

**"CAROL DAVILA" UNIVERSITY OF MEDICINE AND  
PHARMACY**

**FACULTY OF MEDICINE**

# **HABILITATION THESIS**

**RESEARCH IN POSTNATAL GYNECOLOGICAL  
PATHOLOGY**

**Abstract**

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The habilitation thesis entitled " **Research in postnatal gynecological pathology** " is divided into three sections, according to the recommendations of CNADTCU Romania and national legislation.

*First section* includes the synthesis of the academic, scientific and research activity, including the chronological stages of my career, along with the most important publications - books, treaties or monographs, research grants obtained through competition as a director or member of the research team, and scientific articles published or scientific prizes obtained.

*The second section* is dedicated to the directions of academic career and scientific research development, based on one hand on my academic, scientific and professional experience, and on the other hand on the opportunities provided by the collaboration with prestigious centers and clinics in the field of obstetrics, gynaecology, perinatal medicine and gynecologic surgery.

*The third section* includes the most recent and important references studied thoroughly for preparing and presenting this paper.

In the first section I present my professional activity: I graduated "Carol Davila" Faculty of Medicine and Pharmacy Bucharest in 2002. The professional development includes the passing of the stages of resident in Obstetrics and Gynaecology (2003), physician in Obstetrics and Gynaecology (2008) and senior physician in Obstetrics and Gynaecology (since 2013). The teaching and research career begins in 2007 as a research assistant at Caritas Clinic Hospital "Academician Nicolae Cajal", then Senior Lecturer in Obstetrics and Gynaecology (2014) and Associate Professor in 2017. Continuing medical education includes permanent training by acquiring the following diplomas of complementary studies: Obstetrical and Gynecological Ultrasonography, Colposcopy, Hysteroscopy, Gynecological Laparoscopic Surgery, Maternal-Fetal Medicine, Couple Infertility and Assisted Human Reproductive Techniques and Health Services Management.

Throughout my career, I have been permanently involved in numerous national and international congresses, both as participant and as invited speaker, with oral presentations or posters, some of which have been awarded. I am also a member of several national and international professional scientific societies.

My PhD thesis has been presented in October 2011 at "Carol Davila" University of Medicine and Pharmacy in Bucharest, Romania, having as scientific coordinator Professor Dimitrie Nanu MD, PhD. The thesis is entitled "The consequences of C-section on the quality of mother's and child's life". In the period 2007-2011 I have conducted intensive clinical and research work for the elaboration of the doctoral thesis. I believe that the clinical and research experience accumulated during the doctoral period and presented in the doctoral thesis represents important contributions for the physicians in the field.

My research activity is highlighted by the publication of 38 articles indexed by ISI Web of Science, 44 articles indexed by BDI, 50 papers in ISI indexed summaries, 86 papers or scientific contributions (abstract published in ISSN / ISBN journals) as well as participating in 5 research grants (1 as a director, 1 as a responsible grant and 3 as a member of the research team).

Throughout my academic career, in general and in the post-doctoral stage, my editorial activity is supported by the publication of 6 books as coordinator, author or co-author. The most important of these is "News in Obstetrics, Gynecology and Neonatology" and I have been the coordinating editor of this book. I also consider important my contribution to the "Caesarean section" Guide in the series "Clinical Guides for Obstetrics and Gynecology".

In the second section are presented the directions of development of the academic career and scientific research, having as starting point the studies and the grants obtained through competition in obstetrics and gynecological field.

I am the director of the research project "Accuracy of preoperative assessment of deep endometriosis infiltration of the intestine by computed tomography based virtual colonoscopy vs. magnetic resonance imaging and

endorectal ultrasound: a prospective comparative study" - a grant obtained through competition at the UMF Research Department "Carol Davila" University of Medicine and Pharmacy, Internal grants, in partnership with Rouen University France, grant that allowed me to accumulate new knowledge about the controversial endometriosis pathology.

This project is carried out concurrently with the research grant obtained through UEFISCDI - PCCA 2013 - partnerships in priority domains, the project entitled " Identification of the Cellular and Molecular Profile of Endometriosis as a Means to Develop New Individualized Therapeutic Procedures and with Predictive Role for Infertility", me being responsible for the project in the second partnership. The project proposes to make a number of original contributions to the pathogenesis and treatment of endometriosis. Considering that endometriosis is a chronic, evolutionary disease, in this project we aimed to develop therapeutic protocols according to the identified molecular and immunohistochemical markers.

The research grant entitled "NK-CD56 BRIGHT, NK-CD56 DIM cellular subpopulations and tetraspanin family glycoproteins: immunomodulators involved in tumor invasion and metastasis (NKSPAN)" together with Victor Babes Institute and "Fundeni" Oncological Institute, was the project who placed my foundation in the field of research. As part of this project, I was a member of the research team partner 2, which is a grant awarded based on competition, UEFISCDI, 2007.

Between March and December 2015, I actively participated as a member of the target group within the project "Improving the quality of life of children with cardiovascular malformations and specialized medical training of pediatric medical staff". The courses organized in this project for obstetrics-gynecology and neonatology physicians had the objective to present the prenatal diagnostics of cardiovascular malformations (MCC), as well as to recommend guidelines regarding maternal diagnosed MCC genetic counseling, prognosis and postnatal

behavior. The ultimate goal of the project was to develop a "Prenatal and Postnatal Diagnostic Guide to Cardiovascular Malformations".

Future academic professional activity will focus on training young doctors by orientation towards personal development through new knowledge, skills and research. I propose to promote student-centered teaching methods by interactively involving them in the learning process, thus providing a two-way flow of information with student access to scientific language and supporting understanding through convincing explanations and practical demonstrations.

PhD students will represent one of the ways to disseminate the results obtained from research, in scientific meetings on one hand, and in full text ISI Web of Science indexed articles, on the other hand.

Based on my teaching and scientific experience, I will be able to realize, consolidate and develop these desiderata, contributing to the shaping of my academic personality. Last but not least, honoring the institution in which I have been formed and I have been working without interruption, I believe it will be considered that my goal is to increase his academic prestige and add value to his graduates.

The third section includes the most recent and important references studied thoroughly for preparing and presenting this paper.