Analysis of Commission Forensic-medical Examinations performed in Cases Concerning the Responsibility of Surgical Professional Doctors

Natalia Kozan, Volodymyr Voloshynovych*, Yuliia Kotsyubynska, Halyna Zelenchuk, Andrii Tsikhivskyi

Abstract

The objective of the research was the analysis of the structure of the commission of forensic medical examinations concerning professional offenses of medical professionals of the surgical profile according to the data of the Ivano-Frankivsk Regional Bureau of Forensic Medical Expertise for the period 2015-2019.

Materials and methods. The material of the study were the annual reports of the Ivano-Frankivsk Regional Bureau of Forensic Medical Expertise (Commission Department) and criminal case materials. Obtained data were processed using Microsoft Excel, Statistica 6.0.

Results. It was found that forensic medical examinations in case of improper performance of professional duties by medical workers accounted for a relatively small part 71 (14.3%) of the total forensic medical expertise. After the performed analysis, it was found that the doctors made diagnostic, therapeutic, organizational-tactical, deontological and combined errors that had a direct (29%) or indirect (26%) connection with the onset of death or adverse effects on the patient’s health. In 45% of cases, there was no correlation between the doctor’s actions and the occurrence of adverse effects for the patient.

Conclusions. The number of cases for improper performance of professional duties by medical workers is significantly higher in surgeons and obstetricians-gynecologists than in doctors of therapeutic profile. Every year, the complexity of commission forensic medical examinations in case of improper performance of professional duties by medical workers increases. This is due to the increasing complexity of surgical interventions and instrumental examination methods, as well as the increasing legal literacy of the population.

Keywords
forensic examination; offenses of medical workers

Ivano-Frankivsk National Medical University, Ukraine
*Corresponding author: voloshynovych@yahoo.com

Problem statement and analysis of the latest research

During the reform of the health care system, there is a growing demand for quality and effective health-care services. However, every year the number of complaints about doctors’ professional misconduct in connection with the development of legal literacy of the population increases. Patients’ dissatisfaction with medical services is at the heart of criminal and civil proceedings against healthcare professionals [1, 2].

Quite often, in the practice of investigating crimes and subsequent criminal proceedings, during a court hearing, there is a need to resolve issues that cannot be answered by one specialist because they do not have all the necessary knowledge. In this case,
there is a need to conduct such a type of forensic examination as a commission. The peculiarity of this examination is that it is multi-level, complex in nature and usually requires the involvement of specialists in various medical specialties in the expert commission. Today, such expertise is quite broad. Often, this kind of forensic examination becomes a means of proving or refuting the guilt of a suspect and accused of a crime [3].

Despite the relatively small number of commission expertise in comparison with other departments of the Regional Bureau of Forensic Medical Expertise, the department of commission forensic medical examinations, without a doubt, performs a considerable amount of work and is key, because, according to item 3 "Rules for conducting forensic medical examinations in the bureau of forensic examination", commission examinations in the department are performed to eliminate contradictions between previously made examination and other case materials in case of unjustified conclusions or doubts of the person conducts the inquiry, investigator, prosecutor, judge or court in the correctness of the aforementioned examination, as well as to establish the conception period, the ability to fertilize, the percentage of loss of professional capacity and the correctness of medical care in cases of criminal liability upon improper performance of professional duties by medical workers [4, 5].

By comparison, medical errors in the UK are the third cause of mortality after diseases of the cardiovascular system and cancer. In the US, medical errors rank fifth among the causes of death, and every 15 minutes, five people die due to the fault of doctors or medical staff [6].

The main problem with the organization of forensic medical examinations in cases of inadequate medical care is the obsolescence of the regulatory framework and its non-compliance with the requirements of today. There is an urgent need to recognize at the legislative level the special status of forensics in cases of offenses in the professional activity of medical professionals. An important problem of medical examinations regarding defects in medical care is their lack of regulation, lack of an officially recognized detailed methodology for performing such examinations, the ambiguity of terms and concepts used in expert and law enforcement practice in clarifying the circumstances of a medical incident. The findings of forensic expert committees do not always meet the necessary objectivity, evidence and scientific validity [7, 8].

**Objective.** To analyze the structure of the commission forensic medical examinations concerning professional offenses of medical professionals of the surgical profile according to the data of the Ivano-Frankivsk Regional Bureau of Forensic Medical Expertise for the period 2015-2019.

**1. Materials and Methods**

The annual reports of the Ivano-Frankivsk Regional Bureau of Forensic Medical Expertise (Commission department). There were studied 71 "Conclusions of Expert", investigators’ decisions and court decisions on the appointment of the expertise, medical examination materials regarding the provision of medical assistance and other criminal case materials. The data obtained were processed using Microsoft Exel, Statistica 6.0.

**2. Results and Discussion**

When examining the annual reports of the Commission Department, it was found that in 2015 the 26 (16.7% of the total commission examinations cases) were performed in cases of offenses in the professional activity of medical professionals, 2 of which (7.7%) were for surgeons, 10 (38.5%) for obstetricians and gynecologists, 9 (34.6%) for anesthesiologists, others – 5 (19.2%) (Tables 1, 2).

In 2016, the total number of the commission examination in cases of offenses in the professional activity of the medical professionals was 7 (6.8% of the total commission examinations), of which only 1 (14.2%) were for surgeons, 2 (28.6%) – obstetricians and gynecologists, 2 (28.6%) – anesthesiologists, others – 2 (28.6%) – in the affairs of the doctors of other specialties.

In 2017 there were performed 20 (20.4%) commission examination in cases of offenses in the professional activity of medical professionals, among
Table 1. Comparison of the total number of commissions forensic medical examinations and examination in case of improper performance of professional duties by medical workers performed at the commission department during 2015 - 2019.

<table>
<thead>
<tr>
<th>Year</th>
<th>Total number of commissions forensic medical examinations</th>
<th>Examination in case of improper performance of professional duties by medical workers, amount (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015</td>
<td>156</td>
<td>26 (16.7%)</td>
</tr>
<tr>
<td>2016</td>
<td>103</td>
<td>7 (6.8%)</td>
</tr>
<tr>
<td>2017</td>
<td>98</td>
<td>20 (20.4%)</td>
</tr>
<tr>
<td>2018</td>
<td>55</td>
<td>10 (18.2%)</td>
</tr>
<tr>
<td>2019</td>
<td>83</td>
<td>8 (9.6 %)</td>
</tr>
<tr>
<td>Total</td>
<td>495</td>
<td>71 (14.3%)</td>
</tr>
</tbody>
</table>

Table 2. Structure of the commission forensic medical examinations concerning professional offenses of medical professionals in different specialties during 2015-2019.

<table>
<thead>
<tr>
<th>Health care worker’s specialty</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surgeons</td>
<td>2</td>
<td>1</td>
<td>3</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>Obstetricians and gynecologists</td>
<td>10</td>
<td>2</td>
<td>4</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>Anesthesiologists</td>
<td>9</td>
<td>2</td>
<td>1</td>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td>Others medical specialties</td>
<td>5</td>
<td>2</td>
<td>12</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Total</td>
<td>26</td>
<td>7</td>
<td>20</td>
<td>10</td>
<td>8</td>
</tr>
</tbody>
</table>

In all cases, the questions of the correctness of the established diagnosis, the adequacy of the conducted treatment, the timeliness of medical care were raised to decide the forensic medical examination. Most of the examinations also raised the question of the adequacy of the provision of medical care at each stage (emergency medical care, district hospital, regional hospital, etc.).

After the analysis, it was found that the doctors committed diagnostic, therapeutic, organizational-tactical, deontological and combined errors that had a direct (29%) or indirect (26%) connection with the onset of death or adverse effects on the patient’s health. In 45% of cases, there was no correlation between the doctor’s actions and the occurrence of adverse effects for the patient.

Analyzing data from similar studies conducted...
at other regional bureaus [6, 9], we can conclude that the frequency and pattern of "medical cases", are independent of the region and are approximately the same.

### 3. Conclusions

1. Forensic medical examinations in case of improper performance of professional duties by medical workers accounted for a relatively small part of the total forensic medical expertise.
2. The frequency of commission forensic medical examinations are determined by the diagnostic, therapeutic, organizational, tactical, deontological and combined errors that have led to the death or adverse health effects of the patient.
3. The number of cases for improper performance of professional duties by surgeons, obstetricians and gynecologists are higher than doctors of therapeutic profile.
4. Every year, the complexity of commission forensic medical examinations in case of improper performance of professional duties by medical workers increases. This is due to the increasing complexity of surgical interventions and instrumental survey methods, as well as the increasing legal literacy of the population.

### Conflict of Interest

The authors stated no conflict of interest.

### Financial Disclosure

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### References


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