

TO THE SCIENTIFIC JURY
APPROVED BY ORDER No. RD-26-224/31.01.2023
OF THE EXECUTIVE DIRECTOR OF UMHATEM "N.I.PIROGOV "EAD

EXPERT REVIEW

from

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On the scientific works of

Dr Boris Seryozhev Mladenov, PhD

Sen. Assistant Professor at the Clinic of Urology, N.I. Pirogov University Hospital, Sofia, Bulgaria

Subject. Health and Sport, Professional field 7.1 Medicine, in the scientific specialty "Urology" for the needs of the Clinic of Urology of UMHATEM "N.I. Pirogov" EAD, Sofia

- I. INFORMATION ON THE PROCESS OF ANNOUNCING A COMPETITION FOR FILLING THE ACADEMIC POSITION OF "DOCENT" IN THE SCIENTIFIC SPECIALTY "UROLOGY", FOR THE NEEDS OF THE CLINIC OF UROLOGY, UMHATEM N.I. Pirogov EAD, Sofia, Bulgaria.

The competition for filling a full-time academic position of "Associate Professor" in the scientific specialty "Urology" for the needs of the Clinic of Urology of UMHATEM "N.I. Pirogov" EAD, Sofia, Bulgaria was announced in the State Gazette No. 86/28.10.2022.

By Order No. RD-26-224/31.01.2023 of the Executive Director of UMHATEM "N.I. Pirogov" EAD I was appointed as a member of the Scientific Jury and the decision of the first meeting was to prepare an expert review.

Dr. Boris Seryozhev Mladenov, PhD, Senior Assistant Professor at the Clinic of Urology of UMATEM "N.I. Pirogov" EAD is the only candidate who submitted documents for participation in the competition within the legally established deadline and who meets all the requirements of the Law for the Development of the Academic Environment in the Republic of Bulgaria, the Regulations for its application and the Regulations for the conditions and procedure for the acquisition of scientific degrees and the holding of academic positions at the University Hospital "N.I. Pirogov" EAD:

1. He has acquired the educational and scientific degree "Doctor"
2. Has held the academic position of "Sen. Assistant Professor" for not less than two academic years.
3. Has been a lecturer and member of a research team at the same or another higher education institution or scientific organization.

4. Has a recognized specialty in Urology and more than 5 years of work experience in the specialty.
5. Presents scientific publications (more than 10) in publications that are refereed and indexed in world-known databases of scientific information, according to the Regulations for the conditions and procedure of acquiring scientific degrees and holding academic positions at the University Hospital "N.I. Pirogov" EAD.
6. Meets the minimum national requirements and the requirements under Article 1a, paragraph 2.
7. There is no proven plagiarism in scientific works.

On the basis of meeting the necessary requirements, Dr. Boris Mladenov was allowed participating to the competition and evaluated by the Scientific Jury.

II. BIOGRAPHICAL DATA ON THE APPLICANT RELATING TO HIS PROFESSIONAL DEVELOPMENT AND ACTIVITIES

Dr. Boris Mladenov, PhD was born in 1985. In 2010 he graduated from the Medical University - Sofia. He started his professional career at the Urology Clinic of the University Hospital "N.I. Pirogov" as a resident in Urology. In 2016 he defended his dissertation for the degree of PhD. In 2017 he obtained a specialty in Urology and completed a course in Health Management at the Medical University of Sofia.

Dr. Boris Mladenov established himself as an urologist at the University Hospital "N.I. Pirogov". He is a regular participant in national and international scientific events and a member of prestigious international professional organizations in the field of Urology.

In the documents submitted for the competition, the candidate has provided a detailed up-to-date account of his professional development and qualifications, as well as his teaching and research activities.

III. ANALYSIS AND EVALUATION OF RESEARCH ACTIVITIES AND FORMULATION OF SCIENTIFIC CONTRIBUTIONS

1. QUANTITATIVE CRITERIA FOR RESEARCH ACTIVITIES

Dr Boris Mladenov submitted 70 scientific papers for review, including:

- Dissertation with abstract -1
- Participation in chapters of the collective monograph and co-authorship in textbooks for medical students - 6
- Scientific articles in journals refereed in world databases -21
- Scientific articles in peer-reviewed journals - 42

Scientific papers are presented by number in the appropriate sections according to the type of articles. A distinction is made between first and subsequent authors. The candidate has 21 publications in journals refereed in world databases, in 4 of which he is the first author. The number of articles in non-peer-reviewed journals is 42, in 22 of which he is first author. He is the author and co-author of 5 chapters of a collective monograph and a textbook on urology for medical students in Bulgarian and English.

The candidate presents a reference for 19 citations in refereed journals with scientific peer review - 9 in SCOPUS (Elsevier) and 10 in Web of Science (Clarivate), as well as 6 in peer-reviewed journals (reference from the Central Medical Library - CML, at the Medical University - Sofia).

The total impact factor of Dr Mladenov's publications is 29,229 from the attached reference from the Central Medical Library (CML) at the Medical University - Sofia.

Dr. Boris Mladenov has participated as a member of a research team in two national projects on "Genetic features and characteristics of urinary bladder cancer", jointly with the Department of Genetics of the Faculty of Medicine, Sofia. The projects are implemented through the Scientific Research Fund (SRF), contract DM13/4 of 20.12.2017 and through MU, Sofia, contract D-60/03.05.2018.

The evaluation of the scientific-metric indicators of Dr Boris Mladenov shows that he meets the minimum national requirements for the scientific and teaching activity of candidates for the academic position of Associate Professor, from the Regulations for the implementation of the Law on the development of the academic staff of the Republic of Bulgaria and the Regulations for the acquisition of scientific degrees and holding academic positions of the University Hospital "N. I. Pirogov".

2. RESEARCH TOPICS

The scientific publications of Dr Boris Mladenov cover various fields and sections of urology.

The main topic of Dr. Mladenov's research is tumors of the genitourinary system. The published research on this topic covers the diagnosis and treatment methods of bladder and prostate carcinoma. As a member of a multidisciplinary scientific team, Dr. Boris Mladenov is a co-author of the first scientific publications in Bulgaria on the introduction of positron emission tomography (PET/CT) in the diagnosis and staging of prostate cancer, as well as on the nuclear methods for the treatment of advanced prostate cancer.

Another area of Dr. Boris Mladenov's scientific research is, quite naturally, given the profile of the medical institution in which he works, the diagnosis and treatment of trauma of the urinary and genital systems in men. On this topic Dr. Mladenov has also co-authored 4 chapters of a collective monograph "Emergency Urology". The section Emergency Urology also presents scientific papers on the topics of hematuria, acute scrotum, as well as an algorithm developed and introduced into clinical practice for the treatment of priapism.

Some of the scientific publications submitted for review are devoted to hematuria as one of the important symptoms in urology requiring a thorough and detailed examination of the patient. The interest is also justified by the topic of the dissertation, which Dr. Boris Mladenov defended, for the degree of PhD. As a cause of haematuria, the anticoagulant drugs in widespread use today have also been investigated. Dr. Mladenov has also participated as an author in a monograph on the subject, as well as proposed an algorithm for the management of macroscopic non-traumatic hematuria.

The candidate submits for peer review publications as a member of multidisciplinary teams investigating the genetic specificities and features of bladder carcinoma within two research projects implemented through the Medical University, Sofia and the Scientific Research Fund.

Some of Dr. Mladenov's publications are also devoted to topics in the field of pediatric urology, congenital malformations of the urinary and male reproductive systems, reconstructive urology, as well as rare clinical cases from practice.

As a current topic of the last three years, Dr Mladenov's publications also address the involvement of the urogenital system by complicated COVID-19 viral infection.

The scientific publications of Dr. Boris Mladenov are a reflection of his clinical experience as an established professional in the field of urology and his aspiration to scientific research and application in

clinical practice of modern guidelines and principles for the diagnosis and treatment of urological diseases.

3. ANALYSIS AND EVALUATION OF TEACHING AND LEARNING ACTIVITIES

The teaching activity of Dr. Boris Mladenov is carried out in the Clinic of Urology of the University Hospital "N.I. Pirogov", through lecture and extra-curricular employment within:

1. Participation in theoretical and practical training of urology residents;
2. Theoretical and practical training of medical students within the training program in "Emergency Medicine";
3. Theoretical and practical training of medical students as a visiting assistant professor at the Faculty of Medicine, Sv. Kliment Ohridski University, Sofia

According to the submitted reports on Dr. Mladenov's teaching activity from UMHATEM "N.I. Pirogov" and Sofia University "St. Kliment Ohridski", the candidate has sufficient classroom and extracurricular teaching activity in the last five years, meeting the requirements of the Regulations.

4. CONCLUSION

Dr. Boris Mladenov has passed all stages of his career development from a resident to a senior assistant professor fully in the academic environment of the University Hospital "N.I. Pirogov". He is a highly qualified and responsible professional who enjoys the trust and respect of his patients and colleagues. Dr. Mladenov holds and has presented all the necessary documents for acquired qualifications and scientific degree, certificates for conducted courses and specializations for professional qualification. They are a guarantee of his professional competence and the quality of his scientific and teaching activity.

The analysis of professional development, research activity, scientific contributions, teaching and learning activities, as well as personal qualities of Dr Boris Mladenov, show that he meets all the requirements of the Law on Research and Development, the Regulations for its application and the Regulations on the conditions and procedure for the acquisition of scientific degrees and the holding of academic positions at the University Hospital "N.I. Pirogov" for holding the academic position of "Associate Professor".

Taking into account the above facts, as well as my direct impressions and observations on the professional development and growth of Dr. Boris Mladenov, I give my positive assessment and recommend the other distinguished members of the Scientific Jury to vote positively for the award of the academic position of "Associate Professor" in the scientific specialty "Urology" to Dr. Boris Seryozhev Mladenov, PhD, for the needs of the Clinic of Urology of the University Hospital "N.I. Pirogov".

11/02/2023

Regards, Prof. I. Saltirov, PhD, D.Sc.

Sofia