



Cover image: Photograph demonstrating incision in the region of the inferolateral orbit for direct access to a cavernous sinus dural arteriovenous fistula as described in the report by Wenderoth J.

Editor

Felipe C. Albuquerque

Associate Editors

Michael Chen
Christophe Cognard
David Fiorella
Joshua Hirsch
Italo Linfante
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://jniss.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://jniss.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.

Editor's column

333 The multi-specialty problem

J Mocco

Editorial

334 'Last known well' alone should not determine triage for patients with stroke and symptoms of large vessel occlusion

D V Heck, J C Grotta

Ischemic stroke

336 Weekend effect in endovascular stroke treatment: do treatment decisions, procedural times, and outcome depend on time of admission?

O Nikoubashman, T Probst, K Schürmann, A E Othman, O Matz, M-A Brockmann, M Müller, M Wiesmann, A Reich

340 Streamlining door to recanalization processes in endovascular stroke therapy

A Aghaebrahim, C Streib, S Rangaraju, C L Kenmuir, D-V Giurgutiuti, A Horev, Y Saeed, C W Callaway, F X Guyette, C Martin-Gill, C Pacella, A F Ducruet, B T Jankowitz, T G Jovin, A P Jadhav

346 Combined proximal balloon occlusion and distal aspiration: a new approach to prevent distal embolization during neurothrombectomy

S Stampfl, J Pfaff, C Herweh, M Pham, S Schieber, P A Ringleb, M Bendszus, M A Möhlenbruch

352 Primary acute stroke thrombectomy within 3 h for large artery occlusion (PAST3-LAO): a pilot study

Y Lodi, V Reddy, G Petro, A Devasenapathy, A Hourani, C-A Chou

357 Telestroke: the promise and the challenge. Part one: growth and current practice

F Aebik, J A Hirsch, R V Chandra, D Frei, A B Patel, J D Rabinov, N Rost, L H Schwamm, T M Leslie-Mazwi

361 Telestroke: the promise and the challenge. Part two: expansion and horizons

F Aebik, J A Hirsch, R V Chandra, D Frei, A B Patel, J D Rabinov, N Rost, L H Schwamm, T M Leslie-Mazwi

366 Complete reperfusion mitigates influence of treatment time on outcomes after acute stroke

S Prabhakaran, A C Castonguay, R Gupta, C-HJ Sun, C O Martin, W Holloway, N H Mueller-Kronast, J English, I Linfante, G Dabus, T Malisch, F Marden, H Bozorgchami, A Xavier, A Rai, M Froehler, A Badruddin, M A Taqi, R Novakovic, M Abraham, V Janardhan, H Shaltoni, A J Yoo, A Abou-Chebl, P Chen, G Britz, R Kaushal, A Nanda, R Nogueira, T Nguyen, O O Zaidat

Hemorrhagic stroke

370 Predicting intraprocedural rupture and thrombus formation during coiling of ruptured anterior communicating artery aneurysms

L Fan, B Lin, T Xu, N Xia, X Shao, X Tan, M Zhong, Y Yang, B Zhao

376 Hemodynamic differences between unstable and stable unruptured aneurysms independent of size and location: a pilot study

W Brinjikji, B J Chung, C Jimenez, C Putman, D F Kallmes, J R Czebral

381 A rare but morbid neurosurgical target: petrous aneurysms and their endovascular management in the stent/flow diverter era

B A Gross, K Moon, A F Ducruet, F C Albuquerque

Neuroimaging

384 Analysis of radiation doses incurred during diagnostic cerebral angiography after the implementation of dose reduction strategies

T Schneider, E Wyse, M S Pearl

389 DSA-Dynavision in pretreatment planning for coil embolization of indirect carotid-cavernous fistula

A Botsford, J J S Shankar

394 Distinction between contrast staining and hemorrhage after endovascular stroke treatment: one CT is not enough

S Dekeyser, O Nikoubashman, B Lutin, J De Groote, E Vancaester, S De Blauwe, D Hemelsoet, M Wiesmann, L Defreyne

399 In vitro comparison of intracranial stent visibility using various concentrations of gadolinium contrast agent under 1.5 T and 3 T MR angiography

C-H Chiang, Y-C Tseng, A-C Chen, Y-L Huang, D Y-T Chen, C-J Chen, Y-K Lin, H-L Hsu

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

Spine

- 405** Concomitant origin of the anterior or posterior spinal artery with the feeder of a spinal dural arteriovenous fistula (SDAVF)
Y Adrianto, K H Yang, H-W Koo, W Park, S C Jung, J E Park, K-K Kim, S R Jeon, D C Suh

New devices

- 411** Initial and mid-term results from 108 consecutive patients with cerebral aneurysms treated with the WEB device
C Clajus, C Strasilla, T Fiebig, V Sychra, D Fiorella, J Klisch
- 419** Safety, immediate and mid-term results of the newer generation of hydrogel coils in the treatment of ruptured aneurysms: a multicenter study
G Dabus, L Hacin-Bey, B Varjavand, R Dana Tomalty, P P Han, V Yerokhin, I Linfante, J Mocco, T Oxley, A Spiotta, M Imran Chaudry, R D Turner, A S Turk

Letter to the editor

- 425** Could we clinicians be the greatest barrier to real progress in our field?
T E Darsaut, R Fahed, J Raymond

Electronic pages

- e13** Delayed subarachnoid hemorrhage 7 years after cerebellar infarction from traumatic vertebral artery dissection
M A Silva, A P See, P Khandelwal, N J Patel, M A Aziz-Sultan
- e14** Paradoxical cerebral air embolism causing large vessel occlusion treated with endovascular aspiration
P J Belton, A Nanda, S L Alqadri, G S Khakh, P N Chandrasekaran, C Newey, W E Humphries
- e15** Separate origins of the left internal and external carotid arteries from the aortic arch and cervical internal carotid artery aneurysm in a patient with Noonan syndrome
R A Tahir, K Asmaro, A Pabaney, M Kole, T Nypaver, H Marin
- e16** Rapid delayed growth of ruptured supraclinoid blister aneurysm after successful flow diverting stent treatment
S T Lang, Z Assis, J H Wong, W Morrish, A P Miitha



9 (4)

J NeuroIntervent Surg 2017 9: e16-426

Updated information and services can be found at:

<http://jnis.bmj.com/content/9/4>

These include:

**Email alerting
service**

Receive free email alerts when new articles cite this article. Sign up in the box at the top right corner of the online article.

Notes

To request permissions go to:

<http://group.bmj.com/group/rights-licensing/permissions>

To order reprints go to:

<http://journals.bmj.com/cgi/reprintform>

To subscribe to BMJ go to:

<http://group.bmj.com/subscribe/>