



Cover image: Flow diversion to treat aneurysms: the free segment of stent.

Editor
Robert W Tarr (USA)

Associate Editors
Felipe Albuquerque (USA)
David Fiorella (USA)
Joshua Hirsch (USA)
Charles Prestigiacomo (USA)
Osama Zaidat (USA)

Assistant Editor, Point-Counterpoint Section
Kristine Blackham (USA)

Assistant Editor, Book Review Section
Albert Yoo (USA)

SNIS Executive Director
Marie Williams, CAE

Editorial Office
Journal of NeuroInterventional Surgery BMJ Publishing Group Ltd
BMA House
Tavistock Square
London, WC1H 9JR, UK

T: +44 (0)20 7383 6170
F: +44 (0)20 7383 6668
E: info.jnis@bmjgroup.com

Guidelines for authors and reviewers
Full instructions are available online at <http://JNIS.bmj.com/fora>. Articles must be submitted electronically <http://mc.manuscriptcentral.com/jnis>. Authors retain copyright but are required to grant JNIS an exclusive licence to publish <http://JNIS.bmj.com/fora/licence.dtl>

ISSN: 1759-8478 (print)
ISSN: 1759-8486 (online)

Disclaimer: While every effort is made by the publishers and editorial board to see that no inaccurate or misleading data, opinions, or statements appear in this Journal, they wish to make it clear that the data and opinions appearing in the articles and advertisements herein are the responsibility of the contributor or advertiser concerned.

Accordingly, the publishers and the Society of NeuroInterventional Surgery, the editorial committee and their respective employees, officers and agents, accept no liability whatsoever for the consequences of any such inaccurate or misleading data, opinion or statement. While every effort is made to ensure that drug doses and other quantities are presented accurately, readers are advised that new methods and techniques involving drug usage, described within this Journal, should only be followed in conjunction with the drug manufacturer's own published literature.

Copyright: © 2013 Society of NeuroInterventional Surgery. All rights reserved; no part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise without prior permission.

Journal of NeuroInterventional Surgery is published by BMJ Publishing Group Ltd, typeset by Techset, India and printed in the UK.

Journal of NeuroInterventional Surgery (ISSN 1759-8478) is published six times a year by BMJ Publishing Group and is distributed in the USA by Air Business Ltd. Periodicals postage paid at Jamaica NY 11431. POSTMASTER: send address changes to Journal of NeuroInterventional Surgery, Air Business Ltd, c/o Worldnet Shipping Inc., 156-15, 146th Avenue, 2nd Floor, Jamaica, NY 11434, USA.

Editorials

387 Randomized clinical trials: the double edged sword
J Mocco, C O'Kelly, A Arthur, P M Meyers, J A Hirsch, H H Woo, P A Rasmussen, F C Albuquerque, A Turk, R Tarr, D Fiorella

391 'Time' for success
O O Zaidat, M A Lazzaro, R Gupta, P A Rasmussen, D F Frei, M Goyal

393 Stroke outcome measures: a tale of two trials
P A Rasmussen

Commentary

395 Sacroplasty: beyond the beginning
J A Hirsch, J D Barr, G H Zoarski

Standards

396 Reporting standards for endovascular chemotherapy of head, neck and CNS tumors
J F Fraser, M S Hussain, C Eskey, T Abruzzo, K Bulsara, J English, K Blackham, H M Do, C Prestigiacomo, M V Jayaraman, A Paisalides, M Kelly, J L Sunshine, P Meyers, on behalf of the Society for NeuroInterventional Surgery

Hemorrhagic stroke

400 Endovascular therapy of internal carotid artery bifurcation aneurysms
H Oishi, M Yamamoto, S Nonaka, H Arai

405 The safety of anticoagulation in patients with intracranial aneurysms
N Tarlov, A M Norbash, T N Nguyen

410 Epidemiology of death from aneurysmal subarachnoid hemorrhage in New Mexico
P Kaloostian, F Westhout, C L Taylor

Ischemic stroke

413 Cerebral vasospasm following tumor resection
N M Alotaibi, G Lanzino

419 Current differential diagnoses and treatment options of vascular occlusions presenting as bilateral thalamic infarcts: a review of the literature
N Agarwal, A Tolia, D R Hansberry, E J Duffis, J C Barrese, C D Gandhi, C J Prestigiacomo

426 Forced suction thrombectomy after carotid stenting in patients with massive thrombus and acute extracranial internal carotid artery occlusion
S B Hwang, H S Kwak, G-H Chung

430 Endovascular therapy yields significantly superior outcomes for large vessel occlusions compared with intravenous thrombolysis: is it time to randomize?
A T Rai, J S Carpenter, K Raghuram, T D Roberts, D Rodgers, G R Hobbs

435 Long-term outcome of drug-eluting stenting for stenoses of the intracranial vertebrobasilar artery and vertebral ostium
H Lu, P Zheng, W Zhang

440 Emergent stent-assisted angioplasty of extracranial internal carotid artery and intracranial stent-based thrombectomy in acute tandem occlusive disease: technical considerations
J E Cohen, M Gomori, G Rajz, S Moscovici, R R Leker, S Rosenberg, E Itshayek

447 De novo pseudoaneurysm formation after angioplasty and stenting of posterior circulation intracranial atherosclerotic disease: mechanism, characterization with intravascular ultrasound and management considerations
G Dabus, I Linfante, E A Samaniego

New devices

452 Flow diversion to treat aneurysms: the free segment of stent
T E Darsaut, F Bing, A Makoyeva, G Gevry, I Salazkin, J Raymond

458 Venous sinus manometry and intervention using the PrimeWire Prestige pressure guidewire: technique and initial experience
D K Lopes, A K Johnson, L A Tan

Scan here to listen to a podcast with Orlando Ortiz on this issue's Editor's Choice article

MORE CONTENTS ►



This article has been chosen by the Editor to be of special interest or importance and is freely available online.



This article has been made freely available online under the BMJ Journals Open Access scheme. See <http://jnis.bmj.com/site/about/guidelines.xhtml#open>



This journal is a member of and subscribes to the principles of the Committee on Publication Ethics

www.publicationethics.org.uk



Receive regular table of contents by email. Register using this QR code.



Spine

- 461** Multicenter study to assess the efficacy and safety of sacroplasty in patients with osteoporotic sacral insufficiency fractures or pathologic sacral lesions
K Kortman, O Ortiz, T Miller, A Brook, S Tutton, J Mathis, B Georgy
- 467** Analysis of utilization patterns of vertebroplasty and kyphoplasty in the Medicare population
L Manchikanti, V Pampati, J A Hirsch

Basic science

- 473** Overexpression of matrix metalloproteinase-9 is correlated with carotid intraplaque hemorrhage in a swine model
X-B Jiang, J-S Wang, D-H Liu, W-S Yuan, Z-S Shi

Neuroimaging

- 478** Serial angiographic appearance of segmental arterial mediolysis manifesting as vertebral, internal mammary and intra-abdominal visceral artery aneurysms in a patient presenting with subarachnoid hemorrhage and review of the literature
D L Cooke, K M Meisel, W T Kim, C E Stout, V V Halbach, C F Dowd, R T Higashida

Clinical neurology

- 483** Venous sinus stenting for idiopathic intracranial hypertension: a review of the literature
R C Puffer, W Mustafa, G Lanzino
- 487** Bilateral inferior petrosal sinus sampling with desmopressin
A R Deipolyi, J A Hirsch, R Oklu

Open surgery

- 489** Combined surgical and endovascular treatment of complex cerebrovascular diseases in the hybrid operating room
Y Murayama, H Arakawa, T Ishibashi, D Kawamura, M Ebara, K Irie, H Takao, S Ikeuchi, T Ogawa, M Kato, I Kajiwara, S Nishimura, T Abe

Head and neck

- 494** Fluoroscopic exposure during percutaneous balloon compression of the Gasserian ganglion
P Fransen

Socioeconomics

- 497** Enhanced staff communication and reduced near-miss errors with a neurointerventional procedural checklist
K M Fargen, G J Velat, M F Lawson, C S Firment, J Mocco, B L Hohl

Electronic pages

- e27** Caution during use of desmopressin in IPSS
F P Giraldi, A B Federici, F Cavagnini
- e28** Caution during use of desmopressin in IPSS
A R Deipolyi, J A Hirsch, R Oklu
- e29** Novel use of the pipeline embolization device for reperfusion of the middle cerebral artery post surgical aneurysm clipping
E M Nyberg, M I Chaudry, A S Turk, R D Turner
- e30** Report of two cases of a rare cause of subarachnoid hemorrhage including unusual presentation and an emerging and effective treatment option
E M Nyberg, M I Chaudry, A S Turk, A M Spiotta, D Fiorella, R D Turner
- e31** Pipeline embolization device and subsequent vessel sacrifice for treatment of a bleeding carotid pseudoaneurysm at the skull base: a case report
Y Kadlehodayan, V S Shetty, S L Blackburn, M R Reynolds, D T Cross III, C J Moran
- e32** Tentorial dural arteriovenous fistula presenting as episodic weakness mimicking periodic paralysis
D Singh, A Garg, A Gupta, G Goel, R Gupta, A Bansal
- e33** Obesity and intracranial in-stent thrombosis
D Z Rose, S Koch, Y Reyes-Iglesias, D R Yavagal
- e34** Anomalous origin of the right vertebral artery from the right common carotid artery associated with an aberrant right subclavian artery
K Nalamada, N Chitravanshi, E J Duffis, C J Prestigiacomo, C D Gandhi
- e35** Stent assisted coil embolization of wide-necked bilobed anterior inferior cerebellar artery aneurysm with incorporated artery arising from the dome: a technical note
P S Sabharwal, J Saini, A H Ramalingaiah
- e36** Stenting of the vertebral artery origin with ostium dilation: technical note
T M Dumont, P Kan, K V Snyder, L N Hopkins, E I Levy, A H Siddiqui
- e37** Severe venous congestive encephalopathy secondary to a dialysis arteriovenous graft
E A Samaniego, K J Abrams, G Dabus, R Starr, I Linfante
- e38** Prevention of stent thrombosis with reduced dose of prasugrel in two patients undergoing treatment of cerebral aneurysms with pipeline embolisation devices
G M Jones, J D Twilla, D A Hoit, A S Arthur