

МЕДИЦИНСКИ УНИВЕРСИТЕТ
ПЛОВДИВ
Вх. № *Р 8143*, 21. 08. 2024 г.

To
The Chair of the Scientific Jury,
determined by Order No R - 2158/24.06.2024.

Blvd. B. Aprilov №15A
4002 Plovdiv

To your Protocol No. 1/ from

Please find attached: **Statement of Opinion**
in competition for the academic position of **Associate Professor**
in **Pharmacoeconomics and Pharmaceutical Regulation**
announced for the needs of MU-Plovdiv, Department of Health Care Management
Published in State Gazette, issue 35/19.04.2024

Reviewer. Assoc.prof. Hristina Viktorova Lebanova, Ph.D
Scientific speciality/s: **Pharmacoeconomics and pharmaceutical regulation**
Institution: **Faculty of Pharmacy, Medical University - Pleven**

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Statement of Opinion

by Assoc. Hristina Viktorova Lebanova, Ph.

Medical University-Pleven, Faculty of Pharmacy, Department of Pharmaceutical Sciences and Social Pharmacy

The only candidate in the competition is m.pharm. Anna Atanasova Mihaylova, Ph.D., Senior Lecturer at the Department of Health Care Management, Faculty of Public Health, Medical University - Plovdiv.

The documents submitted in connection with the competition are complete and per the requirements of the Regulations on the Structure and Activities of the Medical University-Plovdiv and the Regulations on Academic Development at MU-Plovdiv, which enables the evaluation of the candidate participating in the competition.

I. Analysis of the candidate's career profile.

Anna Atanasova Mihaylova graduated in Pharmacy in 2008 at the Faculty of Pharmacy of Medical University - Plovdiv. She holds a master's degree in public health and health management from the Medical University of Sofia in 2004. Since 1997 she has been working at the Medical University of Plovdiv, and since 2009 she has been a senior lecturer at the specialty "Assistant Pharmacist" at the Medical College. In 2018 she obtained PhD in professional field 7.3 Pharmacy, specialty "Pharmacoeconomics and Pharmaceutical Regulation" with a dissertation entitled "Epidemiological and pharmacoeconomic study of corticosteroid prophylaxis of hyaline membrane disease in preterm infants". Anna Mihaylova has acquired 2 specialties, in "Medical Pedagogy" in 2007 at Medical University Sofia and in "Organization and Economics of Distribution and Pharmacy Practice" in 2022 at Medical University Plovdiv. Since 2023 she has been a senior lecturer at the Department of Health Care Management, Faculty of Public Health, where she is the head of the newly established master's program in Pharmaceutical Business Management.

Anna Mihaylova, was responsible for the research activities in the "Assistant Pharmacist" program and a member of the Council of Medical College at Medical University - Plovdiv for the period 2012-2022. She received the maximum grade of "Very Good" from the last appraisal conducted for the period 2018 - 2020.

Her career development fully corresponds to the field of the announced competition.

The submitted set of materials in electronic form follows the requirements of the Law on the Development of Academic Staff in the Republic of Bulgaria, the Regulations for its implementation, and the Regulations for Academic Development at MU-Plovdiv. Additional documents certifying the candidate's participation in international scientific forums held in the country and abroad, work with students, etc. are submitted.

II. Evaluation of the candidate's scientific works for overall academic development.

In her career development, Anna Mihaylova has authored and co-authored over 90 scientific publications. She presents in the present procedure her scientific works, from 2012 until now, excluding those submitted for the PhD. The presented scientific production includes 86 publications: 35 publications in scientific journals refereed in Scopus and Web of Science, 17 of them with impact factor (Clarivate Analytics); 51 publications in non-refereed journals with scientific peer review or published in edited collective volumes.

Anna Mihaylova has participated in 9 scientific and educational projects, 2 of them international, and in 1 of the projects she is a leading expert.

The presented scientific papers cover a wide range of issues in the field of competition, mainly focused on current and significant problems in the field of pharmaceutical practice and regulation, pharmacoconomics, and pharmaceutical education.

Anna Mihailova's research activity can be summarized in the following areas:

1. *PHARMACEUTICAL REGULATION*

- ✓ Authorisation and regulation of medicinal products and food supplements
- ✓ Regulation in crises and control of certain infectious diseases.

2. *PHARMACEUTICAL CARE*

- ✓ Pharmaceutical care and patient counseling, pharmacist's role in reviewing drug therapy
- ✓ Pharmaceutical care in some chronic diseases
- ✓ Pharmaceutical care in specific populations
- ✓ Information and communication technology and pharmaceutical care

3. *PHARMACOECONOMIC ANALYSIS AND MEDICO-SOCIAL ASPECTS IN PRETERM INFANTS*

- ✓ Health economic cost assessment of preterm infants with respiratory complications
- ✓ Pharmaco-economic and epidemiological study of prenatal corticosteroid prophylaxis
- ✓ Application of surfactant therapy

4. *THE ROLE AND PLACE OF DIETARY SUPPLEMENTS IN PHARMACY PRACTICE*

- ✓ Therapeutic action, advantages, regulation
- ✓ Undeclared formulations in dietary supplements and alternative products on the market

5. *ENHANCING THE QUALITY OF TRAINING OF MEDICAL PROFESSIONALS*

- ✓ Good pharmaceutical practices in professional training
- ✓ Digitalization in modern professional/medical education
- ✓ Additional opportunities for practical training and research

6. *EHEALTH DEVELOPMENT IN BULGARIA*

- ✓ Importance of eHealth for optimizing pharmaceutical care
- ✓ Telepharmacy - clinical benefits and challenges
- ✓ Ethical challenges related to digital technologies and artificial intelligence in healthcare.

7. *THERAPEUTIC APPROACHES AND REHABILITATION PROGRAMMES FOR SOCIALLY SIGNIFICANT DISEASES*

- ✓ Management of chronic diseases
- ✓ Contemporary dimensions of health tourism
- ✓ Multidisciplinary rehabilitation approaches

8. *THE IMPACT OF THE COVID-19 PANDEMIC ON ASPECTS OF SOCIAL LIFE*

- ✓ Effective management of learning in a distance electronic environment
- ✓ Innovative technologies to help students

- ✓ Challenges for medical professionals in the context of a pandemic
- 9. *APPLICATION OF BIOPRINTING AND 3D PRINTING IN HEALTHCARE*
- ✓ Application of bioprinting in personalized medicine, dentistry, and the pharmaceutical sector
- ✓ 3D (bio)printing in modern medical education
- ✓ Ethical and legal regulation of bioprinting

IV. Evaluation of the monographic work or equivalent publications submitted by the candidate for the competition for "ASSOCIATE PROFESSOR".

The submitted basic monographic work "Good Pharmacy Practice in the Training of Assistant Pharmacists", was published in 2020, with ISBN 978-619-236-208-9, contains 187 pages, and the volume and subject of the monographic work fully comply with the legal requirements. The monograph is devoted to a multi-component topical issue, namely the current concept of good pharmaceutical practice, regulations on standards and quality of pharmaceutical and healthcare services offered, public health and education intertwined with various aspects in the training of assistant pharmacists and their formation as healthcare professionals. The author has many years of experience in this field and skillfully intertwines pharmacy practice and pharmaceutical care with educational services for the training and professional formation of pharmacy assistants. Anna Mihaylova is the author of the curriculum and course content of the additional course "Good Pharmacy Practice" at Medical College Plovdiv.

The presented monographic work in co-authorship between Mihaylova A, Parahuleva N. "Health economic cost assessment of preterm infants with respiratory complications", with ISBN 978-619-236 509-7 is the second expanded edition of 2024 (first edition 2020) and contains 283 pages. A separation protocol certifying co-authorship of the two authors of the collective monograph has been correctly submitted, and the volume and subject of the monographic work fully comply with legal requirements. The monograph is devoted to a topical problem worldwide, namely, the consequences of preterm birth in preterm neonates, prevention of complications and respiratory pathology, presented in medico-social and health-economic aspects. Contribution is a pharmacoeconomic evaluation of surfactant administration in preterm infants.

Participation is also presented with published chapters in three collective monographs, which are the result of the candidate's project activity.

V. Reflection (citation) of the candidate's publications in the national and foreign literature (publication image).

A list and evidence of 68 citations in Scopus and Web of Science databases; 6 citations in monographs and books; 110 citations in non-peer-reviewed journals is provided. 156 publications were cited by foreign authors, and 28 publications were cited by Bulgarian authors. *H-Index* of the candidate Anna Mihailova is 5 by Scopus and 4 by Web of Science.

VI. Complex, qualitative evaluation of the teaching and learning activities, including scientific guidance of students, doctoral students, and postgraduate students.

The report on the teaching workload of Sr. Prep. Anna Mihaylova for the last 3 years respectively: 1250,6 hours, 1246,2 hours and 881,6 hours, shows an extremely large teaching load, which exceeds the norm for non-habilitated lecturers (360 hours). The candidate delivers 30% of lectures, conducts practical exercises and seminars, participates in practical and theoretical examinations, and is also a member of the State Examination Board in Social Pharmacy at the MC Plovdiv. She has worked actively with students and as a result, has several joint publications and participation in national and international forums. She has been an advisor, mentor and tutor to interns and students in various international programs.

VII. Critical comments and recommendations.

I have no critical comments on the materials submitted by the applicant. I recommend that he continue his research in pharmaceutical regulation and pharmaceutical care. I believe that the candidate Anna Mihailova has the potential to expand active project work internationally.

VIII. Overall assessment of the applicant's compliance with the minimum national requirements under Article 2b, paragraphs 2 and 3, respectively the requirements under Article 2b, paragraph 5 of the RRADB Act and the specific units for MU - Plovdiv.

Comparative indicators of St. Prep. Anna Mihaylova and the required minimum number of points from the mandatory minimum requirements for the position of Associate Professor at the Medical University - Plovdiv, as the candidate has **3610.3** points with a required minimum of 1270 points. The data show that the candidate Anna Mihaylova meets the mandatory conditions and significantly exceeds the quantitative criteria and scientific-metric indicators and the indicators of MU-Plovdiv for the field 7.3. Pharmacy for the position of Associate Professor.

IX. Conclusion

Anna Mihaylova has presented enough scientific papers with original scientific and applied contributions, a significant number of which have been published in prestigious refereed journals. The developments have practical applicability, they are focused on current problems in pharmaceutical practice and regulation.

Based on the above I give my positive assessment, and I strongly believe that Senior Lecturer Anna Atanasova Mihaylova, PhD meets the requirements of the Law on Academic Development in Plovdiv, the Regulations of MU-Plovdiv, the Regulations on Academic Development in MU-Plovdiv and I recommend the distinguished members of the Scientific Jury to award the academic position " ASSOCIATE PROFESSOR " in the field of higher education 7. Health and Sport, professional field 7.3 Pharmacy in the specialty "Pharmacoeconomics and Pharmaceutical Regulation".

Date: 19.08.2024

Signature:

/ Assoc. prof. Hristina Lebanova, Ph.D./

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