

**"VICTOR BABEȘ" UNIVERSITY OF
MEDICINE AND PHARMACY TIMIȘOARA
DOCTORAL SCHOOL
DENTAL MEDICINE DOMAIN**



**CHALLENGES OF EDUCATION AND MEDICAL
RESEARCH IN ORO-MAXILLO-FACIAL SURGERY**

ABSTRACT

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**Timișoara
2021**

SUMMARY

I developed the habilitation thesis titled "Challenges of Medical Education and Research in oro-maxillo-facial Surgery". According to the CNATDCU recommendations, the habilitation thesis is structured on several sections.

In the first section, I presented the scientific activity. In the year 1994 I obtained the title of Doctor in Medical Sciences, by supporting the doctoral thesis entitled "Contributions to the Clinical-Statistical Facial Skin Cancer Study" - Scientific coordinator, Prof. Dr. Emanoil Popa.

In the year 2001 I was a member of the CNCSIS Grant team no.1/2001 BCUM - CENTER FOR PROSTHESIS MODELING AND SURGERY INTERVENTIONS ON THE HUMAN SKELETON, CM-PICUS initiated by the Polytechnic University of Timisoara, in partnership with University of Medicine and Pharmacy Timisoara.

During 2010-2011, I have coordinated the project DEVELOPMENT OF MEDICAL AND RESEARCH INFRASTRUCTURE OF THE MUNICIPAL EMERGENCY CLINICAL HOSPITAL OF TIMIȘOARA THROUGH THE "REHABILITATION, UPGRADING, DEVELOPMENT AND EQUIPPING OF THE AMBULATORY OF THE CRANIO-MAXILO-FACIAL SURGERY CLINIC OF THE MUNICIPAL EMERGENCY CLINICAL HOSPITAL OF TIMIȘOARA". Throughout the monitoring of this project (2011-2016) I initiated the "Program for monitoring and controlling the oral health of the population in Timișoara".

In the period 2020-2022, takes place the RO-HU cross-border medical and scientific project "Improving health care services through innovative RO-HU surgical ideas", which I coordinate in the maxillofacial surgery section, in partnership with the University of Szeged.

Scientific concerns have been materialized in published scientific papers, oral scientific papers, posters, courses for students and monographs in the fields of: oro-maxillo-facial infections, oro-maxillo-facial tumors, oro-maxillo-facial plastic surgery, facial prosthesis technology, etc. Until now, I published ISI-listed and BDI-listed scientific papers as author and co-author. I have also held conferences and oral scientific papers (abstract published) at various internal and international congresses, conferences, symposiums.

I was the organizer and co-organizer of professional and scientific events (congresses, symposiums, courses, awards of honorary titles).

Throughout the years, I have had many scientific collaborations, both in University of Medicine and Pharmacy "V. Babeș" and outside. I will briefly present in the summary some of the obtained scientific results.

Researches in the field of oro-maxillo-facial anatomy and morphology have been closely linked to the „Program for monitoring and controlling the oral health of the population in Timișoara”. During 5 years of activity, patients (children, adults, elderly) were examined to assess oral health status. The rich clinical material accumulated during these examinations (performed inside the Maxillo-facial Surgery Clinic, as well as in schools, preschools units) allowed a scientific and statistical systematization. These activities resulted in two scientific papers published in journals, in Romania and Great Britain.

In the field of dento-alveolar pathology, we published the study „Inflammatory Markers from Crevicular Fluid in Periodontal Disease”. Carried out with a team from the medical biochemistry discipline, the aim of this study was to identify the local changes of the inflammatory and immune markers, in the gingival crevicular fluid (GCF), as an expression of the inflammatory response in periodontitis and gingivitis.

Infectious pathology was one of my main concerns in the surgical, didactic, scientific work. The first monographs I wrote were from this area: “Oro-maxillo-facial infectious pathology”. „Clinical study of cervico-thoracic necrotic fasciitis” presents a review of international literature on a rare and serious condition of the cervico-facial territory, necrosis fasciitis, and our experience of treating with such a case.

The multitude of tumors encountered in our patients has been a rich material of analysis. We have had scientific collaborations with both biochemistry, anatomic pathology laboratories, and colleagues in other specialties (ENT, oral rehabilitation) from UMF „V. Babeş” University. The accomplishment of these studies in medical and scientific teams, allowed us to obtain scientific papers, oral presentations and conferences, specialized books.

Researches in the field of oro-maxillo-facial prostheses technology were an important part of my scientific activity. The beginning of scientific concerns in this field coincided with the participation as member in the two scientific projects within the Politehnic Institute „Traian Vuia” Timișoara. Later, I consider to be essential my work for about 22 years with the „College of dental technicians” students in the discipline of „Epithesis Technology and immobilization devices”. Throughout this period I have deepened this difficult problem of facial prostheses technology, mainly due to the limits of scientific documentation, with few scientific papers and books. The work in this field was materialized by scientific papers, oral presentations and conferences, students courses.

The researches in oro-maxillo-facial radiology and medical imaging have focused on original studies on the following: the study of the effectiveness of conventional radiographic methods in various types of pathology; new and advanced mathematical methods for analyzing anatomical elements viewed on panoramic radiographs; theoretical, practical aspects and relevant studies on the CBCT investigation in various maxillo-facial pathologies.

As didactic activity, in 1990, I became Lecturer at the Department of Maxillo-facial Surgery at the Faculty of Dentistry. In 1996, I was promoted Senior Lecturer, and in 2002 I was promoted Associate Professor at the Discipline of Maxillo-facial Surgery. The didactic activity I did at the Faculty of Dental Medicine, University of Medicine and Pharmacy "V. Babeş" Timișoara, where I have been working since 1990.

I further present my medical career.

The next section presents the proposals for the development of my medical, teaching and research career.

In order to improve my scientific visibility, I want to carry out scientific studies and collaborations, which should be materialized through publications in ISI and BDI-listed journals.

For PhD students, I would like to encourage them to seriously address the mission they are engaged in, in order to finalize their theses, to minimize the number of those who do not complete their commitments to the university.

On the didactic plan, I want to develop the current interactive teaching techniques, to elaborate teaching materials, with emphasis on the technical, practice training of the future doctors.

Through all these desires, from respect to the institution in which I was formed and where I worked without interruption since 1990 - University of Medicine and Pharmacy "V. Babeş" Timișoara, I will try to increase his academic prestige and give value to his graduates.

In the last section are presented the most important bibliographical references studied for the realization of this habilitation thesis and a list of the main publications.