

INTERNATIONAL CONGRESS “THE TOPICAL ISSUES OF FORENSIC MEDICINE AND EXPERT PRACTICE – 2019”

Dear colleagues!

On behalf of the organizing committee I welcome the participants and guests of the International congress “Topical issues of forensic medicine and expert practice – 2019”.

Since 2013 this prestigious forum has been taking place annually in Moscow under the patronage of the Ministry of health of the Moscow region. This congress is the largest international scientific event in Russia, gathering an international audience of forensic pathologists.

The scientific program of the congress covers the most important achievements in different areas of forensic medicine and related disciplines, new areas of expert research in thanatology, laboratory diagnosis of pathological processes, expert and law enforcement practice of harm caused to human health.

This congress is included in the European calendar of scientific events in forensic medicine for the third year in a row. I would like to emphasize that international recognition has not only improved the status of our forum, but also significantly expanded the audience of participants interested in professional communication and active practical interaction.

This year the congress will be attended by leading experts-practitioners and prominent scientists, heads of departments and heads of forensic institutions of different countries. The experts from Russia, Germany, Italy, Portugal, Japan, Turkey, Czech Republic, Slovakia, Belarus, Kazakhstan, Uzbekistan, Kyrgyzstan, Romania and other countries announced their intention to share their own experience with colleagues, as well as to discuss the most pressing problems of forensic medicine.

I want to emphasize that the organizers offer the participants of the congress an interdisciplinary format of communication. This approach to discuss sectoral problems is strategically important and most productive. The outcomes of previous congresses have confirmed that our concepts allow sharing unique experience for specialists from related industries and achieving excellence in professional interaction. Therefore, the organizing committee of the congress will continue to



work towards deepening synergy, clearly understanding that the use of new techniques and innovative technologies in forensic science and practice is rapidly moving beyond the industry experience.

In this regard, the program of the congress provides for meetings of specialists of the forensic medical community with representatives of related industries. Forming the program of the seventh congress we expected thematic diversity. However, both domestic and foreign colleagues were again able to surprise us with a rich range of bright topics and the depth of study of their reports. The gradually expanding range of events held within the framework of the last six congresses has already been established. This year we will present the schedule that has already proved its effectiveness in previous forums.

The plenary sessions will be presented with the reports on the trends and ways of development of the world of forensic medicine in the twenty first century, Specialized sections are expected to discuss procedural, institutional and methodological bases of forensic medical examination of corpses (including virtopsy), victims, defendants and other persons, material evidence of biological origin, examination of the case materials and medical documents.

I would like to draw special attention to interdisciplinary innovations in biology, medicine and law; forensic medical aspects of humanitarian missions; expert criteria of child abuse; clinical, instrumental and pathological correlations of brain death; determination of heat shock proteins in different tissues under high temperature; the issues of public health and forensic activities in Russia and abroad; the problem of using the results of molecular genetic examinations in the space of mass media.

This year 10 sections will be run. The participants of the specialized section “Forensic chemical and chemical-toxicological studies in expert practice” will discuss current trends in the development of applied methods of forensic chemical and

chemical-toxicological analysis of narcotic and psychoactive substances, get acquainted with the possibilities of modern chromato-mass spectrometry for the search, identification and quantification of toxicologically significant substances in objects of biological origin. Moreover, a poster session will be launched and a round table will be organized to discuss practical aspects of the work of forensic chemists.

The interdepartmental section "Medical and forensic research in expert practice" will bring together forensic experts from the regional departments of forensic pathology, medical criminologists from the departments of medical and biological research of investigative agencies, police criminologists of Russia, university anthropologists and other specialists involved in the problems of medical and forensic examination. This community of experts will allow analyzing the problems of the purpose and methods of conducting situational examinations, the competence of experts in solving problems to establish the consistency of the data produced by the investigation and obtained results of the conducted medical and forensic research. The participants will share their achievements in the field of expertise on identification and identification of the instrument of injury.

At the section devoted to "Molecular genetic methods of identification of the person in expert practice", leading experts in this field will present methods of molecular genetic individualization of the human person and will tell us about problems of forensic identification of the person and establishment of biological relationship. During the work of the section, Russian and foreign scientists will exchange experience in the application of the most rational methods that preserve scarce biological material for molecular genetic research; consider cases of examination of disputed paternity with complex objects of research. Particular attention will be paid to the methods of molecular genetic research of biological objects collected from the scene in cases of emergencies with numerous human victims, and the typing of the remains of unknown persons.

The reports prepared by the participants of the section "Forensic histological studies in expert practice" will reveal new opportunities for determining the prescription and lifetime of injuries and other pathological processes in forensic medicine. The specificity of morphological and microscopic diagnostics of fatal and non-fatal cold injury will be considered, including in cases of death of victims in hospital, who were taken to medical organizations in a state of hypothermia and died from various "cold complications". The attention of the participants will be focused on the principles of formulation of forensic histological diagnosis and conclusion.

The thematic section "Forensic medical examination of living persons" will present interesting and rare cases from expert practice. The issues of assessing the severity of harm caused to human health will be discussed. Much attention is planned to be paid to errors in the application of medical criteria. The participants will exchange views on laboratory diagnostics to establish the prescription and nature of injury. They will explore harm of alcohol and drugs in biological environments in children.

The multidisciplinary section "Examination of professional offenses of medical workers" in addition to forensic experts will bring together leading experts in the field of jurisprudence, including representatives of the Investigative Committee and the Prosecutor's Office of the Russian Federation, as well as well-known lawyers. During the work of the section the issues of investigation of professional offenses of medical workers will be considered and discussed, establishing a causal relationship between the defects of medical care and the consequences for the patient. The participants will explore

the qualification of harm caused to the health of the victim as a result of inadequate medical care.

The Clinical and Research Hospital of Moscow region and laboratories of the Department of forensic medical examination of Moscow region have all the necessary equipment and expertise to conduct master classes on the above mentioned topics at high standard to achieve excellence.

This year the participants will have a comprehensive program to cover thematic workshops. This is an excellent schedule that allows professionals to exchange their experience and try out new techniques and technologies used in expert practice by experts from different countries. For example, forensic experts-biochemists will held a master class using high-tech equipment for the study of biochemical parameters of postmortem blood to determine the various causes of death.

Two master classes are planned for histologists, such as:

1. Use of microphotography in the diagnosis of various pathological processes and archiving histological material;
2. How to take autopsy material for histological examination and evaluation of the results.

Let me remind you that in 2017 the School of young scientists and specialists successfully established. The basic idea was to unite well-known scientists with graduate students, residents and young doctors to assess and analyze the current world achievements of the industry. The organizers of the congress were convinced that the format of the "school" was chosen correctly. Its work in the framework of the congress contributes to mutual enrichment of each of the participants, both beginners and reputable scientists.

The "School of young scientists and specialists", indeed, has a great potential for the training of scientific personnel. In our opinion, this project should be supported, developing it in every possible way and outside the congress.

For the third consecutive year "Kryukov reading" will continue the discussion of the scientific heritage of Professor V.N. Kryukov. The reading will explore the materials on the mechanisms, sequence, lifetime and age formation of bone fractures from blunt force trauma.

The organizers, like most of the participants of the Congress, believe that the integration of "readings" in the scientific program will outline its thematic range, showing not only the depth and originality of scientific thinking of a prominent Russian scientist – V.N. Kryukov, but once again confirm the inexhaustibility of seemingly "narrow" topics.

The organizers of the congress expect that this forum will give new grounds for recognition of merits and achievements in the field of forensic medicine.

Focusing on the actual problems of expert practice and solving the tasks set before forensic medical community and related industries, our medical community directly and indirectly contributes to the development of the field. Our approach will undoubtedly make it possible to take another step forward in improving the quality of life of the people for whom we are engaged in scientific research and daily expert practice in an effort to respond promptly to the challenges of the time.

I wish all the participants of the congress interesting and effective work!

**President
of Association of Forensic Medical Experts
MD, PhD, prof. V. A. Klevno**