

TO THE CHAIRMAN OF THE SCIENTIFIC JURY  
DETERMINED BY ORDER №319 / 23.06.2021  
OF THE EXECUTIVE DIRECTOR AND PROSECUTOR  
OF AJIBADEM CITY CLINIC UMBAL TOKUDA EAD

**REVIEW**  
**from**  
**PROF. DR. NIKOLAI HRISTOV KOLEV, PhD**  
**Director of the Medical College,**  
**Medical University, Pleven**

**on**  
The scientific works and the scientific-teaching activity of:

**Assoc. Prof. Kaloyan Mikhailov Davidov, PhD**  
**Medical Director of Tokuda Hospital**

**for participation in a competition for the academic position of "Professor", specialty "Urology" in Professional field 7.1 "Medicine", field of higher education 7. "Health and Sports", for the needs of the Department of Urology, Acibadem City Clinic Hospital Tokuda EAD**

**I. INFORMATION ABOUT THE PROCEDURE FOR ANNOUNCING A COMPETITION FOR OCCUPATION OF THE ACADEMIC POSITION "PROFESSOR" IN THE SCIENTIFIC SPECIALTY "UROLOGY", FOR THE NEEDS OF THE DEPARTMENT OF THE DEPARTMENT OF UROLOGY**

The competition for a full-time academic position "Professor" in the field of Higher Education 7. "Health and Sports", Professional field 7.1 "Medicine", in the scientific specialty "Urology", for the needs of the Department of Urology, Acibadem City Clinic Hospital Tokuda EAD was published in the State Gazette No. 33 / 20.04.2021.

By order №319 / 23.06.2021 of the Executive Director of Acibadem City Clinic Tokuda Hospital EAD Dr. Venelina Atanasova and decision of the Scientific Council, protocol №35 / 18.03.2021 I was appointed a member of the Scientific Jury for the open competition. At the first absentee meeting of the Scientific Jury it was decided to prepare a review of the scientific papers and research and teaching activities of the candidate.

Assoc. Prof. Dr. Kaloyan Mihailov Davidov, MD is the only candidate who has submitted documents for participation in the competition within the legally determined term. It meets the requirements of ZRASRB, the Regulations for the development of the academic staff in Acibadem City Clinic Tokuda Hospital EAD.

Assoc. Prof. Davidov has acquired the educational and scientific degree "PhD", in the scientific specialty "General Surgery". He held the academic position of "Assistant" from 2004 to 2006. Head of the Department of Urology from 2006 to present. Participates in the training of specialists in Acibadem City Clinic Tokuda Hospital EAD. He is a proven medical specialist in practice with proven scientific and practical achievements. Assoc. Prof. Davidov presents for participation in the competition sufficient in number and quality scientific publications in specialized scientific journals, which do not repeat those presented for obtaining the educational and scientific degree "PhD". The candidate meets the minimum requirements of the Regulations

for the development of the academic staff in Acibadem City Clinic Tokuda Hospital EAD. There is no proven plagiarism in scientific papers.

Based on meeting the necessary requirements, Assoc. Prof. Kaloyan Davidov was admitted to participate in the competition and can be evaluated by a Scientific Jury.

## **II. BIOGRAPHICAL DATA ABOUT THE CANDIDATE RELATED TO HIS PROFESSIONAL DEVELOPMENT AND ACTIVITY**

Assoc. Prof. Kaloyan Davidov was born in 1971 in Sofia. He graduated in Medicine in 1994 at the Medical University of Sofia, and in 1996 began to specialize in Urology at the University Hospital "Alexandrovska". Acquired a degree in Urology in 2000. In 2006 he obtained a master's degree in Public Administration at Southwestern University in Sofia. In 2017 he defended a dissertation on "Comparative study of the effectiveness and safety of transurethral laser enucleation of the prostate with a diode laser (DiLEP) and transurethral resection of the prostate" and thus acquired ONS "PhD" in the specialty "General Surgery". The specializations held in Japan, Great Britain, Germany and Turkey are of decisive importance for the professional development of Assoc. Prof. Kaloyan Davidov.

Assoc. Prof. Davidov grew and developed his professional and scientific qualities in the Clinic of Urology of the University Hospital "Alexandrovska". Since 2006 he has been working at Tokuda Hospital as Head of the Urology Department, and since 2014 he has been the Medical Director of the hospital.

Assoc. Prof. Davidov participates in many scientific events at home and abroad, which builds him as a modern doctor and scientist. Proficiency in English and Russian is beneficial for his fluency in scientific literature, and fruitful participation in international courses, specializations and scientific forums. Assoc. Prof. Davidov is a member of authoritative international professional organizations such as EAU, SIU and ESUT.

In the documents submitted for participation in the competition, the candidate has submitted an up-to-date reference for his professional development and qualification, as well as for his teaching and research activities.

## **II. ANALYSIS AND EVALUATION OF THE RESEARCH ACTIVITY AND FORMULATION OF THE SCIENTIFIC CONTRIBUTIONS**

### **Quantitative criteria for research**

Assoc. Kaloyan Davidov presents in the documents for participation in the competition 79 scientific papers, of which 22 are after holding the academic position "Associate Professor", distributed as follows:

A. Dissertation work - 1

B. Monography - 1

C. Publications and reports published in scientific journals, referenced and indexed in world-famous databases of scientific information (Scopus and Web of Science) - 3

D. Publications and reports published in scientific journals NOT referenced in world-famous databases of scientific information - 4

E. Publications in Bulgarian peer-reviewed peer-reviewed journals or in edited collective volumes with full-text publications, ISSN - 14

F. Participation in scientific forums - 18

After the exclusion of the dissertation for review, 22 publications remain.

Assoc. Kaloyan Davidov presents a reference for publications with total Impact Factor (IF) - 20,942.

A citation from the National Library "St. St. Cyril and Methodius".

(№ 03-370 / 25.06.2021) in which 15 citations in Bulgarian and international editions and a Reference for Self-discovered citations with 12 citations are noted.

The evaluation of the quantitative criteria of the research activity and publication activity of Assoc.Prof. Kaloyan Davidov shows that he presents a sufficient number of scientific publications in specialized scientific journals and scientific papers, which do not repeat those presented for obtaining the educational and scientific degree "Associate Professor" and there is no proven plagiarism in scientific papers. The evaluation of these works covers the minimum national requirements of the Law for the development of the academic staff in the Republic of Bulgaria in the field of higher education 7. "Health and Sports", professional field 7.1. Medicine, scientific specialty "Urology" for the academic position "Professor".

#### **TOPICS OF RESEARCH ACTIVITY:**

The scientific publications of Assoc.Prof. Kaloyan Davidov can be grouped in the following sections:

##### **1. Scientific contributions to the monograph "ROBOT-ASSISTED ORGAN SAVING SURGERY IN SOLID TUMORS OF THE KIDNEY", presented as a habilitation thesis**

The monograph aims to illustrate some basic perspectives on modern treatment of the disease. The study is presented in three main areas.

The first part briefly presents the frequency, etiological factors, pathohistological features, staging, prognostic factors and normograms for renal cancer progression. The evolution of the view of radicalism in treatment is explained, with the imposition and predominance of the opinion of organ-preserving surgery.

The second part examines the historical development of the concept of robotic operating systems and the evolution to modern devices. New solutions in robotic surgery are described - open consoles, tactile sensitivity, implementation of smaller instruments, separate robotic arms. The third part of the monograph presents the author's own experience in robot-assisted partial nephrectomy. The tools and consumables, the preparation for the operation, the position of the patient, the operative steps in transperitoneal and retroperitoneal access are described, with illustration with own photographic material. Possible complications and their resolution are considered.

The monograph is intended for urologists with initial experience in robot-assisted surgery. It is presented briefly, without claiming to be extensive. It is well illustrated with photographic material of the main operative steps in robot-assisted partial nephrectomy. A great advantage of the scientific work is the lack of such developments for robot-assisted surgery in Bulgarian. It can be used as a useful tool for young urologists in the first steps in robot-assisted surgery.

With this monograph Assoc. Prof. Davidov covers the minimum national requirements under Art. 2b of ZRASRB.

##### **2. Scientific contributions in scientific publications related to the application of laparoscopic surgery in urological diseases in childhood**

Laparoscopic pyeloplasty is a significant challenge, requiring good experience in laparoscopic surgery due to the technical difficulties of performing it in children. Assoc. Prof. Davidov presents the introduction of laparoscopic pyeloplasty in practice, describing in detail the operative technique, as well as commenting on the perioperative, early and late postoperative complications of congenital hydronephrosis and cryptorchidism. Based on our own surgical experience, recommendations are given for the necessary equipment and specifics for conducting laparoscopic pyeloplasty and orchyepexia in children.

##### **3. Scientific contributions in scientific publications related to the application of endourology and laparoscopic surgery**

They are related to the description of the method of resection of ureteral ostia in transurethral resection of bladder tumors, initial experience and short-term results in the introduction of laparoscopic radical prostatectomy, own experience from the introduction into clinical practice of transurethral anatomical enucleation.

4. Scientific contributions in scientific publications related to the diagnosis and treatment of certain urological diseases.

Cases of abnormal perforation of the colon in percutaneous nephrolithotripsy have been reported. The establishment of renal damage in diseases associated with the accumulation of iron - hemochromatosis and thalassemia major. The causes of erectile dysfunction of vascular origin and erectile dysfunction are considered.

#### **IV. ANALYSIS AND EVALUATION OF TEACHING ACTIVITY**

The teaching activity of Assoc. Prof. Kaloyan Davidov is related to the performance of his duties at Tokuda Hospital. Participates in the training of five residents and in continuing education. From the presented report on the workload for the last 5 years, Assoc. Prof. Davidov has a total of 1298 eq. hours. He has experience as an assistant at the University Hospital "Alexandrovska" 2004-2006.

#### **V. ANALYSIS AND EVALUATION OF THE DIAGNOSTIC-TREATMENT AND CONSULTATIVE ACTIVITY**

Assoc. Prof. Kaloyan Davidov is an excellently trained urologist in both theoretical and practical terms. He is an established professional, mastering modern methods for diagnosis and treatment of urological diseases. The qualities he possesses make him one of the respected urologists in our country.

#### **VI. CONCLUSION**

Assoc. Prof. Kaloyan Davidov is a specialist - urologist with broad scientific interests. It meets the requirements of ZRASRB and covers the minimum national requirements for holding the academic position "Professor".

The above facts, the analysis of his scientific activity, the achieved professional results in the field of urology and my personal impressions from my long-term professional and personal contacts, give me the right to confidently give my positive assessment and to recommend to the other respected members of the Scientific Jury vote positively for the award of Assoc. Prof. Kaloyan Mihailov Davidov, PhD of the academic position "PROFESSOR" in the scientific specialty "Urology" for the needs of the Department of Urology of Acibadem City Clinic MHAT Tokuda EAD.

20.08.2021 p.

With respect:

/ Prof. Dr. Nikolai Kolev, PhD /