

OPINION
FROM ASSOC. PROF. LACHEZAR BOYANOV LOZANOV, MD, PhD
HEAD OF THE CLINIC FOR INTERNAL DISEASES AT AJIBADEM CITY CLINIC
UMBAL TOKUDA EAD

**SUBJECT: DISSERTATION WORK ON THE TOPIC "INTERVENTIONAL
TREATMENT IN PATIENTS WITH STEM STENOSIS AND ASSOCIATED
COMPLEX CORONARY PATHOLOGY"**

DOCTORAL STUDENT: IVAYLA JIVKOVA ZHELEVA-KYUCHUKOVA,
DOCTORAL STUDENT OF INDEPENDENT TRAINING IN THE SCIENTIFIC
SPECIALTY "INTERNAL DISEASES"

SCIENTIFIC SUPERVISOR: PROF. MILENA STANEVA STANEVA, MD, PhD.

By order of the Executive Director and the Procurator of Acibadem City Clinic UMBAL Tokuda EAD №355 / 21.07 2021 I have been appointed a member of the SJ for awarding PhD to the doctoral student of independent training=

At the first absentee meeting of the scientific jury, I was appointed to prepare an opinion.

1. GENERAL PROVISIONS

The set of documents presented by the doctoral student Dr. Ivayla Zhivkova Jeleva is in full compliance with the legal requirements. Dr. Ivayla Zhivkova Jeleva graduated from high school with a degree in English. In 1999 she graduated from the Medical University of Sofia. She works as an intern in the cardiology department of the hospital "St. Catherine. In 2009 acquired a specialty in "Internal Medicine", and in 2013 - a specialty in "Cardiology".

Since 2009 she has been working in the angiography laboratory of UMBALUM Pirogov Hospital and since 2013 she has moved to Tokuda Hospital and until now she works in the Cardiology Clinic of Acibdem City Clinic UMBAL Tokuda.

She was enrolled as a doctoral student in self-study in 2017 (Order № 426 / 28.09.2017 and Order № 665 / 28.10.2020 for one-year extension). № 229 / 25.05.2021.

2. ACTUALITY OF WORK

Despite significant advances in the revascularization of patients with stem stenosis, many issues remain unresolved, such as the risk of developing restenosis and the need for revascularization. At the same time, there has been an increase in the efficiency and safety of this procedure as a result of the development of new techniques and the routine use of second-generation CIS, but the issues are still considered debatable. This dissertation is dedicated to solving most of the discussion questions.

3. STRUCTURE OF THE DISSERTATION WORK

The dissertation is developed on 158 pages and includes an introduction, research methodology with a description of the objectives, materials, methods and design of the study, analysis of results, discussion, conclusions and recommendations, bibliography with 276 authors, of which 6 in Cyrillic. The work is illustrated with 62 figures and 19 tables.

3.1. Literature review

The literature review is 38 pages long and presents a comprehensive state of the problem, shows the very good awareness of the author regarding the diagnosis and treatment of patients with stem stenosis, with very good information on the topic of the dissertation.

3.2. Research methodology

The goal is properly formulated and is aimed at determining the effectiveness and safety of the procedure in terms of early and remote (2-year) prognosis, as well as the identification of predictors of adverse major events.

To achieve this goal, 6 ambitious tasks have been set.

The methodological approaches were chosen correctly - the study included 53 patients with unprotected stem stenosis and Syntax Score ≥ 32 ($SS \geq 32$) and a control group with 83 patients with unprotected stem stenosis and Syntax Score < 32). I appreciate the in-depth description of the pre-procedural preparation.

The statistical methods and the performed analyzes are adequately selected, which supports the reliability of the obtained results and the made recommendations.

3.3. Results - presentation and discussion

The obtained results, well illustrated, are presented with appropriate academic style on 37 pages of the dissertation and fully meet the objectives of the study.

The discussion of the results is presented on 25 pages, and appropriate comparisons and explanations are made in connection with the results obtained by other researchers. The presented Algorithm for behavior in patients with stem stenosis, which synthesizes the accumulated knowledge and established dependencies and results, should also be highly appreciated.

3.4. Conclusions

The conclusions (17 in number) are presented in depth and derive logically from the set goal and prove the fulfillment of the set tasks.

3.5. Abstract

The abstract is presented on 78 pages and fully reflects what is written in the dissertation. Meets legal requirements. It also presents the scientific contributions -10 in number, divided into those of scientific-applied and original nature and of a confirmatory nature. I accept the contributions presented as completely credible and I believe that they are important for the development of invasive cardiology=

I fully accept the contributions presented as completely credible and I believe that they are important for the development of invasive cardiology.

In connection with the dissertation are presented 2 full-text publications in Bulgarian journals and 4 papers at scientific congresses, of which 1 international. The submitted publications fully cover and exceed the requirements for the number of points according to the national minimum criteria.

4. CONCLUSION

The dissertation of Ivayla Zhivkova Jeleva - Kyuchukova on "Interventional treatment in patients with stem stenosis and accompanying complex coronary pathology" is an extremely in-depth scientific work that is important for clinical practice in the field of invasive cardiology. For the first time, patients with left coronary artery stenosis and complex anatomy were analyzed and monitored prospectively. The end of this work is an Algorithm for behavior in patients with stem stenosis - logically arranged and convenient for clinical practice.

The dissertation has an appropriate structure and correct distribution of the individual structural parts, presents exhaustively accumulated knowledge in this field, presents with appropriate academic style the results obtained and draws adequate and in-depth conclusions about the findings of scientific research.

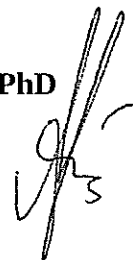
The work is written in a very nice style, with a smooth presentation and logical sequence of actions, results and conclusions and demonstrates the in-depth knowledge and rich clinical experience of the doctoral student. All legal requirements are met.

All this gives me reason to fully vote positively for the award of the educational and scientific degree "Doctor" to Dr. Ivayla Zhivkova Jeleva - Kyuchukova in the field of higher education.

7. Health and sports, professional field 7.1. Medicine, doctoral program "Cardiology" and I invite the other distinguished members of the Scientific Jury to give their positive vote.

12.08.2021

ASSOC. PROF. LACHEZAR LOZANOV, MD, PhD

A handwritten signature in black ink, consisting of several fluid, overlapping strokes. The signature is positioned to the right of the printed name.