Impact of Repeated Clot Retrieval Attempts on Outcomes of Successfully Treated Ischemic Stroke

Repeated clot retrieval attempts in patients with acute ischemic stroke (AIS) due to large vessel occlusion (AIS-LVO) could lead to unfavorable functional outcomes

AIS-LVO

retrieva

Unfavorable functional outcomes

Impact of emboli to new territory and infarct growth in unfavorable functional outcomes after mutiple clot retrieval attempts is not well understood

Multiple clot retrieval

attempts

Study question

Do emboli to new territory and infarct growth cause unfavorable outcomes in successfully recanalized patients with AIS-LVO with increasing number of clot retrieval attempts?



2016

419 Patients with AIS-LVO analyzed

Emboli to new territory occurrence

Number of clot retrieval attempts

Patients with AIS-LVO treated with mechanical

thrombectomy

Repetitions of clot retrieval attempts in patients with AIS can lead to unfavorable functional outcomes through increased emboli to new territory rates and infarct growth volumes, even after successful recanalization

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Outcomes measured



Infarct growth volume



Associations between clot retrieval attempts, emboli to new territory, infarct growth, and 3-month outcomes



