

To
The Scientific Jury
Assigned by Order P - 109 - 105/29.01.2025
Of the Rector of MU - Varna "Prof. Dr. Paraskev Stoyanov"

OPINION

By Assoc. Prof. Teodora Nedeva Sherbanova, MD, PhD.
Deputy Head of the Department of Medical and Clinical
Diagnostic Activities, FPHHC, Angel Kanchev University of Ruse

Subject: Competition for "Associate Professor" in the field of higher education 7. Health and Sports, professional field 7.1 Medicine, specialty of "Anesthesiology and Intensive Care", Faculty of Medicine, Department of "Anesthesiology, Emergency and Intensive Care Medicine", CAIC, University Hospital "St. Marina" Varna, announced in the State Gazette, issue 101/29.11.2024.

By an Order of the Rector of MU-Varna, P - 109 - 105/29.01.2025, I have been elected as an external member of the Scientific Jury. On the basis of Protocol 1 of the Scientific Jury meeting, I have been assigned to present a statement.

I have received the necessary materials for the competition for "Associate Professor", from Senior Assistant Professor Petya Marincheva Ivanova, MD, PhD, in electronic form. They include all the required documents according to the Law on the Development of Academic Staff at MU-Varna and the Regulations for the Development of Academic Staff at MU-Varna

BIOGRAPHICAL DATA AND CAREER DEVELOPMENT OF Dr. Petya Ivanova, MD, PhD:

Dr. Petya Marincheva Ivanova was born in Varna in 1982. At the Medical University of Varna, she completed her higher education - Master of Medicine in 2007. Since the beginning of her career (2008) she has been working at the University Hospital "St. Marina", Varna, DAEICM, Clinic of Anesthesiology and Intensive Care. At CAIC she specialized in Anesthesiology and Intensive Care and in 2013 she received a diploma for specialty. In 2018, he obtained the ESD "Doctor", after defending a dissertation on the topic: "Ultrasound-guided femoral block - a method for pain relief of patients after knee joint replacement". From 2010 to 03.2025, she teaches Anesthesiology and Intensive Care to medical students at DAEICM. In the period of the years 2010 - 2019 she was an "assistant", and from 2019 to the present she is a "chief assistant".

EVALUATION OF THE SCIENTIMETRIC INDICATORS OF Dr. Petya Ivanova, MD, PhD:

In the announced competition for "Associate Professor", the candidate participates with the following scientific production, covering the period 2010 - 2024 year:

- 1 monograph on the topic "Sepsis. Biomarkers in sepsis, 2023,
- 7 publications indexed in SCOPUS/WoS, in which he is a different co-author in the collective
- 9 publications in non-referred journals with scientific review or published in edited collective volumes. In 5 of them she is the first author, in the other 2, she is the only one, and in the remaining 2

she is a consecutive author in the collective. Most of the publications in journals and collections are in Bulgarian language - 16, and 7 are in English.

- Publication in a scientific publication in a global database, cited 4 times.
- 3 publications with IF - 18,288 are attached.
- The candidate has publications submitted for the acquisition of the SED "Doctor" and the competition for "Chief Assistant".

These scientometric indicators, according to criteria C, D and E, are sufficient and even slightly exceed the minimum required number of points for occupying the academic position of "Associate Professor".

Available are active scientific profiles in Google Scholar, ResearchGate, ORCID, ResearcherID, eLibrary.

Dr. Petya Ivanova, MD, PhD, is involved in:

- Scientific forums and training courses in Anesthesiology and Intensive Care, both in Bulgaria and abroad;
- In the international project "Control and Management of Infections in Intensive Care Units" 2012 - 2014
- Project under the Science Fund, on the topic "Assessment of pharmacokinetic and pharmacodynamic features of the septic patient. Preparation of personalized antibiotic regimens and introduction of procalcitonin and NGAL as early and specific diagnostic markers in patients with sepsis and benchmarks for antibiotic treatment"
- She leads classes on AIC, Emergency Medicine and AIC in dental medicine
- She is a member of professional organizations - BPS, ESRA, ESICM

EVALUATION OF THE CONTRIBUTIONS OF THE CANDIDATE'S SCIENTIFIC WORKS:

Dr. Ivanova's works demonstrate the author's main interests, concerning methods and techniques for influencing acute and chronic pain, regional analgesia and sepsis, severe infections, and biomarkers of inflammation.

After reading the publications, 3 main directions in Dr. Ivanova's scientific research can be formed, namely:

1. Methods and techniques for influencing acute and chronic pain. Regional techniques.
2. Severe infections. Biomarkers of inflammation. Sepsis.
3. Antibiotic therapy.

The contributions related to these areas can be summarized as follows:

In area 1:

Scientific and theoretical contribution: For the first time in our country, a study of the ultrasound-guided femoral block was conducted as a method for postoperative analgesia in patients after knee arthroplasty and the advantages of this technique compared to standard drug analgesia were summarized. First study in Bulgaria to introduce dexamethasone as an adjuvant to PNB, as an alternative to a long-term catheter technique.
Scientific and practical contribution: A multimodal algorithm for postoperative analgesia is proposed for patients with knee arthroplasty. A needle-free perineural catheter - type Contiplex C - is introduced into clinical practice.

In direction 2 and 3:

The anesthesiology community, AIT residents and students in Bulgaria are offered a current monographic work on the topic "Sepsis. Biomarkers in sepsis".

The published results of Dr. Ivanova's participation in 2 projects have a scientific, theoretical and practical contribution to the understanding, monitoring and treatment of severe infections.

EVALUATION OF SCIENTIFIC AND TEACHING ACTIVITIES Dr. Petya Ivanova, MD, PhD:

The candidate in the competition has been an assistant since 10.2010, and since 12.2019 has been a chief assistant in Anesthesiology and Intensive Care at DAEICM, CAIT, St. Marina Varna University Hospital. According to her academic record, her study load varies from 84 to 218 hours/year.

CONCLUSION: The career development of Dr. Petya Ivanova, MD, PhD scientometric indicators, teaching and research activities, contributions and the successfully defended Doctoral Dissertation fully comply with the requirements specified in the Law on the Academic Affairs of the Republic of Bulgaria and the Regulations for the Occupation of the Academic Position of Associate Professor at the Medical University - Varna

The above mentioned gives me reason to express my positive assessment of the candidate's professional qualities and achievements. In this competition, I will vote positively for awarding the academic position of "Associate Professor" to Dr. Petya Marincheva Ivanova, MD, PhD.

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/Assoc. Prof. Teodora Nedeva Sherbanova, MD, PhD/