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## REVIEW

By **Prof. Vladimir Pavlov Stavrev, MD, PhD**

Regarding: Competition for the academic position of `Associate professor` in the field of higher education 7. Healthcare and sports, professional direction 7.1. Medicine, scientific specialty `Orthopedics and Traumatology`, announced in the State Gazette, issue 69/11.08.2023 in compliance with the requirements of University `Prof. Dr. Asen Zlatarov` - Burgas

**Candidate:** Chief Assistant Stoyan Zhelyazkov Hristov, MD, PhD

### 1. General presentation of the candidate:

The publication activity of the candidate is in accordance with the field of higher education, the professional direction and the scientific specialty of the announced competition. There are a total of 17 scientific works published in peer-reviewed journals or in collections with a signature, with a scientific editor and publishing house, and in accordance with the national and university educational-normative base for acquiring scientific degrees and holding academic positions: 1 monographic work, 1 published book based on the defense of a dissertation thesis for the award of an educational and scientific Doctorate degree/ PhD, 7 publications referred and indexed in Scopus and Web of Science and 8 in non-refereed peer-reviewed journals. He participates in the current competition with 13 materials: 1 monographic work, 1 published book based on a defended dissertation work for the award of an educational and academic Doctorate degree / PhD, 7 scientific publications, referenced and indexed in world-renowned databases of scientific information (Scopus; Web of Science) and 4 in non-refereed peer-reviewed journals. The submitted reference list includes 15 citations- 10 in scientific publications, referenced and indexed in world-renowned databases with scientific training (Scopus; Web of Science) and 5 in non-refereed journals with scientific review.

## **2. Biography of the candidate**

Dr. Stoyan Hristov completed higher medical education in 1995 at the Medical University, Varna. He was resident doctor in Orthopedics and Traumatology department at UMHATEM `N. Pirogov`EAD in 1998-2002. In 2002 he mastered his specialty exam in Orthopedics and Traumatology. He has a work experience as specialist in Orthopedics and Traumatology for nearly 22 years. Since July 2017 he has been Chief of the Orthopedics and Traumatology Clinic at the `University Multispecialty Hospital for Active Treatment-Burgas` AD/ UMBAL Burgas AD, Burgas. He has supervised three interns who acquired the specialty in `Orthopedics and Traumatology` and currently supervises three more interns. In December 2022 he was the head lector of the course `AO trauma for surgical team members- clinical training`. On 10.05.2022 he was awarded the educational and scientific Doctorate degree/Ph.D in specialty `Orthopedics and Traumatology`. Since 1998 he has attended more than 40 specializations and qualification courses, most of them - abroad. He is a member of the Bulgarian Association of Orthopedics and Traumatology, AO Trauma (since 2008), European Association of Pediatric Orthopedics (EPOS, since 2010), International Association of Orthopedics and Traumatology (SICOT, since 2011), European Association in Traumatology and Emergency Surgery (ESTES, since 2017), European Association for Ankle and Foot Surgery (EFAS, since 2018), and since 2022 is an Associate Member of the American Academy of Orthopedic Surgeons (AAOS) and a member of the European Society for Surgery of the Shoulder Elbow (ESSSE).

## **3. List of scientific publications with which the candidate participated in the competition:**

I. Dissertation thesis for the award of the educational and scientific Doctorate degree - Hristov, St., `Operative treatment of proximal humeral fractures with lockingplate with and without augmentation- comparative analysis` at UMHATEM `Pirogov`- Sofia, 2022.

II. Monographic paper - 1. St. Hristov, Augmentation in operative treatment of fractures of the proximal humerus with a locking plate, Ed. Baltica-2002, ISBN 978-619-7559-44-6, 2023

III. Published book based on a defended dissertation work for the award of the educational and scientific degree PhD.

2. St. Hristov, Operative treatment of proximal humeral fractures with locking plate with and without augmentation- comparative analysis, Ed Baltica- 2002, ISBN 978-619-7559-36-1, 2022

IV. Publications and reports published in scientific publications, referenced and indexed in world-famous databases with scientific information (Scopus; Web of Science)

3. Hristov, S., Baltov, A., Sotirova, E., Bozov, H. Intuitionistic Fuzzy Evaluations for Analysis of the Proximal Humerus Fractures. BioInfoMed 2020. Lecture Notes in Networks

and Systems, vol 374. pp 279–284, 2022, **Springer**, Cham. [https://doi.org/10.1007/978-3-030-96638-6\\_30](https://doi.org/10.1007/978-3-030-96638-6_30), Q4, SJR=0,151

4. Hristov, S., Baltov, A., Sotirov, S. Functional Outcome Prediction of Operated Proximal Humerus Fractures by Means of Artificial Neural Networks. *BioInfoMed 2020. Lecture Notes in Networks and Systems*, vol 374. pp 210-215, 2022, **Springer**, Cham. 210-215. [https://doi.org/10.1007/978-3-030-96638-6\\_23](https://doi.org/10.1007/978-3-030-96638-6_23), Q4, SJR=0,151

5. Hristov, S., Visscher, L., Winkler, J., Zhelev, D., Ivanov, S., Veselinov, D., Baltov, A., Varga, P., Berk, T., Stoffel, K., Kralinger, F., Gueorguiev, B. A Novel Technique for Treatment of Metaphyseal Voids in Proximal Humerus Fractures in Elderly Patients. **Medicina** 2022, 58, 1424. <https://doi.org/10.3390/medicina58101424>. Q3, SJR=0.245, IF= 1.817

6. Ivanov, S., Valchanov, P., Hristov, S., Veselinov, D., &Gueorguiev, B. (2022). Management of Complex Acetabular Fractures by Using 3D Printed Models. **Medicina**, 58(12), 1854. Q3, SJR=0.245, IF= 1.817

7. Zhelev, D., Hristov, S., Zderic, I., Ivanov, S., Visscher, L., Baltov, A., Ribagin S., Stoffel K., Kralinger F., Winkler J., R. Richards G., Varga P., Gueorguiev, B. (2023). Treatment of Metaphyseal Defects in Plated Proximal Humerus Fractures with a New Augmentation Technique—A Biomechanical Cadaveric Study. **Medicina**, 59(9), 1604, pp.12 Q3, SJR=0.245, IF= 1.817

8. Sotirov, S., Kostadinov, T., Hristov, S. (2023). An Intuitionistic Fuzzy Estimation Approach on a Magnetic Resonance Imaging. In: Sotirov, S., Pencheva, T., Kacprzyk, J., Atanassov, K.T., Sotirova, E., Ribagin, S. (eds) *Recent Contributions to Bioinformatics and Biomedical Sciences and Engineering. BioInfoMed 2022. Lecture Notes in Networks and Systems*, vol 658. **Springer**, Cham. 47–52, [https://doi.org/10.1007/978-3-031-31069-0\\_6](https://doi.org/10.1007/978-3-031-31069-0_6) Q4, SJR=0,151

9. Ribagin, S., Grozeva, A., Hristov, S. (2023). Generalized Net Model of Rehabilitation Algorithm for Patients with Proximal Humeral Fracture After Surgical Treatment. In: Sotirov, S., Pencheva, T., Kacprzyk, J., Atanassov, K.T., Sotirova, E., Ribagin, S. (eds) *Recent Contributions to Bioinformatics and Biomedical Sciences and Engineering. BioInfoMed 2022. Lecture Notes in Networks and Systems*, vol 658. **Springer**, Cham. 225–235, [https://doi.org/10.1007/978-3-031-31069-0\\_22](https://doi.org/10.1007/978-3-031-31069-0_22) Q4, SJR=0,151

V. Publications and reports published in non-refereed peer-reviewed journals or published in edited collective volumes

10.St. Hristov, D. Zhelev, High-energy fracture of the distal lower leg as a result of high-impact trauma - a clinical case, *Emergency Medicine*, 25(3), 2022. 126-133

11. Hristov St. Shoulder arthroplasty - trends and self-report, *Black Sea Journal of Medicine and Public Health*, ISSN: 2738-8654, Vol. 3, 2022, 119-127

12. Hristov St. Dependence between complications and reoperations in the treatment of proximal humerus fractures with an angulatory stable locking plate, *Management and Education*, Volume 19 (1) 2023, 224-231

13.Hristov, St. Early results with the Delta Xtend shoulder arthroplasty as primary treatment or proximal humerus reoperation. JBOTA – Vol.60/1-2023, 15-26

It is noteworthy that of the international publications - 4 are in Springer editions, and the rest in refereed and indexed globally recognized editions.

#### **4. International experience:**

In the period November 2003 – November 2004 Dr. Stoyan Hristov worked at MEDICAL PARK Bad Rodach 16, Kurring - 96476 Bad Rodach - Germany. Subsequently for the period: June, 2014 - June, 2016 he worked in NHS - United Kingdom: 1. Royal Free NHS Hospital - London, 2. Croydon NHS Hospital - London, 3. University Hospital of South Manchester, 4. General NHS Hospital - Poole. These are 4 large and well established hospitals of the United Kingdom, which have formed in the candidate not only practical, but also teaching skills.

#### **5. Teaching experience:**

Since beginning of 2018 he has been teaching the subject Orthopedics and Traumatology at the Faculty of Public Health and Healthcare and Medical College at the University `Prof. Dr. Asen Zlatarov` - Burgas to students from the specialties `Medical Assistant`, `Rehabilitation specialist` and `Medical Rehabilitation and Occupational Therapy`. He has been teaching Orthopedics and Traumatology to students of the 5<sup>th</sup> year in Medicine specialty at the University for the academic year 2023/ 2024. He co-authored the study programs in the discipline `Orthopedics and traumatology` for students from the Medicine specialty, as well as for the specialty `Kinesitherapy`, which is in the process of accreditation. The average study load is about 300 hours, with a norm of 200 hours.

#### **6. Points acc. indicators in field 7. Healthcare and sports, according to the Law on the Development of the Academic Staff in the Republic of Bulgaria, Professional direction 7.1. Medicine:**

The candidate Dr. Stoyan Hristov has achieved 636.62 points out of the 450 points, required by the university. The attached report clearly shows that the minimum number of points required by the Law on the Development of the Academic Staff in the Republic of Bulgaria is not only met, but also significantly exceeded.

## **7. Contributions and significance of Dr. Stoyan Hristov`s work for science and practice:**

The main contributions of the candidate are related to the augmentation with polymethyl methacrylate in fractures of the proximal humerus. The dissertation he defended on this subject has been further developed into a monograph on the subject. The contributions related to 3D planning in acetabulum fractures, as well as those related to the treatment of severe pediatric fractures deserve special attention as well. I was extremely impressed by the experience of the team led by him in the treatment of pertrochanteric fractures of the femur by primary arthroplasty compared with the use of a proximal femoral nail. Despite the groundless criticism of the report presented at the Orthopedics and Traumatology Congress in Burgas in 2022, I noticed maturity and deep knowledge of the problem from the cases presented.

He is the major contributor for the modernization and transformation of the Orthopedics and Traumatology department at the Hospital in Burgas into a structure, comparable in treatment and teaching quality to establishments where the candidate has specialized and perfected his skills.

## **8. Citations:**

A. Citations or reviews in scientific publications, referenced and indexed in world-famous databases with scientific information or in monographs and collective volumes.

There are a total of 9 of them and twice the number of citations in Bulgarian publications, which is indisputable proof of the scientific weight of his publications.

B. Citations in non-refereed peer-reviewed journals.

There are 5 of them in total, and during the review I did not notice a single auto-citation, but only real quotes from different Bulgarian authors.

## **9. Work experience at Asen Zlatarov University:**

The candidate has a total of 2 years of work experience as a teacher at the Department of Rehabilitation and Marine Medicine of the Faculty of Public Health and Healthcare at University `Prof. Dr. Asen Zlatarov - Burgas, 1 year as Assistant and 1 year as Chief Assistant.

## **Conclusion**

In the competition for the academic position of `Associate professor` in the field of higher education 7. Healthcare and sports, professional direction 7.1. Medicine, scientific specialty `Orthopedics and Traumatology`, announced in the State Gazette, issue 69/11.08.2023 in compliance with the requirements of University `Prof. Dr. Asen Zlatarov` - Burgas the only candidate is Chief Assistant Stoyan Hristov, MD, PhD.

The candidate fully meets and even exceeds the requirements laid down by the respective law, as well the regulations for its implementation.

In this regard, I give my positive vote for the awarding of the academic position `Associate Professor` to Dr. Stoyan Hristov and I also recommend the other members of the scientific jury to vote positively.

7.11.2023

Review prepared by:

( Prof. Vladimir Stavrev, MD, PhD)