

**To the Chairperson of the Scientific Jury**  
**Established by Ordinance N RD- 26-1167/05.05.2021**  
Of the Executive Director of UMBALSM N.I.Pirogov

## **REFERENCE**

**by Prof.Dr Evelina Odiseeva, DM PhD**  
**Head of the Clinic of Anaesthesiology**  
**of the Department of Anaesthesiology and Intensive Care**  
**Military Medical Academy - Sofia**

**Regarding:** Contest for the academic position of Associate Professor in the scholarly speciality 03.01.38 Anaesthesiology and Reanimatology, in the area of higher education 7. Healthcare and Sports, professional domain 7.1 Medicine

### **Contest information:**

The contest is held for the needs of the Clinic of Anaesthesiology and Intensive Care of UMBALSM Pirogov - EAD, Sofia and was published in State Gazette of Bulgaria, issue 19/05.03.2021

Following **Ordinance** N RD- 26-1167/05.05.2021 of the Executive Director of UMBALSM N.I.Pirogov I have been appointed member of the scholarly jury for the procedure and after its first meeting I was appointed as evaluation reviewer

The evaluation of the candidate was done following assessment criteria and indicators as per the requirements of ZRASRB, The Handbook of its implementation and the Internal Handbook for RAS of UMBALSM N.I.Pirogov.

### **I. General presentation of received materials**

Participation documents were submitted by only one contestant - Dr Bogdan Yordanov Mladenov, PhD, Senior assistant at the Clinic of Paediatric Anaesthesiology and Intensive care at UMBALSM N.I.Pirogov, Sofia.

The Admissions commission has established that the presented documents were submitted within the set deadline and are compliant with the requirements of PRAS of UMBALSM N.I.Pirogov.

The contest materials presented by the candidate contain the whole necessary information for carrying out a qualitative and quantitative evaluation of his entire academic development.

## **II. Analysis of candidate's career profile**

Dr Bogdan Yordanov Mladenov, PhD was born on 14.01.1982. He graduated the Faculty of Medicine at the Medical University Sofia in 2006 earning a Master's degree in Medicine. In 2007 he started work as a registrar at SBALG Maichin Dom.

Between 2012 to 2014 he worked as an Assistant at the Department of Anaesthesiology and Intensive care at MU- Sofia where he taught students and trainee doctors and also worked as dedicated Assistant for the overseas students at the department.

In 2013 he passed a state exam successfully hence earning specialty in Anaesthesiology and Intensive care and since 2014 he has furthered his professional path working as a Senior assistant at the Clinic of Paediatric Anaesthesiology and Intensive care with Anti-Shock Hall at UMBALSM N.I.Pirogov, Sofia.

In 2014 he successfully defended a dissertation on the topic of Laryngeal masks and difficult intubation thus earning a scholarly and academic Doctor's degree.

He sustained his post-graduate qualification by taking part in a number of international courses and programmes:

- 2008 – 2009 - a year-long practice course at the Department of Anaesthesiology and Reanimation of the Marie and Pierre Curie University in Paris, with clinical practice at the Bichat-Claude Bernard University Hospital in the following surgery departments: ENT, maxilla facial surgery, orthopaedic surgery, recovery room, anaesthesia and resuscitation in cardio surgery

As part of his professional development as a specialist Dr Bogdan Yordanov Mladenov completed courses and specialist trainings in the areas of pain therapy, medical statistics, paediatric anaesthesia and resuscitation etc.

- 2010 Course in Medical Statistics MU Sofia
- 2010 Course in Neuropathic pain of EFIC Montescano Italy
- 2010 Course in Foundations of analgesia of EFIC Klagenfurt Austria
- 2015 Course in PICC lines, Rome, Italy
- 2016 Course in Oncologic pain, EFIC Liverpool

Dr Mladenov is a proficient user of English and French.

Membership in academic and professional organisations – Bulgarian Medical Association, Society of Anaesthesiologists in Bulgaria, Bulgarian Association for Pain Research and Treatment, European society of anaesthesiology(ESA)

### **III. General characteristics and evaluation of the candidate's activities**

#### **Academic pursuits and academic activities**

Dr Bogdan Mladenov has presented to this contest 25 scholarly papers all of which are subject of review. Amongst them 18 have come out in academic publications, referenced and indexed in world renowned data bases of scientific information, 7 are scholarly publications in non-referenced journals, all of which I accept as proof of undisputed academic activity.

Dr Mladenov is the leading author in 14 scholarly papers, in 6 he is a second author while in 5 he is third or subsequent. Of his scholarly publications 9 are in Bulgarian and 16 in English.

Dr Mladenov added to his scholarly production his involvement in 19 academic forums in Bulgaria, most of which had international participation, as author and co-author of 21 presentations and posters.

His academic work includes co-authorship in 7 chapters of Theoretical and practical guide in anaesthesiology and intensive care for students, published in 2015.

He took part in two national projects, one of them being his own development which won a grant from MU Sofia in 2008 on the topic of Comparison of LMA Pro Seal with laryngeal tube probe in gynaecological surgery.

The second project in 2013-2014 was Operational programme Human Resources Development of the European Union as part of which Dr Mladenov was the academic mentor of 12 students on the Students' practices programme.

He took part in the international project of Intensive Care Over Nations ICON Study sponsored by THE WORLD FEDERATION OF INTENSIVE CARE SOCIETIES.

**Citations:** Dr Mladenov has presented 7 citations overall – 1 in referenced and indexed scholarly journals, 1 in monographs with scientific reviews and 5 in non-referenced journals with scientific reviews.

**General Impact Factor** – 35,5.

The provided scholarly production amounts to a total of 912,5 points based on which I undisputedly believe that Dr Mladenov covers the obligatory scientometric criteria as per ZRASRB and the Regulations of its application as well as PRAS of UMBALSM N.I.Pirogov – Sofia.

Dr Mladenov's essential scholarly interests and contributions are not confined to a limited sphere and demonstrate a complex development in the area of Anaesthesiology and Intensive Care.

Dr Mladenov's dissertation and part of his scholarly output feature problems and challenges in securing respiratory tracts of children and adults. Predictive criteria, varied terms and biometric indicators for pre-operational assessment of respiratory tracts are analysed as well as ways of their securing. His research on the problems of difficult intubation, application and

safety of various supraglottic and other specific tools for ventilation in the conditions of difficult intubation/ventilation of various subgroups of patients is particularly valuable. Problems related to anaesthesia and ventilation of patients in ENT surgery as well as of patients with a foreign body in their respiratory tract feature in some of his overviews which give detailed academic knowledge that could serve as a guide to newly qualified colleagues.

He has done research on various groups of patients, including children, regarding perioperative risks and preparation for planned or emergency surgery. A highly valued aspect of his research are his modern views on patients of childhood or infant age – an area where the shared experience in Bulgaria is rather limited.

A considerable part of his analyses and research relate to the treatment of post-operative pain as well as pharmacokinetic and pharmacoeconomic indicators with various groups of patients.

An essential aspect of Dr Mladenov's scholarly production is paediatric anaesthesiology and intensive therapy. In that respective area his main contributions are related to research on peculiarities and specifics of septic conditions in new born babies and infants; the therapeutic approach to systematic infections of children with corrected congenital cardio malformations; etiopathogenesis, clinical picture and therapeutic approach as well as prophylactics and antibiotic policy with ventilator associated pneumonia in childhood age.

Dr Mladenov presents some unique publications concerning traumatism in childhood including intrauterine traumas as well as anaesthesiologic problems in emergency surgery of children with pre-existing correction of severe congenital cardio malformations.

His work on securing venous access in various age groups as well as in emergency because of shock is also a valuable guide related to the advantages of ultrasound control in securing central vein access including new born babies and low weight preterm babies.

He developed and applied a programme, new for the country, for implanting permanent tunnelled catheters in new born babies and infants with small intestine deficiency.

## **VI. Methodological and teaching activities, academic guidance of students, doctoral students and trainees.**

Dr Mladenov has been actively involved in academic work since 2012 initially as Assistant and later on as Senior Assistant at the Department of Anaesthesiology, Emergency and Intensive medicine. In 2013 -2014 he was the academic mentor of 12 students on the Students' practices programme – Operational programme: Development of Human Resources of the European Union.

In 2012 and 2013 he delivered lectures on a qualification course of CEEA (Committee for European Education in Anesthesiology към European Society of Anesthesiology for Bulgaria) on the topic of Resuscitation of new born babies with a low Apgar score.

His teaching work is related to tuition in the discipline of Anaesthesiology and Intensive Care.

Dr Mladenov takes part in lectures and practice courses of trainees of paediatric anaesthesiology within their specialist trainee courses in anaesthesiology and intensive care, conducts seminars for trainee doctors, takes part in topical courses for post-graduate qualification and individual specialisation of higher medical cadres.

Dr Mladenov takes part in the preparation and updating of teaching materials and tests for foreign students at the Department of Anaesthesiology and Intensive Care at MU Sofia.

During this period he has developed and established himself as a responsible and competent teacher.

Dr Mladenov has gained experience in organising several national conferences for treatment of pain by being part of the organisational committee.

## **V. Constructive feedback and recommendations**

My recommendations to the candidate are for a future deepening and extension of his scholarly and applied research and contributions, as well as for more active publishing and sharing his experience and academic results.

## **VI. General evaluation of the compliance of the candidate with the mandatory conditions and mandatory quantitative criteria and scientometric indicators as per the Statutes for earning the academic position of Associate professor at UMBALSM N.I.Pirogov and the Regulation for applying ZRASRB.**

Having studied carefully and in detail the entire documentation of the current contest I can declare that Senior assistant Bogdan Mladenov DM PhD is fully compliant with all the mandatory and specific conditions and scientometric criteria for earning the academic position of Associate professor in the science specialism of Anaesthesiology and Intensive Care for the needs of the Clinic of Paediatric Anaesthesiology and Intensive Care with Anti-shock hall of **UMBALSM N.I.Pirogov – Sofia**.

## **VII. Conclusion**

The papers and materials presented by Dr Bogdan Yordanov Mladenov, DM Senior Assistant at the Clinic of Paediatric Anaesthesiology and Intensive Care with Anti-shock hall of **UMBALSM N.I.Pirogov – plc Sofia, are compliant with the** requirements of the Law for development of academic staff in the Republic of Bulgaria (ZRASRB), the Regulations for the implementation of ZRASRB and the Statutes for development of academic staff of **UMBALSP N.I.Pirogov – plc, Sofia**.

The collation of the individual scientometric indicators with the mandatory minimal national indicators indicates that Dr Bogdan Mladenov has earned the required minimum of points. The candidate has presented a sufficient number of scholarly papers. His work features original scientific and applied contributions.

In accordance with the above mentioned, I submit my highly positive evaluation and would suggest to the members of the honourable Academic jury to give a positive vote for the earning of the academic position of Associate professor in the science specialism of Anaesthesiology and Intensive Care for the needs of the Clinic of Paediatric Anaesthesiology and Intensive Care with Anti-shock hall of **UMBALSM N.I.Pirogov – Sofia** by Dr Bogdan Mladenov DM PhD .

**08.06.2021**  
**Sofia**

**Evaluation reviewer:**



**Prof. Dr E. Odiseeva, D.M.**