**OPINION**

**Assoc. Prof. Tsvetan Radnev Minchev , PhD.**

**Head of department of Chest surgery at**

 **" Acibadem City Clinic UMHAT Tokuda", Sofia**

**Subject : Competition for the academic position "Associate Professor" in the field of higher education 7. "Health and sport", Professional direction 7.1. "Medicine", scientific specialty "Cardiovascular surgery" for the needs of Cardiosurgery Clinic "Acibadem City Clinic UMHAT Tokuda" Sofia. Announced in the State Gazette No. 37/25.04.2023**

**With order No. 15-03-123#2/15.06.2023 of the Executive Director and Procurator of "Acibadem City Clinic UMHAT Tokuda" Sofia, I have been appointed as a member of the Scientific Jury for the said contest. On the first one Absentee meeting of the Scientific Jury, it was decided to prepare an opinion**

In the announced competition for "Associate Professor" in cardiovascular surgery, one candidate was admitted : Dr. Ivilin Plamenov Todorov, PhD, cardiac surgeon at the Cardiac Surgery Clinic of " Ajibadem City Clinic UMHAT Tokuda" JSC .

The candidate has submitted all the documentation necessary to prepare the opinion accordingly the requirements .

 **I. Scientific and research activity**

Dr. Ivilin Todorov has submitted **an author reference for** compliance and fulfillment of the minimum national requirements (MNR) for **"Associate Professor"** , including publications, citations and research activity:

* Dissertation work for the award of PhD - "Surgical treatment in patients with a prosthetic valve endocarditis . ” :

**city A = 50 points ( MNR 50 points )**

* Habilitation work - monograph

Todorov I. PhD, Prosthetic valve endocarditis - clinic, diagnosis and treatment. Monograph, 2022, ISBN: 978-619-7703-04-7, Pub. Intel Entrans Sofia, 155s.

**c. B = 100 items** ( **MNR 100 items)**

* Publications in foreign and Bulgarian publications, referenced and indexed in

world-famous databases with scientific information (SCOPUS and WEB OF SCIENCE ): **city D7 = 149.5 points.**

* Publications in non-refereed peer-reviewed journals or edited collective volumes: **gr. D8 = 108 items.**
* Published chapters of collective monographs: **city D9 = 40 items.**

**Total number of points in city D = 297.5 t. (MNR – 200 p. )**

* Citations or reviews in scientific publications, refereed and indexed

in world-famous databases with scientific information or in monographs and collective volumes ( SCOPUS and WEB OF SCIENCE ): **city D10 = 45p.**

* Citations in peer-reviewed monographs and collective volumes:

**city D11 = 10 pts.**

* Citations or reviews in non-refereed scientific journals

review: **city D12 = 40 pts.**

**Total number of points in the city of D = 95 points ( MNR – 50 points)**

**Total number of points from indicators A, B, D = 542.5 points ( MNR)**

A report from the Central Medical Library was submitted to the Sofia Universityfor **a total number citations -12** , of which in Bulgarian scientific journals – 9 and in foreign ones scientific publications – 3.

 The main **contributions of** Dr. Todorov's scientific works are in the following directions:

**1. Reoperative cardiac surgery, prosthetic valve endocarditis**

In the presented monograph: "PROSTHETIC VALVE ENDOCARDITIS - CLINIC, DIAGNOSIS AND TREATMENT", dedicated to the main aspects of the clinic , diagnostics and operative treatment in patients with prosthetics valve endocarditis are presented essential scientific contributions such as especially should be noted presented algorithm and the basics steps in performing the various kinds surgical interventions. Essential scientific and applied value they have the conclusions and recommendations for the daily life practical activity of referring cardiac surgeons to correct specific solutions for diagnosis and treatment. The monograph presents too so the multidisciplinary model for diagnosis, medical and surgical treatment of prosthetics valve endocarditis , as are discussed thoroughly the challenges and solutions in patients with PVE when the infection includes prosthetic valve , so like the risks of repeat heart surgery can be significant . PVE history was traced and done a review of the current literature on valve- specific treatment involvement (ie aortic and/or mitral ) and are illustrated the challenges , issues and outcomes that lead to clinical decision - making in the light of the latest and most effective therapeutic approaches and the latest strategic and practical algorithms in the treatment of the disease .

A high rating should also be given to innovative approaches introduced by the author to reduce complications and improve post-operative conditions reoperation outcomes in cardiac surgery \_

**2. Infectious endocarditis**

Much of the candidate 's posts are devoted to valve analysis prosthetics in valve patients \_ endocarditis and the conditions for increasing the effectiveness of operative treatment. They are reflected in c the scientific ones candidate works related to surgical behavior and treatment in patients with early and late prosthetic valve endocarditis . The duration of hospitalization and survival in patients with proven microbiological causative agent , treated with antibiotics according to an antibiogram and those without an isolated one causer treated empirically . The degree of sensitivity and specificity of the most available imaging- diagnostics has been established research (TEE and TTE), in the diagnosis of the prosthetic valve endocarditis and its complications. It was conducted thoroughly study and comparative analysis of outcomes in deceased and discharged patients and was created contemporary prognostic model for the factors predicting increased risk of death in patients with prosthetics valve endocarditis .

Applications described for the first time in Bulgaria is an angiographic method balloon LIMA occlusion , with an optimal goal myocardial protection, as well as improvement of operative results and survival of patients with surgical treatment of PVE and previous coronary surgery with a working LIMA-LAD graft

**3. Cardiac and extracardiac tumors , difficulties and decisions in cardiac surgery**

The scientific and applied contributions in the scientific also deserve attention works dedicated to the surgical difficulties and experience of the team in a patient with Marfan syndrome and severe pectus excavatum , the proposed cardiac surgical approach to extracorporeal perfusion through the use of two in parallel connected the oxygenator , as effective , easy and safe method in patients with " extreme " perfusion needs , providing the surgical team sufficient oxygenator "reserve", for the implementation of an optimal and safe surgical intervention.

**The quality of the submitted posts is responsive completely on academics requirements.**

**Dr. Todorov is a member of:** Bulgarian Society of Cardiac Surgery . Member and Secretary of Bulgaria Association of Thoracic , Cardiac and Vascular Surgery. Member of European Association for Cardio-Thoracic Surgery .

 **II . Educational - teaching activity**

 A reference for the teaching and learning is presented activity of Dr. Todorov as part-time assistant to Medical Faculty of Sofia University " St. Kliment Ohridski":

* During the academic year 2019/2020: exercises on "Surgical diseases" for students 3-6 course of medicine - 24 study hours;
* During the academic year 2020/2021: exercises on "Surgical diseases" for students 3-6 course of medicine - 6 study hours;
* During the academic year 2021/2022: exercises on "Surgical diseases" for students 3-6 course medicine - 39 study hours.

 **III . Diagnostic and therapeutic activity**

Dr. Todorov is a very well- prepared specialist in cardiac surgery and has significant experience accumulated more than 15 years in two of the leading cardiac surgery units in our country: St. Ekaterina Medical Center and Acbadem City Clinic - Tokuda Medical Center. He has excellent command and applies daily in practice the main ones diagnostic and therapeutic methods in cardiac surgery with a marked interest in modern and innovative approaches.

 There is acquired specialty in Cardiosurgery " from Medicine Faculty of Medical University Sofia. He has a master's degree in "Public Health and Health Management" from Mdical University-Sofia.

 **IV . Conclusion**

 I believe that with his qualification, scientific- research, teaching and diagnostic-therapeutic activity **Dr. Todorov fulfills (and even exceeds) the minimum national requirements** in the professional direction "Medicine - Medical-Clinical Area" to fill the competitive position.

 Thisgives me reason to **vote in the affirmative** and to propose to the hon members ofThe scientific jury to support the selectionof **Dr. Ivilin Plamenov Todorov, PhD, for "Associate Professor" in cardiovascular surgery** for the needs of the Cardiac Surgery Clinic of "Acibadem City Clinic UMHAT Tokuda" JSC.

Sofia, 21.08. 2023 Assoc. Prof. Dr. Tsvetan Minchev, PhD