

OPINION

by Prof. Petko Nenkov Salchev, MD

Member of the scientific jury for the procedure for the defense of the dissertation work, according to Order No. RD-24/13.01.2023 of the Director of the National Center for Disease Control and Prevention on the topic "Application and implementation of the TDABC methodology - valuation based on the activity and its duration in eye clinics in Bulgaria in the treatment of patients with macular degeneration".

The announced competition is for the acquisition of an educational and scientific degree "Doctor" in the field of higher education 7. "Health and sport" in the professional direction 7.1. "Medicine" in the scientific specialty "Social Medicine and Health Management", with candidate Adriana Miroslavova Dacheva.

The opinion was prepared in accordance with the requirements of the Law on the Development of the Academic Staff in the Republic of Bulgaria and the Regulations for the Terms and Conditions for the Acquisition of Scientific Degrees and the Occupancy of Academic Skills at the National Center for Public Health and Analysis (NCPHA).

Adriana Dacheva has been enrolled as a doctoral student on independent training with the Order of the Director of the National Health Center No. RD-530, as of 11.11.2021, in the doctoral program: "Social Medicine and Green Management". The doctoral student has the required number of points, according to Appendix 1. Minimum national requirements for scientific and teaching activities.

She is the author and co-author of scientific publications, monographs, books, posters at scientific conferences.

Actuality

The dissertation is dedicated to a current topic. Health systems operate under limited financial resources, which often lead to misallocation and inadequate care. Benefit measurement in the health care system enables a shift from a fee-for-service model to a benefit-based system of care.

The present work is devoted to the application of the TDABC (Time-driven activity-based costing) methodology in patients with age-related macular degeneration. The application of this methodology aims to structure the measurement of clinical results and research related to the patient's quality of life in order to improve the activity through regular data processing and analysis, as well as to track the effect of the specific therapy on the quality of life of the patient. the patients.

Characteristics of the dissertation work

The dissertation work is designed according to the requirements of the Regulations for the Terms and Conditions for the Acquisition of Scientific Degrees and the Occupancy of Academic Skills at the National Center for Public Health and Analysis (NCPHA).

The text is clear, well-structured and there is an adequate balance between the individual sections.

The development is presented on 158 pages and includes all the necessary elements: introduction, literature review, research methodology, discussion of results, conclusions, predictions. The bibliography includes 113 literary sources, of which 9 are in Cyrillic and 104 are in Latin. The work is illustrated with 25 tables and 12 figures. Internationally certified

questions and methodologies for assessing patients' quality of life are applied.

The analysis made in the literature review shows the good awareness of the dissertation student regarding the research problem, the skills to work with scientific literature, as well as to discuss different opinions and generalizations.

The whole and the tasks of the dissertation, as well as the working hypothesis, the subject and the object of the research are presented correctly. Set are 7 and derive the added goal.

The dissertation used a sociological method through questions, individual interviews, group interviews with medical staff, field observations in the clinic, electronic records with a database. A static method was applied by using a model developed by the dissertation in Microsoft Excel with the aim of sustainability of the activity in each of the steps in the process of providing medical care is

The timing method was used to estimate the time, and an average value was calculated for performing the procedure for all patients.

Results, conclusions and statements, contributions

As a result of the applied methods, the following were created: schemes reflecting the sequence and duration of the processes of the procedure before and after the optimization, a comparative analysis of the time for conducting the process for intravitreal application, a financial model, the calculation of the remuneration of the participating personnel and the present analysis and comments. affecting management and technical decisions.

The dissertation ends with the formulation of 8 conclusions, which are logically following from the added goals, tasks and analysis of the results. 4 recommendations are given, addressed to eye clinics, which are the basis for future application of the TDABC methodology with a focus on the patient, health outcomes, human and financial resources with active participation of senior management during the entire process.

The contributions of the dissertation have both a scientific-theoretical and a scientific-applied nature and reflect the results obtained.

For the first time in Bulgaria, an external evaluation, cost analysis, process analysis, management team structure and technical solutions in ophthalmology for patients with macular degeneration was conducted by introducing the concept of benefit-based healthcare, and in particular - application of the TDABC methodology.

Personal contribution of the author

The author was personally involved in all stages of the study - planning, design development, management, coordination and control in the collection of information, in its analysis and processing. The dissertation work shows that Adriana Dacheva has in-depth knowledge, professional and personal qualities to carry out independently of research activity. The work is written in a stylistically good language; it gives a complete picture of the work done.

Scientific publications related to the dissertation

The doctoral student has 8 published articles, of which 2 in Bulgarian and 6 in international journals and 7 participations in international scientific forums related to the dissertation.

Abstract

The abstract fully reflects the achievements of the doctoral student, synthesizes the content of the dissertation development and is fully compliant with the requirements of the Law on the Development of the Academic Staff in the Republic of Bulgaria, the Regulations for its Application and the Regulations for the Terms and Conditions for Acquiring Scientific Degrees and Holding Academic Positions in NCPHA.

CONCLUSION

I positively evaluate the dissertation work. The presented development is an in-depth study of a current worldwide problem, for the solution of which the implementation of an innovative and new for Bulgaria methodology - TDABC (valuation based on the activity and its duration), developed by Harvard Business School is proposed. It contains all the necessary elements. The study has a scientific and practical orientation, and the topic is undoubtedly current and dissertable.

The dissertation fully meets the requirements of the Law on the Development of the Academic Staff in Bulgaria, the Regulations for the Application of the Law on the Development of the Academic Staff in Bulgaria and the Regulations on the Terms and Conditions for Acquiring Scientific Degrees and Holding Academic Positions in the National Academy of Sciences for the Awarding of Educational and a scientific degree "doctor" in the scientific specialty "Social Medicine and Health Management".

The above considerations give me reason to confidently suggest to the members of the esteemed scientific jury to vote positively for awarding the educational and scientific degree "Doctor" to Adriana Miroslavova Dacheva.

09/02/2023

Prepared by:
Prof. Dr. Petko Salchev, MD

