



Thrombectomy with mechanical devices in acute stroke

Woong Yoon, MD

Department of Radiology, Chonnam National University Hospital

Mechanical thrombectomy with a stent-type thrombectomy device is increasingly used as first-line endovascular therapy for the treatment of acute ischemic stroke secondary to an intracranial large vessel occlusion. Randomized controlled trials and several case series have demonstrated the efficacy of stent-based thrombectomy (SBT) in the recanalization of occluded cerebral arteries. Since 2011, I have decided to perform SBT with a Solitaire stent (Covidien/ev3, Irvine, CA, USA) as a first-line revascularization approach in all acute stroke interventions based on my preliminary experience,

which showed better revascularization rates in patients receiving SBT than those receiving manual aspiration thrombectomy. Manual aspiration thrombectomy was attempted as a rescue approach, if SBT failed. In this presentation, I will talk about the clinical experience with the use of Solitaire stent for the treatment of acute ischemic stroke in 221 patients during 3-year time period (2011-2013). The rates of revascularization, clinical outcomes, and device-related or hemorrhagic complications in 221 patients will be presented and discussed.