

Abstract – Habilitation Thesis

Multi modal approach in surgical practice

Along this habilitation thesis, the author aims to present his personal achievements, performed after defending the MD dissertation, briefly presenting the scientific, professional and academic results, in the context of the current stage of the scientific research in the field of general surgery, highlighting with arguments and documents the candidate's relevance, visibility, originality and scientific independence.

The thesis is drafted and structured in three sections according to CNATDCU, emphasizing in particular the quality of the plan for the own professional, scientific and academic career progress and development, and highlighting clear elements of novelty at national and international levels which would allow the establishment of a surgical school of elite with multidisciplinary potential at the level of the Arad academic centre.

1. Professional activity has started ever since the student years, graduating one of the most prestigious faculties of medicine of Romania – The Victor Babes University of Medicine and Pharmacy of Timisoara in 1985. In 1992, during the residency time, I have won in competition the assistant professor position, and then took all the steps of the teaching career, until I have become professor in 2015. I have become specialist physician in general surgery in 1994 and specialist surgeon in 1998. As I have carried on my activity in clinic with long tradition in the field of vascular surgery, “Academician Pius Branzeu”, I have started my MD thesis in 1996 under the title “Reconstruction with Venous Graft of the Lesions of the Main Biliary Tract” which I defended in 1999. The year after obtaining the title of doctor in medicine, as a corollary of the doctoral thesis, I have published the monograph “Reparatory Surgery of the Main Biliary Tract”. My professional activity is supplemented with Overspecialization in vascular surgery and microsurgery 1996, Overspecialization in laparoscopic advanced gastric surgery 2003, Competency in laparoscopic surgery 2007, Certificate of additional studies in the management of the healthcare services 2009.

Professionally, I also has as topics of interest, with constant attention paid by me and the clinic I am running: vascular point surgery at patients in

haemodialysis program, the arterial surgery at the level of the infrarenal abdominal aorta, the hepatic-biliary-pancreatic surgery which I have approached thanks to the accumulated knowledge in vascular surgery, in laparoscopic surgery, in particular the bariatric one, and the surgical solving of neoplasia.

Gathering the specified professional experience allowed me to become head of clinic at the Clinical Emergency Hospital of Arad County, in 2007. Since then, besides the surgical activity, I have involved myself constantly and perseveringly in an extremely intense managerial activity, both as head of department and as general manager of the Clinical Emergency Hospital of the Arad County (2009-2011).

2. Scientific activity began with my doctoral thesis which aimed to capitalise an absolutely innovating idea, both at national and international levels. We have tried to prove the large versatility of the autologous venous graft when used in the reconstructions of the main biliary tract. In the same time, the use of the tissue adhesives represented a novelty, at least at national level, while it was at its beginnings at international level.

Together with my team, we have got involved in the research activity by approaching some topics from the oncological and hepatic-biliary-pancreatic areas which were at the grounds of my collaborators' doctoral topics. The propagation of these results concretised in the publication of papers in nationally and internationally recognised journals and publications, out of which 11 I.S.I papers with a HIRSCH score of 5, and also numerous papers B.D.I.

The teamwork also involved me as partner (researcher) in several national and international grants and I have accessed more projects funded from European money. I have been project manager both in national, and cross-border funded projects. Among these, two have major impact at the level of the Clinical Emergency Hospital of the Arad County, drawing in European funding of more than 9 million Euros.

During the last years, I have edited two surgical treatises: in 2012 – “Notions of Surgical Pathology in Children”, and in 2014 “Treaty of Surgical Semiology”.

3. Development of the academic and research activity

I shall begin with the statement of the principles which lied at the grounds for drafting the personal development plan, as well as the general objectives in building the teaching career.

The academic training must be continuous/ longitudinal/ multi-phasic and to lead by successive approximations and by educational orientation to a leader position.

The academic vitality depends on the faculty members' interest and level of expertise, the academic development playing a major role in promoting the academic excellence and innovation.

Consequently, the approach of practical-educational, formative-informational type, in multifactorial concept, rendering the possibility for optimal integration of the medical information, of the human factor and of the conduct of good practice ennobles the concept of the own professional accomplishment in the academic field.

The general objectives in building the teaching career are to be the following:

- Further development in the basic field (general surgery) and not only, by participating/ creating some training coursed for the experts, derived from the implementation of some research projects with the help of the capitalisation of some governmental or European funds.
- Acquiring new techniques and methods in the clinical and teaching activity which to lead to the increase of the quality of the teaching act by orientating ourselves on modern coordinates of the learning process and by judicious use of the existing material assets.
- Adjustment, structuring and harmonization of the theoretical and practical notions in the field of general surgery with the national and international standards, and also depending on the cultural and language particularities, aspect which can be needed for the foreign PhD candidates so that they benefit both of a good professional training and of an easy and optimal inclusion in the future activity.

As for the activity of research, all approached directions are to rely on complex strategies of research and they are to be directed toward the participation in competitions for research projects, grants.

In order to develop ourselves on European coordinate and, not lately, to development in the way of an integrative scientific research, I consider to set up a multidisciplinary team which to contribute to the increase if the studied topics impact, by establishing partnerships with national and international research centres, having as final purpose the achievement of more effective and efficient scientific screenings.

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