



OPINION

By Prof. Dr. Karolina Lyubomirova, MD

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FOR A DISSERTATION ON THE TOPIC:

"ECONOMIC AND SOCIAL EFFECTS OF THE APPLICATION OF AN INNOVATIVE MODEL OF TRAINING FOR PREVENTION AND FIRST AID PROVISION AFTER OCCUPATIONAL ACCIDENTS IN THE REPUBLIC OF BULGARIA"

With author:

SLAVI HRISTOV PACHALOV

for awarding the educational and scientific degree "Doctor"

Field of higher education 7 "Healthcare and sports"

Professional field: 7.1 "Medicine"

Scientific specialty "Hygiene /incl. labor, communal, school, radiation, etc./"

SCIENTIFIC SUPERVISORS:

ASSOC. PROF. KATYA VANGELOVA, PHD

PROF. EVGENI GRIGOROV, PHD

The dissertation concerns the current topic of occupational accident prevention and first aid training for workers, as regardless of the form of training in which they are acquired, practical knowledge and skills save lives, reduce costs and recovery time, save funds for social integration and are an important part of national security.

Structure of the dissertation:

The dissertation contains 175 pages and is illustrated with 63 figures and 17 tables.

The bibliography includes a total of 174 literary and Internet sources, described in the generally accepted manner.

The literature review shows the awareness of the PhD student on the problem under consideration. It presents in detail the general characteristics and specifics of occupational accidents by a number of indicators. An extensive and in-depth analysis of the economic losses and social effects of occupational injuries in Bulgaria has been made.

The concept and historical development of the methods of providing first aid after work accidents are presented in detail and the main requirements for conducting training for the prevention of work accidents and providing first aid are presented in accordance with the specifics of the organization according to economic sector, size, structure, etc.

The purpose of the dissertation is precisely and clearly formulated. The 5 tasks set logically follow from the goal, allowing for good implementation of the planned study.

The methodology is well described and gives a clear idea of the stages, the method of conducting the study, and the demographic characteristics of the participants.

The "Results" section analyzes the regulation and conduct of first aid training in the world and in Bulgaria. Data are presented from training conducted by the PhD student using the developed innovative first aid model, tested in 2022 in 16 economic entities with a total of 548 workers, and in 2023 in 12 economic entities with a total of 311 workers. The participants in the study are included in one of the following target groups, depending on the economic sphere in which they work: production and distribution of electricity and heat (energy workers - E); extraction of metal ores (miners - M); construction of facilities (builders - C).

A detailed description of the developed innovative first aid model is provided and the results of the study on the effectiveness of the developed innovative training model are summarized. The social and economic effects of the implementation of the developed training model are substantiated. And its advantages compared to standard training for the prevention and limitation of the consequences of TC. Convincing

evidence is presented that the proposed innovative model allows, through role-playing tasks in practical exercises, trainees to empathize with the condition of a victim and a first aid provider.

Through the use of disguises and scenarios, based on hypothetically possible incidents for the specific workplace, the acting tasks that the trainees perform bring the trainees as close as possible to a real situation and test not only the theoretical knowledge and practical skills for providing first aid but also their mental resilience, teamwork and adaptability. A significant advantage of the innovative model, compared to mass training, is that it allows its program to be adapted, taking into account all the specifics of the client and the set goals of the training.

The "Discussion" section is professionally written and reflects the most important achievements of the work. It presents data on the advantages of the proposed innovative first aid training model compared to the "standard trainings" conducted mainly due to: its individual approach, the linking of training with prevention activities, and in most cases the lower price with comparable or better theoretical knowledge and practical skills.

Conclusions:

Based on the results obtained, 6 conclusions have been formulated, which logically follow from the tasks set and summarize the results obtained.

Publications: As a result of the dissertation work, 3 publications have been presented, in which the dissertation candidate is the first author or an independent author.

Scientific forums: The dissertation candidate has presented the results of the work at 6 scientific forums, 2 of which abroad.

I have no critical remarks about the dissertation, as all such remarks from the preliminary defense have been taken into account.

CONCLUSION:

The relevance of the topic, the use of modern scientific methods and the important practical results obtained and the significance of the conclusions and contributions of the dissertation work give me reason to confidently state that the work of SLAVI HRISTOV PACHALOV meets the requirements of the Act on the Development of the Academic Staff in Bulgaria for the acquisition of the scientific and educational degree "doctor".

Based on the above, I recommend that the members of the scientific jury vote positively for the award of the scientific and educational degree "doctor" to SLAVI HRISTOV PACHALOV.

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Prof. Dr. Karolina Lyubomirova, MD

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