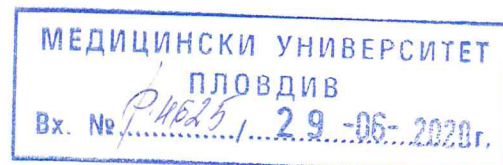


**TO THE CHAIRMAN OF THE SCIENTIFIC JURY
ACCORDING TO ORDER N° P-967 / 19.06.2020г.
OF THE RECTOR OF MU-PLOVDIV**



THESIS OPINION

by Assoc. Prof. Milena Dimitrova Karcheva, MD, PhD

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Ref: Defence of Dissertation thesis of Dr. Vanya Rangelova Rangelova, Assistant in Department „Epidemiology and Disaster medicine“ at “Public Health” Faculty, Medical University-Plovdiv, to acquire educational and scientific degree DOCTOR on scientific speciality Epidemiology. Dissertation Thesis: “Clinical-epidemiologic, microbiologic and financial aspects of hospital acquired infections (HAI) in the neonate.

The candidate has submitted all envisaged in Act on the development of the academic composition in the Republic of Bulgaria and RULES for the implementation of the Academic Development Act in MU-Plovdiv.

I declare I have not conflicts of interests with the candidate.

1.ANNOTATION OF THE DISSERTATION THESIS

The significance of nosocomial infections is undisputable for health care in worldwide scale. Reference is made to specific types of infections, acquired during medical care where specific progression of epidemic process is being observed. The implementation of targeted prophylactics and measures against nosocomial infections demands comprehensive investigation, including: aetiology, distribution, risk factors, clinical progression, trends, that to serve for taking adequate managing decisions.

The dissertation thesis survey and analyze clinical-epidemiologic, microbiologic and financial aspects of infections, related to medical services during neonatal period. Recommendations for optimization, supervision and control of nosocomial infections are given.

2. ANALYSES AND EVALUATION OF DISSERTATION THESIS

2.1 Volume and structure

The dissertation thesis of Dr. Vanya Rangelova was prepared on 184 standard pages, visualised with 48 figures, 20 tables and 5 appendixes.

The dissertation thesis is presented in the established form and includes following chapters: Introduction /2 pgs/; Review /55 pgs/ with critical evaluation and status of the issue of ISMO, with priority Infections in neonatology; Author's survey /6pgs/ with correctly formulated objective and 5 tasks; in Chapter "Material and methods" are shown the units of observation, criteria, indexes, manners and methods, required for performance of envisaged objectives and tasks; Results and discussion /79 pgs/ - presented in the context of objective and tasks, analyzed and visualized; Conclusions /2 pgs/ - 10 conclusions are presented on the base of survey results; Contributions /2 pgs/ - two contribution of original nature: 1. A compressive epidemiologic and microbiologic analyses of the survey results on the dynamics and trends of ISMO during neonatology intensive care was made for the first time. Determinants for modeling of the disease are shown. 2. Financial analyses was made for the first time on direct expenses for treatment of newborns, diagnosed with Ventilation Acquired Pneumonia during stay in intensive care unit; contribution enriching the existing knowledge – three and contributions with scientific-applicable nature – four; References - /25 pgs/ - 490 sources, reference is contemporary and comprehensive, scientific works cited, related to investigated issues; As critical note is the less sources in Cyrillic language and not placing them in beginning of the reference.

2.2 Evaluation of presented dissertation thesis.

The presented dissertation thesis has the following merits I highly appreciate-timeliness/choice of thesis, which is leading in modern healthcare, in particular cares for newborns/, significance / number of issues on focus, important for medical practice/, scientific approach / the author demonstrates ability to investigate, analyze and summarize/, comprehensive formulated conclusions with perspective of prevention, assurance /for that purpose author uses modern methodology and statistical software/. The dissertation thesis is written in scientific manner, properly visualized. The results of the survey are presented in publications and scientific forums at home and abroad.

CONCLUSION

Presented dissertation thesis was elaborated in compliance to requirements for acquiring the educational and scientific degree DOCTOR which give me reason for positive vote to Dr. Vanya Rangelova.

June, 2020
Pleven town

Member of the Scientific Jury
/Assoc. Prof. Milena Dimitrova Karcheva, MD, PhD/

