Contents

Volume Issue 3 | JNIS March 2017

Editor’s column
219 Incremental progress
F C Albuquerque

Commentary
220 Proposal for an improved classification system for cavernous sinus dural arteriovenous fistula (CS-DAVF)
J Wenderoth

Ischemic stroke
225 Implications of limiting mechanical thrombectomy to patients with emergent large vessel occlusion meeting top tier evidence criteria

229 Comparison of outcome and interventional complication rate in patients with acute stroke treated with mechanical thrombectomy with and without bridging thrombolysis
R Weber, H Nordmeyer, J Hadisurya, M Heddier, M Stauder, P Stracke, K Berger, R Chapot

234 Lenticulostriate infarctions after successful mechanical thrombectomy in middle cerebral artery occlusion
J F Kleine, E Beller, C Zimmer, J Kaesmacher

240 ASPECTS discrepancies between CT and MR imaging: analysis and implications for triage protocols in acute ischemic stroke
F K Hu, N A Obuchowski, S Johns, G Toth, I Katzan, D Wisco, E Cheng-Chung, R Uchino, S-M Al, S Hussain

244 Rescue mechanical thrombectomy using a retrievable stent for thromboembolic occlusion occurring during coil embolization of ruptured intracranial aneurysms
J H Ahn, H S Jun, J H Song, B M Cho, H K Lee, B-C Kim, D-K Hyun, J B Chang

250 Remote aspiration thrombectomy in large vessel acute ischemic stroke
D C Haussen, M Boudjema, J A Grossberg, R G Nogueira

253 Active push deployment technique improves stent/vessel-wall interaction in endovascular treatment of acute stroke with stent retrievers
M Wiesmann, M-A Brockmann, S Heninger, M Müller, A Reich, O Nikoubashman

257 Experimental evaluation of stent retrievers’ mechanical properties and effectiveness
P Maich, F Jourdan, D Ambard, C Reynaud, K Lobotesis, M Sanchez, A Bonafé, V Costalat

Hemorrhagic stroke
264 Clinical outcome after surgical clipping or endovascular coiling for cerebral aneurysms: a pragmatic meta-analysis of randomized and non-randomized trials with short- and long-term follow-up
A F Delgado, T Anderson, A F Delgado

278 Larger size ratio associated with the rupture of very small (≤3 mm) anterior communicating artery aneurysms
T Xu, B Lm, S Luo, X Shao, N Xia, Y Zhang, H Xu, Y Yang, M Zhong, Q Zhae, B Zhao, W Chen

283 Use of flow diverters in the treatment of unruptured saccular aneurysms of the anterior cerebral artery
P Bhogal, R M Moreno, O Ganslandt, H Bäzner, H Herkes, M A Perez

Head and neck
290 Novel approaches to access and treatment of cavernous sinus dural arteriovenous fistula (CS-DAVF): case series and review of the literature
J Wenderoth
Neuroimaging

297  Subjective and objective evaluation of image quality in biplane cerebral digital subtraction angiography following significant acquisition dose reduction in a clinical setting
A R Honarmand, A Shaibani, T Pashaee, F H Syed, M C Hurley, C L Sammet, M B Potts, B S Jahromi, S A Ansari

302  Three-dimensional image fusion of CTA and angiography for real-time guidance during neuroradiological procedures
Q Zhang, Q Sun, Y Zhang, H Zhang, T Shan, J Han, W Pan, C Gu, R Xu

Basic science

307  Concomitant coiling reduces metalloproteinase levels in flow diverter-treated aneurysms but anti-inflammatory treatment has no effect
E Thielen, M McClure, A Rouchaud, Y-H Ding, D Dai, D Schoeder, J Gebrad, D F Kallmes, R Kadirvel

311  Flow diversion of bifurcation aneurysms is more effective when the jailed branch is occluded: an experimental study in a novel canine model
R Fahed, J C Gentric, I Salazkin, G Geovy, J Raymond, T E Darsaut

Standards

316  Initial hospital management of patients with emergent large vessel occlusion (ELVO): report of the standards and guidelines committee of the Society of NeuroInterventional Surgery

Socioeconomics

324  Medicare expenditures for elderly patients undergoing surgical clipping or endovascular intervention for unruptured cerebral aneurysms
K Bekelis, D Costello, Y Su, N Labropoulos, G Bovis, M T Lawton, T A MacKenzie

330  Developing a statewide protocol to ensure patients with suspected emergent large vessel occlusion are directly triaged in the field to a comprehensive stroke center: how we did it
M V Jayaraman, A Iqbal, B Silver, M S Siket, C Amedee, R A McTaggart, G Paolucci, J Rhodes, J Povin, M Tucker, N Alexander-Scott

Electronic pages

e9  Spontaneous subarachnoid hemorrhage due to ruptured cavernous internal carotid artery aneurysm after medical prolactinoma treatment
S S Khalsa, T C Hollow, R Shastry, J D Trobe, J J Gemmete, A S Pandey

e10  Trigeminocardiac reflex caused by selective angiography of the middle meningeal artery
T Tamura, D E Rex, M G Marosfoi, A S Puri, M J Gounis, A K Wakklo

e11  The transclival artery: a variant persistent carotid–basilar arterial anastomosis not previously reported
J D Karkland, B C Dahlin, W T O’Brien

e12  Transvenous ethanol sclerotherapy of feeding arteries for treatment of a dural arteriovenous fistula
M D Alexander, V Hallbach, A Nicholson, F Settecase, R J Darflinger, M R Amans