".

## DEPARTMENT'S HISTORY

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The Department was created December 8, 2008. Head of the Department – MD, Professor G. M. Danylenko. Over the period of its existence the Department was introduced modern teaching methods created database of tests for control of knowledge and skills of students, teaching all subjects implemented with the assistance of computer and multimedia technology, developed and implemented a unified system of joint scientific work of students and teachers. During existence of department, the student scientific society which members repeatedly represented the scientific works at student's scientific and practical conferences is framed.

## DEPARTMENT'S LOGISTIC

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Logistics activities of the Department is at a level consistent with international standards.

Lectures are held in lecture halls equipped with multimedia systems and computers connected to the internal network of the University and on the Internet. For carrying out practical, laboratory and seminar training at the disposal of department there are three educational classrooms, which are equipped with multimedia systems, personal computers with access to an internal network of University and the Internet, video and television equipment, necessary posters,





schemes. In educational process modern devices for an assessment of health of the population and quality of environment are widely used.



## HEAD OF THE DEPARTMENT

Head of the Department of Hygiene and Social Medicine, Doctor of Medicine, Professor George M. Danylenko, who is known in Ukraine and abroad expert in the field of hygiene of children and adolescents.

George M. Danylenko was born in 1962. In 1985, he graduated with honors from the School of Sanitary-Hygienic of the Kharkov Medical Institute. Directed and began operations as a senior laboratory assistant with higher education in the Department of the School of Hygiene of Kharkiv Scientific-Research Institute of Child and Adolescent



Health. During the 1986-1992, he worked as a junior and then a research fellow. In 1992 after defending his doctoral dissertation was elected to the post of Head of the Department of Prevention of Diseases of Pupils. He received the rank of senior researcher in "Hygiene" (1995) and doctorate "Hygienic bases of systemic optimization of formation of health of children in the conditions of educational institution" in the specialty 14.02.01 – hygiene and professional pathology (2007), Fellow of the Cabinet of Ministers of Ukraine (1994-1996).



Since 2009 the Head of the Department of Hygiene and Social Medicine of the V. N. Karazin Kharkiv National University. G. M. Danylenko has authored or co-authored more than 220 scientific works, seven patents and copyright certificates. Under his leadership, successfully defended and executed 5 master's theses. For significant contribution to the solution of pressing issues in the field of the School of Medicine and professionalism repeatedly awarded honorary diplomas of the Presidium of the National Academy of Medicine of Ukraine, Kharkov city and regional administration, the President of the V. N. Karazin Kharkiv National University.



Danylenko G. M. is the coauthor of 1 textbook with a signature stamp of MON of Ukraine, 1 applied monograph, 2 manuals, 34 educational and methodical grants and methodical references, more than 200 scientific publications. Under the leadership of Danylenko G. M. the department takes active part in the organization and carrying out scientific and practical conferences, including with the international participation.

The sphere of scientific and professional interests of Danylenko G. M. at this stage of its activity is the school medicine and hygiene of children and teenagers, a healthy lifestyle.

## DEPARTMENT'S STAFF

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Staff of the Department includes four Doctors of Medicine, professor; two PhD, associate professor; four candidates of medicine; one senior lecturer; nine assistants without scientific degree, two engineers, and four senior laboratory assistant. The Department provides scientific, methodical and teaching staff, marked with national and international marks.

The Head of Department, MD, professor G. M. Danylenko – awarded diplomas of the Presidium of the National Academy of Medicine of Ukraine. Since 2013 is National Coordinator of Health Promoting Schools.

MD, Professor O. Y. Mayorov – First Vice-President and Chairman of the Scientific Council of the Ukrainian Association of "Computer Medicine". Member of the European Federation of Medical Informatics, Representative of Ukraine to the International Medical Informatics Association, founder and vice-president of the Ukrainian Association of Clinical Neurophysiology, chief specialist on information of Health Ministry of Health of Ukraine. He received a medal of Academician P. K. Anokhin Institute of Normal Physiology, USSR Academy of Medical Sciences for Development "Theory of functional systems"; British Computer Society scholarship for the development of health information technology. Awarded the Medal of Leonhard Euler European Academy of Natural Sciences (Germany, 2009) for his outstanding contribution to the creation of new health information technologies.

Doctor of Physics and Technical Sciences, Professor O. V. Martynenko – Member of the European Society of Biomechanics (EBS), the World Federation of Medical and Biological Engineering (IFMBE), the International Association of Physics and





Mathematics to Medicine (IUPEM). National Secretary of the Ukrainian Association of Medical and Biological Engineering.

MD, professor Podrigalo L. V. – the head of the department of hygiene and human physiology of the Kharkov state academy of physical culture, the expert in the field of primary diagnostics of a state of health, forecasting of a functional state, research of a morfofunctional condition of athletes. The participant of elimination of consequences of Chernobyl accident, is awarded by a medal, the medal "70 years to Armed Forces of the USSR".



The high quality of education provided years of experience and strong capabilities of teaching staff of the Department. The average length of service in the Department of educational activities of employees in higher education is 9 years.

In order to maintain a high level of scientific and pedagogical staff of the department annual pass courses, specialization, pre-certification courses, thematic improvement et al., including pedagogical skills courses and courses on introduction into the educational process of innovative Internet technologies and distance learning.



## DEPARTMENT'S EDUCATIONAL WORK

Educational work of the department is one of its priorities. Students can obtain training in six disciplines in English or eight in Ukrainian languages. The total volume of academic load is 11285 academic hours, including 130 lecture hours and 8724 practical, practical with labs, and seminar lessons.



For efficient education of undergraduate students, the School of the Department use the Recommendations to discipline is Standardized Curriculums, approved by Ministry of Health and Ministry of Education and Science of Ukraine in the framework of regulated guidelines for departmental school. Student's education and training is conducting according to the guidelines of Bologna Processes.

The School of the Department successfully combine multimedia with visual and concrete materials in their academic instruction. The combination aims the active involvement students to clinic and research activities of the Department. In addition, the school is adopting the innovative approach to academic instruction, such as online



consultations, webinars, online consultation for students, discussion with students various issues in voice and text chatting, online monitoring of preparation of students to the licensed examination KROK (online departmental database for preparation to one out of three-step examination for medical licensure in Ukraine), etc.

During training at the Department, students can get acquainted with modern diagnostic and laboratory equipment for an assessment of health of the population and quality of environment, available to the Department.

Practical exercises are conducted in conditions as close to real. Students and teachers of the Department take part in hygiene research followed by writing acts sanitary inspection ward sections, catering health facility, classes and training laboratories in secondary schools, residential blocks in the dorms, sampling of drinking water for bacteriological and chemical analysis, determination the level of physical development and nutritional status of children and adolescents, conduct activities to promote healthy lifestyle among schoolchildren, the organization of round tables and lectures with parents in schools.

Thus, students at the stage of training obtained invaluable experience in the field of preventive medicine.

The successful student's achievement on the one out of three-step examination for medical licensure in Ukraine KROK-2 is the main concern of the School. In order to students achieve the great score database with previous years tests, utilizing the School of Medicine software, computer classes with multimedia, online options is implementing during the course with equal distribution of the load on the students. In addition, school is always ready to discuss and to review any unclear topic for the student during preparation to the exam. Our students have the highest score among other students of Ukrainian School of Medicine and get top-ranking score, which proves the efficiency of our teaching methods.

To enrich student's experience the School of the Department of General and Clinical Pathology helps interested students to rich the highest potential and to compete with peers at National Ukrainian Olympiads/Competitions, scientific conferences, conventions, etc. Every year our students won prizes and rewarded with special achievement certificates, badges, pins, etc.





## DEPARTMENT'S DISCIPLINES

At the Department of Health and Social Medicine are trained students in Ukrainian and English languages on eight disciplines, including:

- ⇒ **Hygiene & Ecology** for students of the 3rd year. Head of teaching discipline MD, Professor Danylenko G. M.; teachers disciplines (Ukrainian language learning): MD, professor Danylenko G. M., , associate professor Korzhenevsky S. V., , associate professor Sotnikova-Meleshkina Zh. V., associate professor Redka I. V., assistant Zagorodneva O. V., assistant Ermakov L. V., assistant Kalinin N. V., assistant Pashchenko N. V.; teachers of discipline (training English):, the assistant Zagorodneva O. V., , assistant Bobrova O. V., assistant Avdiyevskaya A. G., assistant Dudnik I. V., assistant Golubnichaya G. I., assistant Korobkova A. V., assistant Shvets A. N., assistant Merkulov V. V., assistant Pashchenko N. V., assistant Krivonos., assistant Ermakova S. V.
- ⇒ **Hygiene & Ecology** for students of 6th year. Head of teaching discipline MD, Professor L. V. Podrigalo; teachers disciplines (Ukrainian language learning): MD, professor Danylenko G. M., MD, professor Podrigalo L. V., associate professor Sotnikova-Meleshkina Zh. V., assistant Kalinin N. V.; teachers of discipline (training English): MD, professor Danylenko G. M., assistant Merkulova T. V., assistant Dudnik I. V., assistant Shvets A. N., assistant Avdiyevskaya A. G., assistant Krivonos K. A.
- ⇒ **Biostatistics** for students 4th year. Head of teaching discipline – Doctor of Physical and Technical Sciences, Professor O. V. Martynenko, teachers disciplines (Ukrainian language learning): teachers of discipline (training Ukrainian): MD, professor Danylenko G. M., assistant Malyarova L. V.; teachers of discipline (training English): MD, professor Danylenko G. M., , assistant Peresyphkina T. V., assistant Golubnichaya G. I.
- ⇒ **Social Medicine and Health Organization** for the students of the 4th and 5th year. Head of teaching discipline – PhD, Senior Scientist Ponomareva L. I.; teachers disciplines (Ukrainian language learning): Ph.D., Senior Research Fellow Ponomareva L. I., assistant Zagorodneva O. V.; teachers of discipline (training English):, the assistant Peresyphkina T. V., , assistant Zagorodneva O. V., assistant Nesterenko V. G., assistant Kindruk M. A.



- ⇒ **Social Medicine and Health Organization** for students 6th year. Head of teaching discipline – PhD, associate professor Peresyphkina T. V.; teachers of discipline (training Ukrainian):, associate professor Ponomareva L. I., , assistant Zagorodneva O. V.; teachers of discipline (training English):, associate professor Peresyphkina T. V., assistant Nesterenko V. G., assistant Kindruk M. A.
- ⇒ **Elective Course "Nutritiology"**. Head of teaching discipline – MD, Professor L. V. Podrigalo; teachers disciplines (Ukrainian language learning): MD, Professor L. V. Podrigalo, Ph.D., associate professor Sotnikova-Meleshkina Zh. V., assistant Avdievskaya A. G.
- ⇒ **Medical Informatics**. Head of teaching discipline – Doctor of Physical and Technical Sciences, Professor O. V. Martynenko, teachers disciplines (Ukrainian language learning): Doctor of Physical and Technical Sciences, professor O. V. Martynenko, Senior Lecturer Ostropolets S. V., Assistant Malyarova L. V.
- ⇒ **Elective Course "The European standard of computer literacy"**. Head of teaching discipline – MD, Professor Mayorov O. Y.; teachers disciplines (Ukrainian language learning): MD, Professor Mayorov O. Y., Doctor of Physical and Technical Sciences, Professor O. V. Martynenko, Senior Lecturer Ostropolets S. V., Assistant Malyarova L. V.

## THE METHODOICAL WORK OF THE DEPARTMENT

Methodical work of the Department is conducted on an ongoing basis, and its result is complete methodical maintenance of disciplines. Prepared by the Department teaching materials are available for students in electronic form online on servers of the School of Medicine's internal computer network, in University's electronic depository, as well as in printed form.

Result of department's methodical work during the period of its existence is to prepare by the staff 1 textbooks with the stamp of the Ministry of Healthcare of Ukraine, 1 textbooks with the stamp of Ministry of Education and Science of Ukraine, 3 textbooks with the stamp of the University, 1 monographs, 60 manuals, more than 100 study guides and methodological recommendations, including 36 – in English.



For all department's disciplines developed and constantly kept up to date packages of methodical support, including work programs, calendar and thematic plans, methodology for assessing students' knowledge and skills, methodological recommendations for practical training for students' independent work, instructions for students' training in terms of Bologna process, database of tests and situational tasks for the current and final module control of students' knowledge and skills, checklist of questions and recommended reading, texts and multimedia presentations of lectures, etc.

## DEPARTMENT'S SCIENTIFIC WORK

The scientific work of the Department is an integral part of its activities. Under the contract with the Department staff Institute of Public Health of Children and Adolescents Academy of Medicine of Ukraine performed candidate dissertations: "To study the impact of medical and social factors on the formation of academically talented children of secondary school age" specialty "hygiene and professional pathology" and "To develop hygiene measures prevention of diseases of teenagers professional self." (Specialty "hygiene and professional pathology» 14.02.01).

Since the founding of the Department, its staff defended five PhD candidate dissertations. Currently at the Department planned and executed four candidate PhD dissertations.

The results of their own research staff of the Department during its existence reflected in the published 15 articles in journals that have impact factor and are included in the foreign scientometric base, 72 articles in national and 34 – in foreign specialized publications, 108 articles and theses in other journals. Innovative approaches in research confirmed seven patents and copyright certificates.

Department organized and held six scientific conferences, including three International. Reports on the results of its own research staff of the Department participated in 2 conferences, congresses, symposiums, forums, etc., including 7 International.

Department of Scientific Contacts established with the University of Aberdeen (UK) – a work on a joint project «Heart rate variability: nonlinear analysis» of the program Microsoft Azure Research. Department participates in the IBM Academic





Initiative. Preparations of a joint project with the University of Barcelona (Spain), Roma University (Italy), University of Aberdeen (UK) to participate in Horizon2020 (EU), which signed the agreement on the exchange of experience, scientific cooperation and joint scientific research.

The part of the scientific work of the Department is the organization of student scientific circles, which are the structural units of the Scientific Community of Students, Postgraduates and Young Scientists of the Medical Faculty. Students scientific circle of the Department together with staff of the Department are actively involved in clinical and scientific conferences, congresses, forums, symposiums and research, the results of which are published 8 articles in specialized publications, including 2 of them – in foreign.



Students of the Research Student Scientific Circles of the Department organized and conducted seven scientific conferences, including seven of them international, during which students presented the results of their researches.



## DEPARTMENT'S CLINICAL BASES

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Clinical bases of the Department of Hygiene and Social Medicine are two institutions.

**SI "Institute of Health Protection of Children and Adolescents of NAMS of Ukraine"** – the lead agency of National academy of medical sciences of Ukraine known for the scientific and clinical potential far outside Ukraine.



SI "Institute of Public Health of Children and Adolescents NAMS of Ukraine" was organized in October 1922 in Kharkiv. The first Ukrainian State Institute of Maternity Childhood Protection (Order of People's Commissariat of Health of Ukraine of 28.10.1922 № 174). In 1965, the institution was reorganized into N. K. Krupskaya Kharkiv Research Institute of Child and Adolescents Health Protection of the Ministry of Health of Ukraine. From this period, the Institute is a leading research institution in Ukraine, which coordinates research on the issue of "Health school-age children and





adolescents," prepares highly qualified, issues methodically and information materials for implementation in practice, conducts research and practice conferences and scientific symposia on topical issues of the health of children and adolescents, ensures the provision of highly skilled medical and consultative assistance to children and adolescent population.

On the basis of clinical held lectures, practical and laboratory classes, there is a formation of practical skills and consolidation of theoretical knowledge. Members of the students' scientific circles of the Department are actively involved in scientific research, which are based on the clinical bases of the Department.

**The municipal enterprise "Sanepidservice"** of Department of health protection is framed by the solution of 20 sessions of the 6th convocation of the Kharkov city council of 24.10.2012 No. 910/12; is structure of Department of health care of the Kharkov city council.



Primary activity of the enterprise – rendering of services to legal entities and individuals on carrying out laboratory researches in the sphere of ensuring sanitary and epidemic wellbeing of the population, namely bacteriological, parasitological, physical and chemical, radiological researches of food and food staples, drinking water,





atmospheric air, the soil, air of a working zone, factors of surrounding and production medium, such as the ionizing and electromagnetic radiation, vibration, illuminating intensity, microclimate parameters; biological to material from the person for definition of existence of originators infectious diseases, sensitivities to antibiotics, etc.



Sanitary, hygienic and bacteriological laboratories ME "Sanepidservice" are accredited by GP "Kharkov Regional Research and Production Center of Standardization, Metrology, Certification". Highly qualified specialists who have long-term experience and the corresponding qualification categories, scientific degrees work at the enterprise. Bacteriologists of the enterprise are federated members of the European microbiological societies "FEMS"; societies of microbiologists of Ukraine of S. M. Vinogradsky.



On clinical bases lecture, practical and laboratory classes is given, there is a formation of practical skills and fixing of the gained theoretical knowledge. Members of student scientific society of department take active part in scientific researches.

## CONTACT INFORMATION

### DEPARTMENT OF HYGIENE AND SOCIAL MEDICINE

**Address:** Kharkiv, 52-A Avenue of the 50th anniversary of VLKSM

**Website of the Department:** <https://sites.google.com/site/kafgigsocmed/>

**Website of clinical base of the Department** (SI "Institute of Public Health of Children and Adolescents NAMS of Ukraine"): <http://iozdp.org.ua>

**Website of clinical base of the Department** (Municipal enterprise "Sanepidservice"): <http://kp-ses.com.ua/>

**E-mail:** [gsm@karazin.ua](mailto:gsm@karazin.ua)

**Phone:** +38 (057) 262-91-04

**Directions** (SI "Institute of Public Health of Children and Adolescents NAMS of Ukraine"): trolleybus № 24 from the Subway Station Academician Barabashov

**Location map:** <https://goo.gl/maps/Zw1Y21Z7q1T2>

**Directions** (Municipal enterprise "Sanepidservice"): tram № 27 from Subway Station "Plosha povstannia"

**Location map:** <https://goo.gl/maps/nQ3Xe87MtuL2>