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**How to improve the management of Acute Ischemic Stroke by modern technologies, Artificial Intelligence and new treatment methods**

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Stroke remains one of the leading causes of death and disability in Europe. The European Stroke Action Plan (ESAP) defines four main targets for the years 2018 to 2030. Innovative technologies can be implemented for acute stroke patient management. Artificial intelligence (AI) and robotics are used increasingly often without the exception of medicine. Their implementation can be achieved in every level of stroke care. All steps of stroke health care processes are discussed in terms of how to improve them (including prehospital diagnosis, consultation, transfer of the patient, diagnosis, techniques of the treatment as well as rehabilitation and usage of AI). New ethical problems have also been discovered. Everything must be aligned to the concept of "time is brain".

**Biography**

Zeleňák Kamil is the Head of the Department of Radiology at the Jessenius Faculty of Medicine in Martin of Comenius University in Bratislava..He specialises in interventional neuroradiology and interventional radiology. He enthusiastically promotes the practical use of artificial intelligence in radiology and modern medicine. He graduated in his PhD in brain ischemic stroke prevention by carotid artery stenting from Comenius University, Bratislava - Slovakia, in 2009. He is a pioneer of interventional radiology in Slovakia. He was the first person to perform first carotid artery stenting in that country (2001) and the first endovascular treatment of the intracranial aneurysm (2003) in Slovakia. He was promoted to associate professor at the Palacky University Olomouc, Czech Republic, - January 2016, on the topic "Endovascular treatment of carotid artery aneurysms after subarachnoid bleeding." He has authored and co-authored over 227 publications and conference papers, including 4 books and 8 book chapters.

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