

HABILITATION THESIS SUMMARY

This habilitation thesis brings together my most significant scientific, professional, educational, and managerial achievements obtained after the defense of my doctoral thesis entitled “Contributions to the Current Surgical Treatment of Thoraco-pleuro-pulmonary Tuberculosis and Atypical Pulmonary Mycobacterioses” (2008), conducted under the supervision of Professor Dr. Alexandru Mihail Boțianu and officially confirmed by the Order of the Minister of Education, Research and Youth no. 3439/12.03.2008, with the qualification “Very Good.” The postdoctoral period has been characterized by a continuous and complex professional development, combining clinical expertise, academic research, and educational innovation in the field of respiratory medicine.

At present, I hold the position of Associate Professor at the Department of Pulmonology, Faculty of Medicine, within the “George Emil Palade” University of Medicine, Pharmacy, Science, and Technology of Târgu Mureș, and that of Medical Director at the Mureș County Clinical Hospital. My professional trajectory has been consistently guided by the mission of advancing pulmonology as a modern and multidisciplinary specialty, through applied research, medical education, and community health initiatives focused on disease prevention and early detection.

The habilitation thesis is structured into three main sections. **Section I presents my scientific, professional, and academic contributions**, summarizing the results of my research and publishing activity over the last two decades. The main research directions include smoking prevention and health education, early detection and management of lung cancer, modern surgical approaches in thoraco-pulmonary tuberculosis, study of comorbidities in chronic obstructive pulmonary disease (COPD), diagnostic applications of thoracic ultrasound in pleuro-pulmonary pathology, and clinical sleep medicine. The results of this work have been disseminated through an extensive publication record: 275 scientific articles, including 26 papers indexed in ISI journals with impact factor, 27 papers indexed in international databases (BDI), and over 200 abstracts presented at national and international scientific events. In addition, I have authored or co-authored 11 books, 13 book

chapters, and 3 academic course guides, contributing significantly to the advancement of Romanian pulmonology literature. My involvement in research has also included participation as project director and research member in national and international grants focusing on smoking prevention, tuberculosis control, and improvement of respiratory health services. Among the most relevant projects are "Enhancing Medical Anti-Smoking Education among Medical Students at UMFST George Emil Palade Târgu Mureș" (2024) and the international grant "Building Capacity for Tobacco Research in Romania", both designed to support educational and preventive strategies in respiratory health.

Section II outlines my professional, clinical, and academic trajectory

After graduating from the Faculty of General Medicine at UMF Târgu Mureș (1996), I completed my residency and became a specialist and subsequently a senior pulmonologist. My professional qualifications include certifications in healthcare management, respiratory functional exploration, bronchoscopy, general ultrasonography, and sleep medicine (levels I and II). I also obtained an international postgraduate qualification, the *Postgraduate Certificate in Medical Education* from the University of Liverpool, which strengthened my expertise in academic and pedagogical methodology.

My university teaching career began in 2003 as an Assistant Professor at the Discipline of Pulmonology, evolving to Lecturer and, since 2025, Associate Professor. I am currently responsible for teaching courses in Pulmonology, Allergy and Clinical Immunology, and Tobaccology, both for Romanian and Hungarian lines of study. I have coordinated numerous undergraduate and postgraduate theses, participated in national residency and doctoral examination boards, and served as a reviewer for the journals *Acta Medica Marisiensis* and *Pneumologia*.

In the future, I aim to extend anti-smoking educational programs among medical students, to establish a Thoracic Ultrasound Center dedicated to residents and specialists, to strengthen interdisciplinary collaborations, and to promote the publication of joint scientific papers with

students and young researchers.. Furthermore, I aim to continue modernizing the teaching process by integrating advanced learning methodologies such as Case-Based Learning (CBL), Problem-Based Learning (PBL), and Objective Structured Clinical Examinations (OSCE).

Section III-Bibliography

Overall, this habilitation thesis reflects a consistent professional and scientific evolution dedicated to the advancement of pulmonology as both a clinical and educational discipline. The diversity of my research themes, my contributions to medical education, and my managerial experience within the healthcare system illustrate a mature academic profile capable of coordinating and developing complex interdisciplinary projects. The thesis represents the synthesis of a career committed to excellence, innovation, and the promotion of public health through research, education, and medical leadership.

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Associate Prof.dr.Ianoși Edith-Simona

