Contents

Volume 9 Issue 8 | JNIS August 2017

Editor’s column
717 Practice makes perfect: establishing reasonable minimum thrombectomy volume requirements for stroke centers
K M Fargen, D J Fiorella, J Mocco

Commentary
720 Patients, not pictures: why complete occlusion may be a complete disaster
D F Kallmes, D Fiorella, W Benitighi, C P Derdeyn

Ischemic stroke
722 A population-based incidence of acute large vessel occlusions and thrombectomy eligible patients indicates significant potential for growth of endovascular stroke therapy in the USA
A T Rai, A E Seldon, S Boo, P S Linde, J R Domico, A R Tintarev, N Lucke-Wold, J S Carpenter

727 Endovascular treatment of acute ischemic stroke in nonagenarians compared with younger patients in a multicenter cohort
M A Khan, G L Baird, D Miller, A Patel, S Tsokhon, S Yagihi, A Pur, M Jayaanman, N Herrenger, B Silver

732 Mechanical thrombectomy for pediatric acute ischemic stroke: review of the literature
S Satti, J Chen, T Sivasapatham, A Jayaanman, J Ozbak

738 Factors associated with perforator stroke after selective basilar artery angioplasty or stenting
B Jia, D S Liebeskind, N Ma, F Gao, D Mo, G Luo, X Li, X Sui, G Peng, Z Niao

743 A comparison of acute vascular damage caused by ADAPT versus a stent retriever device after thrombectomy in acute ischemic stroke: a histological and ultrastructural study in an animal model
S Peschlo, F Diana, J Berge, P Missori

750 Long term durability and outcomes of carotid stenting and carotid endarterectomy
J-M Jung, J-Y Choi, H J Kim, S-I Suh, W-K Seo

Hemorrhagic stroke
756 Is intensive care monitoring necessary after coil embolization of unruptured intracranial aneurysms?
W R Stelter, J Grazadez, Y Saadeh, T J Wilson, W N Al-Holou, N Chaudhary, B G Thompson, A S Pandey, J J Genmete

761 Safety and effectiveness of microsurgical clipping, endovascular coiling, and stent assisted coiling for unruptured anterior communicating artery aneurysms: a systematic analysis of observational studies
A H O’Neill, R V Chandra, I T Lai

New devices
766 Use of a pressure sensing sheath: comparison with standard means of blood pressure monitoring in catheterization procedures

772 Periprocedural outcomes and early safety with the use of the Pipeline Flex Embolization Device with Shield Technology for unruptured intracranial aneurysms: preliminary results from a prospective clinical study

Basic science
777 Computational fluid dynamics of cerebral aneurysm coiling using high-resolution and high-energy synchrotron X-ray microtomography: comparison with the homogeneous porous medium approach
M R Levin, M C Barbou, S R du Roscoat, C Gendreau, V K Chivakula, P M McGrath, J D Nerva, R P Morton, L J Kim, A Aliseda

783 Concomitant aneurysm detection in an intracranial dolichoectasia mouse model using a MicroFil polymer perfusion technique
Y-Q Zhu, D-Y Dai, H-X Xing, Y-H Ding, R Kadirvel, D F Kallmes

More contents »
### Tumor embolization

787 3D-guided direct puncture therapeutic embolization of intracranial tumors  
J Caroff, N Benachour, L Ikka, J Nevoaux, F Parker, V Da Ros, C Mihaltea, M Iacobucci, J Moret, L Spelle

### Clinical neurology

792 Efficacy of a two-test protocol for achieving a therapeutic response to clopidogrel prior to elective endovascular intracranial aneurysm treatment and an 'induced' postoperative hyper-response  
Y Kayan, J E Delgado Almandoz, J F Fease, A M Milner, J M Scholz, M Mulder

### Spine

797 Retrospective review of percutaneous synovial cyst ruptures: increased thickness of the T2 hypointense rim on post-rupture MRI may be associated with need for subsequent surgery  
B Y M Kwan, F Salehi, S Jia, S McGregor, N Duggal, D Pelz, M Sharma

### Standards

801 Prehospital care delivery and triage of stroke with emergent large vessel occlusion (ELVO): report of the Standards and Guidelines Committee of the Society of Neurointerventional Surgery  

### Electronic pages

e29 Endovascular interventions for acute stroke: past practice and current research  
J Raymond, J Ghostine, N Khoury, D Roy, T E Darsaut

e30 Basilar stroke from a persistent hypoglossal artery  
A P See, J F Baranoski, B C Flores, A Ducruet, F C Albuquerque

e31 Intercostal artery pseudoaneurysm with spontaneous resolution in the setting of an artery of Adamkiewicz  
A Agarwal, Y Weerakkody, M Marshall, T Singh

e32 Novel approach for independent control of brain hypothermia and systemic normothermia: cerebral selective deep hypothermia for refractory cardiac arrest  
C-H Wang, Y-T Lin, H-W Chou, Y-C Wang, J J Hwang, J R Gilbert, Y-S Chen

e33 Stentriever thrombectomy with distal protection device for carotid free floating thrombus: a technical case report  
S Giragani, A Balani, V Agrawal