

## OPINION

By Prof. Dr. Vania Milocheva Youroukova, MD, Professor in the Department of Lung Diseases, Faculty of Medicine at the Medical University - Sofia, member of the scientific jury for the competition for the academic position of "Associate Professor" in 7. Health and Sports ", Direction 7.1 "medicine", scientific specialty "Pneumology and phthiology", Educational Sector for Lung Diseases and Allergology, First Department of Internal Medicine, Faculty of Medicine, Clinic Lung Diseases To the University MHAT" St. Marina" - Varna published in the State Gazette, issue 61 of 23.07.2021.

The opinion was prepared on the basis of Order №P-109-397 / 20.09.2021. of the Rector of MU "Prof. Dr. Paraskev Stoyanov" - Varna and is in accordance with the Law on the Development of Academic Staff in the Republic of Bulgaria and the Regulations for the Development of Academic Staff at the Medical University - Varna.

Documents for one of the above-mentioned competitions have been submitted by one candidate - Ch. Assistant Professor Pavlina Angelova Peneva, MD, PhD, First Department of Internal Medicine, Faculty of Medicine, Medical University, Varna. The documents were submitted in time and were reviewed by the Commission for admission to the competition..

### I. Brief biographical data of the applicant

Dr. Pavlina Peneva graduated from the Medical University of Varna in 2001. In the period 2001-2009 she worked as a doctor at the Medical Center "Dr. Denev", Medical Center "Dr. Petar Genov", Medical Center "Equita" and „Medical Center „Sirius“. Since 2009 she has been working at the UMHAT "St. Marina". In 2010 she acquired a degree in internal medicine, and in 2014 a degree in pneumology and phthiology. Since 2016 she has been a full-time assistant at the First Department of Internal Medicine. In 2019 she acquired "PhD" degree "Lung Diseases", code 03.01.17 after successfully defending a dissertation on "Prognostic markers for clinical and laboratory evaluation of patients with sepsis". Since 2020 she has been chief assistant to the First Department of Internal Medicine. Dr. Peneva specializes in Clinic of Nephrology, Dialysis and Transplantation in Bari. Fluent in written and spoken English and Russian.

### II. Research activity

#### 1. Publications

- A dissertation for the acquisition of the educational scientific degree "Prognostic markers for clinical and laboratory evaluation of patients with sepsis" was presented, Varna, 2018.

- Habilitation work is also presented - monograph: Sepsis - known and dangerously unknown. MU-Varna; 2020. ISSN 978-619-221-269-8.

- Dr. Pavlina Peneva presents a total of 11 scientific publications for participation in the competition, after acquiring "PhD scientific degree. Of these, 2 in journals that are referenced and indexed in world-famous databases of scientific information and 9 articles in non-refereed journals with scientific review. In addition to the minimum scientific and metric requirements for holding

the academic position of "Associate Professor", three publications in scientific journals and collections are presented.

- In connection with participation in the competition for the acquisition of scientific title "PhD" Dr. Pavlina Peneva has presented four articles published in journals with scientific review.

## 2. Citation

There are 7 citations, of which 6 in monographs and 1 in an unrefereed journal with scientific review.

## 3. Participation in scientific forums

Dr. Peneva presents 4 participations in congresses and conferences, of which 3 in Bulgaria and 1 international congress.

## 4. Profile of the scientific work and contributions of original character

The dissertation "Prognostic markers for clinical and laboratory evaluation of patients with sepsis" offers new approaches for early diagnosis of sepsis. Prospective non-interventional single-center clinical follow-up was performed. For the first time in our country the Delta Neutrophil Index (DNI) is used as a marker for the assessment of sepsis and septic shock, the relationship of DNI with IL-8 and protein C is assessed, an algorithm for the assessment of septic patients is proposed.

The proposed algorithm is of important practical importance as it will contribute to the early coverage of septic patients, start early treatment and reduce the risk of long-term consequences.

The accumulated scientific information about sepsis is collected in the monograph "Sepsis-known and a dangerous stranger. " The monograph discusses the diagnosis and treatment of sepsis and septic shock, the location and indications for artificial lung ventilation.

Many of Dr. Peneva's scientific publications (4) are related to early diagnosis of lung infections, development of septic condition and early treatment. All publications are written clearly and accurately, in understandable scientific language. They complement our knowledge of the presented problems very well. In them, Dr. Peneva focuses on the diagnosis of sepsis, the Delta Neutrophil Index as an early prognostic marker for sepsis and the qSOFA and SIRS scores, non-invasive ventilation.

Dr. Peneva's research interests are not just about sepsis. Two reviews examined the new COVID-19 challenge, the clinical course of SARS-CoV2, the organizational arrangements for anti-epidemiological measures in healthcare facilities, their impact on the volume and quality of healthcare.

Two scientific reports are on influenza and prevention, two on vitamins and vitamin K and osteoporosis, and 1 on biological treatment of bronchial asthma.

Three of the publications are in English and eight are in Bulgarian.

In 10 publications Dr. P. Peneva is the first author, of which 5 are independent.

## III. Teaching activities.

- Dr. P. Peneva presents the following report on teaching activities for the last two school years (2019/2020 and 2020/2021): classroom employment from student training (Bulgarian and English) from lectures and exercises by module "Lung diseases" from the cycle "Internal diseases"

of medical students 4th year - 156 hours of exercises for 2019/2020 and 240 hours of exercises and 4 hours of lectures for 2020/2021 The average annual workload of Dr. Peneva for the last two years is 200 .hours / year.

#### IV. Professional qualification and diagnostic and treatment activities

Dr. Peneva holds a degree in Internal Medicine and Pneumology and Phthisiology. He has a total work experience of 18 years and 0 months 17 days, and as a doctor in the field of pneumology and tuberculosis 7 years 7 months and 22 days.

Since 2012 she has been working as a doctor at the University MHAT"St. Marina " since September 8, 2016 she has been a physician assistant. Since October 19, 2020 she has been a chief assistant or the total teaching experience is 5 years, 0 months and 5 days.


#### V. Compliance with minimum national requirements

From the presented table according to Law on the Development of Academic Staff in the Republic of Bulgaria and the Regulations for the Development of Academic Staff at the Medical University - Varna., the fulfillment of the minimum national requirements by groups of indicators is as follows:

- Group A - completed - 50 points;
- Group B - completed: Monograph - 100 points;
- Group D - completed: mandatory minimum of 200 points;
- Group E - completed: required minimum of 70 points cited;
- Group E - fulfilled: minimum requirements 80 points;
- Group G - Regarding the teaching activity: study load for the last two years 200 teaching hours.

Conclusion: From the submitted materials of the candidate found that it meets the minimum requirements set by the Academic Staff Development Act and the Regulations for the development of the academic staff at the Medical University "Prof. Dr. P. Stoyanov "- Varna. After careful review of the materials provided by the candidate, I give a positive assessment of Dr. Pavlina Peneva, MD. I recommend the Scientific Jury to be presented for election to the academic position of" Associate Professor "from The Faculty Council.

01.12.2021  
Sofia

  
/ prof. Dr. Vania Youroukova, MD /