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 Wendeoth

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 Hua, N A Obuchowski, S John, G Toth, I Katzane, D Wisot, E Cheng-Ching, K Uchino, S-M Lu, 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 Boudima, J A GROSSBERG, R G Noguera

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

257 Experimental evaluation of stent retrievers’ mechanical properties and effectiveness
P Machi, F Jourdan, D Ambard, C Reynaud, K Lobotesi, 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 Lin, S Luo, X Shao, N Xia, Y Zhang, H Xu, Y Yang, M Zhong, Q Zhuge, 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 Bämter, H Henkes, 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 Wendeoth

295 Changes to
R Weber, H Nordmeyer, J Hadisurya, M Heddier, M Stauder, P Stracke, K Berger, R Chapot

298 OPEN ACCESS

257 OPEN ACCESS

240 OPEN ACCESS

229 OPEN ACCESS

225 OPEN ACCESS

219 OPEN ACCESS

215 OPEN ACCESS

210 OPEN ACCESS

205 OPEN ACCESS

200 OPEN ACCESS

195 OPEN ACCESS

190 OPEN ACCESS

185 OPEN ACCESS

180 OPEN ACCESS

175 OPEN ACCESS

170 OPEN ACCESS

165 OPEN ACCESS

160 OPEN ACCESS

155 OPEN ACCESS

150 OPEN ACCESS

145 OPEN ACCESS

140 OPEN ACCESS

135 OPEN ACCESS

130 OPEN ACCESS

125 OPEN ACCESS

120 OPEN ACCESS

115 OPEN ACCESS

110 OPEN ACCESS

105 OPEN ACCESS

100 OPEN ACCESS

95 OPEN ACCESS

90 OPEN ACCESS

85 OPEN ACCESS

80 OPEN ACCESS

75 OPEN ACCESS

70 OPEN ACCESS

65 OPEN ACCESS

60 OPEN ACCESS

55 OPEN ACCESS

50 OPEN ACCESS

45 OPEN ACCESS

40 OPEN ACCESS

35 OPEN ACCESS

30 OPEN ACCESS

25 OPEN ACCESS

20 OPEN ACCESS

15 OPEN ACCESS

10 OPEN ACCESS

5 OPEN ACCESS

0 OPEN ACCESS

More CONTENTS ➤
### 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 I 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 Schroeder, J Gembal, D F Kallmes, R Kadriov

**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 Gevry, 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 Coutlieh, Y Su, N Labropoulos, G Bovi, 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 Shastri, J D Trobe, J J Gemmete, A S Pande

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

**e11** The transclival artery: a variant persistent carotid–basilar arterial anastomosis not previously reported  
J D Kirkland, 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 Halbach, A Nicholson, F Settecase, R J Darlanger, M R Amans