## Contents

### Editor’s column

813 Neurointervention: a call to science  
*M J Gounis*

### Commentary

815 Direct to embolectomy without IV tPA: the stage is set for a randomized controlled trial  
*R V Chandra, T M Leslie-Mazue, B P Mehta, J A Hirsch*

### Ischemic stroke

817 Acute Recanalization of Thrombo-Embolic Ischemic Stroke with pRESET (ARIESp): the impact of occlusion time on clinical outcome of directly admitted and transferred patients  
*S Prothmann, B J Schwoeger, A S Gersing, W Reith, T Niederstadt, A Felber, W Kurre*

823 Impact of ASPECT scores and infarct distribution on outcomes among patients undergoing thrombectomy for acute ischemic stroke with the ADAPT technique  
*J P Hungerford, M Hyer, A S Turk, R D Turner, M I Chaushy, K M Fargen, A M Spiotta*

830 Thrombectomy in acute ischemic stroke: estimations of increasing demands  
*A Kuntz Sidekspira, T Anderson, N Ahmed, N Wahlgren, M Kaiser*

834 Predictors of false-positive stroke thrombectomy transfers  
*J Yi, D Zielinswki, B Ouyang, J Connors, R Dafer, M Chen*

837 The association between carotid intraplaque hemorrhage and outcomes of carotid stenting: a systematic review and meta-analysis  
*W Bronklo, P T Lehman, J Huston, H H Alkadad, G Lanzino, H J Clotz, D F Kalmanes*

843 Interaction between the stent strut and thrombus characterized by contrast-enhanced high-resolution cone beam CT during deployment of the Solitaire stent retriever  
*T Tsumoto, Y Tsuruoka, S Tokunaga*

### New devices

849 Canadian Registry of LIVS Jr for Treatment of Intracranial Aneurysms (CaRLA)  

854 Endovascular treatment of complex intracranial aneurysms using Acandis Acclino stents  
*B Grellog, M Schlunz-Hendann, B Grellog, K Melber*

### Head and neck

860 Endovascular treatment of head and neck arteriovenous malformations: long-term angiographic and quality of life results  
*M Melia, D Grieb, B Grellog, K Melber, C Jacobs, M Hechtner, T Schmiz, M Schlunz-Hendann, H Lastewianna, F Bressl*

### Clinical neurology

867 Dural sinus stenting for idiopathic intracranial hypertension: factors associated with hemodynamic failure and management with extended stenting  
*D A Kampe, J Scinfeld, X Huang, Q Mei, D E Case, C D Roark, P S Subramaniam, K E Lint, V S Pelak, J L Bennett*

### Basic science

875 Verapamil eluting stents as a possible treatment for vasospasm after subarachnoid hemorrhage  
*P Bhambri, A Sarri, J H Wong, U Sundararaj, A P Mitha*

880 Fistulous-type vein of Galen malformation phantom model for endovascular training and research  
*M Melia, K Melber, D Grieb, C Jacobs, H Lastewianna, F Bressl*

### Neuroimaging

887 Time-resolved 3D rotational angiography: display of detailed neurovascular anatomy in patients with intracranial vascular malformations  
*S Lescher, S Gehrisch, S Klein, J Berkefeld*
Pediatric neurointervention: collimation on radiation exposure-associated lifetime excess tumor risk  
K Chen, S Paramasivam, A Berenstein

Sacroplasty procedural extravasation with high viscosity bone cement: comparing the intraoperative long-axis versus short-axis techniques in osteoporotic cadavers  
J W Miller, A Diani, S Docsa, K Ashton, M Sciamanna

Armband activity monitor data do not correlate with reported pain scores in patients receiving vertebroplasty  
J G Peacock, R L Vine, J S McDonald, P J Novotny, D F Kallmes

Integrated live biplane fluoroscopic and cone-beam CT-guided external ventricular drain placement in the neurointerventional suite  
A H Y Chiu, T R Marenz, J Spears

Renal cell carcinoma metastasis involving vertebral hemangioma: dual percutaneous treatment by navigational bipolar radiofrequency ablation and high viscosity cement vertebroplasty  
J-B Zerlauth, R Meuli, V Dunet

A case of right middle cerebral artery ‘tendonectomy’ following mitral valve replacement surgery  
M C Thomas, J E Delgado Almandoz, A J Todd, M L Young, J L Fess, J M Scholz, A M Milner, M Mulder, Y Kayan

Rete mirabile associated with pial arteriovenous fistula: imaging features with literature review  
P K Mondel, R Saraf, U S Limaye