

OPINION

from

Prof. Dr. Stefan Vasilev Peev, Ph.D. DSc

regarding

dissertation for obtaining the educational and scientific degree "Doctor"
in the doctoral program "Surgery",

on topic

"Values of procalcitonin and delta neutrophil index in surgery of inflammatory diseases of the head
and neck"

by

Dr. Yanko Georgiev Yankov,

PhD student at the Department of "General and Operative Surgery", Faculty of Medicine at the

Medical University "Prof. Dr. Paraskev Stoyanov" - Varna,

according to order No. R-109-410/26.10.2022 of the Rector of MU-Varna.

Biographical data

Dr. Yanko Georgiev Yankov was born in 1989 in the town of Shumen. Graduated from "Nancho Popovich" Secondary School - Shumen in 2008 with excellent results. In 2014, he graduated in "Medicine" at the Medical University "Prof. Dr. Paraskev Stoyanov" - Varna and was awarded the "Golden Hippocrates" award and the "First Degree" award from the Bulgarian Medical Union for excellent success.

In 2015, he started working as a doctor in the Clinic for Maxillofacial Surgery at "Sveta Marina" UMBAL EAD - Varna, where he currently works.

In 2016, he graduated with a master's degree in Healthcare Management at the Medical University "Prof. Dr. Paraskev Stoyanov" – Varna.

In the period February 2019 - October 2019, he worked as a honorary assistant in Oral and Maxillofacial Surgery at the Departments of Oral and Maxillofacial Surgery (Faculty of Dental Medicine) and General and Operative Surgery (Faculty of Medicine) at Medical University "Prof. Dr. Paraskev Stoyanov" – Varna.

In 2019, I was employed as an Assistant Professor in Maxillofacial Surgery at the Department of General and Operative Surgery in the same university.

In July 2020, he acquired a specialty in maxillofacial surgery.

From September 2021, he is a PhD student in "Surgery" at the Department of General and Operative Surgery of the Medical University - Varna.

Dissertation

The dissertation is written on 104 pages. The topic is current and significant.

Literary awareness

The literature review occupies 20 pages. The bibliography contains 135 sources. The literature review is comprehensive and up-to-date.

Aim and tasks

The aim of the dissertation is to determine the diagnostic value of procalcitonin (PCT) and delta neutrophil index (DNI), their predictability, sensitivity and specificity in inflammatory diseases of the head and neck and to analyze their advantages and disadvantages in the diagnostic-therapeutic plan of these diseases relative to already established markers of inflammation such as WBC, neutrophils and CRP.

The following tasks have been set to fulfill the thus formulated goal:

1. Determination of the mean values of PCT, DNI, CRP, WBC and neutrophils in the study group of patients with head and neck abscesses, the subgroups of patients with odontogenic abscesses, with non-odontogenic abscesses and the control group of healthy people;
2. Determination and analysis of gender differences regarding the studied markers PCT, DNI, CRP, WBC and neutrophils in the study population;
3. Determination and analysis of correlations between PCT, DNI, CRP, WBC and neutrophils in the study group of patients with head and neck abscesses, in the subgroups with odontogenic and non-odontogenic abscesses and in the control group of healthy people;

4. Determination of cut-off diagnostic and reference values of PCT and DNI in the studied groups of patients with odontogenic and non-odontogenic head and neck abscesses;
5. Determination of sensitivity, specificity and predictability of PCT, DNI, CRP, WBC and neutrophils in the studied group of patients with odontogenic and non-odontogenic head and neck abscesses.

The tasks defined in this way are logically related to the set goal.

Material and methodology

The studies that are included in the dissertation have an original design and use modern and objective research methods.

Result and analysis of results.

The results of the conducted research are properly documented and presented and correctly statistically analyzed.

Conclusions and contributions

5 conclusions have been made, resulting from the analysis of the obtained results.
5 real contributions are identified.

CONCLUSION:

The dissertation work of Dr. Yanko Georgiev Yankov on the topic "Values of procalcitonin and the delta neutrophil index in the surgery of inflammatory diseases of the head and neck" meets the requirements for awarding the the educational and scientific degree "Doctor". I will vote positively for awarding the educational and scientific degree "Doctor" in the doctoral program "Surgery" to Dr. Yanko Georgiev Yankov.

Varna

14.10.2022



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Prof. Dr. Stefan Peev, PhD, DSc