

To the Chairman of the Scientific Jury,
determined by Order No. 15-05-09#1 of 30.01.2024.
of the Executive Director and Procurator of
Acibadem City Clinic UMBAL "Tokuda" EAD, Sofia

REVIEW

by Prof. Dr. Asen Ivanov Nikolov, PhD
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Regarding: the competition for the occupation of the academic position "PROFESSOR" in the field of higher education 7. "Health and sport", professional direction 7.1. Medicine and specialty "Obstetrics and Gynecology", for the needs of an Obstetrics and Gynecology clinic at Acibadem City Clinic UMBAL "Tokuda" Sofia, announced in "SG" no. 98 of 24.11.2023

In relation to the procedure: In the current competition for the academic position of "Professor", one candidate submitted documents within the legal term and was admitted to participate: Associate Professor Petar Tsankov Markov, PhD. For the competition, Associate Professor Petar Markov has presented all the necessary documents and materials, precisely described and clearly arranged according to the requirements of the RASRB and the Regulations for its application in Achibadem City Clinic UMBAL "Tokuda" Sofia.

Biographical data, professional development

Associate Professor Petar Markov was born in 1977 in Sofia. Secondary education completed in 35 CEUs with English language teaching, with full honors. In 2002 became a Master of Medicine in the Faculty of Medicine at the Sofia University, with excellent success. In 2003-2007 is a specialist in "Obstetrics and Gynecology" at the Department of "Obstetrics and Gynecology" at the Medical University - SBALAG "Mother's House" EAD. In 2007, he successfully passed the exam in the specialty "Obstetrics and Gynecology". From 2009 to 2017 is an assistant with medical-diagnostic and teaching activities at the Department of Obstetrics and Gynecology, Medical Sofia University and a specialist at the First Clinic of Operative Gynecology, SBALAG "Mother's House" Sofia; In 2012, he defended his second master's degree in the specialty "Public Health and Health Management" at the FPH, MU-Sofia. In 2015 received the educational and scientific degree "PhD" with the topic of the dissertation "Problems in nutrition in women of childbearing age - a risk factor for reproductive health". From 2012 to 2016, he was a part-time assistant, and from 2016 is an associate professor and carries out teaching activities at the Department of Obstetrics and Gynecology, MF, Sofia University, as well as at the Health Care Department, Health Sciences, Sofia University. From January 2018 became the Head of the Department of Obstetrics and Gynecology at Acibadem City Clinic UMBAL "Tokuda" Sofia, which from 2022 has been transformed into a Clinic of Obstetrics and Gynecology.

He is a member and active participant of the following Bulgarian medical organizations: Bulgarian Medical Union (BLS); the Bulgarian Society of Obstetrics and Gynecology (BDAG); the Bulgarian Association for Ultrasound in Obstetrics and Gynecology (BAUG); Bulgarian Association of Oncogynecology (BAOG), European Association of Oncogynecology (ESGO).

Research activity

Associate Professor Petar Markov's overall research activity covers 242 scientific works: one dissertation, one independent monograph and 170 full-text publications - articles in magazines, conference proceedings, participation in the writing of textbooks, edited books, study guides and collective monographs in Bulgaria and abroad.

After acquiring the scientific position "Associate Professor", the candidate presented to the attention of the scientific jury a list of a total of 94 published scientific works in the period 2016 - 2024, including one habilitation work - a monograph.

Publications of the candidate in full text after holding the academic position of "associate professor" include:

- Independent monograph - habilitation work on the topic: "Placenta previa. Endgame"
- Articles in magazines - 83;
 - Of them: in journals with an impact factor – 1;
 - In journals, referenced and indexed in world famous databases – 13;
 - In peer-reviewed journals – 76;
- Participation in the writing of textbooks and study guides – 3:
 - Total number of chapters in which the candidate is an independent author – 2.
- Participation in edited books - 4, with a total of 12 chapters:
 - independent author - in 1 chapter;
 - lead author – in 3 chapters.

I accept that the chapters should be counted as separate publications, since they have a separate bibliography.

Participation in congresses after holding the academic position of "associate professor" includes:

- Total number of reports/posters from participation in congresses – 37;
- Participation in international congresses with published abstracts in journals with an impact factor – 10;
- Participation in Bulgarian congresses without published abstracts – 27;

Impact factor, H-index and candidate citation data

The impact factor of the candidate's works are as follows: The total IF of publications is 53.85, and the individual one – 9.36. The overall impact factor of published articles is 0.415, and the individual one – 0.138. The impact factor of published abstracts is 53.44 (total) and 9.22 (individual), respectively.

H-index, established on the SCOPUS e 3 database, on the WEB of Science e 3 database, with the corresponding average number of citations reported for the period after 2016. The general H-index of the works of Associate Professor Petar Markov for purposes of the works of Associate Professor Petar Markov for the entire period of his research activity is 5.

The citations of the scientific works of Associate Professor Petar Markov are established accordingly:

- in Bulgarian sources (reference from the CMB).
- 177, of them: 121 were published after 2016 - in monographs, in magazines, in dissertations, textbooks and abstracts.
- in foreign sources according to a reference from the CMB after 2016:
- 44 – according to the Web of Knowledge database;
- 31 – according to the Scopus database.
- in foreign sources according to a Google Scholar reference after 2016 – 64

The scientometric indicators of Prof. Peter Markov cover or exceed the quantitative criteria provided for in the ZRASRB and the Regulations for its application in Achibadem City Clinic UMBAL "Tokuda" Sofia for acquiring the academic position of "professor".

Prof. Petar Markov's scientific developments are in the following main areas:

- Delivery in cases with placenta previa and abnormal placentation.

These are one of the highest risk cases in Obstetrics in general, associated with a number of complications that directly threaten the health and life of the mother and her fetus. Experience with these cases is acquired with difficulty and over a long period of time, and mostly in certain medical facilities where this type of pathology is concentrated.

- High-risk pregnancy, twin pregnancy

Some specific complications of pregnancy, although rare, can be factors that significantly increase perinatal and maternal morbidity and mortality. A twin pregnancy is also considered a high-risk pregnancy, which raises questions both about the period of wear and tear of the pregnancy and the choice of time and method of delivery.

- Medical-social and medical-ethical problems

Medicine at the population level has its essential and irrevocable importance for health care, as a complex approach to improving the quality of public health. The medico-ethical problems related to the quality of life, as well as the need for informed choice, autonomy and confidentiality of patients when making decisions related to their health, are relevant.

- Evaluation of the diet on the health of at-risk population groups

Balanced nutrition of women of childbearing age is of utmost importance, as they are a risk population group, due to their relatively higher and specific physiological needs of essential nutrients, and disorders in their diet are associated with an increased risk of reproductive dysfunctions and problematic future wear of a healthy fetus.

- Ultrasound in obstetrics and gynecology

The role of ultrasound examination as the main diagnostic method in Obstetrics and Gynecology is indisputable. Advances in technology, the improvement of equipment, the appearance and implementation of three-dimensional ultrasound in clinical practice are the factors that require the use of ultrasound in all directions - from prenatal diagnostics in Obstetrics to the diagnosis of any gynecological diseases in non-pregnant women.

Associate Professor Petar Markov is the supervisor of 1 successfully defended dissertation for awarding the scientific degree "PhD".

Contributions of the scientific works of Associate Professor Petar Markov, submitted for review in the competition for "Professor".

- The main methodological contribution is related to his habilitation thesis: "Placenta previa. Endgame". A significant part of the monograph is occupied by modern behavior in the operating room. The type of anesthesia administered, operative access, and methods of bleeding control are described in a logical sequence. All possible operative approaches and techniques are described in the sections on performing peripartum hysterectomy. Intraoperative and postoperative care and complications are reviewed. A detailed overview of the foreign literature was made and specifically each of the discussed topics was described and compared with the personal experience in Bulgaria. An important place is devoted to the introduction and implementation of the multidisciplinary approach in these cases. Delivery in a large central general hospital with specialists from various surgical and non-surgical specialties, a high level of specialized resuscitation and its own blood bank are necessary conditions for a favorable outcome.

- Studies related to ultrasound in Obstetrics and Gynecology also have a methodological contribution. The experience with the prenatal diagnosis of a number of structural anomalies of the fetus has been systematized - scientific papers No. 2, 85, 86, 87, 91, 92. Standards and algorithms have been developed for conducting ultrasound examination in Obstetrics and Gynecology - scientific papers No. 23, 24, 25, 28, 29, 54, 90, 93.

- Developments in the field of social medicine (papers 49, 51, 60, 62, 68, 70, 77, 83) and the nutrition of high-risk population groups - children, women of childbearing age and pregnant

women, have a scientific and applied nature, scientific works with No - 1, 16, 20, 32, 37, 40, 41, 48, 56, 57, 59, 66.

• Publications related to high-risk pregnancy and twin pregnancy, scientific works No. 3, 26, 27, 50, 69, 89, are of an applied nature.

Teaching and learning activity

Associate Professor Petar Markov is a teacher at Acibadem City Clinic UMBAL "Tokuda" Sofia. Participates in the training of students and trainee doctors in human medicine.

Under his leadership, training of specialists in obstetrics and gynecology takes place (3 have completed their specialization and acquired a specialty in Obstetrics and Gynecology, and another 5 specialists are currently being trained).

In support of the contribution to educational and teaching activities are the participations in the preparation of manuals, study aids and programs in Obstetrics and Gynecology, and with their qualification contributes to raising and equating the quality of the educational process to European standards. He is the author of several chapters in a textbook on Obstetrics and Gynecology for students and specialists.

His academic load for the last 5 years is over 449 equivalents study hours.

Analysis of the attached evidentiary materials for scientific and teaching activities:

According to the criteria and indicators of Art. 1a of the Regulations for the development of the academic staff in Achibadem Sitik Clinic UMBAL "Tokuda" Sofia, in accordance with the RSARB and the so-called "Minimum requirements for the scientific and teaching activity of the candidates for the academic position "professor" - professional direction "Medicine", the candidate meets all mandatory requirements.

Indicator group A – meets the requirements

Group of indicators B (skilled work) covers the requirements with 100 points.

Group of indicators D (publ.) - 1106 items - significantly exceeds the requirement of 200 items.

Indicator group D (citations) - 615 points - significantly exceeds the requirement of 100 points. (In this group, the candidate scored only his foreign citations, respectively if the points from the Bulgarian citations are added to them, his result will exceed 1200 points.)

Group of indicators E – 175 items significantly exceeds the requirement of 100 items.

Total number of points of the candidate – 2046 points with a minimum requirement for "professor" of 550 points.

Therapeutic-diagnostic and advisory activity

Professionally, Associate Professor Petar Markov is becoming a leading specialist in the field of gynecology and oncogynecology. Consistent is his work on optimizing the quality of the obstetric and gynecological care provided and the aspiration to the introduction and imposition in practice of the most modern diagnostic and therapeutic approaches at the European level. He is engaged in establishing and solving the problems of the most severe pathology in gynecology. In his capacity as head of the Obstetrics and Gynecology Clinic at Achibadem Sitik Clinic UMBAL "Tokuda" Sofia, Associate Professor Petar Markov has developed and proven established management skills.

Personal impressions

I have known Associate Professor Petar Markov since 2002 throughout his career development at "Mother's House". Over the past years, he has developed as an obstetrician-gynecologist with extensive professional, theoretical and practical experience. The multidisciplinary, theoretical and practical training enables him to face the challenges of daily activity. Associate Professor Petar Markov skilfully combines scientific, teaching and management activities. In all aspects

of his activity, there is a continuous effort to learn and introduce diagnostic and therapeutic approaches that are innovative for Bulgaria. Thanks to his excellent management qualities, he skillfully managed to impose these innovations in practice. Prof. Petar Markov is one of the erudite lecturers at the Bulgarian scientific forums on the topics of obstetrics, gynecology and oncogynecology in Bulgaria.

Conclusion

The analysis of the scientific-research, teaching-teaching, treatment-diagnostic and consulting activities of Assoc. Prof. Markov shows that the candidate fully meets the national conditions, as well as the qualitative and quantitative criteria of the Regulations on the Terms and Conditions for the Acquisition of Scientific Degrees and occupying academic positions in Acibadem Sity Clinic UMBAL "Tokuda" Sofia to acquire the academic position "Professor". Based on this, I firmly believe that Associate Professor Petar Tsankov Markov, PhD, fully meets all the requirements for acquiring the academic position "PROFESSOR" in the specialty of Obstetrics and Gynecology, expressing my full support for the selection of his candidacy.

25.02.2024

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/ Prof. A. Nikolov, PhD/