

**TO THE CHAIR OF THE SCIENTIFIC JURY,
APPOINTED BY ORDER R-109-273/20.06.2025
OF THE RECTOR OF MU – VARNA**

OPINION

by Assoc. Prof. Angel Borisov Angelov, MD

Associate Professor of Vascular Surgery

at the Department of Cardiovascular Surgery and Angiology

REGARDING

Expulsion with the right to defend and as preparation for the procedure for acquiring an educational and scientific degree: "DOCTOR" in the field of Higher Education 7. Healthcare and Sports, professional direction 7.1. Medicine in the scientific specialty "Surgery" for the needs of the Department of Cardiovascular Surgery and Angiology, Faculty of Medicine at the Medical University "Prof. Dr. Paraskev Stoyanov" – Varna.

In accordance with Order No. P-109-273/20.06.2025 of the Rector of the Medical University of Varna and the decision of the first meeting of the Scientific Jury, I have been appointed to prepare an opinion as an internal member of the Medical University of Varna.

The candidate for the educational and scientific degree of "DOCTOR" at the Department of Cardiovascular Surgery and Angiology is Senior Assistant Professor Dr. Georgi Stefanov Bachvarov. The electronic reference, in accordance with the current ZRAKSRB, shows that Dr. Bachvarov meets the requirements for obtaining the educational and scientific degree of "DOCTOR". The candidate has submitted all the required documents specified in the regulations for the development of the academic staff of MU - Varna. All other mandatory documents are up to date and meet the requirements.

BIOGRAPHICAL DATA

Dr. Georgi Bachvarov was born on August 31, 1981, in Yambol. He graduated from Medical University - Varna in 2006 with excellent grades. He completed his residency in General Surgery at the Medical University - Varna in 2010.

From June 2007 to the present, he has been working at the Cardiac Surgery Clinic. In May 2017, he defended his surgical specialty in cardiac surgery. In May 2017, he defended his surgical specialty in cardiac surgery. From September 2018

to the present, he has held the academic position of assistant at the Cardiac Surgery Clinic, Department of Cardiovascular Surgery and Angiology at the Medical University of Varna.

According to the information provided (as of July 6, 2025), Dr. Bachvarov has 19 years and 1 month of work experience in the specialty of "Surgery" and 9 years and 9 months of teaching experience. Among the mandatory documents for participation in the competition, Dr. Bachvarov has also provided certificates of participation in postgraduate courses for continuing education in Bulgaria and abroad. He has a definite interest in professional development in the field of revascularization of ischemic myocardium.

He has an excellent command of English.

RESEARCH ACTIVITIES

Dr. Georgi Stefanov Bachvarov has extensive scientific activity, distributed as follows: 1. Dissertation on "Early postoperative complications in open heart surgery – a modern approach to prediction and risk stratification." It meets all the requirements for a habilitation thesis. 2. Publications in scientific journals and collections, collective volumes containing ISSN and ISBN – 12 in total, of which as sole author – 2; as first author – 2; second author – 0; third author – 3; lower position in the author collective – 5.

The publications are in the following areas – general cardiac surgery – 6; complications in cardiac surgery – 2; myocardial revascularization – 4 Publications in Bulgarian – 7; publications in a foreign language – 5/English/.

From the presented author's report on the contributions of the scientific works, the candidate derives contributions in relation to the proposed dissertation thesis - "Early postoperative complications in open heart surgery - a modern approach to prediction and risk stratification", which is based on a series of several hundred patients in whose treatment the author has participated directly and indirectly. The predictive models created to calculate the expected probability of each of the complications occurring can be mentioned as a contribution.

Other contributions related to studies reflected in publications on the development of an assessment model for the probability of newly occurring postoperative atrial fibrillation have been highlighted; a predictive model for postoperative delirium has been presented for the first time, as well as for upgrading the predictive value of the validated STS score for acute kidney injury or death after open heart surgery.

The teaching load certificate shows 342 hours of teaching practical

exercises in cardiac surgery and vascular surgery with fifth-year students – BEO and AEO for the last three years, as well as 64 hours lectures on cardiac surgery and additional general surgery to third-year dental medicine students (AE) for the same period.

The cardiac surgery clinic also holds annual CME courses for fourth- and fifth-year medical students (BE and AE).

The candidate has submitted a list of participations in 9 scientific forums in Bulgaria and abroad, as well as ways to improve his cardiac surgery skills.

In accordance with the current ZRAKSRB, it is clear that Dr. Bachvarov meets the requirements for obtaining the educational and scientific degree of "DOCTOR".

CONCLUSION

The scientific activity of Dr. Georgi Stefanov Bachvarov meets the requirements for obtaining the educational and scientific degree of "DOCTOR" as defined in the regulations for the development of academic staff at the Medical University "Prof. Dr. P. Stoyanov" - Varna. He is a proven cardiac surgeon with excellent development, significant scientific research, and extensive teaching and lecturing activities. Dr. Bachvarov always demonstrates erudition in his teaching and medical activities.

I believe that Dr. Georgi Bachvarov meets the academic and scientometric criteria for obtaining the educational and scientific degree of "DOCTOR" at the Medical University - Varna.

05.09.2025.

Varna

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Assoc. Prof.

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Prof. Angel Angelov, MD