

Review

by Prof. Dr. Ivan Tomov Gruev, PhD,

Deputy Director of Medical Activity, NCTB "Tsar Boris III" -Sofia

In connection with a competition for an academic position "ASSOCIATED PROFESSOR" in the field of higher education 7. Health and sports, professional field 7.1. Medicine, scientific specialty Cardiology for the needs of the Department of Invasive Electrophysiology at the Clinic of Cardiology of Acibadem City Clinic UMBAL Tokuda EAD, announced in SG No. 27 / 02.04.2021

I have been appointed a member of a scientific jury with order №243 / 01.06.2021 of the Executive Director of Acibadem City Clinic UMBAL Tokuda EAD.

In connection with the material submitted to me for review, I declare that I have no conflict of interest and do not establish evidence of plagiarism.

The only candidate is Dr. Vasil Borislavov Traikov, PhD.

Dr. Vasil Traikov was born on April 20, 1975. Graduated in medicine at MU-Sofia in 2000. In 2010 acquired a degree in Cardiology at the University of Szeged, Hungary. In 2011 Acquires Certificate in Interventional Electrophysiology of the Heart, Certificate in Electrocardiography (EHRA), Acquired professional qualification with recognized qualification in "Invasive Cardiology" -MU-Sofia. 2014 Acquired professional qualification with recognized legal capacity in "Invasive Electrophysiology - Basic and Expert level". 2016-Master "Public Health and Health Management" - Medical University of Sofia.

Professional path: Physician - resident in the Cardiology Clinic of the National Cardiology Hospital [18/03/2002 - 01/07/2004], Research Associated III degree in the Laboratory of Electrophysiology, National Cardiology Hospital [01/07/2004 - 15/02 / 2008], Head Department of Invasive Electrophysiology at the Clinic of Cardiology, Tokuda Hospital [01/04/2011 - 19/11/2012], Head of Department of Invasive Electrophysiology and Cardiac Stimulation at the Clinic of Cardiology, Acibadem City Clinic Cardiovascular Center [19/11/2012 - 15/04/2013], Head of Department of Invasive Electrophysiology at the Clinic of Cardiology Acibadem City Clinic Tokuda Hospital [from 15/04/2013 to the present].

Teaching activity: Part-time lecturer - discipline "Propaedeutics of Internal Medicine" for medical students, third year. For a five-year period he has realized 4515 eq. hours in training of specialists in cardiology, training in VSD Cardiac stimulation and Electrophysiology and continuing education.

Positions held: Member of the EHRA Scientific Documents Committee - 2017-2020, Member of the EHRA National Societies Committee 2020-2022, Chairman of the Professional Association for Pacemaking and Electrophysiology in Bulgaria - terms 2016-2019 and 2019-2022, Scientific Secretary of the Society of Cardiologists in Bulgaria-2018-2020, Future Chairman of the Society of Cardiologists in Bulgaria - term 2022-2024

A total of 90 scientific papers were presented: one dissertation for obtaining an educational and scientific degree "Doctor", 72 scientific publications and 17 scientific communications (Table I), described in a list presented under №8 of the mandatory documents for the competition.

Table I. Types of scientific works

Types of scientific works	In Bulgaria	International	Total
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Dissertation	1		1
Collective monographs, manuals and teaching aids	8	6	14
Publications in scientific journals			
• Related to the dissertation	2	4	4
• In peer-reviewed and indexed scientific journals	15	36	38
• In unrefereed scientific journals		1	16
Total publications in scientific journals	17	41	58
Total publications (dissertation, journals and monographs)	26	47	73
Reports and scientific communications presented at scientific forums and Related to the dissertation	8	2	2
Not related to the dissertation		7	15
Total	8	9	17
Total scientific papers	34	56	90
Citation and Unrefereed journals and monograph and Scopus / WOS	20	690	20
Total citations	20	690	710

Of the 38 scientific articles presented in peer-reviewed and peer-reviewed journals, 36 have been published in international scientific journals indexed in Scopus and Web of Science databases. Two of the publications in Bulgarian journals are also indexed in Web of Science. In journals not indexed in the indicated databases, 16 publications are presented, of which 15 are in a Bulgarian magazine and 1 - abroad.

14 participations as an independent author or co-author in collective monographs are presented. 8 of them are in books published in Bulgaria and 6 in publications abroad. One of the publications is edited by Dr. Traikov.

The scientific activity also includes 17 participations with reports and announcements, presented at Bulgarian or international forums. In 13 of them (76.4%) he participated as an independent or first author.

The distribution of scientific papers by place of participation in the author's teams is presented in table. II.

Table. II. Place of participation in the author's teams

Place as an author	Publications in scientific journals	Participation in collective monographs	Reports of scientific forums	Total publications
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	N	%	N	%	N	%	N	%
Solo author	4	6,9	12	85,7	5	29,4	21	23,6
First author	18	31	-	-	8	47	26	29,2
Second author	10	17,3	-	-	1	5,9	11	12,4
Third and subsequent author	26	44,8	2	14,3	3	17,7	31	34,8
Total:	58	100	14	100	17	100	89	100

The presented official citation report from CMB to MU-Sofia (№ 10 of the obligatory documents for appearing in the competition) indicates 20 citations in Bulgarian scientific journals. 315 citations were found in the Scopus database and 690 citations were found in the Web of Knowledge. The report states that the citations in the two databases partially overlap. Therefore, this reference only indicates the number of international citations found on the Web of Knowledge.

The total number of citations is 710, of which in Bulgarian scientific journals - 20, in foreign scientific journals - 690.

The total impact factor, calculated on the basis of the official report submitted by the CMB of MU-Sofia, amounts to 84.55. The calculated h-index is 10 and the average number of citations per publication is 14.14.

The research and practical-applied activity is directed in several directions, which can be grouped in several sections:

Section I. Study of the mechanisms of atrial fibrillation and catheter ablation as a therapeutic approach.

Scientific publications in the field of mechanisms of occurrence and maintenance of atrial fibrillation (AF) are related to the study of the role of structures exhibiting trigger activity in the maintenance of the process of AF, as well as the study of indications, techniques, procedural characteristics and complications of catheterization ablation of PM.

Section II. Study of electrophysiological findings in supraventricular tachycardia.

Scientific publications in this section include studies on electrophysiological findings in focal atrial tachycardias, supraventricular tachycardias associated with additional conduction connections, and AV nodal reentry tachycardia.

Section III. Study of electrophysiological findings and results of catheter ablation in atrial fibrillation.

The scientific papers in this section are related to the study of the mechanisms of atrial fibrillation after open heart surgery, as well as to the procedural characteristics and results of catheter ablation in patients with typical atrial fibrillation with or without the use of intracardiac echocardiography.

Section IV. Study of infections in implantable electronic heart rate monitors.

The scientific papers in this section are aimed at making recommendations on the behavior of implantable electronic devices in infections and study the practice of prevention and treatment of infections in implantable electronic devices worldwide.

Section V. Treatment of ventricular tachyarrhythmias and prevention of sudden cardiac death.

Included in this section are scientific publications examining the diagnosis and treatment of ventricular tachyarrhythmias by catheter ablation in patients with structural heart disease as well as in cases of idiopathic ventricular tachyarrhythmias. New methods for access to the pericardium in need of applications of radiofrequency energy from the epicardial surface of the

chambers are considered. Some publications review the clinical efficacy of implantable cardioverter-defibrillators for the primary prevention of sudden cardiac death.

Section VI. Development of consensus documents, documents expressing the position of leading organizations.

Included in this section are scientific publications representing consensus documents addressing important aspects of clinical electrophysiology, not covered in detail by the available guidelines.

Section VII. Miscellaneous

The results of catheter ablation in the treatment of a wide range of arrhythmias in a single center are described. The place of catheter ablation is established as a method of treatment associated with high immediate and long-term procedural success. It is demonstrated that the results obtained in a single Bulgarian center are comparable to those published in the world literature (81) - a contribution of scientific and applied nature.

Two review articles demonstrate the principles of catheter ablation for the treatment of arrhythmias and the place of three-dimensional cardiac mapping systems in the practice of the electrophysiologist (67, 71) - a clinical contribution.

In conclusion: In the competition Dr. Vasil Traikov, PhD presents himself as a graduate with extensive medical, research and teaching experience. He has a recognized specialty in cardiology, with many additional qualifications, has defended a dissertation and has a significant and internationally recognized scientific output. He is an established lecturer in the specialty and is a former scientific secretary, member of the Management Board and future chairman of DKB. His scientific production fully meets the requirements of ZRASRB, as well as the Regulations on the terms and conditions for obtaining scientific degrees and holding academic positions in Acibadem City Clinic UMBAL Tokuda EAD for the award of the academic position "Associated Professor".

On these grounds, I propose to the esteemed members of the Scientific Jury to vote positively and propose Dr. Vasil Borislavov Traikov, PhD. to take the academic position of "Associated Professor" in the scientific specialty Cardiology, for the needs of the Department of Invasive Electrophysiology at the Clinic of Cardiology of Acibadem City Clinic University Hospital Tokuda EAD.

06,07,2021

Sofia

Prof. Ivan Tomov Gruev Ph.D.