



Cover image: T-stent assisted coiling of a wide-necked anterior communicating artery aneurysm from the manuscript by Cheung NK *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
Tomoki Hashimoto

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: © 2018 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.

Editor's column

- 505 Moving down the tracks
F C Albuquerque

Commentary

- 507 ELVO: an operational definition
T Leslie-Mazwi, R V Chandra, B W Baxter, A S Arthur, M S Hussain, I P Singh, D F Frei, R P Klucznik, F C Albuquerque, J A Hirsch, the Society of NeuroInterventional Surgery

Ischemic stroke

- 510 A population-based incidence of M2 strokes indicates potential expansion of large vessel occlusions amenable to endovascular therapy
A T Rai, J R Domico, C Buseman, A R Tarabishy, D Fulkes, N Lucke-Wold, S Boo, J S Carpenter

- 516 TREVO stent-retriever mechanical thrombectomy for acute ischemic stroke secondary to large vessel occlusion registry

O O Zaidat, A C Castonguay, R G Nogueira, D C Haussen, J D English, S R Satti, J Chen, H Farid, C Borders, E Veznedaroglu, M J Binning, A Puri, N A Vora, R F Budzik, G Dabus, I Linfante, V Janardhan, A Alshekhelee, M G Abraham, R Edgell, M A Taqi, R E Houry, M Mokin, A Q Majid, M R Kabbani, M T Froehler, I Finch, S A Ansari, R Novakovic, T N Nguyen

- 525 Comparing different thrombectomy techniques in five large-volume centers: a 'real world' observational study

A C Hesse, D Behme, A Kemmling, A Zapf, N G Hokamp, I Frischmuth, I Maier, J Liman, I Tsogkas, J-H Buhk, J Tran, J Fiehler, A Mpotsaris, P Schramm, A Berlis, M Knauth, M-N Psychogios

- 530 Impact of time to endovascular reperfusion on outcome differs according to the involvement of the proximal MCA territory

D M Hedderich, T Boeckh-Behrens, B Friedrich, B Wiestler, S Wunderlich, C Zimmer, U Fischer, J F Kleine, J Kaesmacher

- 536 Subacute endovascular recanalization of symptomatic cerebral artery occlusion: a propensity score-matched analysis

S H Lee, D C Suh, S H Cho, J J Sheen, D H Lee, J S Kim

- 542 Insights into variations in preferred selection criteria for acute stroke endovascular therapy

F Wang, B C V Campbell, L Churilov, P Mitchell, R Dowling, Z Chen, S M Davis, B Yan

- 549 Pre-hospital detection of acute ischemic stroke secondary to emergent large vessel occlusion: lessons learned from electrocardiogram and acute myocardial infarction
A G Chartrain, C P Kellner, J Mocco

Hemorrhagic stroke

- 553 Safety and efficacy of aneurysm treatment with WEB in the cumulative population of three prospective, multicenter series
L Pierot, J Moret, X Barreau, I Szikora, D Herbreteau, F Turjman, M Holtmannspötter, A-C Januel, V Costalat, J Fiehler, J Klisch, J-Y Gauvrit, W Weber, H Desal, S Velasco, T Liebig, L Stockx, J Berkefeld, A Molyneux, J Byrne, L Spelle

New devices

- 560 Long term follow-up of bifurcation aneurysms treated with braided stent assisted coiling and complex T- and Y- stent constructs
N K Cheung, A H Y Chiu, A Cheung, J D Wenderoth

Neuroimaging

- 566 Wall enhancement ratio and partial wall enhancement on MRI associated with the rupture of intracranial aneurysms
G Wang, L Wen, S Lei, Q Ran, J Yin, Z Gong, D Zhang

- 571 Voxel based analysis of recurrence dynamics in intracranial aneurysms after coiling
M Ernst, A Buchholz, R Bourcier, H Desal, P-Y Le Floch, M Möhlenbruch, M Bendszus, J Fiehler

- 576 Prediction of hyperperfusion phenomenon after carotid artery stenting and carotid angioplasty using quantitative DSA with cerebral circulation time imaging
K Yamauchi, Y Enomoto, K Otani, Y Egashira, T Iwama

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/>



When you have finished with this please recycle it

Basic science

- 580** In-room assessment of intravascular velocity from time-resolved rotational angiography in patients with arteriovenous malformation: a pilot study

C J Lin, H C Yang, A C Chien, W Y Guo, C C Wu, S C Hung, K K Chen, H M Wu, C B Luo, W F Chu, J S Hong, C S F Wu

Spine

- 586** Concomitant conus medullaris arteriovenous shunts and sacral dural arteriovenous fistulas: pathophysiological links related to the venous drainage of the lesions in a series of five cases

A Rosi, A Consoli, S Condette-Auliac, O Coskun, F Di Maria, G Rodesch

- 592** Epidural interlaminar injections in severe degenerative lumbar spine: fluoroscopy should not be a luxury

D K Filippidis, T Rodt, M-C Kitsou, C Batistaki, N Kelekis, G Kostopanagiotou, A Kelekis

Tumor embolization

- 596** Systematic review and meta-analysis of effectiveness of preoperative embolization in surgery for metastatic spine disease

P Luksanaprukse, J M Buchowski, S Tongsai, W Singhatanadgige, J W Jennings

Socioeconomics

- 603** Impact of coil price knowledge by the operator on the cost of aneurysm coiling. A single center study

S Fimitsis, R Fahed, I Gaulin, D Roy, A Weill

Electronic pages

- e11** Embolization of a cavernous carotid fistula through the vein of Labbé: a new alternative transvenous access route

A A Konstas, A Song, J Song, A Thanos, I B Ross

- e12** Flanking the fenestration: circumferential limb-to-limb stent-assisted coiling of a basilar artery fenestration aneurysm

J Morrison, M D Alexander, C F Dowd, D L Cooke

- e13** Stent-assisted coil embolization on down-the-barrel view with spring-shaped microcatheter in patient with M1 ultrawide necked circumferential aneurysm

H S Kwak, J S Park, E J Koh

- e14** Multiple anomalies in the origin and course of vertebral arteries and aberrant right subclavian artery in a child with moyamoya syndrome

P Beyaz, N Khan, G Baltasvias