

ABSTRACT

My habilitation thesis, entitled: ***An epidemiological approach to communicable and non-communicable diseases for the benefit of scientific research***, represents a story of my entire academic, scientific and professional activity from the moment of obtaining the scientific title of Doctor of Medicine until now, respectively includes the plan for the future development of these activities.

The thesis is structured in 3 chapters; **The first chapter** gives an image of academic, scientific and professional activity.

Academic activity: After graduating from the Medical Faculties within the University of Medicine and Pharmacy Tîrgu Mureş (2003), I was co-opted into the Epidemiology team (2005). I successively followed the hierarchical stages of postgraduate education: university preparator (2007), university assistant (2009), lecturer (2014), until the present position of the associate professor (2017). Under the coordination of professor Sabău Monica, the doctoral thesis entitled “*Epidemiological surveillance and the impact of vaccine prevention on the evolution of measles in the counties of region 7 Center during 1996-2007*” is defended in 2011. I followed two masters: Biostatistics and Medical Informatics (2008), and the management of medical health services (2018). I carried out the tutoring activity, I coordinated a significant number of undergraduate and dissertation thesis, which denotes the quality of the teaching process and my direct involvement in the scientific activity.

In the whole didactic activity I was a *lecturer* for postgraduate training courses, member of the **organizing committees** of scientific events, I participated in numerous promotion commissions in university teaching degree, from the position of secretary to the position of chairman of the commission. I participated in the competition commissions of specialist / primary doctor, work position, member of the doctoral thesis guidance committee-various doctoral students, support before the guidance committee, member of the National Epidemiology Commission, member of the Romanian Society of Epidemiology.

In 2017, I took over the position of Head of Discipline - Epidemiology Discipline, assuming an important role in organizing the teaching activity of the Discipline. In 2018, we took over the activity of Resident Coordinator with the training of residents in the specialty such as: Epidemiology, Public Health and Management, Hygiene, Laboratory Medicine, Infectious Diseases, Clinical Microbiology. At the last elections of our university (2020), I was elected as **Department Director** within the M2 Department of Functional and Complementary Sciences within the Faculty of Medicine, which also created my position as a full member of the **Department Council** and in the **Council of the Faculty of Medicine**. I was also elected by ballot among the Candidates in the University Senate, being subsequently voted as a **member of the University Senate**. Within the Senate, they are part of the Quality Evaluation and Assurance Commission. For the last 4 years I have been a Member of the Commission for Evaluation and Quality Assurance of the Faculty of Medicine. I am also a

member of the editorial board of some ISI and BDI indexed journals-statistical evaluation of original articles: 1. Romanian Review of Laboratory Medicine (2012-present) 2. The Journal of Critical Care Medicine (2014-present).

Scientific activity: Published papers/articles: a number of 152 scientific papers published in extenso of which: 85 ISI articles with impact factor, 25 main author, 60 co-author; 6 ISI articles without impact factor, 3 main author; 58 B + articles (indexed BDI), author and co-author; 3 articles B. To these are added a number of **196 scientific papers communicated and / or published in summary** at national and international scientific events, of which 146 papers published in the country (8 abstracts published in ISI-listed journals) and 50 at events international (50 abstracts published in ISI-rated journals).

I was part of the following projects: **a) a postdoctoral fellowship; b) 2 project director grants won; c) 6 grants earned as a member;**

The research directions were mainly represented by the prevention and control of communicable and non-communicable diseases, surveillance of healthcare associated infections (IAAM), antibiotic use, as well as interdisciplinary research related to epidemiology.

Thus, the habilitation thesis was structured on the background of three research areas:

- **Study of HPV (Human Papilloma Virus) infections**
- **Study of healthcare associated infections and antibiotic use**
- **Interdisciplinary collaboration.**

Professional activity: after graduating, I followed an internship year (2004) at the Emergency County Clinical Hospital in Tîrgu Mureş. In 2004, following the residency exam, I became a resident doctor in the specialty of Epidemiology. The residency ended with the **specialist doctor** exam (2008). Since the fall of 2014, I have become a **primary care physician**. I have been working as an epidemiologist since 2009 at Nova Vita Hospital with a role in the clinical, organizational and administrative activity-prevention and control of IAAM. Since 2017 and until now I carry out my activity with ½ norm based on clinical integration, as a primary epidemiologist, at the Quality Management Service of the Medical Services within the County Emergency Clinical Hospital from Tîrgu Mureş. I have participated in numerous courses, workshops, seminars, training symposia, congresses and conferences.

The second chapter, the development of academic, scientific and professional career, identifies me with the promotion of student-centered education in tandem with the development of modern learning methods, further management with good organizational and administrative intentions of the discipline of Epidemiology as head of discipline and of the M2 Department from the position of Department Director. The development of the **scientific career** will be based on the participation in national and international specialized

events, the publication/dissemination of research results in the form of original articles in various scientific journals, as well as the collaboration and development of new methods and results in research projects. The development of **professional activity** includes, among others, continuous improvement in the medical field, respectively in epidemiology / public health / quality management of health services through regular participation in various forms of professional training, postgraduate courses, participation in national and international scientific events, or participation in multidisciplinary teams. beneficial to the exchange of information in the medical field.

The **last chapter** includes the bibliographic references of the habilitation thesis.