



Cover image: Photograph demonstrating depiction of anatomic treatment impact and ASPECTS regions as described in the report by Boers A M M.

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://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.

Editors' column

- 427** The mission lifeline severity-based stroke treatment algorithm: We need more time
J Mocco, D Fiorella, F C Albuquerque

Commentary

- 429** 'Standards and guidelines for standards and guidelines': intracranial dural arteriovenous shunts as a paradigm
I A Awad

Ischemic stroke

- 431** Topographic distribution of cerebral infarct probability in patients with acute ischemic stroke: mapping of intra-arterial treatment effect
A M M Boers, O A Berkhemer, C H Slump, W H van Zwam, Y B W E M Roos, A van der Lugt, R J van Oostenbrugge, A J Yoo, D W J Dippel, H A Marquering, C B L M Majoie, on behalf of the MR CLEAN trial investigators

- 437** Long term experience using the ADAPT technique for the treatment of acute ischemic stroke
J Vargas, A Spiotta, K Fargen, R Turner, I Chaudry, A Turk

- 442** ASPECTS decay during inter-facility transfer in patients with large vessel occlusion strokes
M Mokin, R Gupta, W R Guerrero, D Z Rose, W S Burgin, S Sivakanthan

- 445** Proteinuria as an independent risk factor for contrast-induced acute kidney injury and mortality in patients with stroke undergoing cerebral angiography
Y Tao, W Dong, Z Li, Y Chen, H Liang, R Li, L Mo, L Xu, S Liu, W Shi, L Zhang, X Liang

- 449** Proposed methodology and classification of Infarct in New Territory (INT) after endovascular stroke treatment
M Goyal, B K Menon, A Demchuk, J L Saver, M Eesa, C Majoie, M Jayaraman, M D Hill

- 451** Admission systolic blood pressure and outcomes in large vessel occlusion strokes treated with endovascular treatment
N Goyal, G Tsivgoulis, S Ifiikhar, Y Khorchid, M Fawwad Ishfaq, V T Doss, R Zand, J Chang, K Alsherbini, A Choudhri, D Hoi, A V Alexandrov, A S Arthur, L Eljovich

- 455** Timeline of blood pressure changes after intra-arterial therapy for acute ischemic stroke based on recanalization status
S John, W Hazaa, K Uchino, M S Hussain

- 459** Optimizing endovascular stroke treatment: removing the microcatheter before clot retrieval with stent-retrievers increases aspiration flow
O Nikoubashman, J P Alt, A Nikoubashman, M Büsen, S Heringer, C Brockmann, M-A Brockmann, M Müller, A Reich, M Wiesmann

- 463** Endovascular management of cerebral septic embolism: three recent cases and review of the literature
E L Scharf, T Chakraborty, A Rabinstein, A S Miranpuri

- 466** MRI audit of complications in intracranial stenosis treated with Wingspan device
L L L Yeo, Y M Wu, Y L Chen, C H Yeh, T H Lee, H F Wong

Hemorrhagic stroke

- 471** Treatment of posterior circulation non-saccular aneurysms with flow diverters: a single-center experience and review of 56 patients
P Bhogal, M A Pérez, O Ganslandt, H Bänzner, H Henkes, S Fischer

- 482** Safety and outcomes of simultaneous vasospasm and endovascular aneurysm treatment (SVAT) in subarachnoid hemorrhage
D Drazin, V S Fennell, E Gifford, C Lagman, K Atchaneeyasakul, R C Edgell, M Rayes, A Xavier, M S Hussain, R Gupta, J S Kalia, O O Zaidat, I Linfante, R G Nogueira, T Nguyen, J Oliveira-Filho, A D M Barros, A Boulos, M J Alexander, D R Yavagal

Basic science

- 486** Novel methodology to replicate clot analogs with diverse composition in acute ischemic stroke
S Duffy, M Farrell, K McArdle, J Thornton, D Vale, E Rainsford, L Morris, D S Liebeskind, E MacCarthy, M Gilvarry

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/>

C O P E

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

- 492** NADPH oxidase inhibitor improves outcome of mechanical reperfusion by suppressing hemorrhagic transformation

Y-H Tuo, Z Liu, J-W Chen, Q-Y Wang, S-L Li, M-C Li, G Dai, J-S Wang, Y-L Zhang, L Feng, Z-S Shi

Neuroimaging

- 499** Acute management and outcomes of iatrogenic dissections during cerebral angiography

A P Groves, A P Kansagra, D T Cross, C J Moran, C P Derdeyn

- 502** The application of susceptibility-weighted MRI in pre-interventional evaluation of intracranial dural arteriovenous fistulas

N K Jain, S K Kannath, T R Kapilamoorthy, B Thomas

History

- 508** Citation classics in neurointerventional research: a bibliometric analysis of the 100 most cited articles

E S Kim, D Y Yoon, H J Kim, H J Jeon, J Y Lee, B-M Cho, K Lee

Clinical neurology

- 512** Venous sinus stenting in patients without idiopathic intracranial hypertension

M R Levitt, F C Albuquerque, B A Gross, K Moon, A P Jadhav, A F Ducruet, R W Crowley

Standards

- 516** Standard and Guidelines: Intracranial Dural Arteriovenous Shunts

S-K Lee, S W Hetts, V Halbach, K terBrugge, S A Ansari, B Albani, T Abruzzo, A Arthur, M J Alexander, F C Albuquerque, B Baxter, K R Bulsara, M Chen, J E Delgado Almandoz, J F Fraser, D Frei, C D Gandhi, D Heck, M S Hussain, M Kelly, R Klucznik, T Leslie-Mazwi, R A McTaggart, P M Meyers, A Patsalides, C Prestigiacomo, G L Pride, R Starke, P Sunenshine, P Rasmussen, M V Jayaraman, on behalf of the Standard and Guidelines Committee for the Society of Neurointerventional Surgery

Letter to the editor

- 524** Comment on the article What constitutes the M1 segment of the middle cerebral artery?

D Lobsien, M Gawlitzka, K-T Hoffmann, B Friedrich

Electronic pages

- e17** Traumatic basilar artery entrapment with patency of pontine perforators and absence of significant brainstem infarction: report of an unusual case

S Kliesch, C Bauknecht, G Bohner, T Liebig, E Siebert

- e18** Use of aspirin as sole oral antiplatelet therapy in acute flow diversion for ruptured dissecting aneurysms

A H Y Chiu, R Ramesh, J Wenderoth, M Davies, A Cheung

- e19** Retreatment of a choroidal vein of Galen malformation with embolization 42 years after open surgical treatment in the neonatal period

L Elijovich, A F Choudhri, A S Arthur, P Klimo, F A Boop, A Berenstein

- e20** A rare case of absent left common carotid artery with bovine origin of the left external carotid artery

S Goyal, A K Sinha