

**UNIVERSITY OF MEDICINE AND PHARMACY
„CAROL DAVILA” BUCHAREST
DOCTORAL SCHOOL
DOMAINE MEDICINE**



**The importance of screening implementing prophylactic
policies in obstetrical and gynecological pathology**

**HABILITATION THESIS
SUMMARY**

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Summary

The Habilitation Thesis entitled "**The importance of screening implementing prophylactic policies in obstetrical and gynecological pathology**" is structured in three sections, respecting the recommendations of CNATDCU Romania and national laws.

Section I presents the essence of academic, scientific, and research activity, detailing chronologically the stages of my medical and teaching career, along with the most important publications. It also registers research grants obtained through competition, monographs, scientific articles published in national and international journals and awards. In terms of clinical activity, affiliations to specialized scientific societies are also included.

I graduated from the Faculty of General Medicine within the University of Medicine and Pharmacy Târgu Mureș, class of 2003. Following the National Residency Competition in November 2003, I obtained a position as a resident doctor in the specialty of Obstetrics-Gynecology, training that I carried out in the Obstetrics and Gynecology Clinic of the Elias Bucharest University Emergency Hospital. In 2008 I obtained the title of Obstetrics and Gynecology specialist, and in 2013 I became a consultant in Obstetrics and Gynecology.

My teaching career began in 2009 as an Assistant Professor in the Obstetrics-Gynecology Clinic, Elias University Emergency Hospital, within the Faculty of Medicine of the University of Medicine and Pharmacy "Carol Davila" Bucharest. Since October 2012, I worked in the Discipline of Obstetrics and Gynecology, within the Midwifery and Nursing Faculty, where I promoted through competition as Lecturer in January 2017 and Associate Professor in March 2020.

Throughout my entire medical career, I have permanently sought to improve and expand my expertise by attending training courses and obtaining multiple consequential certificates of complementary studies. I mention here the following: Obstetric and Gynecological Ultrasonography, Laparoscopic Gynecological Surgery, Hysteroscopy, Uro-Gynecology.

From the debut of my medical activity and until now, I have attended numerous national and international congresses, both invited speaker and participant, with oral presentations or posters, some of them award-winning. I am a member of multiple national and international professional, scientific societies.

The Ph.D. thesis entitled "Fetal testing integrated into the intrauterine growth restriction" was coordinated by Professor Radu Vlădăreanu, and it was sustained in a

public meeting in 2013 at the Doctoral School of the University of Medicine and Pharmacy "Carol Davila" in Bucharest. This moment represented the successful completion of the first stage (2009 - 2013) of assiduous research and sustained documentation. These working tools were subsequently cultivated and continuously improved to obtain actual medical field results, which facilitated their publication in ISI-rated journals with impact factor, both national and international.

The doctoral thesis's central subject is still actual today, so part of the subsequent publications analyzed the therapeutic and preventive aspects of Intrauterine Growth Restriction.

My research activity is highlighted by the publication of 32 indexed articles Clarivate - Web of Science, with impact factor and 26 articles Clarivate - Web of Science, without impact factor, published in extenso. I also mention 48 articles in extenso in international and national journals indexed in international databases and 61 abstracts published in papers of the leading international specialized conferences and summaries of papers presented at international specialized conferences. I participated as a member in 2 research grants and 24 national and international clinical trials (principal investigator or sub-investigator). I also worked as a Reviewer for national and international journals, which can be accessed by visiting the profile created on the Publons platform (<https://publons.com/researcher/3608019/aida-petca/peer-review/>).

My academic career was completed, especially in the postdoctoral period, by the editorial activity, which includes the publication of 1 treatise as co-author and three monographs as author or co-author. Among them, the monograph "Presentations of clinical cases of obstetrical pathology - for exams and competitions" was found to be particularly useful for young colleagues beginning in obstetric careers.

The second section presents the directions for developing the academic career and scientific research, having as a starting point the studies carried out, and the research projects already ended or still in progress.

To successfully pursue a teaching, research, and medical career, I will have in the foreground, as before, the observance of the principles and norms of professional ethics and deontology, fundamental values such: academic freedom, personal autonomy, equal opportunities, merit, justice and fairness, professionalism, honesty and intellectual fairness, transparency, respect and tolerance and last but not least, responsibility.

A professional career becomes successful if teamwork is promoted: the team of the academic staff, the team of academic members - students, the team of academic members -

residents, the team of academic members - medical staff. Respect for competence and professionalism in medical, research, and teaching activities must be present in all conditions, even in particular situations, as we are currently going through in the pandemic's circumstances with the new SARS-Cov2 coronavirus.

Based on the experience gained so far, I propose the following specific research objectives:

1. Implementing the urine test with Congo Red in pregnant women with pregnancy-induced hypertension in the early diagnosis of preeclampsia.
2. Testing the efficacy of medical preparations containing α -lipoic acid in pregnant women at high risk of PE at the first-trimester screening in pregnancy.
3. A prospective study of the prevalence and bacterial sensitivity of Streptococcus group B strains isolated from the vaginal specimen in an unselected pregnant woman population.

The academic and scientific activity carried out so far is a good foundation for future development directions. The maturity in research that I obtained by building this publication portfolio will be the foundation of my evolution and contribute significantly to future projects' success, which will be carried out at the University of Medicine and Pharmacy "Carol Davila." I hope that I will make a modest contribution to a better national and international positioning of the university in this way.

The third section contains the studied bibliographic references that contributed to the elaboration and support of this paper.