## Contents

### Editor’s column

**181** The tribulations of stroke trials  
F C Albuquerque, D Forella, J A Hirsch, C Prestigiacomo, R W Tarr

### Hemorrhagic stroke

**184** Development, clinical presentation and endovascular management of congenital intracranial pial arteriovenous fistulas  
S Paramasivam, N Tomai, Y Niimi, A Berenstein

**191** Angioarchitectural features associated with hemorrhagic presentation in pediatric cerebral arteriovenous malformations  

**196** Acute embolization of ruptured brain arteriovenous malformations  
A B Stener, W O Bank, R A Armonda, A-H Liu, D W Herzig, R S Bell

### Ischemic stroke

**217** Incomplete mechanical recanalization of middle cerebral artery occlusions facilitates endogenous recanalization within 5 h  
Y Loh, Z Shi, D Liebeskind, R Jahan, N Gonzalez, P M Vespa, S Starkman, J L Saver, S Tateshima, F Vinuela, G Duckwiler

**221** Mechanical thrombectomy as the primary treatment for acute basilar artery occlusion: experience from 5 years of practice  
T Andersson, A K Söderqvist, M Söderman, S Holmin, N Wahlgren, M Kajser

**226** Adjunctive use of eptifibatide for complication management during elective neuroendovascular procedures  
T M Damont, P Kan, K V Snyder, L N Hopkins, A H Siddiqi, E I Levy

### New devices

**237** Immediate procedural outcomes in 35 consecutive pipeline embolization cases: a single-center, single-user experience  
G P Colly, L-M Lin, J F Gomez, A R Paud, J Huang, R J Tamargo, A L Coon

### Neuroimaging

**253** A carving method to determine an optimal working projection using three-dimensional volume rendering digital subtraction angiography in coil embolization of cerebral aneurysms  
K Kikutawa, T Sorimachi, Y Ito, Y Fujii

---

**Advertisement**: This article has been chosen by the Editor to be of special interest or importance and is freely available online.
Head and neck
258 CT-guided cryoablation for palliation of secondary trigeminal neuralgia from head and neck malignancy
S A Dar, Z Love, J D Prologo, D P Hsu

Socioeconomics
264 Impact of integrated cerebrovascular program on outcomes in patients with intracranial aneurysms
V Krishna, K Walsh, R D Turner, J Chalela, A Turk, S J Patel

Electronic pages
e11 Vessel occlusion using a single long oversized coil in vertebral artery dissection: a technical note
M Grigoryan, S M Cordina, R Khatri, A E Hassan, G J Rodriguez

e12 Postpartum cerebral angiopathy treated with intra-arterial nicardipine and intravenous immunoglobulin
E A Samaniego, G Dabus, G M Generoso, F Tari-Capone, K Fuentes, I Linfante

e13 Surgical access on the superior ophthalmic vein to the cavernous sinus dural fistula for embolization
C Jiang, X Lv, Y Li, Z Wu, J Shi

e14 Pharyngo-occipital artery variant arising from the internal carotid artery impacting surgical technique during carotid endarterectomy
R B Graham, P A Sugrue, R J Rahme, H H Banjer, B R Bendok

e15 Endovascular recanalization for chronic symptomatic middle cerebral artery total occlusion
N Ma, D-P Mo, F Gao, Z-R Miao