



Cover image: Schematic of stent deployment technique from the article by Chihara H *et al.*

Editor

Felipe C. Albuquerque

Associate Editors

- Michael Chen
Christophe Cognard
Lucas Eljovich
David Fiorella
Joshua Hirsch
William Mack
J Mocco

Associate Editor, Basic Science

Matthew Gounis

Assistant Editors, Social Media

- Reade DeLeacy
Andrew Ducruet
Kyle Fargen
Ashutosh Jadhav

Editor Emeritus

Robert W. Tarr

SNIS Executive Director

Marie Williams

Editorial Office

Journal of NeuroInterventional Surgery BMJ Publishing Group Ltd
BMA House
Tavistock Square
London, WC1H 9JR, UK
T: +44 (0)20 7383 6170
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)
Twitter: @JNIS_BMJ

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: © 2017 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 Exeter Premedia Services Private Ltd, Chennai, India and printed in the UK on acid free paper

Journal of NeuroInterventional Surgery (ISSN 1759-8478) is published monthly 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.

Contents

Editor's column

913 Social media and JNIS: expanding the digital clique
K M Fargen, T A Wilson, R de Leacy, A P Jadhav, A F Ducruet

Commentary

915 Denominator fallacy revisited
M Goyal, A P Jadhav

Ischemic stroke

917 Too good to intervene? Thrombectomy for large vessel occlusion strokes with minimal symptoms: an intention-to-treat analysis
D C Haussen, M Bousslama, J A Grossberg, A Anderson, S Belagage, M Frankel, N Bianchi, L C Rebello, R G Nogueira

922 Vessel perforation during stent retriever thrombectomy for acute ischemic stroke: technical details and clinical outcomes
M Mokin, K M Fargen, C T Primiani, Z Ren, T M Dumont, L B C Brasiliense, G Dabus, I Linfante, P Kan, V M Srinivasan, M J Binning, R Gupta, A S Turk, L Eljovich, A Arthur, H Shallwani, E I Levy, A H Siddiqui

929 Association of clot burden score with radiographic and clinical outcomes following Solitaire stent retriever thrombectomy: analysis of the SWIFT PRIME trial
M Mokin, E I Levy, A H Siddiqui, M Goyal, R G Nogueira, D R Yavagal, V M Pereira, J L Saver

933 Subclinical ischemic events in patients undergoing carotid artery stent placement: comparison of proximal and distal protection techniques
E Aytac, E Gürkaş, C K Akpınar, M A Saleem, A I Qureshi

937 Impact of thrombus length on recanalization and clinical outcome following mechanical thrombectomy in acute ischemic stroke
F Seker, J Pfaff, M Wolf, S Schönenberger, S Nagel, C Herweh, M Pham, M Bendszus, M A Möhlenbruch

940 CT angiography-based collateral flow and time to reperfusion are strong predictors of outcome in endovascular treatment of patients with stroke
F Sallustio, C Motta, S Pizzuto, M Diomedì, A Giordano, V C D'Agostino, D Samà, S Mangiafico, V Saia, J M Legramante, D Konda, E Pampana, R Floris, P Stanzone, R Gandini, G Koch

944 Stent retrieval thrombectomy in acute stroke is facilitated by the concurrent use of intracranial aspiration catheters
G Jindal, Y Serulle, T Miller, E Le, M Wozniak, M Phipps, M Iyoha, V Gupta, R Shivashankar, D Gandhi

948 Endovascular treatment for AIS with underlying ICAD
S Al Kasab, Z Almadiy, A M Spiotta, A S Turk, M I Chaudry, J P Hungerford, R D Turner

952 Stroke prevention by endovascular treatment of carotid and vertebral artery dissections
K Moon, F C Albuquerque, T Cole, B A Gross, C G McDougall

Hemorrhagic stroke

958 Influence of CYP2C19 genetic polymorphisms on clinical outcomes of intracranial aneurysms treated with stent-assisted coiling
H Ge, X Lv, H Ren, H Jin, Y Jiang, H He, P Liu, Y Li

963 Endovascular isolation of intracranial blood blister-like aneurysms with Willis covered stent
C Fang, H-Q Tan, H-J Han, H Feng, J-C Xu, S Yan, Z-Y Nie, L-J Jin, F Teng

New devices

969 Deployment technique that takes advantage of the characteristics of Enterprise VRD2: an in vitro study
H Chihara, A Ishii, T Kikuchi, H Ikeda, D Arai, S Miyamoto

Clinical neurology

974 Contribution of whole platelet aggregometry to the endovascular management of unruptured aneurysms: an institutional experience
S G Aoun, B G Welch, L G Pride, J White, R Novakovic, K Hoes, R Sarode

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://authors.bmj.com/open-access/



Member since 2009

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

http://publicationethics.org/



- 978** P2Y12 hyporesponse (PRU>200) is not associated with increased thromboembolic complications in anterior circulation Pipeline
M T Bender, L-M Lin, G P Colby, D Lubelski, J Huang, R J Tamargo, A L Coon
- 982** Off-label use of the Angioseal vascular closure device for femoral arteriotomy: retrospective analysis of safety and efficacy
S S Shah, G Perez, B M Snelling, D C Hausssen, S Sur, I Sharma, D R Yavagal, M S Elhammady, E C Peterson
- 986** Intracranial venous pressures under conscious sedation and general anesthesia
D M S Raper, T J Buell, C-J Chen, D Ding, R M Starke, K C Liu
- 990** Comparison of venous sinus manometry gradients obtained while awake and under general anesthesia before venous sinus stenting
K M Fargen, A M Spiotta, M Hyer, J Lena, R D Turner, A S Turk, I Chaudry

Basic science

- 994** In situ tissue engineering: endothelial growth patterns as a function of flow diverter design
M Marosfoi, E T Langan, L Strittmatter, K van der Marel, S Vedantham, J Arends, I R Lylyk, S Loganathan, G M Hendricks, I Szikora, A S Puri, A K Wakhloo, M J Gounis
- 999** Selection of helical braided flow diverter stents based on hemodynamic performance and mechanical properties
T Suzuki, H Takao, S Fujimura, C Dahmani, T Ishibashi, H Mamori, N Fukushima, M Yamamoto, Y Murayama
- 1006** Thrombogenicity of flow diverters in an ex vivo shunt model: effect of phosphorylcholine surface modification
M W Hagen, G Girdhar, J Wainwright, M T Hinds

Neuroimaging

- 1012** Utility of perfusion imaging in acute stroke treatment: a systematic review and meta-analysis
W H A Ryu, M B Avery, N Dharampal, I E Allen, S W Hetts
- 1017** High prevalence of intracranial aneurysms in patients with aortic dissection or aneurysm: feasibility of extended aorta CT angiography with involvement of intracranial arteries
D Lee, S J Ahn, E-S Cho, Y B Kim, S-W Song, W S Jung, S H Suh

Head and neck

- 1023** Sclerotherapy for lymphatic malformations of the head and neck in the pediatric population
J H Tu, H M Do, V Patel, K W Yeom, J M C Teng

Spine

- 1027** Temporary vertebral artery occlusion after C3 fracture dislocation injury and spontaneous resolution following reduction and instrumented fusion: case report and literature review
K Yaeger, J Mascielli, C Kellner, Z Hickman, J Mocco, K Margetis

Electronic pages

- e37** Segmental upper mid-basilar artery sacrifice in a child using a Micro Vascular Plug device for treatment of a basilar arteriovenous fistula compressing the brainstem
A P See, M A Kochis, D B Orbach