

**UNIVERSITATEA DE MEDICINĂ ȘI FARMACIE
“CAROL DAVILA” BUCUREȘTI
ȘCOALA DOCTORALĂ
DOMENIUL MEDICINA**

TEZĂ DE ABILITARE

CANDIDAT:

Șerban Dragoș, Conferențiar Universitar, Universitatea de Medicină și Farmacie
“Carol Davila” București

ANUL

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**Interdisciplinaritatea – factor de adaptare dinamică a
calității actului chirurgical și a exigențelor cercetării
medicale la noile rigori academice și clinice**

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**Interdisciplinarity - a factor of dynamic adaptation of the
quality of the surgical act and of the exigencies of the
medical research to the new academic and clinical rigors**

REZUMATUL TEZEI DE ABILITARE

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ABSTRACT

The habilitation thesis entitled "**Interdisciplinarity - a factor of dynamic adaptation of the quality of surgery act and medical research requirements to new academic and clinical rigors**" presents the entire activity of the candidate, Assoc. Prof. Dr. Dragos Serban, including all scientific, academic and professional achievements, as well as future plans for the evolution and development of the academic career, including current projects and future research topics.

The Introduction presents significant aspects related to educational training, both medical-surgical and other courses (National Defense College - Specialization in National Security and Defense Management, two-year master's degree from "George Washington" Business School Seattle and the Romanian American Institute for Public Administration and Management - ASEBUSS and other management and health management courses), as well as landmarks of my professional and academic activity.

Chapter 1: "Scientific activity" presents in detail the results of my research activity in the post-doctoral period. The chapter includes several sections, being structured according to the main directions of my scientific research. One of my constant themes of research was the postbulbar duodenal ulcer, where the role of surgery still remains extremely important - this topic being both the central theme of the doctoral thesis and the subject of a later published monography, but also the management of non-variceal upper gastrointestinal bleeding and the significance H. pylori infection as a risk factor for bleeding. In my scientific activity, colorectal cancer has been a permanent concern of study, justified by the fact that it is the major health problem of the population in our country, as well as the important number of cases treated in the clinic where I am working. This research direction has materialized through numerous presentations at national and international congresses, 4 papers in ISI-indexed journals with impact factor, one of which awarded in the UEFISCDI competition awarding research results in 2020, but also participation in 2 research grants won by competition, with multidisciplinary collaboration. The main directions of research were identifying and combating preventable risk factors for colorectal cancers (the role of microbiota and diet), surgical and histopathological features of colorectal cancers in the elderly, as well as in synchronous colorectal cancers, biological and immunohistochemical markers for individualized treatment in colorectal neoplasms. I am the author (together with my colleague Dr. C. Branescu) of 2 patents registered at OSIM with application in the upper digestive stenotic pathology: "Esophageal dilator for retrograde transcatheter approach" (Patent No. 122988/2007)

and “Esophageal brush ” (Patent No. 123108/2007). An important research direction was the study of biomarkers with a predictive role in acute intraperitoneal inflammation, especially in acute appendicitis, materializing in papers published in ISI and BDI journals, which enjoyed a large number of citations, demonstrating the topicality and rigor of the research performed. I have been constantly concerned with improving of the therapeutic protocols in surgical emergencies, whether it is the pathology of the abdominal injuries, the medical-surgical response to natural disasters caused by earthquakes, or adapting new surgical protocols in emergency during the COVID-19 pandemic (“Laparoscopic Surgery in COVID-19 Era—Safety and Ethical Issues” UEFISCDI award-winning paper, PN-III-P1-1.1-PRECISI-2020-51330, published in the ISI listed magazine, red zone). Another direction of the research is related to the minimal invasive approach in biliopancreatic surgery, showing, among other themes, the good results of laparoscopic cholecystectomy in elderly. The surgical aspects in the diabetic patient are one of my current concerns, both in terms of risk factors and therapeutic advances in diabetic foot, and in terms of the peculiarities of response to infectious factor and surgical aggression, and the interrelationship of the metabolic syndrome - microbiota - local changes in the colic wall. Breast cancer has been a permanent concern in my scientific activity, participating in 3 clinical trials related to cancer therapy in advanced breast cancer, 2 educational projects (as project director) in order to raise awareness among young people about risk factors and ways of early screening and diagnosis, as well as a series of presentations and papers published in specialized journals. Another direction of study, given the new paradigm shifts in the health system, was related to forensic issues in clinical practice: ethical issues in clinical trials, the importance of organizational implementation of medical error reporting and patient safety culture, the role of informed consent in the doctor-patient relationship, the medical-surgical responsibility and the appropriate choice of patients who are suitable for surgical treatment in a day hospital system.

Chapter 2 details the entire academic activity from the beginning to the present, bringing to the fore personal contributions in this regard. My teaching career began in 1999 as an Assistant Professor in the 4th Surgery Clinic, Faculty of Medicine, “Carol Davila” University of Medicine and Pharmacy Bucharest. Since February 2007 I have been promoted by competition as lecturer, and since October 2017 associate professor by competition within the same discipline. During the last 21 years of member of the University of Medicine and Pharmacy "Carol Davila" Bucharest, I was constantly concerned with improving teaching materials and methods, actively participating

in the development of course and practical work manuals in the clinic, and then in the Department 10 General Surgery. During my administrative and managerial activities, I was sincerely considering that hospitals should be run by those who look after the interests of the patient and Romanian medical education. This is also the reason why I permanently carried out activities in favor of education in the positions I held, in the health system, stimulating university research, simplifying as hospital manager the obtaining of the approvals for clinical studies conducted by academic staff, supporting them publishing their conclusions and in particular to stimulate the development of medical education in good conditions and the access of students and residents to the widest and most accurate information possible.

Chapter 3 illustrates the professional activity and details each stage of evolution. It presents all the stages of personal training, courses and master's degrees graduated and presents my experience in the professional field.

Chapter 4 presents the main directions for future academic and scientific development, based on the activity carried out so far but with the potential for international collaboration. The objectives formulated in this academic career development plan involve a permanent collaboration with colleagues from the clinic and the department, as well as with colleagues from other surgical clinics in the country and abroad. I plan to promote the involvement of the discipline in new studies, projects and clinical analysis-reviews by co-opting in the research team of my colleagues – specialists and residents in general surgery. In my work, as before, a key element will be communication, teamwork, respect for all members of the academic community, responsibility in achieving the proposed objectives, collegiality and transparency in decision making, respecting the tradition of our medical school.

The academic and scientific activity carried out so far is a good foundation for further development plans. The maturity in research that I have achieved, materialized through 69 articles published in specialized journals, of which 24 in journals with impact factor, included in Web of Science, 92 presentations at national and international conferences, 16 books and chapters in specialized books, as well as 2 patents registered at OSIM, represent a solid basis for my future evolution, contributing to increasing the visibility of the "Carol Davila" University of Medicine and Pharmacy Bucharest, of which I am part.