

**Review of the scientific papers
of Dr Georgi Nikolaev Valchev, PhD**

**Applying for the position of “Associate Professor”
in the domain of High education 7.Healthcare and sport,
professional direction 7.1Medicine, specialty, “Diagnostic Imaging”
for the educational purpose of the profession of Radiographers,
at the Medical College of the medical University - Varna
as announced in the Official Journal N 8 dated 28 Jan 2020**

Reviewer: Associate Professor Georgi V.Hadjidekov, MD, PhD

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Faculty of the Sofia University “St Kliment Onridski”**

According Varna Medical University Rector’s Order№ P-109-176/03.06.2020

In the concourse procedure for the position of “Associate Professor” in the domain of High education 7.Healthcare and sport, Professional direction7.1 Medicine, Specialty, “Diagnostic Imaging”, for the educational purpose of the profession of Radiographers at the Medical College of the Medical University – Varna, as announced in the Official Journal N 8 dated 28 Jan 2020, the only candidate presented is Dr Georgi Nikolaev Valchev PhD, Assistant Professor.

1. General data of the candidate:

Dr Valchev graduated at the Secondary school for foreign languages in Varna in 2006, and in 2012 – graduated in Medicine at the Medical University in Varna. In January 2018 He graduated as specialist

in Diagnostic Imaging, and in May same year he obtained PhD Degree for the thesis untitled "Classification and selection of imaging defined risk factors in neuroblastoma". He is assistant-professor for Radiographers' education at the Medical College of the Medical University since February 2013. Starting from December 2012 he is employed as radiologist at the Department of Diagnostic Imaging of the University Hospital "St. Marina". He followed several qualifying courses in imaging anatomy, neuroradiology and pediatric radiology, including those online of Radiopaedia site. As well he has been trained in cardiac MRI at the Vienna AKH – Hospital.

An educational full text electronic poster of him, published at the EPOS system at the ECR 2016 was awarded with a Certificate of Merite.

He has well professional qualification in Adope Photoshop.

Dr Valchev is certified to be fluent in English and German languages.

2. Research activities

Applying for the actual cited position, Dr Valchev presents 37 (thirty seven) full text papers. Nine out of all are publish in internationally indexed editions. A check up information issued by the Varna Medical University's library numbered 86/05.03.2020 certifies that those papers are publish in editions internationally indexed by Web of Science, Scopus, Google Scholar and eLibrary.ru, and, according the regulations of the Academics growth law, shows the partial weight of participation of the author. Same checkup contains information for papers in non-indexed, but scientifically reviewed editions. It has been shown that Dr Valchev fulfils the national minimal requirements for the academic position of associate-professor, he applies for. The candidate present as well a review of his PhD thesis untitled "Classification and selection of imaging defined risk factors in

neuroblastoma”, an own monograph book and a Chapter in a Manual. To the publishing activities of Dr Valchev could be added one participation in an international meeting and seven in national ones, all with abstracts published.

A major part of Dr Valchev papers are dedicated to the neuroradiology. His PhD thesis and several of the papers presented deal with the diagnostic imaging of neuroblastoma. The study on the contribution of the imaging in staging neuroblastoma, full text published at EPOS at the ECR is of value. The role of ultrasound, computed tomography, magnetic resonance, nuclear medicine is shown in. Published at the same place, an interesting study shows the prognostic risk factors defined by the imaging, as well data about this neoplasm survivals in Bulgaria.

Dr Valchev is involved in cardiac MRI. A paper with several co-authors discusses MRI sequences assuring morphological, functional or quantitative information.

Another Dr Valchev’s papers are in the field of liver pathology some out of them deal with interventions. The paper dedicated to the endovascular treatment of primary malignant lesion in the liver is an adequate presentation of the transarterial chemoembolization. The candidate has some investigations on interventional treatment of the mechanically induced jaundice. The review article, presenting the possible vascular, biliary, infectious or lymphoproliferative complications in children transplantation is interesting, summarizing that similar complications may occur in adults as well. Another investigations deals with radiofrequency ablation of liver metastasis, as well with different minimally invasive techniques.

Some other papers of Dr. Valchev apply to several contemporary technologies in imaging. He is an author of manual chapter upon transcranial and endovascular Doppler ultrasound. In this group of papers we can add those dedicated to the cardiac magnetic resonance imaging, to the tomosynthesis, to the

automated whole breast ultrasound (AWBU), capsule endoscopy, prenatal MRI in urinary anomalies and so on.

The published case reports are important as well. They highlight the field of interest and width of the clinical practice of the candidate. We have to notice here case report dedicated to the absence of inferior vena cava, of oligomeganephronia, of a thrombosis of the internal carotid artery during stent-assisted coiling of non-ruptured intracranial aneurysm, of the observed cortical laminar necrosis following cerebral aneurysm embolization.

Dr Valchev has published several educational review articles dedicated to different subjects, for example to pulmo-renal syndromes, to the acute epiglottitis, to the viral encephalitis, to the cystic masse in childhood, to the MRI in Alzheimer's disease, to the plasma exchange in nephrology, to the effects of the ionizing radiation on the human body along imaging and radiation therapy.

Dr. Valchev's papers are dedicated to actual subjects of the diagnostic imaging and have practical contributory importance. They cover a large spectrum of the specialty. Dr Valchev participates in three scientific projects – two out of them are financed by the “Foundation of Scientific projects” of the Bulgarian Ministry of Education and Science.

Dr Valchev papers are cited five times in indexed edition and two in non-indexed.

3. Teaching activities

An certificate issued by the Medical University of Varna confirm six years and four month Dr Valchev's teaching activities. He performs practical exercises with medical students, students in dental medicine and radiographers

No information about the annual teaching hours load.

Positive part of the education activities of Dr. Valchev is the students participation in some papers and research.

4. Papers contributions

Contribution in Dr Valchev papers are of scientific and practical. I accept the scope of the author's considerations, but I am considering that it is too long and contains some repetitions.

5. Critical notes

Some critical notes could be done concerning Dr. Valchev papers:

- No papers published in Impact Factor journal - IF according Scopus, Web of Science or Thomson Reuters
- Review and educational articles take a big part of the papers number instead of original ones.

6. Conclusion

Dr Georgi Nikolaev Valchev, PhD, assistant-professor, is an young educator, fully trained specialist, with large general culture and diversity of interests. The papers he has presented concern different aspects of the actual knowledge and practice of the diagnostic imaging, have scientific and practical contributions and cover the national minimal requirements for the academic position of Associate-Professor. His personal makings have to be

added to the positive sides of his papers. I give my positive vote for him and invite the Honorable Members of the Jury to vote positive too, to confer the academic position of Associate Professor to Dr Georgi Nikolaev Valchev, PhD, assistant-professor, for the educational purpose of the profession of Radiographers, at the Medical College of the Medical University – Varna

Reviewer:

Georgi Hadjidekov, PhD

Associate professor of Radiology



Sofia, 29 of July 2020