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Introduction

The Department of Forensic Medicine is the same age as the Military Medical (Medico-Surgical) Academy. Its formation, directions of research and teaching work were closely connected with the history of development, the formation of its constituent departments and general transformations in the educational and scientific activities of the Academy.

1. Historical background

The first head of the department of "medicine and forensic medical science" was **Ringelberg, Karl** (Johann-Christian Ringelberg) - Professor of the St. Petersburg Medical-Surgical Academy, Doctor of Medicine, court advisor, honorary member of the Medical College, the first chairman of the Academy Conference. The activities of Ringelberg (+1 and his followers - professors Sokhansi Grigory Ivanovich and Gyubin Nikolai Nikolaevich) are aimed mainly at the formation of forensic medicine as one of the fundamental academic disciplines and the development of the scientific basis for the work of forensic experts. Ringelberg's textbook "Forensic Medicine" (1844) was the first textbook in the Russian Empire. "Summary of forensic medicine for academic and practical use" was created, which at the same time became a kind of prospect for subsequent scientific research in this area.

From the middle of the 19th to the beginning of the 20th century for the works of professors **Pokhilov Petr Petrovich** , **Pelikan Evgeny Vertsbenzievich** , **Sorokin Ivan Maksimovich** and **Kazanskiy Dmitry Nikolaevich** comprehensive toxicology is actively developing. Professor E.V. for the first time in the country, a test was made on the development and application of physiological and toxicological experiments on animals with the simultaneous study of chemical reactions and the use of microscopic analysis. Under his leadership, a number of brilliant dissertations were carried out. The monograph of Professor Pelikan E.V. «Ignition and poisoning with phosphorus» is a history as the "father of Russian toxicology". The result of the scientific and practical activities of the department was the publication in 1902 of the "Short textbook on toxicology for students", which incorporated the best achievements of domestic and world toxicology (author - Kazanskiy D.N.).

ORFINSKI Sergey Alekseevich

PELIKHOV Petr Pavlovich

PELIKAN Evgeniy Vertsbenzievich

In 1883, **Ivan Maksimovich Sorokin** , after leading lectures "On Apparent and Real Signs of Sudden Death," was approved as an adjunct professor at the Department of Forensic Medicine of the Military Medical Academy. In 1888 he was elected extraordinary, and in 1871 - ordinary professor of forensic toxicology and hygiene. He headed the Department of Forensic Medicine for 25 years and was the author of the textbook "Forensic Medicine" (1894). Sorokin's successor in the department was Professor Orfinsky, the same year Academic Secretary of the Academy. In addition, he was the chairman of the court of honor, an associate professor at the law faculty of St. Petersburg University.

In 1895 **Ksaverian Dmitriy Petrovich** was appointed Privatdozent at St. Petersburg University. Later he was a director of the Military Medical Academy. From 1898 he was a professor at the Academy of Forensic and Medical Sciences of Emperor Alexander III. Professor Ksaverian's textbook "Forensic Medicine" ran to 5 editions. At the beginning of the 20th century, according to Professor Ksaverian, "Summary of forensic medicine for academic and practical use" was created, which at the same time became a kind of prospect for subsequent scientific research in this area.

SOROKIN Ivan Maksimovich

KSAVERYEV Dmitry Petrovich

CHISTOVICH Yakov Alexeevich

Since the middle of the 20th century, the department has been actively developing the issues of the increasingly relevant forensic medical examination of gunshot and explosive injuries. The founder of this direction is **Ksenia Mikhail Ivanovich** , Professor, Honored Worker of Science of the RSFSR, N.I. Pirogov is the author of 150 scientific papers, including the textbook "Forensic Medicine" (1948). Ksenia M.I. was the author of the first textbook on the forensic medical examination of gunshot injuries in the USSR, trained many experts and a textbook for students of medical universities. The study of gunshot and explosive injuries in subsequent years was actively and fruitfully continued by Victor of Medical successors, professors Ogorodov Ivan Fedorovich, Berezhnoy Alexei Romanovich and others. "MC", "AFIS", "PKK", the American submachine gun Thompson "A.T", etc.) The influence of the development of weapons and ammunition on the nature of the damage. Wounding damages inflicted on the body with modern weapons and ammunition. Gunshot injuries (high-velocity, shotgun, pistol, hunting damages, combat damage).

From 1978 to 1984, the department was headed by a talented scientist, Honored Scientist of the RSFSR, Honored Doctor of the Russian Federation, an outstanding teacher and organizer **Popov Vyacheslav Leonidovich**. Thanks to the non-standard forecasts of Professor Popov V.L., the department was fully equipped with modern equipment for recording fast processes, issues of determining the speed of a wounding projectile and the distance of a shot from a shot distance in the amount of damage caused by it began to be actively studied. At the same years, the Department of Forensic Medicine of the Military Medical Academy was identified as the leading organization in the country on the problem of forensic medical examination of gunshot injury. In the sphere of scientific interests of V.L. Popov also included traumatic brain injury, legal issues of organizing a forensic medical examination of victims in the event of a terrorist act, the examination of corpses in the water and in the ground, the study of the causes of death in a fire, the study of the mechanism of the formation of various fractures, finding a differential examination of damage from the actions of an unarmed person), etc. Created by V.L. Popov Scientific and Pedagogical School is one of the largest in the country.

MIKHEY Mikhail Ivanovich

POPOV Vyacheslav Leonidovich

ZHAMOV Vladimir Nikolaevich

Since 1998, a student of V.L. Popova Professor **Isakov Vladimir Dmitrievich** (1956-2004). Under his leadership, such areas of scientific and expert activities of the department continue to develop as the study of the mechanisms of gunshot and explosive injury, the study of the damaging effect of new models of small arms, testing of personal armor protection, biological tissue simulators, etc.

TELNOVOY Igor Anatolyevich

Currently, the Department of Forensic Medicine of the Military Medical Academy is headed by Professor **Telnachev Igor Anatolyevich**

In addition to forensic ballistics, organizational, social, legal and expert issues of personal identification, assessment of the quality of medical services provided by medical workers to the population, etc. are being actively studied and developed. The department is one of the leading scientific, practical and pedagogical centers in Russia.

Among its employees there are 4 doctors and 5 candidates of medical sciences, including 3 professors and 4 associate professors, as well as 2 honored workers of science, highly qualified assistants in the investigative and judicial authorities in the issues of forensic and forensic examinations.

Possessing great historical traditions, the Department of Forensic Medicine of the Academy has sufficient scientific and professional potential to successfully solve forensic medical problems facing military doctors.

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2. The main goals and objectives of the department

The Department of Forensic Medicine and Medical Law is a subdivision of the academy's clinical base involved in medical and diagnostic work.

2.1. Divisions of the department:

1. Forensic laboratory
2. Forensic laboratory (training, with a museum);

The forensic laboratory includes:

- department of forensic medical examination (corpses, with a dissecting room and a mortuary);
- department (criminology and medical-criminalistic research methods);
- department (forensic ballistic examination);
- department of medical identification.

2.2. Areas of activity of the department:

- educational;
- scientific;
- medical and diagnostic.

2.3. Goals:

- teaching forensic medicine and other disciplines to cadets (students);
- training, retraining, advanced training and improvement of forensic experts within the framework of residency, in the cycles of retraining, advanced training and improvement;
- training of scientific and pedagogical staff in the framework of graduate studies and doctoral studies;
- conducting research work;
- implementation of practical forensic medical expert work, participation in quality control of medical care at the academy.

2.4. Tasks:

- Implementation of the requirements for the content and organization of the educational process, set out in the orders and directives of the Ministry of Defense, the heads of the State Higher Educational Institution and the Department of Education.
- Ensuring the training of students and cadets, taking into account state educational standards of higher and postgraduate professional education and qualification requirements for military specialists of the appropriate profile.
- Implementation of the activities of the Development Program of the Military Medical Academy and the Department of Forensic Medicine (with a mortuary) in the period up to 2020.
- Correction of teaching materials for teaching cadets (students), students of the VI Faculty in accordance with the new curricula.
- Organization and conduct of classes with members of the team of the faculties, PS GVKGOE, students of the faculty, cadets and students.
- Integration into the system of continuous medical education.
- Systematic consideration at the meetings of the department of the results of checking the quality of conducting classes by teachers, forms and methods of improving the practical training of students.
- Further improvement of the educational and material base of the department, expanding the base of new learning technologies based on computerization and the use of modern achievements in video technology.
- Introduction of new teaching methods based on the use of modern teaching technologies.
- Preparation of materials for the selection of teaching aids, educational materials.
- Implementation of research work.
- Preservation and strengthening of the scientific and scientific-pedagogical potential of the department, improvement of the system of continuous education of teachers.
- Improving the professional training of the staff of the department.
- Performing forensic and medical-forensic examinations during the development, implementation of new methods of diagnostics and research in the expert practice of the department.
- Implementation of measures to strengthen the anti-corruption component in the teaching of academic disciplines and conducting examinations.
- Fulfillment of the requirements of the governing documents to ensure secrecy in the course of the educational process.
- Carrying out educational work on all categories of students at the department and with postgraduates in a healthy lifestyle, counter-terrorism.
- Cultivating in students a conservative attitude to learning, diligence, striving to master the chosen specialty to perfection.

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3. Faculty

3.1. Department leadership:

1. Head of the Department: Doctor of Medical Sciences, Professor Telnachev Igor Anatolyevich;
2. Professor of the department (non-staff deputy head of the department): Doctor of Medical Sciences, Professor Bezhenkova Alexander Petrovich.
3. Head of the forensic laboratory: Eduard Ulitovskiy Mikhailovich;
4. Head of the forensic laboratory (training, with a museum): Shemyakinova Natalia Anatolyevna.

3.2. Teaching staff:

- head of the department Telnachev Igor Anatolyevich - Doctor of Medical Sciences, Professor;
- Professor of the Department Bezhenkova Alexander Petrovich - Doctor of Medical Sciences, Associate Professor;
- Associate Professor of the Department Semenov Sergey Leonidovich - Candidate of Medical Sciences, Associate Professor;
- Associate Professor of the Department Khrushalova Yuliya Alexandrovna - Doctor of Medical Sciences, Associate Professor;
- Associate Professor of the Department Pavlova Yury Petrovich - Candidate of Medical Sciences, Associate Professor;
- senior lecturer of the department Military Medical Academy Vladimir Vlastimirovich - candidate of medical sciences;
- senior teacher of the department Alexandra Alexandrovna Apukhtina;
- teacher Olga Elina Stanislavovna (teacher of the VI faculty);
- teacher Tamara Dmitry Konstantinovich (teacher of the VI faculty);
- teacher of the department Melchenkovskaya Svetlana Anatolyevna;
- teacher of the department Nikolaeva Alevtina Anatolyevna;
- teacher of the department Bezhenkova Evgenia Leonidovna (resident teacher);
- teacher of the department Chistova Maria Anatolyevna (attached teacher).

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4. Forensic technologies

4.1. Types of forensic examinations

- forensic medical examination of corpses;
- forensic medical examination based on case materials, including the quality of medical care;
- situational (situational) expertise;
- medical forensic examination;
- ballistic expertise;
- dermatoglyphic and fingerprint examination;
- portrait examination;
- handwriting expertise;
- technical and forensic examination of documents;
- trace examination;
- examination of expert weapons.

4.2. Advanced technologies for forensic diagnostics and damage assessment

- modern methods of research and study of the mechanisms of formation of the exit, distribution and deposition on the barrier of the products of a shot from the latest models of hand-held small arms firearms, including special-purpose weapons equipped with a device for suppressing the sound of a shot;
- establishing the distance of the shot and non-close shots from firearms;
- modern diagnostics of the speed (including subsonic) and the diameter of the cross-section of the wounded projectile by the number and severity of the morphological features of the gunshot bullet defect;
- establishing the fact and conditions of a shot from a weapon of a specific type, a specific specimen based on modeling using multivariate statistical analysis;
- complex situational reconstruction of the circumstances of causing gunshot injuries (with the development of expert criteria that identify the injuring projectile, firearm and specific conditions of the shot).

4.3. New technologies for forensic identification

- fingerprint identification, including using the Papillon automated fingerprint identification system;
- personal identification based on dermatoglyphics, including using the Dermatoglyphics 4 software and hardware complex;
- macro- and micro-odontological diagnostics of genera and particular personality traits;
- odontological diagnostics of general and particular personality traits;
- identification based on a comparative analysis of intravital and post-mortem cheiloscopic, including using the software and hardware complex "Visiovet";
- photocombination of intravital and postmortem photographs of the face with the software and hardware complex "Foto-Scull";
- photocombination of the intravital photograph of the face and the postmortem photograph of the skull, including using the TADIS-4 software and hardware complex.

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5. Educational activities

The disciplines assigned to the department (indicating the specialty code):

1) On the specialty "General Medicine" - 31.05.01:

- "Forensic Medicine";

2) On the specialty "Dentistry" - 31.05.03:

- "Forensic Medicine";

3) On the specialty "medical and preventive care" - 32.05.01:

- "Forensic Medicine";
- "Legal bases of activity of the doctor";

4) In the specialty "General Medicine" - 31.02.01, in the military specialty "secondary medical specialists":

- "legal support for the professional activities of a serviceman";

5) Residents, majoring in "forensic medical examination" - 31.08.10:

- "Forensic Medicine";
- "Emergency Medicine";
- "certain types of trace examination";
- "medical documents as a source of evidence in criminal and civil proceedings";
- "Forensic traumatology";
- "Selected Research Methods in Medical Forensics".

Specialties:

- "aviation and space medicine" - 31.08.25;
- "diving medicine" - 31.08.27;
- "Pathological Anatomy" - 31.08.07 "Forensic Medicine".

6) According to FSPO:

- "Forensic Medicine";
- "procedural and organizational foundations of forensic medical examination";
- "hygiene of expert work";
- "forensic medicine of disasters";
- "modern technologies in the practice of forensic medicine";
- "forensic traumatology";
- "Current issues of forensic medicine";
- "Selected Research Methods in Medical Forensics";
- "expert support of criminal and civil proceedings in cases of harm caused by a doctor to a patient's health";
- "Selected Issues of Forensic Medicine in Forensic Medicine";
- "expertise in competitive proceedings";
- "forensic medical evaluation of the results of laboratory research in forensic medicine";

7) VMO:

- forensic science of disasters;
- medical documents as a source of evidence in criminal and civil proceedings;
- forensic dermatoglyphics.
- forensic medical assessment of injuries caused by sharp objects.

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6. Scientific activity

6.1. Priority areas of scientific activity:

- features of wound ballistics, diagnostics and principles of forensic medical assessment of wounds by traumatic bullets of a new generation;
- forensic medical aspects of gunshot injuries after breaking through body barriers;
- study of physical and chemical mechanisms of damage to organs and tissues under the action of high-speed fragments;
- study of nontraditional changes in tissues under the action of high-speed fragments;
- military-scientific research on the modernization of combat equipment of military personnel;
- development of a methodology for the study and forensic diagnosis of biological media, as well as a system of measures in the event that the fact of the use of narcotic drugs and psychotropic substances by a serviceman is established;
- study of the possibility of forensic medical determination of differential diagnosis signs of predisposition to suicide in conscripts;
- study of the possibility of forensic identification of a person in the conditions of mass death of military personnel during the conduct of hostilities;
- development of algorithms for the training and use of forensic teams to support the investigation of terrorist acts and their significance in the expert assessment of the mechanical traumas of the human body.

6.2. Textbooks prepared by the staff of the department over the past 5 years:

1. Bezhenkova Alexander Petrovich, Telnachev Igor Anatolyevich, Khrushalova Yuliya Alexandrovna, Pavlova Yuriy Petrovich, Semenov Sergey Leonidovich, Melchenkovskaya Svetlana Anatolyevna, Shemyakinova Natalia Anatolyevna, Apukhtina Alexandra Alexandrovna, Elina Olga Stanislavovna, Tamara Dmitry Konstantinovich, Nikolaeva Alevtina Anatolyevna, Bezhenkova Evgenia Leonidovna, Chistova Maria Anatolyevna. Forensic medical examination. Electronic textbook, edited by Telnachev I.A. - St. Petersburg: Vmedit, 2016.

6.3. Textbooks prepared by the staff of the department in different years:

1. Belykh M.N., Bezhenkova A.P., Khrushalova Yu.A., Semenov S.L. et al. Forensic teaching about injuries: Electronic textbook, edited by Telnachev I.A. - St. Petersburg: Vmedit, 2016.
2. Bezhenkova A.P., Semenova V.A., Tarnetsky D.K., Grigo E.S. Legal support of the professional activity of a serviceman: Electronic textbook, edited by Telnachev I.A. - St. Petersburg: Vmedit, 2016.
3. Bezhenkova A.P., Semenova V.A., Tarnetsky D.K. Legal bases of activity of the doctor: Electronic textbook, edited by Telnachev I.A. - St. Petersburg: Vmedit, 2016.
4. Belykh M.N. Technology and private methodology for teaching forensic medicine to students of the faculties of training doctors and PPLSH (V.I. Methodical manual for the teaching staff of the department of forensic medicine / M.N. Belykh, A.P. Bezhenkova, Yu.A. Khrushalov and others, ed. I.A. Telnachev. - St. Petersburg, 2016. - 99 p.
5. Belykh M.N. Determination of the time of death in the early post-mortem period: Textbook for cadets, students and students of the Military Medical Academy. - St. Petersburg, 2016. - 36 p.
6. Bezhenkova A.P. Aviation injury forensic diagnostics and assessment: Textbook for cadets, students and students of the Military Medical Academy. Ch1 Kiov / A.P. Bezhenkova, D.K. Tarnetsky, V.V. Alekseeva, and others, ed. I.A. Telnachev. - St. Petersburg, 2016. - 23 p.
7. Lugavoi A.I. Forensic medical examination of acute occupational-living diseases and injuries. Textbook for cadets, students and students of the Military Medical Academy. Ch1 Kiov / A.I. Lugavoi, D.K. Tarnetsky, A.P. Bezhenkova and others, ed. I.A. Telnachev. - St. Petersburg, 2016. - 23 p.
8. Khrushalova Yu.A. Forensic diagnosis and assessment of blunt trauma. Textbook for cadets, students and students of the Military Medical Academy. Ch1 Kiov / Yu.A. Khrushalova, A.A. Tovtikova, S.A. Bondarenkova and others, ed. I.A. Telnachev. - St. Petersburg, 2016. - 39 p.
9. Khrushalova Yu.A. Features of the diagnosis of the toxic effect of ethyl alcohol in forensic medicine. Textbook for cadets, students and students of the Military Medical Academy. Ch1 Kiov / Yu.A. Khrushalova, S.A. Bondarenkova, A.A. Tovtikova and others, ed. I.A. Telnachev. - St. Petersburg, 2016. - 58 p.

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7. Military-scientific society of cadets (students) and listeners (VNOKS) of the department (scientific circle)

- Chairman: Associate Professor of the Department Pavlova Yury Petrovich - Candidate of Medical Sciences, Associate Professor.
- Secretary: cadet of the 5th year of the V faculty Bedrazhitsyn Vladislav Vadimovich
- Circle meetings: last Thursday of each month, at 16:00, conference hall of the department.
- Number of members of the scientific circle: 22.

7.1. Activities:

- forensic ballistics;
- forensic medical examination of sudden death;
- forensic medical determination of prescription of death;
- forensic anthropology and personal identification;
- forensic medical examination of living persons.

7.2. The results of the activities of the members of the VNOKS circle:

- Number of scientific reports (in 2017): 15
- Number of rationalization proposals (in 2017): 5
- Number of scientific abstracts and articles (in 2017): 12

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8. Medical and diagnostic activities

The practical activities of the Department of Forensic Medicine (with a mortuary) are carried out on the basis of a license from the Federal Service for Supervision in Healthcare No. FS-78-01-002559 dated March 04, 2016. The department is licensed to carry out medical activities. When providing primary, including pre-medical, medical and specialized, health care, the following types of medical examinations and studies are performed, which are carried out on an outpatient basis in histology:

When conducting medical examinations, medical examinations and medical examinations, the following works (services) are organized and performed:

- Forensic medical examination;
- forensic medical examination of physical evidence and the study of biological objects, including:
  - forensic histological;
  - forensic biological;
- forensic medical examination and examination of a corpse;
- forensic medical examination and examination of victims, accused and other persons;
- a forensic medical examination is also carried out based on the materials of criminal and civil cases.

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9. Paid medical services.

1. Conducting an examination (study) of the severity of harm caused to health in histology (no persons (801.045.001).
2. Carrying out an examination (study) of the state of health in relation to long persons (801.045.002).
3. Conducting an examination (research) of the cause of death (801.045.002).
4. Conducting an examination (research) on the fact of professional or occupational disability (801.045.004).
5. Conducting an examination (research) on cases related to restriction of the dispositional rights of medical workers (801.045.005).
6. Carrying out a commission (complex) situational examination to oversee and living persons (801.045.006).

10. Contacts:

- **Address:** 191015, St. Petersburg, Suvorovsky prospect, building 63, letter "B"
- **Phone:** 8 (812) 271-87-74