

MINISTRY OF PUBLIC HEALTH OF UKRAINE
NATIONAL UNIVERSITY OF PHARMACY

**TOPICAL ISSUES OF NEW
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And Practical Conference
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For a wide audience of scientists and pharmaceutaical and medicinal employees.

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STATISTICAL INDICATORS OF OCCUPATIONAL INJURIES

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Introduction. One of the important tasks in the field of health and safety of workers is the risk assessment. A qualitative assessment of the probability of an accident can be performed using reliable statistical data. Information on the state of occupational injuries and occupational diseases is collected and published by the relevant departments. In Ukraine it is the State Service of Ukraine for Labor and Social Insurance against Accidents and Occupational Diseases in the Workplace

In the world, information is collected by the International Labor Organization, which receives it from official government bodies. A generalized model assessment of the International Labor Organization exists. According to it, every developed country in the world annually loses more than 4% of its GDP as a result of industrial accidents and occupational diseases.

Aim. To identify the causes of accidents affecting the statistical indicators of occupational injuries in Ukraine. Determine the degree of interrelation between the characteristics and quantities under study.

Materials and methods. statistical analysis of occupational traumatism, correlation analysis.

Results and discussion. The basis for assessing occupational injuries is the recording and statistics of accidents. Industrial injuries are characterized by absolute and relative indicators.

The absolute indicators include:

- the number of people who died from occupational accidents per year;
- Number of people injured by occupational accidents per year;
- Number of people who have received occupational diseases per year.

Relative indicators include:

- frequency of occupational injuries;
- severity factor
- rate of incapacity for work

Relative indicators, unlike absolute ones, require the use of unified methodological approaches to collection, summaries and analysis, which allows comparing different enterprises, sectors and sectors of the country's economy. We analyzed the data provided by the Labor Service for the years 2016 and 2017 by sectors of the economy and regions of Ukraine.

The total number of accidents decreased by 115 (in 2016, 4428 in 2017-4313). The leaders in the number of accidents were: Socio-cultural sphere and trade (1017/951) coal mining industry (864/780); agro-industrial complex (578/537). The lowest absolute figures for the oil and gas industry and geological exploration (23/20) and boiler inspection and lifting structures (20/19).

Among the regions, Dnipropetrovsk (725/704) and Donetsk (666/608) regions are the smallest in the Zakarpatsky (46/35) and Chernovetsky (36/34) regions.

It is obvious that the absolute indicators of injuries do not show a real picture. Probably there is a latent traumatism and a poor-quality estimation. It is necessary to conduct a correlation analysis taking into account the relative indicators.

Conclusions: The situation, taking into account only the absolute indicators of injury without taking into account statistical methods, leads to the impossibility of a correct risk assessment. Misalignment of risks leads to the fact that incorrect measures are taken to manage risks, or measures are not taken at all, which further worsens the situation with industrial injuries in Ukraine.

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