



**Universitatea
Transilvania
din Braşov**

HABILITATION THESIS

SUMMARY

**Title: The multidisciplinary approach of the urologic patient -
between therapeutic challenge and clinical research**

Domain: Medicine

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This habilitation thesis "The multidisciplinary approach of the urologic patient - between therapeutic challenge and clinical research" represents a summary of my scientific, professional and academic activities which I carried out in post-doctoral phase, after the PhD thesis presentation in 2006 – „Instillation treatment with BCG in superficial bladder tumors”, supported by the University of Medicine, Pharmacy, Science and Technology of Târgu Mureș” under the scientific coordination of Prof. Dr. med. Dorin Nicolescu and includes three sections, according to the CNATDCU recommendations and the provisions of art. 300 par. (2) of the National Education Law no. 1/2011.

The first section of the thesis briefly includes the main outcomes of academic, professional and research activities, closely related to the level of knowledge in the field including the chronological stages that I have pursued throughout my career, grants obtained through competition, affiliations to scientific societies and published scientific papers.

The first chapter presents the main directions of research, namely the necessity of the multidisciplinary approach of urological patient.

The first subchapter refers to oncological pathology, the main pathology which diagnosis and treatment involves many different physicians. The research that I have carried out in this field and the published papers support this hypothesis. Most of the published papers are focused on the surgical and oncological treatment that the current legislation allows us to provide for patients, without overcoming our competencies, referring to the need for a multidisciplinary approach of such pathology.

The second subchapter discusses a pathology disputed between the urologist and gynecologist: urinary incontinence. This represents a health problem with a significant impact on the quality of life for patients, and this subchapter addresses the efficiency,

tolerability and morbidity of polypropylene suburethral slings in the treatment of this particular pathology as well as the pharmacological treatment.

Subchapter 3 presents the lithiasic urinary tract pathology and multidisciplinary involvement in diagnosis and treatment, highlighting the need for collaboration, mainly with the radiologist, in establishing the therapeutic course of action.

Subchapter 4 addresses pathologies that can be encountered in the urologic patient; pathologies that do not fall under the urologist's competencies, but which diagnosis, treatment and implications must be recognized by a physician regardless of his or her specialty.

Chapters 2 and 3 present the evolution and professional achievements to date, as well as the future plans regarding the development of my professional career as well as didactic and research activity. Given that the research activity is closely related to the didactic activity, I intend to achieve, alongside the resident physicians, doctoral students, master students and students, extensive and comparative studies regarding the way of diagnosis, treatment and follow-up -- of patients with urological conditions, following the possibility of helping the development of clinical guidelines for the diagnosis and treatment of these pathologies, and also to disseminate research results through scientific papers in different journals, at medical congresses or scientific conferences.

I have published over 45 scientific papers in the main areas of urological pathology as well as other pathologies, 22 of which are published in ISI Thomson Reuters indexed journals. I wrote 4 books as first author and 5 books in collaboration, as co-author. I have supported a large number of presentations at national and international scientific symposiums.

Most of the published papers represent the results of personal experience, based on clinical research and less on fundamental research that were conducted within the Urology

Department of the Brasov Emergency Clinical County Hospital where I have been working since 1994 , where I became the head of department in 2004.

I am a University Associate professor in the Department of Medical and Surgical Specialties of the Faculty of Medicine, Transilvania University of Brasov, PhD in Medicine and Head of department of the Discipline of Urology

Since 2014, I have been the Vice Dean of the Faculty of Medicine responsible for student activity, connection with the economic and socio-cultural environment and internationalization.

Continuous medical education involving the development of various branches of urology through participation in various congresses and practical modules has been completed through attestations certifying these competences: competence in General Ultrasound, Urological Laparoscopy, Endourology, Extracorporeal Lithotripsy, Sexual Dynamics Disorders.

I am a member of various scientific and professional organizations both national and international: Romanian Association of Urology (ARU), Romanian Association for Sexual Medicine (AMSR), European Association of Urology (EAU).

I participated in more than 15 grants and research projects, 13 of them as lead investigators and the other as members. I also worked as a project manager in projects for the local community, one of them being: Involving family doctors to increase patient addressability in early detection of prostate cancer. (2010-2012).

The third section contains references used to integrate the research activities described in previous sections.