

STATEMENT

From

Prof. Elena Shipkovenska, MD, PhD

on dissertation

"Electronic System for Management of Obstetric Care in Outpatient Care", for the award of the educational and scientific degree "Doctor" in the scientific specialty "Health Care Management".

PhD student: Inna Stoyanova Nenova

Research Supervisors. Prof. Silvia Borisova, PhD

Assoc. Prof. prof. Ing. Prof. Margreta Vassileva, PhD

General introduction to the procedure

The dissertation defense procedure of Inna Stoyanova Nenova on the topic "Electronic system for management of obstetric care in outpatient care" in the doctoral program "Health Care Management", in the professional field 7.4 Public Health of higher education area 7." Health and Sport" is conducted in accordance with the Order of the Rector of MU - Varna R-109-548 from 06.12.2023 on the proposal of the Head of the Department of Health Care Assoc. K. Eguruze, D.Oz to the Dean of the Faculty of Health Care Prof. A. 102-2803/15.11.2023.

The candidate has submitted all the necessary documents for the competition as provided for in the Academic Staff Development Act and the Regulations on the Conditions and Procedure for the Acquisition of Scientific Degrees and the Occupation of Academic Positions at MU- Varna.

Analysis and evaluation of the dissertation

The dissertation is structured in accordance with the requirements for a scientific study. It is 209 standard typewritten pages and includes an Introduction; Literature Review; Aim and Objectives; Materials and Methods; Results and Discussion; Electronic Midwifery Care Management System - Practical Application; Conclusions; Recommendations; Contributions; References. It is illustrated with 66 figures, 27 tables and 8 appendices.

Relevance of the work. The topic "Electronic system for management of obstetric care" is topical due to the increased interest of global and national health institutions in the implementation of computer technology for a better level of collection, processing and management of the growing volume of health information. For this reason, the work of Inna Stoyanova Nenova is timely and practically oriented, as it is an attempt, based on its own

theoretical and empirical study, to develop and propose a methodology for creating an electronic system for the management of obstetric care in outpatient care. The expectation is that the availability of an electronic record giving access to information to all parties involved in the diagnostic and treatment process in real time will shorten this process and facilitate it.

The introduction reflects the significance of the issue under study.

The literature review is based on 181 literature sources, of which 77 in Cyrillic and 104 in Latin. The review discusses historical aspects of midwifery care-experiences and practices; nursing documentation and its digitization, the possibilities of integrating the electronic obstetric record into medical software and the use of the record for telemedicine. The literature review demonstrates that integrating patient information into an electronically based midwifery record can improve quality of patient care, clinical outcomes, and interprofessional communication.

Comment on the purpose and methods of the study:

The present research work is the result of the author's efforts and interests in the field of obstetrics and outpatient care. **The aim** is clearly stated, "To investigate and optimize the management of obstetric care by developing a methodology for integrating an electronic obstetric record in outpatient care. "Four working hypotheses are formulated. The study includes theoretical and empirical research, using content analysis (quantitative analysis) of documentation, sociological methods of in-depth and standardized interview, SWOT analysis. A relational model was used to select a database management system.

Classical statistical methods of analysis are applied and the results are presented in informative tables and graphical summaries.

Discussion on the studies conducted:

1. *This theoretical study* contributes to uncovering the nature of the autonomous activities of the midwife in outpatient care, evaluates specific midwifery documentation and the possibilities of creating, processing and maintaining the information necessary for planning midwifery care. Findings from the analysis of international practice show that in many countries midwifery is an independent profession with conscious roles and functions in the provision of care - independent, dependent and interdependent. Contrary to global trends, midwives in Bulgaria are limited in their independent competencies. According to the theoretical analysis, there are conditions for actions aimed at changing the perception of midwifery and promoting autonomy in outpatient care in Bulgaria.
2. *The empirical study* highlights the need for the introduction of an electronic midwifery record to replace paper records and build on them with a nursing plan, specific midwifery documentation and a greater volume of data relating to the care of pregnant women.

The conclusion, findings and recommendations follow the analysis of the survey results.

Contributions:

1. A historical review of the development of midwifery care internationally and in Bulgaria and an analysis of normative documents concerning specific documentation of midwifery care are presented.
2. For the first time, the readiness of midwives from outpatient care, university professors and experts from the BFPA structures regarding the introduction of an electronic midwifery record including a midwifery care plan is determined.
3. An "Electronic Obstetric Record" has been developed and new approaches in the organization of obstetric activities have been proposed in order to realize the complete care of the woman during pregnancy, during delivery and after delivery.
4. A methodology for the creation of an electronic system for the management of obstetric care in outpatient care with the introduction of additional software is proposed.

The dissertation is mainly the work of the dissertator. In connection with it, four scientific presentations have been made at scientific forums.

The abstract to the dissertation reflects correctly the structure of the dissertation and contains the most significant results of the study.

Personal impressions I have no personal impressions of Inna Stoyanova Nenova.

CONCLUSION

The presented dissertation demonstrates the ability of the dissertant to pose a scientific thesis, to propose an appropriate methodological toolkit for its study, to correctly select and process primary material, to draw statistically reliable conclusions and to indicate specific steps to solve the problem.

All of the above mentioned in the review gives me the reason to vote "positively" and to confidently recommend to the honorable members of the Scientific Jury to vote positively for the award of the educational and scientific degree "**Doctor**" to Inna Stoyanova Nenova in the field of higher education. 7 Health and Sport ; Professional field. Public Health; Scientific speciality: Health Care Management.

15.01.2024 г.

Signature: (

Заличено на основание чл. 5,
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Prof. E.Shipkovenska, PhD