



HABILITATION THESIS

- ABSTRACT -

*Optimizing Diagnostic and Therapeutic
Management in Inflammatory Pathology of the
Pancreas*

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2017

ABSTRACT

The empowerment thesis entitled "*Optimizing Diagnostic and Therapeutic Management in Inflammatory Pathology of the Pancreas*", drafted and structured according to the indicative criteria issued by CNATDCU, presents my professional achievements regarding the didactic activity, as well as the scientific contributions that marked my personal career, after the dissertation of my PhD thesis, entitled "Particular Aspects in the Diagnosis, Evolution and Treatment of Rare Forms of Breast Cancer".

The present paper covers the main results obtained from the research undertaken in the field, the inflammatory pathology of the pancreas, published in ISI quoted journals and research projects in which I have been involved after supporting the doctoral thesis until now.

The thesis is structured on three sections. Section I presents a description of professional, scientific, and academic achievements throughout the career to date. Section II presents the career development plan, both in the didactic and research area. Section III lists the bibliographic references associated with the first two sections.

In Section I, the main events that marked my didactic and professional activity during the over 35-year career in General Surgery are brought to the fore. From the professional point of view, I performed complex surgery - the cephalic duodenopancreatectomy, total pancreatectomy, central pancreatectomy, emergency cephalic duodenopancreatectomy. In 1993, I performed the first laparoscopic cholecystectomy in Bucharest and I participated in the initiation of laparoscopic surgery technique in Emergency University Hospital Bucharest.

Chapter two of Section I presents the academic work undertaken so far. It is centered on university education, being represented by lectures for students in the 4th and 5th years at the Faculty of Medicine of the University of Medicine and Pharmacy "Carol Davila". To support the didactic activity, we published, in

collaboration with the clinic and then the department 10, nine specialized papers for students, being the author and coauthor of 36 chapters (all written after supporting the doctoral thesis). At the same time, however, I was actively involved as a Course Director in postgraduate education, participating in the organization of 4 international workshops, focusing on gastrointestinal emergencies.

Chapter 3 of Section I presents the research work carried out since 1994 (the moment of the doctoral dissertation) until the current period, which has achieved two major topics, chronic and acute pancreatitis, with particular reference to severe acute pancreatitis. The results obtained were published in several papers in ISI or BDI journals, monographs and research projects. In Section 3.4 of Section I, dedicated to the chronic pancreatitis, particular aspects of this pathology are presented (subchapter 3.4.2 - Pancreas Divisum and subchapter 3.4.3 - Pancreatic Ascites) and a synthesis of surgical treatment of chronic pancreatitis (subchapter 3.4.1) in an ISI article ("The surgical treatment of chronic pancreatitis: a clinical series of 17 cases").

Chapter 3.5 reviews the main original publications related to research into severe acute pancreatitis. Of these, I highlight subchapters "Complications of severe pancreatitis" (subchapter 3.5.5) and "Surgical Treatment Indications in Severe Acute Pancreatitis" (subchapter 3.5.1), contained in the monograph "Severe Acute pancreatitis". Phenotypic and molecular aspects related to the factors of virulence and antibiotic resistance in isolated bacterial strains in cases of infected pancreatic necrosis were studied during the national grant entitled: "Interdisciplinary researches on solving new aspects of antibiotic resistance with major implications in cardiovascular and gastroenterological surgical pathology". This research project has been finalized with several ISI journals, among which I want to recall the articles titled "Spectrum, antibiotic susceptibility and virulence factors of bacterial infections complicating severe acute pancreatitis" (subchapter

354) and "Bacteriological aspects implicated in abdominal surgical emergencies "(subchapter 353).

In the context of pancreatic pathology, I also highlight complex surgical procedures, namely emergency cephalic duodenopancreatectomy, presented in an ISI quoted article entitled "Emergency pancreatoduodenectomy for severe iatrogenic duodenal injury - case report" (chapter 3.6).

Section II presents future directions for academic career development. The objectives of my career development plan are to support previous scientific achievements and rely on my medical, didactic and scientific research experience. The goal is to provide high quality medical education and vigorous scientific development.

A first objective is to update and continuously develop the educational offer. At the same time, I propose an increase in the quality of lecture presentations by upgrading the presentations methodology. The overall objective of the research development plan is to continue and deepen the major research directions in which we have already achieved results, the neoplastic breast pathology and the inflammatory pathology of the pancreas.

In the future I propose several research directions in the field of severe acute pancreatitis, namely optimizing the surgical treatment of severe pancreatitis, by elaborating a surgical treatment guide with more precise indications, choosing the optimal timing for surgery and the criteria for using different surgical techniques. This is an important objective of future research and I intend to extend this type of studies and diversify the approaches in order to achieve maximal results. The research activities carried out will be used to increase national and international visibility of our Department. To increase the prestige and institutional competitiveness of the university, the main objective is to publish articles in the best-rated journals and to develop specialized monographs in the field.

Section III contains 284 bibliographic titles used to write scientific papers from Section I, localized with indices in the text.