



**UNIVERSITATEA DE MEDICINĂ ȘI FARMACIE
„CAROL DAVILA” BUCUREȘTI
ȘCOALA DOCTORALĂ
DOMENIUL UROLOGIE**



TEZĂ DE ABILITARE

CANDIDAT:

Geavlete Bogdan Florin, Conferențiar Universitar
Spitalul Clinic de Urgență Sf. Ioan, București

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**PROGRESE TERAPEUTICE ÎN ABORDUL
ENDOSCOPIC MINIM INVAZIV AL PATOLOGIEI
CĂII URINARE – DE LA REALIZĂRI TEHNOLOGICE
LA AVANTAJE CLINICE**

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Thesis Summary

The habilitation thesis entitled “Therapeutic progresses in the minimally invasive endoscopic approach of the urinary tract pathologies – from technological success to clinical advantages”, represents a synthesis of the whole of my research directions from the public presentation of my doctoral thesis until now. The thesis also reflects some of my future research directions. The habilitation thesis has been drafted in accordance with the order issued by the Ministry of Education and Scientific Research, on the organisation of the process of obtaining habilitation certificate no. 312 of 27.01.2015, published in the Official Monitor, part 1, no. 107 / 10.02.2015 and other normative documents that specified this procedure. The habilitation thesis is divided in three sections.

Section 1 was divided in four main subparts. The first subpart is a short introduction in my academic activity, where there are drawn the main research directions. The second subpart, entitled “Digital flexible ureteroscopy in tumor and lithiasis pathology of the upper urinary tract”, underlined that the diagnosis and the treatment of urothelial carcinomas represents a topic of great interest in the developed urological world, with serious consequences for the patients in terms of morbidity and of mortality. The Olympus URF-V Flexible Ureteroscope, which additionally offers NBI technology, makes the vascular system of the different areas of the urothelium better represented, thus improving the detection of possible malignant lesions. Under these conditions, the result of the daily work in treating these pathologies with the help of digital flexible ureteroscopy has been scientifically benefited by the appearance of 9 articles published in national and international specialized journals. Also, many papers in the form of abstracts, oral presentations or posters moderated but also unmodified have been supported at multiple national and international congresses. The third subpart is about the “Impact of the narrow band imaging technology in the diagnosis and the treatment of urothelial carcinoma”. This theme was always important in my didactic and scientific activity, especially after submitting the doctoral thesis entitled "Photodynamic diagnosis in the treatment of non-invasive bladder tumors" in 2011. The research activity in this pathology has continued after that, by studying a new diagnostic method, namely the use of NBI in the diagnosis and treatment of urothelial carcinomas. I published 10 articles in international and national journals after the submission of the thesis with reference to this method. The fourth subchapter is referring about “Bipolar plasma vaporization in transurethral approach of benign prostatic hyperplasia and in

non-invasive bladder cancer". As the title suggests, I studied this method in the treatment of prostate adenomas, either by resection, vaporization or enucleation, but also, I studied plasma vaporization and bladder sclerosis secondary to transurethral prostatic surgery and not least in the treatment of non-invasive bladder tumors. In the context of two main ideas widely presented in this thesis, we published important articles that combined the technique of plasma bipolar vaporization with NBI in the treatment of non-invasive large bladder tumor. Regarding bipolar plasma vaporization, we have published in this area 8 articles that showed the results of the studies performed with this modern treatment method. Of course, this technique has also benefited from numerous papers that have been presented at prestigious national and international congresses and symposiums.

Section 2 This section details my academic and professional achievements from the beginning of my academic and professional career to date, with an important scientific accent on some of the most important topics in urology, respectively renal lithiasis, non-invasive bladder cancer and prostate adenoma using these 3 modern methods of diagnosis and treatment. In this context, the research activity after supporting the doctoral thesis can be summarized by the publication of 11 articles in extenso published in international journals quoted ISI Thomson Reuters as main author and another 10 as co-author, 4 articles in extenso published in journals. ISI Thomson Reuters listed as the main author and 6 as a co-author, 4 articles in extenso published in international journals indexed to BDI and 33 articles in extenso published in national journals indexed to BDI. From the point of view of the studies presented at congresses and symposia, they summarized 466 works published in summary in ISI Thomson Reuters journals and 100 works published in summary in journals and the volumes of scientific events with ISBN / ISSN.

Those works contributed to a Hirsch index of 32 (calculated in Web of Science) and 19 (calculated in Google). This section includes also data about my educational course, along with the results of my academic, professional and research activities. Data about my international and national scientific and academic recognition is also highlighted especially by the quite impressive number (52) of journals and of congresses where I am invited reviewer. This section concludes with a series of future research directions that I am planning. These are represented by further research in the areas previously addressed and related research domains and also identifying new relevant areas, extended from my current professional and scientific activity.

Section 3 This section includes the list of references and the source of personal research used in text.