

REVIEW

by Associate Professor Kalin Kolev Mihov, Ph.D.

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Subject: Announced competition for the academic position

"PROFESSOR"

at the Medical University of Varna with a candidate

Associate Professor Dr. Margarita Mihailova Kateva , MD

By order of the Rector of MU-Varna R-109-6 / 195 of 03.06.2020 and Decision of the Chairman of the Scientific Jury I have been appointed to prepare a review as an internal member in a procedure for acquiring the academic position "Professor" in the specialty " Orthopedics and Traumatology ", professional field 7. Healthcare and sports for the needs of the Faculty of Medicine, Department of Orthopedics and Traumatology.

Only one candidate has been submitted for participation in the competition - Assoc. Prof. Dr. Margarita Mihailova Kateva, MD. For the competition Associate Professor Dr. Margarita Mihaylova Kateva, MD, Ph.D. presented and all necessary documents in accordance with the requirements of the development of the academic staff and the Regulations of the Medical University of Varna for its implementation.

Associate Professor Kateva was born in 1958 and graduated from the Medical Academy, Medical Faculty, Military Academy Sofia Bulgaria in 1983, and in 1993 she was a specialist in orthopedics and traumatology, and her professional career began in 1984 . Doctor-intern in the surgical ward at the Regional Hospital in Elin Pelin city. By 2011 a doctor-intern in the department " Surgery of the Hand " in UMHATEM " Pirogov ". Up to 2014 y. . She is Associate head of I-st Traumatologic clinic in UMHATEM " H . P . Pirogov ", then the head of the " Department of orthopedics and traumatology " in I " Sofiamed " Hospital until 2016, when headed " Department of Hand and Reconstructive surgery " at the University Hospital " Sofiamed " .

In 2008 she receives Educational and scientific degree "Doctor" in a scientific specialty " Orthopedics and Traumatology " , and in 2012 was elected for Associate Professor in

scientific specialty " Orthopedics and Traumatology " . In 2010 she passed a qualification course in health management from Southwestern University "Neofit Rilski" - Blagoevgrad

Associate Professor Kateva has passed numerous qualification courses and qualifications such as "Certificate in microvascular surgery" MU - Sofia, " Certificate in hand surgery " MU - Sofia, Microsurgical courses and Internship under the guidance of Prof. Bimer in "Clinic of Rechts der Isar Plastic and Reconstructive Surgery , Munich, Germany, 1991-1997 Assoc. Prof. Kateva is certified heading a center for surgery of the peripheral nervous system and hand surgery.

Participates in many international forums and courses such as Master class: surgical skills in upper limb spasticity, 1-2 November 2019, Budapest , Hungary , 4th Florence RA Course The Rheumatoid Upper Limb, 23-25 February 2017, Florence Italy , - 3rd ACREP perforator flap course, and the 1st color Doppler workshop for plastic surgeons, 28-30 June , 2012, France , - 10th International course perforator flaps, 6-9 September 2006 , Ankara , Turkey .

Assoc. Prof. Kateva is the chairman and member of scientific juries for holding scientific degrees and academic positions in Sofia, Angel Kanchev University of Ruse and Pleven. Chairman of the examination commission for special certificate "hand surgery". Member of the bot and section "hand surgery", chairman of the Society of Hand Surgery-Bulgaria, member of the European (FESSH) and world (IFSSH) Federation of Hand Surgery.

For the competition, Assoc. Kateva has provided 152 scientific papers, including Real publications in our (57) and referenced international and IF (8) scientific journals, podium and poster presentations at international (22) and national congresses (47), program lectures in national and international forums (15), 2 monographs and dissertations (1). Supervisor of 3 doctoral students, two of whom in the doctoral program "Orthopedics and Traumatology".

From the presented real publications in Bulgarian journals , Assoc. Prof. Kateva is:

- First author in 49 (85.9%) of them
- Second author in 6 (10.5%) of them
- Third author in one (1.8%) of them
- Fourth and consecutive author in one (1.8%) of them

From the presented real publications in international journals, Assoc. Prof. Kateva is:

- First author in 4 (50%) of them
- Third author in one (12.5 %) of them
- Fourth and consecutive author in three (37.5 %) of them

The total IF of publications in international journals is 3.05.

From the published abstracts of scientific reports in national congresses the distribution is as follows:

- First author - 43 (74.13%) of them

- Second author - 13 (22.41) of them
- Third author - 1 (1.7%) of them
- Fourth and consecutive author 1 (1.7%) of them

From the published abstracts of scientific reports in international congresses the distribution is as follows:

- First author - 12 (50%) of them
- Second author - 10 (41.7%) of them
- Third author - 2 (8.3%) of them

In connection with the requested citation reference (№ RT 78 / 21.02.2020) a search was made for citations of publications of Assoc. Prof. Dr. Margarita Kateva in Bulgarian and foreign sources from the Central Library fund, as there are 26 citations in Bulgarian editions and 4 citations in the Scopus database . At the time of filing of documents is re e articular list of 10 citations in articles in the press and 2 monographs.

The main emphasis in the scientific work of Assoc. Prof. Kateva , the result of many years of work, are the two published monographs in the field of pathology of the upper limb.

The dissertation of Assoc. Prof. Kateva "Emergency reconstruction of traumatic defects of the fingers with retrograde homodigital and metacarpal island lamps " from 2008 is the basis for the monograph " LAMB FOR RECONSTRUCTION OF POST-TRAUMATIC DEFECT OF 2019. Detailed work Assoc. Kateva in the field of reconstruction of post-traumatic defects arm , affecting mainly modern tendencies in this area . The work is detailed and didactic, affected the anatomy of the hand and skin its cover. Presentation is comprehensive and understandable classification of skin flaps , indications and surgical techniques for their application. Sequential lists the most commonly used techniques for soft tissue reconstruction such as rotatory, pediculated and translational flap . Attention is focused over heterodigital and neurocutaneous retrograde flap . Impressive collection of own pictures illustrates the work of Assoc. prof. Kateva . The presented work is a desktop reading for professionals , either in Orthopedics and Traumatology and Plastic and Reconstructive Surgery. It is the interdisciplinary aspect of this monograph that is one of its great merits .

Surgical treatment of nerve injuries of the upper limb is the other direction in which Assoc. Prof. Kateva is a prominent national and international specialist. Her many years of experience in plexus surgery are realized in the monograph " Early surgical treatment after trauma

to Plexus Brachialis " .The traumatic injuries of pl. brachialis, although rare, are extremely difficult to treat due to the specificity of the affected tissues. Their treatment requires extremely detailed knowledge of the topography of the affected area, the possibilities for reconstruction and rehabilitation.

The monograph of Assoc. Prof. M. Kateva is currently the only in-depth study of this severe pathology. It enables physicians involved in the treatment of these disabling injuries to have the correct diagnostic and therapeutic approach. The syndromes in total or partial lesions of pl. brachialis, illustrated with demonstrative photographic material. Universally accepted modern scales for the degree of severity of motor waste systems are also given. Much attention is paid to the possibilities of microsurgery in plexus reconstruction, both conventional techniques developed by the author and their own alternative approaches. They describe in detail techniques in autonervous grafting , highly selective nerve transfer and extraplexial neurotisation . One of the highlights of her work is traumatic damage to the plexus in children, which occurs most often at birth. The above-described techniques applied in the early treatment of obstetric paralysis are clearly presented and prove the significant role of Assoc. Prof. Kateva in the early treatment of this "forgotten" pathology. Great attention is paid to the capability for the reconstruction of irreparable nerve structures with defect – contralateral nerve grafting and selective nerve transfer - both in adults and in children. In this respect, Assoc. Prof. Kateva can be indicated as a "pioneer" of this technique.

The contributions of Assoc. Prof. Kateva with scientific - practical character can be summarized as follows:

1. Introducing a flow diagram of the treatment of obstetrical paralysis in the methods of autografting and extraplexial neurotisation in discontinuous or avulsion truncus or fastsikuli .
2. Introduces highly selective nerve transfer in obstetric paralysis
3. Promotes the contralateral nerve grafting in total avulsion of the truncus
4. It imposes as a standard the treatment of traumatic injury of the plexus brachialis in adults with autonervous grafting and highly selective neurotization . Applies the already established methods for the treatment of this pathology in children and adults.
5. Introduces in Bulgaria the latest operative method for high peripheral nerve damage - highly selective nerve transfer in children and adults

6. Promotes the algorithms of behavior in soft tissue and composite defects of the limbs and the use of a wide range of soft tissue flaps for reconstruction.

Scientific Production Assoc. Kateva is the result of over 30 years of experience in two of the leading university hospitals in the country - UMHATEM " H . P . Pirogov " and Hospital " Sofamed " . To this is added the training of students, postgraduates and PhD 's in Orthopedics and Traumatology, the conduct of training modules in other surgical specialties, which is evident from the report on the workload of Assoc. Prof. Kateva over the years. At the moment, Assoc. Prof. Kateva is the research supervisor of two PhD and she was the supervisor of two successfully approved PhD's.

In conclusion, Assoc. Prof. Kateva is a specialist with enviable experience in peripheral nerve and reconstructive surgery of the upper limb. Contributions based on many years of scientific and practical work are derived from its scientific production. The contributions of Assoc. Prof. Kateva in these specific areas of our specialty are indisputable and backed by enviable evidence. In conclusion, I can say that the scientific papers and documents presented by Assoc. Prof. Kateva correspond to those set out in the Law on the Development of Academic Staff in the Republic of Bulgaria and in the Rules of the Medical University - Varna, which gives grounds for my positive vote to award Assoc. Prof. Margarita Kateva , MD . the academic position of "Professor".

Varna
20.08.20

Ass. Prof. Kalin Mihov, PhD

