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# NeuroInterventional stroke management: Current status and future prospects

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Ischemic stroke is the fifth cause of death and the main cause of disability in the Western Countries. The incidence is estimated at around 680.000 cases per year in the US. The mortality rate ranges from 53 to 94%. The leading causes of ischemic strokes are cervical or intracranial vasculature atherosclerotic plaque thrombosis or cardiac/aortic embolism. Symptomatology generally has an abrupt onset. Of the patients affected by acute ischemic stroke, approximately 3–22% are candidates for endovascular therapy. The intravenous recombinant tissue plasminogen activator (r-tPA) administration for ischemic stroke management has resulted efficacious predominantly for small cerebral vessel occlusions. Conversely, endovascular therapies, including intra-arterial administration of thrombolytic agents or utilization of aspiration catheters and stent retrievers have shown to achieve higher recanalization rates in patients with large intracranial vessel occlusion. Recently several studies and trials have been published demonstrating the direct correlation between complete and prompt vessel recanalization and clinical outcomes.

## Biography

Francesco Massari MD, PhD, is an Interventional Neuroradiologist at the University of Massachusetts, MA, USA. He obtained his Medical Degree, PhD and Master Degree at the University of Rome "Tor Vergata", Italy. He completed two fellowship programs in Diagnostic and Interventional Neuroradiology, respectively at the Medical University of South Carolina, SC, the USA and the University of Massachusetts, MA, USA; where he received an advanced training in Brain and Spine Interventional Radiology. His research spans areas including the cerebrovascular pathology and spinal disease. He is Principal Investigator (PI) and Co-Investigator in several clinical and laboratory international trials.

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