Editor’s column

309 Cerebral venous disorders: the path forward
K M Fargen, F Hui, J A Hirsch

Hemorrhagic stroke

310 Endovascular coil ing versus neurosurgical clipping for treatment of ruptured and unruptured intracranial aneurysms during pregnancy and postpartum period
A Carg, A Elmasniale, H Roeder, S Ortega-Gutiérrez

315 Treatment of fusiform aneurysms with a pipeline embolization device: a multicenter cohort study
M Tuston, H Kang, M Li, J Liu, Y Zhang, Y Zhang, J Huang, B Luo, J Liu, H Zheng, T Li, D Song, Y Zhao, S Guan, A Azmiyung, A Maimaini, Y Wang, W Feng, Y Wang, J Wan, G Mao, H Shi, X Zhang, Y Gu, Y Yang

321 Morphological characteristics associated with ruptured intracranial vertebral artery dissecting aneurysms
J Han, J Chen, X Tong, M Han, F Peng, H Niu, I Liu, F Liu, A Liu

325 Distal cerebral vasospasm treatment following aneurysmal subarachnoid hemorrhage using the Comaneci device: technical feasibility and single-center preliminary results
L Thiery, X Carle, B Testud, G Boulouis, P Haben, F Tradi, A Reyre, P Lehmann, P Dory-Lauret, J-P Stellmann, N Girard, H Brunel, J-F Hak

Ischemic stroke

330 Endovascular thrombectomy for anterior circulation stroke beyond 6 hours of onset in Sweden 2015 to 2020: rates and outcomes in a nationwide register-based study
T Ullberg, M von Euler, P Wester, F Amberg, B Norring, T Andersson, J Wassellius

336 Association between time to treatment and clinical outcomes in endovascular thrombectomy beyond 6 hours without advanced imaging selection
P S Dhilon, W Butt, A Podlasske, N McNamara, R Lenthall, S Nair, L Malik, P Bhalog, H L D Marklanda, O Spooner, K Krishnan, N Spring, A Mortimer, T C Booth, K Lobovits, P White, M A James, P Bath, R A Dience, T J England

343 Endovascular treatment of acute ischemic stroke in patients with pre-morbid disability: a meta-analysis
F Balá, B Beland, E Mistry, M A Abomeykn, M Goyal, A Ganesh

Effects of endovascular therapy for mild stroke due to proximal or M2 occlusions: meta-analysis
C-H Lin, J L Saver, B Ovbiagele, S-C Tang, M Lee, D S Liebeskind

Bifurcation occlusions and endovascular treatment outcome in acute ischemic stroke

Endovascular treatment for isolated posterior cerebral artery occlusion stroke in the MR CLEAN registry
J Brower, S Eggegen, M J J H Mulder, G J Lycklama a Nijeholt, A C G M van Es, A van der Lugh, D W J Dippel, C B L M Majoie, Y E B W E M Roos, J M Coutinho, B J Emmers, on behalf of the MR CLEAN Registry investigators

Hyperglycemic control in acute ischemic stroke patients undergoing endovascular treatment: post hoc analysis of the Stroke Hyperglycemia Insulin Network Effort trial
N K Rain, W Huang, B R French, F Siddiq, C R Gomez, A I Qureshi

New devices and techniques

375 Standard umbilical catheters used as diagnostic and neurointerventional guide catheters in the treatment of neonatal cerebrovascular malformations
A D Kappel, D B Orbach

MORE CONTENTS ➤
### Neuroimaging

**380** Prediction of cerebral aneurysm rupture using a point cloud neural network  
X Luo, J Wang, X Liang, L Yan, X Chen, J He, J Luo, B Zhao, G He, M Wang, Y Zhu

**387** Evaluation of time-resolved whole brain flat panel detector perfusion imaging using RAPID ANGIO in patients with acute stroke: comparison with CT perfusion imaging  
C C Kurmann, J Kaesmacher, D L Cooke, M Psychogios, J Weber, D K Lopes, G W Albers, P Mordasini

**393** Assessment of three MR perfusion software packages in predicting final infarct volume after mechanical thrombectomy  
A Bani-Sadr, T-H Cho, M Cappucci, M Hermier, R Ameli, A Filip, R Riva, L Deres, C De Bourguignon, J. Mechaoufi, O F Eker, N Nighoghossian, Y Berthezene

### Socioeconomics

**399** Recent trends in high-volume Medicare stroke thrombectomy provider characteristics  
K Jayaraman, S Santavicca, D R Hughes, J A Hirsch, R Duszar, Jr., A R Chatterjee

### Standards

**402** Antithrombotic therapies for neurointerventional surgery: a 2021 French comprehensive national survey  

### Technical video

**408** Transvenous Onyx embolization of a recurrent dural arteriovenous fistula through the deep venous system  
M Colassardo, V M Srinivasan, H Shalton, P Kan

### Letters

**409** Endovascular therapy might be a treatment option for mild stroke due to proximal occlusions but not M2 occlusions  
C-H Lin, J L Saver, M Lee

**409** Endovascular therapy may not be beneficial for patients with mild acute ischemic stroke compared to best medical management  
F Zheng, N von Spreckelsen, W Hu