

REVIEW

by Prof. Dr. Maria Angelova Angelova, MD

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regarding

a competition for the academic degree of "Associate Professor" in the professional field 7.1. Medicine, specialist Obstetrics and Gynecology, announced in the State Gazette No. 101/29.11.2024, for the needs of the Medical University "Prof. Dr. Paraskev Stoyanov" - Varna

by Dr. Simona Anzhel Georgieva, MD

Brief biographical data

Dr. Georgieva graduated with honors in medicine in 2016 at the Medical University - Varna and in the same year was enrolled as a specialist in obstetrics and gynecology with a training base - SBAGAL Varna. Since 2017, she has been an assistant at the Department of Obstetrics and Gynecology of the Medical University - Varna and won a competition for full-time doctoral studies. In 2021, she obtained the scientific degree "Doctor" with a dissertation on the topic "Ovarian response, embryo quality and ectopic pregnancy". Since 2022, she has held the academic position of "Chief Assistant" at the Department of Obstetrics and gynecology. In 2024, she published a monograph on the topic "Follow-up of pregnancies after assisted reproductive technologies - risks, complications and recommendations for prevention". Since 2014, she has been training, and subsequently became a member of the team of the Medical Center for Assisted Reproduction (MCAR) "Varna", where she currently works.

Scientific and professional interests are focused on the field of assisted reproductive technologies, high-risk pregnancies, early pregnancy complications and the impact of ART on postnatal development.

Participation in courses and professional qualifications

Dr. Georgieva's professional interests are in the field of assisted reproductive technologies and embryology, endoscopic surgery and ultrasound diagnostics in obstetrics and gynecology, for which she has the relevant certificates.

1. 2017 - Course on Ultrasound Diagnostics in Obstetrics and Gynecology Practice, SBAGAL Varna, Medical University of Varna, Certificate No. 106-2392
2. 2017 - Theoretical and practical training in the field of fetal morphology under the project "Improved quality of prenatal diagnostics and neonatal care" SBAG Sofia, Certificate No. 70 of 20.10.2017
3. 2019 - Certified clinical embryologist at the European Society of Human Reproduction and Embryology (ESHRE)

4. 2022 – Diagnostic laparoscopy in gynecology – Level I – Certificate No. 109/02/12/2022
5. 2023 – Diagnostic and office hysteroscopy – Level I – Certificate No. 28/24/02/2022
6. FMF Certificate of competence and license on “11-13 weeks scan”, 17.12.21
7. FMF Certificate of competence and license on “Preeclampsia screening”, 17.12.21

Teaching Assessment

Dr. Georgieva has been a full-time assistant professor at the Department of General Pedagogy at the Medical University of Varna since 2019. During this period, she has been involved in teaching students in the specialties of Medicine, Dentistry and Midwifery in Bulgarian and English. She actively participates in the training of interns and residents.

Scientific and research activity

Dr. Simona Georgieva studies and reports on significant problems in the field of reproductive medicine, prenatal diagnostics and high-risk pregnancy. The following are submitted for the competition:

1. Dissertation on the topic: "Ovarian response, embryo quality and ectopic pregnancy", 2020.
2. Monograph: "Follow-up of pregnancies after assisted reproductive technologies - risks, complications and recommendations for prevention", 2024.
3. 25 full-text publications in Bulgarian and international journals.

Contributions Assessment

I. Contributions related to the dissertation work

1. For the first time, the relationship between ovarian response, the quality of transferred embryos and the probability of ectopic pregnancy has been studied.
2. All aspects of ART regarding the outcome of treatment and the risk of complications have been analyzed.
3. A significant association between tubal sterility and the number of transferred embryos has been confirmed, as has a proposed model for predicting the risk according to the patient's age.
4. The association between the transfer of low-quality embryos and the higher incidence of ectopic pregnancy has been proven.
5. Recommendations for optimizing all stages of ART treatment in order to reduce the risk and prevent complications have been proposed.

II. Contributions related to the monographic work

The main task of the monographic work presented by Dr. Georgieva is to improve the quality of prenatal care in Bulgaria, in particular in the follow-up of pregnancies after ART.

Worldwide, these patients continue their antenatal care outside of infertility clinics after 12 weeks, which necessitates the need to know the basic steps and details of the stages of IVF treatment.

Dr. Georgieva examines in detail the different aspects of stimulation, preparation for embryo transfer and progesterone support that put the pregnancy at risk. The problem of prenatal care and follow-up protocols is discussed, as well as screening and prevention of obstetric complications such as preeclampsia and anomalies in placental attachment. The issue of the risk of chromosomal abnormalities and morphological defects associated with ICSI, epigenetic changes, as well as the neuropsychiatric development of children born after IVF is clarified.

In conclusion, a sample protocol for monitoring high-risk pregnancies is proposed for the purpose of early diagnosis, prevention and timely treatment of complications.

III. Contributions in other thematic areas

1. Pregnancy and threatened fetus in infectious diseases.
2. Innovations in endoscopic treatment and office surgery.
3. Prenatal diagnosis and early signs for detection of chromosomal abnormalities
4. Complications in twin pregnancy
5. Ectopic pregnancy after ART – heterotopic, pregnancy in cesarean section scars.
6. Study of the influence of ART treatment in the psychological aspect and its reflection in the cultural, emotional, social and medical aspect of the couple;

Conclusion

The scientific output presented by Dr. Simona Anzhel Georgieva meets generally accepted standards. Based on the scientometric criteria and teaching and learning activities, I believe that Dr. Georgieva meets all the requirements for acquiring the academic position of "Associate Professor".

I would like to recommend to the esteemed members of the Scientific Jury to vote positively for awarding the academic position of "Associate Professor" in the scientific specialty "Obstetrics and Gynecology" to Dr. Georgieva, according to the Regulations for the Development of the Academic Staff at the Medical University "Prof. Dr. Paraskev Stoyanov" - Varna.

Date: 14.03.2025r.

Prepared by:

Заличено на основание чл. 5,
§1, б. „В“ от Регламент (ЕС)
2016/679

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