

## ***REVIEW / SHORT REVIEW***

Subject: Competition for the academic position "Associate Professor" in the field of higher education 7. Health and sports, professional field 7.1. Medicine, scientific specialty "Orthopedics and traumatology - bone - joint infections", announced by Sofia University "St. Kliment Ohridski" in the State Gazette, issue 22 / 16.03.2021

by Prof. Dr. Andrey Iotov, MD, Dcs, member of the Scientific Jury, position – Chief of clinic of orthopedic and traumatologyq Univercity hospital Sofiamed

### ***Details of the competition procedure:***

The normative requirements regarding the competition procedure are met. The competition for the academic position of "Associate Professor" in a professional field 7.1. Medicine (Orthopedics and Traumatology - Bone - Joint Infections - one) has been announced for the needs of the Department of Surgical Diseases, Obstetrics and Gynecology at the Medical Faculty of Sofia University "St. Kliment Ohridski". The announcement for the competition was published in State Gazette, issue 22 / 16.03.2021. The composition of the scientific jury was determined by Order of the Rector № ПД-38-227 from 14.05.2021, based on a decision of the Faculty Council of the Medical Faculty (Minutes №87 / 12.05.2021). One candidate participates in the competition: Dr. Yavor Georgiev Grigorov, MD. The review has been prepared in accordance with the Law on the Development of Academic Staff in the Republic of Bulgaria (RASRB), the Regulations for the Implementation of the RASRB and Section IV (Conditions and Procedure for Occupying the Academic Position of "Associate Professor"). degrees and holding academic positions at Sofia University "St. Kliment Ohridski".

The documents of the candidate are in full compliance with the normative requirements for admission and participation in a competition for the academic position of "Associate Professor" at Sofia University "St. Kliment Ohridski". They are presented in sequence from №1 to №3, from №5 to №7, from №10 to №18 and include attached evidence: 1. Curriculum vitae; 2. Diploma of higher education; 3. Diploma for educational and scientific degree "Doctor"; 4. Diploma for scientific degree "Doctor of Sciences" - not attached; 5. Document for scientific title or academic position; 6. Certificate for work experience in the specialty 7. Documents proving the fulfillment of the requirements under art. 105, al. 1, item 2; 8. Medical certificate certifying mental and physical health, as well as 9. Certificate of criminal record certifying the absence of a imposed penalty "deprivation of the right to practice a certain profession or activity" - are not presented according to the regulations, due

to the fact that currently e- Mr. Yavor Grigorov has an employment contract at Sofia University "St. Kliment Ohridski "; **10.** List of publications, inventions and other scientific and applied results, including: a / list of all publications b / list of publications submitted for participation in the competition; **11.** List of publications, conferences, projects and scientific manuals, generated by the system "Authors", due to the fact that the candidate holds an academic position at Sofia University "St. Kliment Ohridski "; **12.** Information on a sample for implementation of the minimum national requirements for the respective scientific field and the additional requirements of Sofia University "St. Kliment Ohridski ", with the evidence attached to it, including the acquired specialty in " Orthopedics and Traumatology "and " Sports Medicine "; **13.** References to the citations with a complete bibliographic description of the cited and cited publications; **14.** Information on the original scientific contributions, with the attached relevant evidence; **15.** Information on the indicators under Art. 112, para. 2 with the relevant evidence; **16.** Scientific papers submitted for participation in the competition, structured and numbered according to the list under item 10 b; **17.** The summaries of the peer-reviewed publications in Bulgarian and in one of the languages traditionally used in the respective scientific field; **18.** Copy of the announcement in the State Gazette.

***Biographical data and academic development of the candidate:***

Dr. Yavor Grigorov was born in 1960 in Burgas - hereditary physician. He graduated from the Naval School in his hometown, where he received his secondary education and completed his regular service in the Navy. From 1980 to 1986 he was a student at the Medical University - Varna. During his studies he was a member, and in the last year - chairman of the circle of Orthopedics and Traumatology at the clinic of the same name. He participated in scientific developments, awarded first and second place in the surgical sessions for Technical and Scientific Creativity of Youth (TNTM), in 1983 and 1984. Biographical data and academic development of the candidate: Dr. Yavor Grigorov was born in 1960 in Burgas - hereditary physician. He graduated from the Naval School in his hometown, where he received his secondary education and completed his regular service in the Navy. From 1980 to 1986 he was a student at the Medical University - Varna. During his studies he was a member, and in the last year - chairman of the circle of Orthopedics and Traumatology at the clinic of the same name. He participated in scientific developments, awarded first and second place in the surgical sessions for Technical and Scientific Creativity of Youth (TNTM), in 1983 and 1984. Dr. Yavor Grigorov's career began as head of the rural health service in Obzor, where he worked between 1986 and 1989. From 1989 to 1991 he was an intern at the Clinic of



Orthopedics and Traumatology in Burgas. In 1991 he started working at the Second Clinic of Orthopedics and Traumatology of the Pirogov Institute. From 1993 to 1998 he was an intern at the Clinic of Orthopedics, Traumatology and Plastic Surgery at the Institute for the Treatment of Foreign Citizens - Sofia (St. Anna University Hospital). In 1998 he started working at the University Hospital in Sabrata - Libya, as head of the Department of Orthopedics and Traumatology at the Surgical Clinic and was a consultant at the National Oncology Institute in the same city until 2009. During his stay in Libya he performed over 2,300 surgeries. interventions. For his eleven years of activity, Dr. Yavor Grigorov was awarded a Certificate of Honor for excellent work by the management of the University Hospital in Sabrata. In 2010 he successfully defended a dissertation dedicated to bone infections and obtained the scientific degree "Doctor" before the Higher Attestation Commission. In January 2011 he started working at the Clinic of Orthopedics and Traumatology at Lozenets University Hospital, Sofia, successively as an intern, part-time and chief assistant. For these years teaching activity at the Medical Faculty of Sofia University "St. Kliment Ohridski ", Dr. Grigorov has 2134 teaching hours (classroom and extracurricular employment), has led a specialization in orthopedics and traumatology, was a mentor in the project" Student Internships "for training students from Sofia University" St. Cl. Ohridski ", co-financed by the European Union, in the period 13.06.2013 - 30.04.2015, as well as a reviewer of a diploma thesis for obtaining the educational degree“ Master ”- 2015. He has performed over 1000 operative interventions and thousands of consultative examinations. at Lozenets Hospital. During his career Dr. Grigorov acquired the following qualifications: specialty in Sports Medicine at the Faculty of Social Professions (FOP) - in 1985; specialty in Orthopedics and Traumatology - in 1993; course in Spinal Surgery - in 1994, course in Joint Endoprosthesis - 2012. He has participated in international conferences and congresses. He has 31 publications and is the author of the monograph - "Osteomyelitis". He has presented 31 scientific papers. He has participated in editorial boards of medical journals. He is a member of BMA, BOTA, the Union of Scientists in Bulgaria, the Bulgarian Society of Dermatological Surgery, of which he is also a founder. Fluent in English (IV level Alliance), Russian and spoken - Arabic. During his studies, in 1985 he graduated in Journalism at the Faculty of Social Professions (FOP). He has published articles and articles.

***Research and scientometric data:***

The scientometric data of the candidate are in accordance with the criteria and indicators for evaluation by the Scientific Jury recommended in the normative documents when conducting a competition for “associate professor”. The scientific papers submitted

for review are from the field of higher education 7. Healthcare and sports, professional field 7.1. Medicine, scientific specialty "Orthopedics and Traumatology". Dr Yavor Grigorov participates in the competition with following scientific works:

**1. Dissertation** (1) for the award of ONS "Doctor" in "Orthopedics and Traumatology": Bone infections - epidemiology and treatment (eleven-year study - 1998 - 2009 in the region of North Africa).

**2. Author's Monograph** (1): "Osteomyelitis", Kronos Publishing House, Sofia 2019.

**3. The scientific publications** (31), of them submitted for participation in this competition are 27 (including - 5 in publications referenced and indexed in world-famous databases with scientific information and 22 in non-refereed journals with scientific review), and 4 were submitted earlier and were related to the dissertation. The subject of the publications includes: bone - joint infections - 8, benign tumors - 5, malignant tumors - 11, degenerative diseases - 1, neurological diseases - 1, congenital malformations - 1.

**4. The reports presented at scientific forums** submitted for participation in the competition are 31, the analysis of which includes: bone - joint infections - 8. benign tumors - 3, malignant tumors - 10. trauma - 1, degenerative diseases - 1, neurological diseases - 1, congenital malformations - 1. Four of the reports are published in books of suppliers including 2 in international events.

Overall d-r Grogorov participates in the competition with 64 scientific works. He is first/single author in 58 (78%) of them and co-author in the rest.

#### ***Citation:***

According to the report submitted by CMB, MU - Sofia in the Scopus database were found - 9 citations; in Web of knowledge - 6 citations; in Bulgarian sources are found - 2 citations; in other foreign databases - 4 citations. According to a reference from NACID - 13 citations were found in the databases Scopus, Web of Science and other databases. IF of the journals in which the citations are is 13.2; The SJR is 6,049. According to NACID reports, the SJR value for publications is 0.764.

#### ***Scientific contributions:***

The contributions from the scientific and creative work of Dr. Grigorov are reflected in the "Information on the original scientific contributions" attached to the documents for the competition. They are the result of research in the main scientific areas



listed above, substantiated and substantiated with evidence. They might be systemized in the following directions:

*Bone and joint infections.* This is the main trend of the scientific production of Dr Grigorov. It includes the dissertation, the author's monography and the most of publications and reports. Bone infections are actual and challenging item, but less popular scientific field. It was practically ignored in our country during last years excluding periprosthetic infections. At the same time increased popularity of ORIF in fracture care led to increased rate of bone infections requiring competent scientific data and relevant literature. The long service of Dr Grigorov in the region with high spreading of this pathology and his particular scientific interest in that field allowed him to collect huge personal experience, hard to be gained in Bulgaria. It reflected positively on quality of his scientific work and facilitated him to vary surgical techniques and to introduce personal modifications. Due to some ethnical and religious particularities of the region the author was unable to use popular in our country homologous bone grafting in treatment of osteomyelitis and had to develop autologous techniques reaching success in impressive 88% of patients.

Estimating this part of scientific production I may note several valuable original and practical contributions:

Dr Grigorov created and promoted his own classification of bone infections

Basing on his system he elaborated the universal algorithm for surgical treatment in that problem subject.

The modification was introduced of famous surgical technique of Papineau for treatment of extensive prolonged bone infections close to large joints.

First report for cured 34 years old femoral osteomyelitis was published.

For the first time was conducted detailed and comprehensive epidemiological research of local bone infections with analysis reasons of high rate of septic complications. In spite of some differences in the epidemiology and causing agents it is useful and valuable for our country too.

The monograph presented the newest information in respect to epidemiology, origin and pathogenesis of bone infections. The most contemporary methods for early diagnosis and complex treatment of osteomyelitis are reviewed. The original algorithm of surgical treatment is developed further on the base of author's classification and through clear differentiation of basic and accessory treatment methods and their compounding. Due to the

actuality of the presented material as well to author's enormous personal experience the monograph is an invaluable practical reference book for the specialists in septic bone surgery.

*Benign and malignant neoplasms.* 29 of the works are dedicated to this topic. In this direction, I can highlight the following contributions:

- A unique case of thigh liposarcoma is presented, the second largest described in world practice.
- An interesting and rare surgical intervention is presented - amputation of the shoulder girdle (clavicula scapula and upper limb) performed for the second time in Bulgaria.
- Successfully described cases of rare and interesting oncoorthopedic nosology: femoral liposarcomas with non-typical localization, a rare form of chondrosarcoma of the tibia, fibrosarcoma of the clavicle, which occurred 30 years after radiotherapy on the occasion of breast cancer, successfully treated by claviclectomy, Ewing's sarcoma with extremely rare clavicular localization. Here of interest are both the rare and little-known pathology itself, as well as the applied operational techniques, often modified and going beyond the standard surgical approaches according to unusual situations. Contributions to this direction are of a scientifically applied and affirmative nature.

*Rare non-oncological orthopedic diseases and conditions.* Scientific production in this direction includes 5 titles, viating a rare orthopedic pathology outside the field of oncological orthopaedics. Of particular interest are the successfully treated cases of synovial lipomatosis of the foot and dorsal exostosis of the scapula described for the first time in our scientific literature. Their presentation in the Bulgarian scientific literature I appreciate as a scientific and practical contribution. I also find scientific and practical value in the publications concerning stimulation of the bone healing and congenital malformations, the latter two being awarded the I and II awards at the scientific sessions of TSIY (technical and scientific creativity of youth), respectively in 1983 and 1984...

#### **6. Participation in editorial boards:**



Dr. Grigorov has participated in 5 editorial boards for the publication of medical journals: **1.** Proceedings of the Eighth National Conference on Thermal Trauma and Plastic Surgery - Varna 2014. **2.** Proceedings of the Seventh Scientific - Practical Symposium on Methods of Treatment in Plastic Surgery and Thermal Trauma - Varna 15.06.2012 **3.** Proceedings of the Sixth Scientific and Practical Symposium on the Problems of Thermal Trauma and Plastic Surgery - Varna 17.06.2011 **4.** Proceedings of the Fifth Scientific and Practical Symposium on the Problems; of thermal trauma and plastic surgery - Varna 01.10.2010 **5.** Proceedings of the Fourth scientific-practical symposium "Difficult to heal wounds"; Varna - October 2, 2009.

### ***7. Awards:***

**1.** Certificate of Honor, presented by the management of the University Hospital in Sabratha - Libya (Sabratha Teaching Hospital - Libya) for excellent eleven years of work as head of the Department of Orthopedics and Traumatology, with over 2300 surgical interventions and tens of thousands of consultative examinations. **2.** Tenth Joint Scientific Session of Technical and Scientific Creativity of Youth (TNTM); Varna - 27 - 28.04.1984 N. Kolev, A. Angelov, J. Grigorov, J. Balev. Circle of orthopedics and traumatology - MU - Varna. **3.** Ninth Joint Scientific Session of Technical and Scientific Creativity of Youth (TNTM) (Ninth Joint Scientific Session of Young Researchers and Students); Varna - April 21-23, 1983 I. Ivanov, J. Grigorov, J. Balev. Circle of orthopedics and traumatology - MU - Varna. Leader of the topic - Dr. Govedarov. Frequency of congenital foot deformities in children, based on materials from the children's orthopedic office at POCB - Varna. (Second place in the surgical section).

### ***Minimum national requirements:***

The comparative analysis of the minimum national requirements under Art. 26 of ZRASRB for scientific field 7. Healthcare and sports, professional field 7.1. Medicine with the attached reference for the real points shows that Dr. Yavor Grigorov meets the minimum national requirements for holding the academic position of "Associate Professor". The analysis of the respective groups of indicators A, B, C, D, E, E of Dr. Grigorov shows the following: Indicators A (50), B (0) and C (100) - meet national requirements. Indicator D is 230.98 with a minimum value of 200; indicator D is 155 at a minimum value of 50; indicator E of the candidate is 125, with minimum national requirements 0. The total number of points of Dr. Grigorov is 660.98 with a minimum number as a national

requirement for the academic position "associate professor" - 400. By group of indicators - D, E, E, Dr. Grigorov's values exceed the minimum national requirements.

***Teaching and learning activities:***

Dr. Yavor Grigorov is a lecturer at the Medical Faculty of Sofia University "St. Kliment Ohridski" in the discipline "Orthopedics and Traumatology" for almost 10 years, the last 9 of them being a chief assistant. To date, there are 2133.9 hours of classroom and extracurricular employment, with Bulgarian and English-speaking students in the master's program, for the specialty "Medicine", as well as with students in the bachelor's program, in the specialty Medical Rehabilitation and Occupational Therapy. He led a specialization in orthopedics and traumatology, was a mentor in the project "Student Internships" for training students from Sofia University "St. Kl. Ohridski", co-financed by the European Union, in the period 13.06.2013 - 30.04.2015, as well as a reviewer of a diploma thesis for obtaining the educational degree "Master" - 2015.

**Conclusion:**

Dr. Yavor Georgiev Grigorov, MD, participating in the competition for the academic position "Associate Professor" meets the regulatory requirements of ZRASRB and the Regulations on the terms and conditions for obtaining scientific degrees and holding academic positions at Sofia University "St. Kliment Ohridski". His scientometric data exceed the minimum national requirements, normative criteria and indicators for evaluation of the candidates during the competition for the academic position "Associate Professor". The complex evaluation of his documents and activity gives - grounds for a positive opinion, which is why I propose to the esteemed members of the Scientific Jury to make a decision "for" to elect Dr. Yavor Georgiev Grigorov, MD for "Associate Professor" in: 7.1. Medicine (Orthopedics and Traumatology) and holding this academic position at the Medical Faculty of Sofia University "St. Kliment Ohridski".



Member of the Scientific Jury and reviewer:  
(Prof. Andrey Iotov, M.D., PhD, DSc)

10.07.2021 г.