

Review
by Prof. Nikolai Draganov Mladenov, DSc
Head of ICU, Agibadem City Clinic UMBAL Tokuda EAD
regarding the procedure for acquiring an academic position professor of
Ass.Prof. Petar Tsankov Markov, MD
in scientific specialty "Obstetrics and gynecology"

The competition was announced in SG No. 98/24.11.2023 for the acquisition of the academic position of "professor" for **Ass. Prof. Petar Tsankov Markov, PhD** in the field of higher education 7. Health care and sports, professional direction 7.1. "Medicine" and the scientific specialty "Obstetrics and gynecology" for the needs of the Obstetrics and Gynecology Clinic of Acibadem City Clinic UMBAL Tokuda EAD. The composition of the scientific jury was determined on the basis of a decision at a meeting of the scientific council of Ajibadem City Clinic UMBAL Tokuda EAD dated 01.11.2023, with Protocol No. 49/01.11.2023 and order No. 15-05-09#1/30.01.2024 of the executive director and the Procurator of the hospital.

AUTOBIOGRAPHY, EDUCATION AND TRAINING

The participant in the competition, Ass. Prof. Petar Tsankov Markov, PhD, was born on 06.12.1977, with 22 years of work experience. He completed his higher education at Sofia Medical University in 2002. From 2003 to 2007. specialized and subsequently obtained a specialty in Obstetrics and Gynecology at specialized Hospital for active treatment in obstetrics and gynecology "Mother's home" EAD, Department of Obstetrics and Gynecology, where he subsequently worked initially as a resident at the First Clinic of Operative Gynecology, and subsequently as an assistant at the Department of Obstetrics and Gynecology Gynecology, with a volume of medical-diagnostic and teaching activity. In 2015 at the Medical University of Sofia, Faculty of Public Health, she obtained a master's degree in the field of Social Medicine and Health Care Organization and Pharmacy, with a subsequent and scientific doctor of medicine degree on the topic "Problems in nutrition in women of childbearing age - a risk factor for reproductive health".

For the period 2012 - 2020, assistant and associate professor at the Department of Health Care. He was the manager from 2007 to 2021 and from 2022 to today of specialized medical centers in the field of obstetrics and gynecology - AG Center "MARKOV" Ltd. and Medical Center "Trinity" Ltd., with medical activity related to the field of Obstetrics and Gynecology, including examinations, consultations and manipulations in the same area. From 1995 to 1997, he worked as a computer expert at the National Center for Sports Medicine, Clinic for Sports Traumatology and Orthopedics, Sofia, gh. "Dianažad" and "Apis" Company, Sofia. From 2022 to today, he is the head of the Obstetrics and Gyrecology Clinic of Acibadem City Clinic UMBAL Tokuda EAD. Ass.Prof. Petar Tsankov Markov, PhD, fulfills all the necessary requirements for participation in the competition for the academic position "professor" listed in the academic development regulations of Acibadem City Cliric UMBAL Tokuda EAD, namely: 1. Presents diplomas, certificates and certificates for completed higher education, acquired specialties, acquired educational and scientific degrees, as well as certificates for passed specializations, qualification courses and seminars. 2. Presents in the required volume a list of publications in specialized, scientific publications, monographs, textbooks, scientific projects. The overall scientific activity of Ass.Prof.Petar Tsankov Markov, PhD, is represented by a dissertation, a monograph, publications and participation in scientific forums, as well as citations. The dissertation is on the topic "Problems in nutrition in women of childbearing age - a risk factor for reproductive health", with a subsequent monograph in 2024 "Placenta previa. Endgame", ISBN 978-619-04-0124-7. In the section "Publications and reports published in scientific publications, referenced and indexed in world-famous databases with scientific information" scientific works (total) 127 and abstract and scientific works in connection with the dissertation work are presented. They can be distributed in the following sequence:

- Full text publications – 83;
- In Bulgarian scientific publications - 67, with first author 36, second author 16, third and more author 15;
- In foreign scientific publications – 16, for the first author 12, for the second author 3 and for the third and more authors 1;
- Publications in summary – 10, foreign 10, second author 2, third and more author 8;

➤ Participation with reports in scientific forums, conferences – 27;

➤ Citations after 2016 185, in Bulgarian – 121, foreign – 64, Scopus 31, Web of knowledge 44, Google scholar 64;

➤ Impact factor – 53.44, h – index 3 - In world scientific circles, the use of the so-called Hirsch index for the objective assessment of the value of scientific works for each author individually, based on the number of publications and their citations.

EDUCATION ACTIVITY

In summary it can be characterized as follows: Since 2017, Dr. Ass. Prof. Petar Tsankov Markov, PhD, is a lecturer (associate professor) at the Department of Obstetrics and Gynecology, Faculty of MEDICINE, Medical University -Sofia, subsequently at the Faculty of MEDICINE of Sofia University "St. Kliment Ohridski". Since 2016, a part-time teacher (associate professor) at the Health care at the Faculty of Public Health, Medical University-Sofia. He has taught Bulgarian and foreign students of medicine, dentistry and AG specialists, as well as midwives, nurses, bachelors and masters. He conducted practical classes for trainee doctors and specialists in Obstetrics and Gynecology, for general practitioners in a course in General Medicine (module "Obstetrics and Gynecology"). He was also a responsible assistant for specialists in Obstetrics and Gynecology. He participated in the thematic course "Operative Gynecology" through the postgraduate qualification. During the last academic years, he participated in examination committees for medical students from the 5th and 6th year at the Sofia University "St. Kliment Ohridski", as well as in examination committees for awarding a specialty in Obstetrics and Gynecology at the Sofia University.

The scientific-research and scientific-applied activities of the candidate are focused mainly in the following scientific areas of the specialty Obstetrics and Gynecology:

➤ Delivery in cases with placenta previa and abnormal placenta;

➤ High-risk pregnancy, twin pregnancy;

➤ Medical-social and medical-ethical problems;

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

➤ Ultrasound in Obstetrics and Gynecology.

On the basis of this activity, the following scientific contributions of Ass. Prof. Tsankov Markov, PhD, can be highlighted, systematized in the following sequence:

Regarding the habilitation work - monograph: "Placenta previa. Endgame".

Contributions of original character

➤ For the first time in Bulgaria, experience with operative delivery in cases with placenta previa and PAS has been systematically and consistently presented. The available information in foreign literature is compared with what is practically applied in our country;

➤ For the first time in Bulgaria, specific techniques have been described and used to limit or compensate for blood loss during the operative delivery of such patients - these are the techniques of intravascular balloon occlusion, as well as auto hemotransfusion;

➤ Some extremely rare cases have been described, which are casuistry even on a global scale - spontaneous rupture of the uterus with placenta percreta, as well as a combination of Guillain Barré syndrome with placenta previa and PAS.

Contributions of an applied nature

➤ The risk factors for the occurrence of placenta previa and PAS, the frequency of these complications of pregnancy, as well as the principles of preoperative preparation in these patients are discussed.

➤ 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 fields specialties, a high level of specialized resuscitation and own blood bank are necessary conditions for a favorable outcome.

➤ The optimal period for planned delivery in pregnant women with placenta previa and PAS in the pre-term period of pregnancy has been determined, according to the individual approach in each specific case.

Contributions of a methodical nature

➤ A major part of the monograph is modern behavior in the operating room. The type of anesthesia administered, operative access, and methods of bleeding control are described in a logical sequence;

➤ In the sections on performing per partum hysterectomy, all possible operative approaches and techniques are described. 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.

Contributions in the scientific field "HIGH-RISK PREGNANCY AND TWIN PREGNANCY"

Contributions of original character

➤ Specific clinical conditions that complicate pregnancy and increase the risk have been described. Some were described for the first time in Bulgaria and represent casuistic cases worldwide;

➤ Standards have been introduced for ultrasound examination in uncomplicated and complicated twin pregnancies;

Contributions of an applied nature

➤ An assessment of complications in the course of a twin pregnancy was made;

➤ A comparative analysis of delivery methods and complications in twin pregnancies in Bulgaria and around the world was carried out;

Contributions in the scientific field "MEDICAL-SOCIAL AND MEDICAL-ETHICAL PROBLEMS"

Contributions of an applied nature

➤ An expert analysis of risk factors, such as deficits and imbalances in the nutrition of population groups - children, women of childbearing age or pregnant women - was carried out;

➤ Medico-ethical problems of a different nature, with public importance and relevance in the modern way of life, are described;

Contributions in the scientific field "ASSESSMENT OF THE NUTRITIONAL REGIME ON THE HEALTH OF RISK POPULATION GROUPS"

Contributions of original character

➤ National and regional problems in food consumption have been identified;

➤ For the first time, an assessment of the reproductive health risk of nutritional imbalances in women of childbearing age was carried out;

Contributions of an applied nature

- A complex expert assessment was carried out and recommendations were made for deficiencies in the nutrition of infants and children;
- Practical guidelines have been developed to optimize the nutritional model of women of childbearing age in our country, with the aim of improving fertility health;
- Nutrition guidelines for pregnant women in our country have been developed;

Contributions in the scientific field "USHOGRAPHY IN OBSTETRICS AND GYNECOLOGY"

- The experience with the prenatal diagnosis of a number of fetal structural anomalies has been systematized;
- The possibilities of three-dimensional ultrasound in Obstetrics are described;
- The possibilities of three-dimensional transvaginal ultrasound in Gynecology are described;
- Standards and algorithms have been developed for conducting ultrasound examination Obstetrics and Gynecology;

Educational activity

In summary, it can be characterized as follows:

Since 2017, Dr. Ass.Prof.Petar Tsankov Markov, PhD, is a lecturer (associate professor) at the Department of Obstetrics and Gynecology, Faculty of Medicine, Medical University-Sofia, subsequently to the Faculty of Medicine of the Sofia University "St. Kliment Ohridski". Since 2016, part-time teacher (associate professor) at the Department of Health Care at the Faculty of Public Health, University of Medicine Sofia. He has taught Bulgarian and foreign students of medicine, dentistry and AG specialists, as well as midwives, nurses, bachelors and masters. He conducted practical classes for trainee doctors and specialists in Obstetrics and Gynecology, for general practitioners in a course in General Medicine (module "Obstetrics and Gynecology"). He was also a responsible assistant for specialists in Obstetrics and Gynecology. He participated in the thematic course "Operative Gynecology" through the Department of Health Care at the Faculty of Public Health, University of Medicine Sofia. During the last academic years, he participated in examination committees for medical students from the 5th and 6th year at Sofia University "St. Kliment Ohridski", as well as in examination committees for awarding a specialty in Obstetrics and Gynecology at the Sofia University.

CONCLUSION

The scientific activity of Ass.Prof. Petar Tsankov Markov, PhD, meets the requirements for acquiring the academic position of "professor", defined in the Regulations for the Development of the Academic Staff for the Needs of the Obstetrics and Gynecology Clinic of Achibadem City Clinic UMBAL Tokuda EAD. Proficient in English, certified. I believe that Ass.Prof. Petar Tsankov Markov, MD meets the academic and scientific criteria for holding the academic position of "Professor" for the needs of the Obstetrics and Gynecology Clinic of Achibadem City Clinic UMBAL Tokuda EAD.

Sofia

20.03.2024

Head of ICU, Achibadem City Clinic UMBAL Tokuda EAD

Prof. MD N. Mladenov, DSc /...../

