

STATEMENT

by Prof. Dr. Ara Garabed Kaprelyan, MD

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determined by Protocol № 6 of 11.03.2020. from a meeting of the Constitutional Court
or a member of the jury of a competition for the academic position "Associate Professor" in the
field of higher education 7. "Health and Sports", in a professional field

7.1. "Medicine" and scientific specialty "Medical radiology and radiology (including the use of
radioactive isotopes)"

for the needs of the Department of Imaging Diagnostics and Radiotherapy of the Ministry of
Finance of MU-Varna, announced in SG no. 8 / 28.01.2020

The review of the submitted documents shows that the announcement of the competition is
legal. The only candidate is Dr. Marin Boykov Penkov.

All the necessary documents have been prepared by the candidate, fully complying with the
requirements of the Regulations for application of the Law on the Development of Academic
Staff and the Regulations for Development of the Academic Staff of MU-Varna.

For the competition Dr. Penkov has presented correctly prepared lists of his scientific works and
participations with reports in scientific forums in the country and abroad, published monographs,
reference for the study load and others.

1. Biographical data and career development:

Dr. Marin Penkov was born on December 3, 1977. In 2003 he graduated from MU-Sofia. In the period 2004-2009 he worked consecutively as a resident radiologist at Lozenets University Hospital and Tokuda Hospital Sofia. Since July 1, 2009 he has been a resident radiologist at the MHAT "St. Iv. Rilski" Sofia, and since April 1, 2012 he has been the head of the same department. In 2009 he was awarded the specialty "Radiology" (Imaging Diagnostics). In 2011 he acquired a professional qualification and legal capacity "Health Manager" from the Faculty of Public Health of MU-Sofia with a diploma of master's degree.

Dr. Penkov was elected an assistant at the Department of Imaging Diagnostics at MU-Sofia in 2016. In 2018 he was awarded the educational and scientific degree "Doctor" in the scientific specialty "Social Medicine and Health Management" after defending a dissertation on the topic "Conceptual framework and model for organization and quality management in a medical institution" University Hospital St. Iv. Rilski "EAD Sofia according to ISO 9001: 2008" The candidate actively participates in a number of training courses and specializations in the country and abroad. Dr. Penkov has the necessary computer literacy and speaks German, English and Russian.

2. Research and applied research:

Dr. Penkov participated in the competition with a total of 93 scientific papers, divided thematically in different areas of imaging. In them he consistently and thoroughly poses and considers various problems of fundamental scientific and practical significance.

The criteria, specified in the Regulations of MU-Varna for the development of the academic staff, are fulfilled by Dr. Penkov as follows: 38 real printed publications in journals and collections (6 articles in foreign journals and 32 - in Bulgarian), 50 issues reports and scientific communications in national and international medical forums, printed in summary, 4 participations in monographs and textbooks and 1 abstract of dissertation.

Dr. Penkov's publications have a total Impact factor of 13,606: from full-text publications - 5,294. The papers were cited positively a total of 29 times: 18 in Bulgarian and 11 in foreign scientific journals.

The candidate is the Head of the European project BG16RFOP002-1.002-0044 for development for scientific activity in the field of neurocognitive science and the theoretical and practical bases of Neuroeconomics and Neuromarketing.

3. Teaching activity:

Dr. Penkov is a full-time assistant with four years of teaching experience. His teaching activities include full lecture courses in Imaging Diagnostics for students of Bulgarian and English language training. The candidate takes an active part in the development of materials related to classroom and extracurricular teaching activities, as well as in the periodic updating of the Standard in Imaging. Dr. Penkov conducts postgraduate qualification courses in Imaging Diagnostics and current colloquia of specialists in the same discipline.

According to the attached reference, certified by the University Hospital "St. Iv. Rilski "Sofia, Dr. Penkov has an average annual workload of 110 hours, and for 2019-2020 - 200 hours.

The candidate is a regular lecturer in the training panels included in the congress programs of BAR, the National Societies of Pediatrics, Gastroenterology, Neurology and Rheumatology, as well as the International Association of Surgeons, Gastroenterologists and Oncologists (IASGO). In 2016 he was a guest lecturer in a training course "Tumors", organized by the European Association of Neurosurgery (EANS). Dr. Penkov edits materials in the scientific journal of the professional guild and a number of other publications. He has an active profile in ResearchGate and GoogleScholar.

4. Main scientific and applied scientific contributions:

The scientific activity of Dr. Penkov is divided into the following main areas: endovascular approaches for the treatment of cerebrovascular diseases in neuroradiology; intraoperative brain mapping, pediatric neuroradiology; morphological and functional diagnostics of the urinary system (MR static and excretory urography).

Highly specialized research methods (virtual colonoscopy, CT / MR enterography, MR spectroscopy, MR perfusion, MR tractography, functional MR, MR cartilage mapping, MR quantitative evaluation of iron in the liver parenchyma, protocol, fetal) are of practical contribution. safety rules for MRI examination, diagnostic algorithms in DBS of patients with Parkinson's disease, patients with CNS tumors, children with craniosynostosis and preoperative preparation of patients for liver transplantation in a living donor), the collectively developed principles and foundations of Neuroeconomics and Behavioral Economics, as well as rules for good medical practice in imaging diagnostics.

The leading and original scientific contributions of Dr. Penkov are in the field of endovascular

approaches to treatment of cerebrovascular diseases. In this regard, the study of 251 patients with cerebral aneurysms treated with various endovascular techniques, in which very low postoperative mortality was achieved, has a significant theoretical and fundamentally applied contribution. The author's interests in the application of new diagnostic methods in neurological diseases, in theoretical and clinical aspects, are realized in the preoperative 18FDG PET / CT and MRI studies of 21 patients with drug-resistant epilepsy.

Of particular importance and important contributing theoretical-applied character are the publications dedicated to the transcatheter embolizations of cerebral aneurysms, carotid-cavernous and dural arterio-venous fistulas. In this regard, the described clinical cases of endovascular treatment of extremely rare mirror aneurysm of the spinal artery, successful embolization of post-traumatic carotid-cavernous fistula in a 27-year-old man, blister aneurysm of the internal carotid artery (especially dangerous clinical manifestation of vascular pathology) and carotid-cavernous fistula through the superior ophthalmic vein in a 52-year-old patient.

The several articles reflecting the in-depth interest of Dr. Penkov in the clinical application of brain mapping in patients with various structural lesions of the CNS (glial tumor, cortical dysplasia and AVM) are of practical application. The described rare cases in childhood of PRES, giant intracranial sacral aneurysm of a 6-year-old child and Rubinstein-Taby syndrome are of clinical interest and have a confirmatory practical contribution.

The problems of preoperative anatomical localization of important brain functions and pathological processes in the context of successful pediatric neurosurgery have been considered in many ways and comprehensively in a number of reports and publications. 5

clinical cases of isolated extramedullary localization in children with acute myeloid leukemia and acute lymphoid leukemia are presented. Clinical observations of successfully diagnosed complications of the rare multisystem neurocutaneous disease neurofibromatosis type 1 have been published. The case of a 5-year-old boy with achondroplasia manifested by high spinal stenosis due to disturbed ossification of the foramen magnum is confirmatory.

5. Public activity, scientific organizations and organizational skills:

Dr. Penkov is a member of four scientific medical societies: the Bulgarian Association of Radiology (BAR), the European Society of Radiology (ESR), the European Society of Neuroradiology (ESNR) and the European Society of Gastrointestinal and Abdominal Radiology (ESGAR). He is the founder and chairman of the Bulgarian Association of Neuroradiology, co-founder, member of the board and scientific secretary of the Bulgarian Association of Cardiothoracic Radiology, founder of the Bulgarian Society of Neurooncology and the Bulgarian Society of Endovascular Therapy. He is a member of the National Expert Board for Imaging Diagnostics.

The candidate holds a European Diploma in Neuroradiology (2015) and a European Diploma in Pediatric Neuroradiology (2019). He is the winner of the awards "Best Doctors" on Darik Radio (2011 and 2015) and "Doctor Who Bulgarians Trust" (2019).

6. Critical remarks:

I have none of these.

7. Conclusion:

Dr. Marin Penkov has a well-established reputation as a dedicated doctor, an established specialist with huge scientific potential and extensive clinical experience. The scientific production presented by him, with a contribution of theoretical and applied nature, fully meets the requirements of the Law and the Regulations for development of the academic staff of MU-Varna according to scientometric criteria.

All this gives me reason to give a positive opinion and propose to the esteemed members of the Scientific Jury Dr. Marin Penkov to take the academic position of "Associate Professor" in higher education 7. "Health and Sports" in professional field 7.1. "Medicine" and scientific specialty "Medical radiology and radiology (including the use of radioactive isotopes) for the needs of the Department of Imaging and Radiation Therapy of MU-Varna.



May 12, 2020

Reviewer: Prof. Dr. Ara Kaprelyan, MD

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