

## REVIEW

by Prof. Dr. Maria Milanova, dmn

Head of Cardiology Clinic at UMBALSM "N.I. Pirogov" EAD - Sofia

Member of the Scientific Jury, appointed by Order No. RD-26-2023/18.10.2023 of the Executive Director of N.I. Pirogov UMBALSM.

Regarding: Competition for the occupation of the academic position of "professor" in the field of higher education 7. Health care and sports in Professional direction 7.1 Medicine and scientific specialty "Internal diseases", announced in SG No. 46 of 26.05. 2023

One candidate appeared in the competition, Associate Professor Petar Yordanov Atanasov, PhD, who was admitted to participate by a committee appointed by Executive Director's Order No. RD-26-1691/29.08.2023 and fulfilled the requirements of Art. . 70, para. 2 of the Regulations for the Development of the Academic Staff of UMBALSM "N.I. Pirogov" EAD - Sofia.

All stages and deadlines have been met.

I have no conflict of interest and have no objections to the documents provided to me for review preparation.

Biographical data.

Dr. Petar Yordanov Atanasov was born on 27.05.1962 in the city of Sofia. He graduated from high school in Kyustendil in 1980. In 1988 he graduated from Medical Academy - Higher Medical Institute in Sofia. He has acquired three medical specialties: "Internal Diseases", "Clinical Hematology" and "Emergency Medicine" respectively in 1993, 2000 and 2020. In addition to them, he has additional master's qualifications in the specialties "Scientific Medical Information" and "Management" ". Since January 2016, he has been awarded the educational and scientific degree DOCTOR OF MEDICINE (scientific specialty Internal Medicine), after successfully defending a dissertation on the topic "Epidemiology and etiology of anemia in urgently hospitalized patients over 80 years of age".

From 19.12.2016, after winning the competition, announced in SG No. 43 of 07.06.2016, based on a decision of the SC (protocol No. SC-06-16 of 14.12.2016), was appointed to the academic position of "associate professor" in "Internal Diseases" at the KVB (Clinic of Internal Diseases).

#### Professional Development.

Dr. Atanasov has 35 years of professional experience. He started working as a resident doctor in the 1st internal department of the ORB, Kyustendil, in 1988. From the beginning of 1991, he worked as the head of the Intensive Sector of the same department. From 1992 to 2013, he worked as an internist in Clinic of Internal Diseases - UMBALSM "Pirogov", and from 2013 to 2014 as a hematologist in the Clinic of Transfusion Hematology and Immunology. From February 2014, after a competition, he was appointed to the position of "Assistant" at the same clinic. From March 2014 to the present, he has been serving as the Head of Internal Medicine Clinic - Pirogov UMBALSM.

#### Academic and scientific activity.

Prof. Atanasov participated in the current competition with 50 full-text publications, 17 of which are referenced in global databases, two chapters in textbooks and one book published on the basis of a defended dissertation work. The specified production fully meets and exceeds the scientific-metric criteria and indicators laid down in the Regulations for the Development of the Academic Staff of "UMBALSM N.I. Pirogov" EAD - Sofia. The distribution in points is as follows:

Indicator	Content	Professor Minimum points according to the national requirements	Required points University Emergency Hospital 'N.I. Pirogov'	Results – scientific metrics of the candidate
A	Indicator 1	50	<b>50</b>	<b>50</b>

B	Indicator 2	-	-	-
C	Indicator 3 or 4	100	<b>100</b>	<b>100.83</b>
D	Sum of the indicators 5 to 9	200 (160 indicates 7.6)	<b>300</b>	<b>432.19</b>
E	Sum of the indicators 10 to 12	100	<b>100</b>	<b>2 310</b>
F	Sum of the indicators 13 to the end	100	<b>100</b>	<b>541.6</b>
G	IF (requirement by University Emergency Hospital 'N.I. Pirogov', only)	-	<b>10</b>	<b>82.91</b>

In addition to the presented publication activity, Prof. Atanasov has participated in over 200 national and international scientific congresses and symposia on: Internal Medicine, Toxicology, Clinical Hematology, Transfusion Hematology, Emergency Medicine, Pharmacology, Pharmaceutical Chemistry, Inorganic Chemistry. Participates in several scientific projects, including international ones. He is the scientific supervisor of two full-time doctoral students in the scientific specialty "Pharmacy", one independent doctoral student in "Emergency Medicine" and one successfully defended doctoral student in "Internal Diseases". He supervises three specialists in "Internal Diseases" and participates in the committees for conducting colloquiums, determined by Order of the rector of the MU - Sofia, in the specialties "Internal Diseases" and "Emergency Medicine". He has a continuous teaching activity, in addition to specialists and students, as a supervisor of summer internships and practices.

#### Scientific and applied contributions

The scientific and applied contributions of Prof. Atanasov can be divided into three categories:

## 1. In the field of Internal Medicine:

The epidemiology and the nosologically determined cause-and-effect relationship in patients with anemia over the age of 80 years, hospitalized and treated in an emergency setting were studied; the frequency and aberrancy of clinical manifestations in emergency conditions in Internal Medicine caused by atypical viral infections are systematized; diagnostic and therapeutic algorithms for emergency conditions in Internal Medicine caused by atypical viral infections are proposed; algorithms for diagnosis and treatment of socially significant diseases caused by atypical infections were created; a study was conducted on the course of moderate and severe forms of complicated coronavirus infection (specifically, coronavirus pneumonia) in patients in different age groups; mortality was tracked in patients with moderate and severe forms of coronavirus infection in different age groups without accompanying diseases and in patients with one, two and more accompanying diseases; patients of different age groups were followed in the post-covid period within one and two years in order to establish possible laboratory correlations with the experienced coronavirus infection; the severity, the frequency of complications (incl. the frequency of intubation) and the duration of moderate and severe forms of complicated coronavirus infection in the groups of smokers and non-smokers were studied and analyzed.

## 2. In the field of Clinical Hematology and Clinical Toxicology;

The frequency and severity of acute intoxications with heavy metals © in particular Lead and related complications in hematopoiesis damage, as well as domestic intoxications with home-grown plants, including herbal treatment (and self-medication), were studied and preventive measures of a health-educational nature were systematized in order to prevent possible future incidents in treated patients; algorithms for diagnosis, prevention and treatment of household intoxications with agricultural poisons and related manifestations of bone marrow failure are proposed; the toxic effect of specific antipyretics, antiphlogistics, antibiotics and medicinal preparations for the treatment of secondary fungal infection used in the treatment of moderate and severe coronavirus infection was analyzed; protocols for complex hepatoprotective therapy were implemented in patients with moderate and severe forms of coronavirus infection; studies have been conducted and is established the frequency of lymphocytopenic states with and without a resultant defect in humoral immunity among different age groups of patients in the course of moderate and severe forms of complicated coronavirus

infection; a study was conducted on the hepatotoxicity of fluorinated triazoles in the conditions of antifungal prophylaxis in patients on long-term antibacterial therapy for moderate and severe forms of complicated coronavirus infection.

### 3. In the field of Pharmacology and Pharmacy;

A clinical-laboratory study of the biological properties of Coumarins, including new biological effects unexplored until now; presented systematized data on the most prominent properties of Coumarins, including anticoagulant, antimicrobial, antispasmodic, antitumor, antioxidant, etc.; the results of studies on the structure-activity relationship of newly synthesized compounds from the Coumarin group are presented in order to determine the most effective substitutes in medical practice; HPLC (high-performance liquid chromatography) methods with UV detection have been developed for the determination of some substances of natural origin with antioxidant potential; analytical and pharmacological studies on the influence of a number of components with biological and antioxidant activity that are included in food supplements, some of which are used in sports, are summarized, which is a contribution to their regulation (amino acids, vitamins, xanthines); chemical stability (using HPLC methods), pharmacological activity and potential application of a new drug combination of Galantamine were studied; the antitumor and antioxidant activity of platinum-containing complexes (and other metal complexes) and their derivative structures has been investigated and proven;

#### Evaluation of research activity

From the presented information, it can be concluded that Associate Professor Petar Atanasov has a rich professional qualification and scientific practice in more than one field of medicine, and through his studies he has achieved a high level of diagnostic and therapeutic activity and has contributed to the scientific development of important specialties such as "Internal Diseases", "Clinical Hematology", "Pharmacology" and "Emergency Medicine". Through his teaching activity as a supervisor of students, specialists and doctoral students, he managed to build a qualified medical team with which to protect the important role of the Internal Medicine Clinic.

Conclusion:

Due to the stated reasons, I confidently give a positive assessment and suggest to the honorable members of the Scientific Jury to vote positively for the election of Associate Professor Petar Yordanov Atanasov, PhD, to the academic position of "Professor" in the scientific specialty "Internal Diseases" for the needs of the Clinic of Internal diseases of UMBALSM "N.I. Pirogov" EAD.

Date:.....  
City. Sofia

Signature:.....