

DR. NIKOLAOS G. TSAMOPOULOS, MD, MSc, PhD

Academic Curriculum Vitae

Current Roles

Director, Interventional Neuroradiology Department,
Mediterraneo Hospital; Head, Acute Stroke Unit

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Professional Profile

Dr. Nikolaos G. Tsamopoulos is an interventional neuroradiologist, physician-scientist, and academic clinical leader with extensive expertise in acute stroke care, neurovascular intervention, artificial intelligence in medicine, operational medicine, telemedicine, and medical systems development. His career combines advanced clinical practice, translational research, technological innovation, military medical experience, and academic teaching. He is recognized for pioneering contributions in Greece and Europe in the fields of interventional neuroradiology, acute stroke systems of care, AI-enabled diagnosis and triage, MedEvac network design, and remote medical support in maritime and operational environments.

Education, Qualifications, and Appointments

Medical Degree: Università degli Studi di Roma "La Sapienza", Faculty of Medicine and Surgery, Rome, Italy.
Degree awarded 25 February 1998 (Degree No. 03078702).

Medical License: Prefecture of Piraeus, Directorate of Public Health, Greece. License No. Y2546, issued 25 January 1999.

Military Service: Hellenic Navy, 1999-2000. Served as Ensign, Auxiliary Medical Officer; Director of Medical Services; Head of Medical Unit and Field Surgery Team aboard amphibious landing ships.

Military Training: First-Class Diploma, Hellenic Naval Reserve Officers Academy; Diploma in Hyperbaric Medicine, Naval Hospital of Athens; Combat Diving Training, Underwater Demolition Teams Command (MYK).

Board Certification: Radiology Specialist, Greece. Certificate No. 4261, awarded 20 November 2006.

Advanced Fellowship: Senior Fellow in Interventional and Therapeutic Neuroradiology, Ospedale Niguarda Ca' Granda di Milano, Milan, Italy, 2007-2008.

International Diploma: International Diploma in Neurovascular Diseases, Paris Sud University and Mahidol University, approved by the Royal College of Radiologists.

PhD: Doctor of Philosophy (PhD) in Medicine, Medical School, National and Kapodistrian University of Athens, awarded 25 January 2011.

Interventional Radiology: Greek Diploma in Interventional Radiology, Ministry of Health, Directorate of Health and Welfare Professions, 2012; Ministry of Health certification in Interventional Radiology, Certificate No. Y7a/GP.104074, issued 7 January 2013.

MSc: Master Droit, Economie et Gestion, mention Management Sectoriel, Parcours Gestion et Droit de la Sante, awarded in 2022 under the auspices of the French Ministry of Education following an honorary scholarship.

Current Clinical Leadership: Director, Interventional Neuroradiology Department, Mediterraneo Hospital, Athens; Head, Acute Stroke Unit; Scientific Supervisor certified for neurovascular interventions of the Central Nervous System, including embolization of arteriovenous malformations and treatment of cerebral aneurysms, under Ministry of Health Decision No. Y4e/oik.48566 and Government Gazette No. 598/06-05-2010.

Current Academic / Research Roles: Project Coordinator in Health Care Research and Development, National Technical University of Athens (NTUA); Scientific Associate, Hygeia Diagnostic and Therapeutic Center of Athens; Scientific Associate, Neurosurgical Laboratory for Stem Cell Research, New York Grossman School of Medicine; Clinical Collaborator, Interventional Stroke Treatment Center, Aretaieio University Hospital, Athens.

International Clinical and Scientific Training

Since 2009, Dr. Tsamopoulos has undertaken advanced scientific and clinical training at major medical institutions and university hospitals in Greece and abroad, including IRCAD Training Center in Minimally Invasive Surgery (Strasbourg, France), Thoraxcentrum Erasmus Medical Center - IVUS Center of Excellence (Rotterdam, The Netherlands), Baylor College of Medicine and The Methodist Hospital (Houston, USA), Centre Hospitalier Sainte-Anne, Service d'Imagerie Morphologique et Fonctionnelle (Paris, France), and Universitatsspital Bern / Hopital Universitaire de Berne (Bern, Switzerland).

Academic Teaching and Educational Contribution

From 2008 to 2013, he served as Lecturer in the postgraduate program of the Medical School of the National and Kapodistrian University of Athens. Since 2017, he has participated in the educational activities of the Hellenic Stroke Organization (HSO). He contributed to the Hellenic Stroke Organization volume on stroke, authoring the chapter on post-interventional management after stroke, and contributed to the official national stroke guidelines of the same organization. In 2019, he also contributed to the book Intensive Care and Emergency Medicine, authoring the chapter on the protocol and criteria for the diagnosis and management of acute ischemic stroke.

Clinical Leadership and Fields of Interest

His principal clinical interests include the emergency diagnosis and treatment of acute ischemic and hemorrhagic stroke, vascular lesions of the brain and spinal cord, cerebral aneurysms, arteriovenous malformations, mechanical thrombectomy systems, and the organization and governance of Acute Stroke Units. At Mediterraneo Hospital, he leads a multidisciplinary team of physicians, nurses, and technology personnel and helped establish a model Stroke Unit and one of the first Mechanical Thrombectomy Centers in Greece, officially recognized by the Ministry of Health.

Pioneering Clinical and Technological Achievements

- In 2010, he performed the first endovascular procedure in Greece, and one of the first internationally of its kind, for the treatment of a previously embolized and recanalized giant brain aneurysm using an innovative device and technique.
- In 2010, together with the Neurosurgical Team at Mediterraneo Hospital, he carried out the first hybrid endovascular and neurosurgical operation in Greece for the treatment of a fusiform brain aneurysm.
- In 2023, together with his team, he introduced the Viz.ai artificial intelligence platform at Mediterraneo Hospital, reported as the first such implementation in Europe by his team for stroke triage and neurovascular lesion analysis.
- He has been described in the submitted profile materials as the first physician in Europe certified to use the Viz.ai platform in stroke care and the first physician worldwide to implement the StrokeFinder MD100 stroke detection system in a private hospital setting.

- In 2025, in collaboration with Nicolab and Mediterraneo Hospital, he developed the first AI-powered stroke network in Europe connecting mainland Greece with islands, enabling rapid diagnosis, treatment coordination, and aeromedical evacuation (MedEvac) for acute stroke patients.

Research Activity and Scientific Projects

From 2014 and for several years, he served as Project Coordinator of Health Care Research and Technical Development Projects at the National Technical University of Athens (NTUA), within the Group of Electrical and Computer Engineering and the Laboratory of Electronic Sensors. His work focused on neuroscience, biomedical engineering, sensor-based technologies, and clinical innovation in acute neurovascular care.

He has been approved as research-associated personnel by the Special Seven-Member Body of the Research Committee of ELKE of the National and Kapodistrian University of Athens, under Law 4957/2022, in the framework of the project Vascular and Interventional Radiology. His approved role includes clinical work in interventional neuroradiology through participation in the activities of the Interventional Stroke Treatment Center of Aretaieio University Hospital, where he remains active.

In 2016, he submitted a provisional patent application to the Industrial Property Organization concerning endovascular devices for cell therapy applications and presented an innovative scientific theory on the neurovascular inflammatory mechanism in glaucoma at international medical congresses.

In 2018, as Senior Research Team Member, he participated in the submission of an innovative proposal to the European Research Council (ERC) on photonic sensing of haemodynamic changes in the brain for the early detection of acute ischemic stroke.

International Scientific Networks and Collaborations

- In 2004, he was elected Senior Member of the World Federation of Interventional and Therapeutic Neuroradiology (WFTIN / WFITN, as stated in the provided profile materials).
- In 2014, he led and oversaw the design and implementation of the Memorandum of Understanding between Agia Sofia Children's Hospital, Sheba Medical Center in Israel, and the ELPIDA Association of Friends of Children with Cancer.
- Since 2017, he has served as Main Researcher and Local Coordinator in SITS (Safe Implementation of Treatments in Stroke), the global stroke registry under the auspices of the Karolinska Institute in Stockholm, Sweden.
- He maintains active academic and clinical collaborations with Hygeia Hospital, Aretaieio University Hospital, and the Neurosurgical Laboratory for Stem Cell Research at New York Grossman School of Medicine.

NATO, Telemedicine, and Maritime / Operational Medicine

Since 2019, Dr. Tsamopoulos has served as Subject Matter Expert (SME) and Medical Advisor in biomedical sciences, research, and technology at the NATO Maritime Interdiction Operational Training Centre (NMIOTC) at Souda Bay, Greece.

His contributions include the development of the resident course Medical Combat Care in Maritime Operations, the creation of a Telemedicine Support Training Program, the provision of specialized medical assistance concepts, and optimization of Tactical Evacuation (TACEVAC) time in naval operations.

He played a key role in the first international implementation during naval operations of a remote medical support and telecommunications platform selected as NASA's official communications platform and used by the International Space Station (ISS) for emergency response scenarios.

In recognition of these contributions, he was awarded the Naval Crest / Honorary Shield by the Commandant of NMIOTC in 2019.

Patents and Industrial Innovation

In collaboration with one of the world's largest maritime groups, Dr. Tsamopoulos contributed to the development of a carbon capture (CO₂) system for the maritime industry based on medical biotechnology. This work resulted in patent recognition and publication by the Korean Intellectual Property Office (KIPO) in 2024 and by the Norwegian Industrial Property Office (NIPO) in 2025.

Biographical Note

Born in Athens and raised in Piraeus, Dr. Tsamopoulos attended the Ionideios School of Piraeus and the Hellenic-French School Saint Paul du Pirée. He has described his father, Captain Georgios N. Tsamopoulos, as a formative influence who instilled discipline, persistence, and commitment to excellence. The operational experience of prolonged sea service, combat medical preparation, and special diving training in the Hellenic Navy shaped the resilience and decisiveness that later defined his clinical and scientific career. His work stands at the intersection of science, technology, education, and humanitarian medicine.

Professional Philosophy

Dr. Tsamopoulos' work is guided by the principles of innovation, excellence, and service. His personal motto, "There are no coincidences," reflects his commitment to scientific precision, disciplined effort, and continuous evolution in clinical practice, research, and medical leadership.