

REVIEW

from

Prof. Ilko Nikolaev Getov, MScPharm, PhD
Faculty of Pharmacy, Medical University-Sofia,

member of the scientific jury appointed by Order No. RD-109-370/21.8.2023 of the Rector of Medical University "Prof. Dr. Paraskev Stoyanov" - Varna

Prof. Svetoslav Georgiev, MD, PhD,

for a competition for the position of AP "PROFESSOR" in the field of higher education 7.

"Healthcare and Sport", professional direction 7.3 "Pharmacy", scientific specialty "HOSPITAL PHARMACY",

for the needs of the Department of Organization and Economics of Pharmacy, Faculty of Pharmacy, Medical University "Prof. Dr. Paraskev Stoyanov"- Varna, announced in State Gazette, Issue 54 of 23.6.2023.

The Admission Commission has allowed one candidate to be evaluated- Assoc. Prof. Evgeni Evgeniev Grigorov, PhD.

The set of documents with which Assoc. Prof. Grigorov participated in the competition are arranged according to the requirements, there are no missing documents, the evidences presented are correct, thorough and in accordance with the requirements of the regulatory documents related to the development of academic staff.

This review has been prepared in accordance with the Academic Staff Development Act in Republic of Bulgaria (ASDA), the Regulations for the Application of the Academic Staff Development Act (RAASDA) and the Regulations for the Development of the Academic Staff of MU-Varna, ed. 2022 (RDASDMU-Varna).

I have co-authored a total of FIVE publications with the applicant, or 7.1% of their submitted list.

Professional development of the candidate.

Assoc. Prof. Evgeni Grigorov graduated from Medical University-Sofia with a Master's degree in Pharmacy in 2002 with very good grades in semester and state examinations. He has obtained a Master's degree in Health Policy and Healthcare Management from New Bulgarian University, a Bachelor's degree in Finance and a Master's degree in Business Logistics from UNWE. He has recognized specialties for postgraduate studies in "Organization and Economics of Distribution and Pharmacy Practice", "Clinical Pharmacy", "Health Economics", "Organization and Economics of Pharmaceutical Manufacturing" and "Hospital Pharmacy". In 2014, he successfully defended his dissertation thesis for the degree of "Doctor" in the scientific specialty of Social Medicine and Organization of Healthcare and Pharmacy at the National Center of Public Health and Analyses, entitled: "Study and Pharmaco-economic Evaluation of Risk Factor Prevention and Therapy of IHD".

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Since 2015 the candidate holds the academic position of Associate Professor in the specialty of his PhD thesis at MU - Varna.

Assoc. Prof. Grigorov has an ascending professional and academic development and a diverse career, including as a practicing master pharmacist in a community pharmacy and manager in a pharmaceutical company. In practice, the serious skills, administrative and practical experience have been acquired gradually, passing through the pharmaceutical sphere, state administration, NHIF, MMA, health care institutions, a visiting and part-time lecturer at universities. I would like to note that during his professional career Assoc. Prof. Grigorov has demonstrated wide competence, persistence, versatile interests, and focused scientific and applied activity. The main areas of publication and academic activity and contributions of the candidate are: Hospital pharmacy and pharmacotherapy, History of pharmacy, Experimental laboratory research, Role of the hospital pharmacist in the provision of clinical pharmaceutical services, Social pharmacy and Health technology assessment.

In the field of national drug policy and medicines regulation in Bulgaria Assoc. Prof. Grigorov is involved as: member of working groups at the Ministry of Health and the National Health Insurance Fund, member of the governing bodies of the Bulgarian Pharmaceutical Union, the Professional Organization of Hospital Pharmacists in Bulgaria, member and chairman of the State Examination Commissions for the acquisition of specialty for the OEDPP, secretary of the HTA Commission at the NCPHA, incl. Deputy Minister of Health in the period 2020-2021. In parallel Assoc. Prof. Grigorov has serious experience and participation in international projects and initiatives. As a representative of the European Association of Hospital Pharmacists he is actively involved in the international project on the development of a Common Training Framework for Hospital Pharmacy Education in the EU - Working Group 1 - Competency mapping.

The candidate has more than 15 years of teaching experience, having passed through all academic positions from assistant to associate professor at MU-Sofia, MU-Varna and NCPHA in the field of social medicine and pharmacy.

Assoc. Prof. Grigorov is the scientific supervisor of 8 successfully defended PhD students and 3 in the process of training at the NCPHA for PhD students, ONE successfully defended at the Medical University-Pleven, 2 successfully defended and 2 enrolled for PhD studies at the Medical University-Varna. There are numerous (18) diploma thesis graduates, participation in scientific juries, including for academic positions. Fluent in English (international certificate for C1 level attached), French and uses Russian. Holds a certificate of professional qualification in computer technology. A very important fact in the scientific supervision of PhD students carried out by Assoc. Prof. Grigorov is the first enrolled doctoral student in the Doctoral Program "Hospital Pharmacy" accredited by the National Evaluation and Accreditation Agency in MU-Varna last year.

Assoc. Prof. Grigorov is a reviewer in various scientific international journals, including those with Impact Factor and Impact Rank, assessor of scientific projects under national and

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international, including EU programs, member and head of expert groups for accreditation, etc. In connection with the domain of the scientific specialty of the competition, attention should be paid to the active participation, assistance and guidance of Assoc. Prof. Grigorov of local and international organizations, projects and programs in the field of pharmacy, pharmaceutical regulation, drug policy, hospital and clinical pharmacy and student associations in the Faculty of Pharmacy of MU-Sofia and Faculty of Pharmacy of MU-Varna. Examples of this are: founder and Editor-in-Chief of the journal Annual for Hospital Pharmacy (since 2015), lecturer of the Professional Organization of Hospital Pharmacists in Bulgaria (POHPB), the Bulgarian Society for Oncological Pharmacy (BSOP), student associations, NGOs, initiator of the annual student competition "Become a Hospital Pharmacist", etc. I should also highlight the participation of the candidate as a leader, member of a research project, mentor and representative for Bulgaria in a number of international, national and university projects. From the reference it can be summarized participation in SIX projects, 3 of which are research projects.

Teaching activity.

The candidate meets the requirements and has extensive teaching experience - over 16 (sixteen) years in total. Consistently holds the academic positions of Assistant Professor, Senior Assistant Professor and Chief Assistant Professor at the Faculty of Pharmacy of MU-Sofia since the academic year 2006/2007. Subsequently, he was elected and holds the position of Associate Professor at the Faculty of Pharmacy of MU-Varna. He is involved in teaching a wide range of disciplines:

- Social pharmacy and pharmaceutical legislation
- Pharmacoeconomics
- Medical devices
- History of Pharmacy
- Fundamentals of Clinical Pharmacy
- Pharmaceutical Marketing
- Health Technology Assessment
- Pharmaceutical regulation and economics
- Development of innovative pharmaceutical products and devices

Assoc. Prof. Grigorov has been actively involved in the development of the curricula for all the above-mentioned disciplines and has also been a member and chairman of examination committees, including for the state examination. As the chairman of the State Examination Committee for the specialty of Hospital Pharmacy I can confidently confirm his active role and participation in the development, coordination and approval by the Ministry of Health of the Curriculum in the period 2015-2016. Since 2015 until the present moment he has

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participated in the training of graduate students and in the State Examination Committees for the specialty of Hospital Pharmacy, Clinical Pharmacy and Organization and Economics of Distribution and Pharmacy Practice. He was a national consultant in Hospital Pharmacy of the Ministry of Health, subsequently a member of the Expert Council on the specialty.

The scientific and teaching work of Assoc. Prof. Grigorov with students, graduates, postgraduates and PhD students is confirmed by the submitted academic references, official notes, certificates, diplomas, certificate of pedagogical competence, thematic courses and realized scientific publications with the participation of students, graduates and PhD students. The teaching workload meets and exceeds the requirements and includes, in addition to lectures and exercises, practical seminars, qualification courses, continuing education, leadership of a student club in Hospital Pharmacy at the university.

Assoc. Prof. Evgeni Grigorov carries out serious scientific and teaching work with PhD students. Currently there are 16 PhD students, of which 5 are continuing their studies and 11 have successfully defended their thesis. The topics of the doctoral dissertations developed under his scientific supervision are in several different doctoral programs and in various scientific and educational institutions. It should be emphasized that the defended dissertations are of high quality, topical subject and significant scientific contributions. I believe that the presence of a PhD student enrolled in the Doctoral Program in Hospital Pharmacy of MU-Varna under his supervision shows his focused interest and personal ambition for the development of this scientific field in the Faculty and the University.

Research activity.

Assoc. Prof. Grigorov participated in the competition with serious scientific production and publication activity. In total, I have reviewed 76 scientific works, as follows: 1 monograph; 1 textbook; 3 study aids; 1 study and 70 scientific publications. The total volume is 1666 pages and comprehensively presents the candidate's scientific search, teamwork and vision for development in the scientific specialty.

Of the scientific publications submitted for evaluation, 16 are in journals that are refereed and indexed in world-renowned databases of scientific information. There are 9 publications with an impact factor according to Thomson Reuters, the rest with impact rank and other databases such as Scopus, Medline, Web of Science, etc.

In indicators G7 (in Bulgarian Г7) and G8 (in Bulgarian Г8) of the submitted reference, the candidate's scientific publications are 30 and 21 respectively (plus 3 beyond the minimum requirements). Assoc. Prof. Grigorov is the first or only author in only one of the evaluated publications. For the evaluation of a candidate for the position of AP "professor", I believe that it should be pointed out that in more than 45% he is the last author, as the output repeatedly exceeds the minimum requirements of the RDASDMU-Varna for the professional field. The calculations presented are correct and their summary by group of criteria is given in the table.

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Group of indicators	Professor	Assoc. Evgeni Evgeniev Grigorov, PhD
A1	50	50
B3	-	Not applicable
B4	100	268,5
Г	200	768,5, including ONLY from indicators G7 and G8
Д	100	450
Е	100	549,55

The scientific works submitted for review were not used to acquire the scientific and educational degree of "doctor" and holding the academic position of "associate professor".

I would like to highlight the main areas of scientific research interests of candidate Assoc. Prof. Grigorov, and his scientific-theoretical and scientific-applied contributions can be summarized in the following FIVE areas:

1. Hospital pharmacy and pharmacotherapy

The direction is advocated in 23 scientific publications. The possibilities for rational pharmacotherapy in medical facilities for hospital care for patients with various diseases have been studied. Author data from various studies conducted on the results of the treatment of cardiovascular and neurological diseases are presented. Modern scientific evidence regarding the implementation of the concept of accelerated recovery after surgery (ERAS) in biliary-hepatic surgery and the related socio-economic consequences are analyzed, as the possibilities for introduction in Bulgaria are presented.

I would like to note that in the future this contribution should be further developed with the role of the hospital and clinical pharmacist in pharmacotherapy, incl. of vulnerable groups of patients, as well as during crisis situations of shortages and lack of medicines and medical devices.

2. History of pharmacy

Six publications on the subject in Bulgarian journals are submitted for review. They cover various studies that aim to trace historical moments and the development over the years of scientists' knowledge of diseases and medicines. A publication is presented that presents the emergence and development of modern hospitals and hospital pharmacies in the Bulgarian lands in the era after the Liberation of Bulgaria from Ottoman rule.

3. Experimental laboratory studies

The author has 7 scientific publications included in the direction. Original data from various experimental studies are presented. The features of stress-induced analgesia and evaluation of endogenous cannabinoid action are clarified. The possibilities of applying cyclic-mediated isothermal amplification for the detection of *C. burnetii* in Bulgaria have been analyzed. Data from biopharmaceutical studies of various dosage forms and technology for the development of a pharmaceutical composition with pleasant organoleptic characteristics have been published.

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4. Role of the hospital pharmacist in providing clinical pharmaceutical services

The strand covers 18 publications, all of which are in peer-reviewed journals with impact factor, impact rank and/or indexed in Scopus. Data from various type and methodology studies showing the role of hospital pharmacists in providing clinical pharmaceutical services are presented. Several specific clinical cases with contributions to science and practice have been published. Surveys were conducted with different groups of respondents, and the original results were presented to the medical and pharmaceutical community.

5. Social pharmacy and health technology assessment

The direction also has a large volume of publications - 16 in total, which include a survey measuring satisfaction with the provision of pharmacy services, the results of which show that there is a positive attitude towards the expansion of pharmacy activities and strengthening and expanding the role of the pharmacist as a provider of health care. Several problems of modern society are explored, such as: misinformation, fake news and the importance of social forums. Author data from several different pharmaco-economic studies conducted are presented. Various aspects of the HTA process in Bulgaria have been analyzed.

The candidate Assoc. Prof. Grigorov presented data on the citation of his scientific works FOUR times above the minimum requirements, according to RDASDMU-Varna, which is proof of the significance and evaluation of the publication activity in an international scientific aspect. All citations are positive, there is data on the applicant's maintenance of active scientific profiles in databases, membership in scientific and professional organizations, participation in scientific forums and visibility of the activity.

I accept and appreciate the highly presented report on the contributions, I believe that they correctly and comprehensively reflect the achievements of the author.

Notes and recommendations.

I will limit my comments in this part of the review to peer recommendations for the candidate. I share my wish for an active continuation of publication activity, focus on articles in journals with an impact factor, development, development and testing of independent study programs. I am sure that Assoc. Prof. Grigorov has the desire, the will and will do what is necessary for the development of hospital pharmacy, both as a regulation, but also training, specialization, quality of activities, sustainable development and career realization of students, interns and specialists from the practice, with the wide toolkit of modern scientific understandings and approaches. By participating in this competition, Assoc. Prof. Grigorov puts his own emphasis on the development of this scientific specialty.

Conclusion.

Based on the materials presented by the candidate and reviewed by me for the current competition with a single candidate Assoc. Prof. Evgeni Evgeniev Grigorov, MScPharm, PhD, I believe that the requirements of ASDA, the Regulations for its application and RDASDMU-Varna for occupying the academic position "Professor" have been exceeded.

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I give my entirely positive assessment of the candidate's research and teaching activities, considering that Assoc. Prof. Grigorov is a proven, respected and sought-after specialist, and based on my personal impressions, I can confidently confirm that he possesses the qualities, skills, qualification, experience and competence for hiring AP "Professor".

On the basis of the ASDA, the Regulations for its application and the RDASDMU-Varna, I propose to the members of the HONORABLE SCIENTIFIC JURY to vote positively and propose for selection for the appointment of AP "PROFESSOR" in the scientific specialty "HOSPITAL PHARMACY" in the field of higher education 7. "Healthcare and sport", professional direction 7.3 "Pharmacy", for the needs of the Department "Organization and Economics of Pharmacy" of the Faculty of Pharmacy of Medical University "Prof. Dr. Paraskev Stoyanov"-Varna **Assoc. Prof. EVGENI EVGENIEV GRIGOROV, MScPharm, PhD.**

Reviewer:



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Prof. Ilko Nikolaev Getov, PhD

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