

Rezumat în limba engleză

The habilitation thesis entitled "Contributions and Developments in the Application of Modern Technologies in Rhinopharyngolaryngology Surgery" summarizes the results of the professional, scientific and didactic activity obtained by the author up to this point.

The thesis complies with the requirements formulated by the Order of the Minister of National Education and Scientific Research no. 6129/2016 for obtaining the quality of doctoral supervisor and the habilitation certificate and meets the minimum and mandatory standards.

The first chapter, according to the requirements, is represented by the summary of the thesis in both Romanian and English, and the last chapter contains the bibliographical references used.

The second chapter of the work presents the scientific activity carried out up to the present moment and highlights the original achievements included in the didactic and research activity. Articles published in ISI indexed journals with or without impact factor, in BDI indexed journals, chapters published in volumes with ISBN or ISSN, continuing medical education and surgical training projects, and evidence of recognition of the impact of scientific activity are analyzed.

The third chapter of the thesis refers to the field of interest addressed, namely the application of modern technologies in the specialty of otolaryngology. It consists of a summary of current data from the literature regarding the indications, limitations and advantages of using three of the leading technologies, namely coblation, CO2 laser and radiofrequency. Personal achievements in this field are also presented, including the research carried out and the interest in this field since the beginning of the ENT training. In addition to presenting relevant data regarding the mentioned technologies along with relevant photodocumentation from medical practice, the steps taken to continue this research direction are emphasized.

The exponential development in the technological field in recent decades has changed many norms in surgery in general and in the field of otolaryngology in particular. These advances have made it possible to modify the surgical approach in many instances. The first step was represented by the transition to minimally invasive options, with rapid recovery, more prompt reintegration of the patient into daily activities, lower pain scores and significantly superior functional and aesthetic results. The usefulness of these technologies in the field of oncological surgery has also been important, allowing the surgical cure of cases previously considered inoperable. Subsequently, the technological revolution was the basis of the

correlation between an approach that ensures oncological cure, but also ensures good functional results, with the preservation of the organ and function when possible or with complex reconstructions that allow a degree of functional recovery.

We have presented with particular attention both the advantages offered by these technologies and their most frequent uses in the ENT field, as well as the associated limitations. A good knowledge of all these elements is essential in establishing a personalized management plan for each patient. Since there is no clearly superior method in any intervention and for any pathology, the decision must be made for each case, based on in-depth and complex investigations, multidisciplinary consultations when necessary and last but not least the surgeon's experience. These decisions are based on a good knowledge of the basic principles, both in terms of treatment guidelines and in terms of the functioning and use of the diagnostic and surgical technologies used. Only by combining these elements with the learning process and accumulation of experience can we achieve optimal results.

Through the fourth chapter of the habilitation thesis, I presented the results of my teaching career to date, including the writing of teaching materials, responsibilities regarding the work with students and resident physicians, participation in national and international scientific events, involvement in the organization of continuing medical education projects, participation in examination committees and registration in national and international organizations.

The next chapter, the fifth, describes the professional activity and surgical achievements in the specialty of ENT and Head and Neck Surgery within the "Professor Dr. Dorin Hociotă" Institute of Phonoaudiology and Functional Surgery, clinical base of the "Carol Davila" University of Medicine.

In the sixth chapter, I presented the personal objectives to be achieved in the future, that were detailed in the three main directions that define the development of the career in the chosen field, namely the teaching activity, the scientific and research activity and the professional activity. The evolution of these three fields is a parallel and interconnected one, they practically mutually enhance each other during the academic career.

The last chapter contains the bibliographical references used in writing the thesis, according to the requirements.