Editor’s column
111 New online tools to speed-up training of neurointerventionalists: an example in Central Asia
J Fechter, A Sheleko

Commentary
113 Focused update to guidelines for endovascular therapy for emergent large vessel occlusion: large core and basilar artery occlusion patients
S W Hets, F Al-Mufli, G Dalmas, J T Frij, J Mocco, M V Jayaraman

Ischemic stroke
115 Rescue intracranial permanent stenting for refractory occlusion following thrombectomy: a propensity matched analysis
H Iregen, C Danganzo, B M Hassen, J-F Hak, B Gory, J Ogoural, K Premat, G Marriot, B Kerleven, F Zhu, G Bellanger, P B Sporns, G Charbonn!!, G Forestier, J Caffrell, C Fauch~e, F Clan~an, K Janet, B Laperge, G Bouluis, for the ETIS registry collaborators and the JENI research collaborative

A 124 propensity score-matched comparative study of balloon guide catheters versus conventional guide catheters for concurrent mechanical thrombectomy with carotid stenting in tandem strokes: comparison of first pass effect, symptomatic intracranial hemorrhage, and 90-day functional outcomes
A A Baig, M Wajas, R C Turner, C C Kuo, B M Donnelly, P M R Lai, K P Raygor, M Boulalama, J Lim, J Neumaier BS, J M Cappuzzo, J M Davies, K V Snyder, A H Siddiqui, E I Levy

Neurophil activation in patients treated with endovascular therapy is associated with unfavorable outcomes and mitigated by intravenous thrombolysis
B Maier, L Di Meglio, J-P Desilles, M Solo Nomenjanahary, F Devoluy, M Kyehng, P Boursin, V Olivier, S Dupont, J T Rambaud, M Hamdani, J Labrousse, R Blanc, M Piotin, J-M Halimi, M Alazigh, B Ho-Tin-Noe, on behalf of the NEUTROSTROKE investigators

Cost-utility of direct transfer to angiography suite (DTAS) bypassing conventional imaging for patients with acute ischemic stroke in Spain: results from the ANGIOCAT trial
M Requena, H Vanden Baviere, S Verma, C Cerris, T Kobhuis, A Tomassello, C A Molina, M Vibo

Influence of vascular imaging acquisition at local stroke centers on workflows in the drip-n-ship model: a RACECAT post hoc analysis

Variation in US acute ischemic stroke treatment by hospital regions: limited endovascular access despite evidence

Optimized density and locations of stroke centers for improved cost effectiveness of mechanical thrombectomy in patients with acute stroke
N Enaab Vogel, P Wester, T Andersson Granberg, L A Levy

Effects of intravenous thrombolysis on stent retriever and aspiration thrombectomy outcomes: a systematic review and meta-analysis of the randomized controlled trials
C Bilgin, H Tolfa, S Chozy, H Kobreisi, A Hassankhani, Y C Senol, S Ans, R Kadirvel, D K Kalines

Hemorrhagic stroke
171 Short- versus long-term Dual AntiPlatelet Therapy for Stent-Assisted treatment of Cerebral aneurysm (DAPTS ACE): a multicenter, open-label, randomized clinical trial
T Ozaki, H Yamagami, M Morrow, T Hatano, H Oishi, K Haraguchi, Y Zoey, H Mori, K Iwata, M Marumo, J Kariya, M Masayumi, T Kasow, M Hayakawa, C Saito, M Miyamoto, K Kitawaga, T Daimon, T Kagamura, N Saito

 MORE CONTENTS  

143

151

156

163

MORE CONTENTS
New devices and techniques

177 Computer-assisted microcatheter shaping for intracranial aneurysm embolization: evaluation of safety and efficacy in a multicenter randomized controlled trial
H Yang, W Ni, L Xu, J Geng, X He, H Ba, J Yu, L Qin, Y Yin, Y Huang, H Zhang, Y Gu

183 Anticoagulation helps shrink giant venous lakes and arteriovenous fistulas in dural sinus malformation
G Saliou, K Deiva, M A Möhlenbruch, B Lubicz

187 Mechanical thrombectomy with a balloon-guide catheter: sheathless transradial versus transfemoral approach
M Waqas, A Monteiro, J M Cappuzzo, M D Knk, F Almayman, S B Housey, J Lim, R H Dossani, K V Snyder, A H Siddiqui, J M Davies, E I Levy

Socioeconomics

209 National Institutes of Health grant funding for cerebrovascular diseases
H Kobeissi, M S Jabal, S Ghozy, S Arul, R M Naylor, R Kadirvel, W Brinjikji, D F Kallmes

Case report

213 The reversed umbrella: displacement of a Contour device into an MCA aneurysm 18 months after treatment
G Bellanger, J Darcourt, A-C Januel, C Cognard

Technical video

217 Bailout endovascular techniques applied in a complicated basilar thrombectomy case
A Ali, M Shapiro, E Nossek, R Esparza, V Narayan, V Sharashidze, E Raz

Neuroimaging

192 Endovascular intervention for the treatment of epistaxis: cone beam CT review of anatomy, collateral, and treatment implications/efficacy
M Hoover, R Berwanger, J A Scott, A DaNardo, K Amuluru, T Payner, C Kublin, E Raz, D Gibson, D H Sahlein

197 Deep learning-based cerebral aneurysm segmentation and morphological analysis with three-dimensional rotational angiography
H Nishi, N M Cancelliere, A Rustici, G Charbonnier, V Chan, J Spears, T R Marotta, V Mendes Pereira

204 Hemodynamic assessment for intracranial atherosclerosis from angiographic images: a clinical validation study
P Yang, S Wan, J Wang, Y Hu, N Ma, X Wang, Y Zhang, L Zhang, X Zhu, F Shen, Q Zheng, M Wang, X Leng, J Fiebler, A H Siddiqui, Z Mac, J Xiang, J Liu

Letter

218 Correspondence on “ChatGPT in nuclear medicine education” by Currie and Barry
A Kleebyooy, V Wimonseke