



Cover image: Postmortem examination after Pipeline embolization of a basilar aneurysm from the manuscript by Rehman AA et al.

Editor

Felipe C. Albuquerque

Commissioning Editor

Michael Chen

Associate Editors

- Alessandra Biondi
Christophe Cognard
Lucas Eljovich
David Fiorella
Joshua Hirsch
William Mack
J Mocco
Laurent Pierot

Associate Editors, 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
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: © 2019 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, ISSN 1759-8478, is published monthly by BMJ Publishing Group Ltd, BMA House, Tavistock Square, London WC1H 9JR, UK. The US annual subscription price is \$272. Airfreight and mailing in the USA by agent named Worldnet Shipping Inc., 156-15, 146th Avenue, 2nd Floor, Jamaica, NY 11434, USA. Periodicals Postage Paid at Jamaica NY 11431.

US Postmaster: Send address changes to Journal of NeuroInterventional Surgery, Worldnet Shipping Inc., 156-15, 146th Avenue, 2nd Floor, Jamaica, NY 11434, USA. Subscription records are maintained at: BMJ, 12th Floor, Southgate House, Wood Street, Cardiff CF10 1GH, UK. Air Business Ltd is acting as our mailing agent.

Editor's column

431 Better is Good
F C Albuquerque

Ischemic Stroke

433 eTICI reperfusion: defining success in endovascular stroke therapy
D S Liebeskind, S Bracard, F Guillemin, R Jahan, T G Jovin, C BLM Majoie, P J Mitchell, A van der Lugt, B K Menon, L San Román, B CV Campbell, K W Muir, M D Hill, D WJ Dippel, J L Saver, A M Demchuk, A Dávalos, P White, S Brown, M Goyal, for the HERMES Collaborators

439 Reasons for failed endovascular recanalization attempts in stroke patients
H Leischner, F Flotmann, U Hanning, G Brookes, T D Faizy, M Deb-Chatterji, M Bernhardt, C Brekenfeld, J-H Buhk, S Gellissen, G Thomalla, C Gerloff, J Fiehler

443 Direct endovascular thrombectomy and bridging strategies for acute ischemic stroke: a network meta-analysis
K Phan, A A Dmytriv, D Lloyd, J M Maingard, H K Kok, R V Chandra, M Brookes, V Thijs, J M Moore, A H Y Chiu, M Selim, M Goyal, V M Pereira, A J Thomas, J A Hirsch, H Asadi, N Wang

450 Can early neurological improvement after mechanical thrombectomy be used as a surrogate for final stroke outcome?
S Soize, G Fabre, M Gawlitz, I Serre, S Bakchine, P-F Manceau, L Pierot

455 Single-center experience with the Tigertriever device for the recanalization of large vessel occlusions in acute ischemic stroke
B Kara, H H Selcuk, A Erbahceci Salik, H Zalov, O Yildiz, G Gul, B Balkan

460 #Fake news: a systematic review of mechanical thrombectomy results among neurointerventional stroke surgeons on Twitter
A A Dmytriv, T J Sorenson, J M Morris, P J Nicholson, C A Hilditch, C S Graffeo, W Brijnjekij

464 Hemorrhagic transformation is associated with poor functional outcome in patients with acute ischemic stroke due to a large vessel occlusion
K R van Kranendonk, K M Treurniet, A M M Boers, O A Berkhemer, L A van den Berg, V Chalos, H F Lingsma, W H van Zwam, A van der Lugt, R J van Oostenbrugge, D W J Dippel, Y B W E M Roos, H A Marquering, C B L M Majoie, the MR CLEAN investigators

469 Predictors and impact of hemorrhagic transformations after endovascular thrombectomy in patients with acute large vessel occlusions
Y B Lee, W Yoon, Y Y Lee, S K Kim, B H Baek, J-T Kim, M-S Park

474 Risk factors for hyperperfusion-induced intracranial hemorrhage after carotid artery stenting in patients with symptomatic severe carotid stenosis evaluation
L Zhang, D Dai, Z Li, G Duan, Y Zhang, P Yang, Q Huang, Y Xu, B Hong, J Liu

Hemorrhagic Stroke

479 Confidence of treatment decision and perceived risk of procedure-related neurological complications in the management of unruptured intracranial aneurysms
M Ernst, L Kriston, U Hanning, A M Frölich, J Fiehler, J H Buhk

485 Pipeline embolization device treatment of internal carotid artery terminus aneurysms
A Pujari, B M Howard, T P Madaelil, S L Skukalek, A K Roy, J E Dion, C M Cawley, J A Grossberg

489 Stent assisted coiling versus non-stent assisted coiling for the management of ruptured intracranial aneurysms: a meta-analysis and systematic review
X Zhang, Q Zuo, H Tang, G Xue, P Yang, R Zhao, Q Li, Y Fang, Y Xu, B Hong, Q Huang, J Liu

497 Machine learning improves prediction of delayed cerebral ischemia in patients with subarachnoid hemorrhage
L A Ramos, W E van der Steen, R Sales Barros, C B L M Majoie, R van den Berg, D Verbaan, W P Vandertop, I J A J Zijlstra, A H Zwinderman, G J Strijkers, S D Olabariaga, H A Marquering

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/



New Devices

- 503** Factors that determine aneurysm occlusion after embolization with the Woven EndoBridge (WEB)
C Kabbasch, L Goertz, E Siebert, M Herzberg, J Borggrefe, F Dorn, T Liebig

- 511** Safety and efficiency of the fifth generation Woven EndoBridge device: technical note
C Mihalea, J Caroff, I Pagiola, L Ikka, G B Hashemi, S Naderi, V Chalumeau, H Ples, B V Popa, T Yasuda, J J Marengo de la Torre, M Iacobucci, A Ozanne, S Gallas, A Rouchaud, S Pescariu, J Moret, L Spelle

- 516** Medina embolization device for the treatment of intracranial aneurysms: 18 months' angiographic results
I Haffaf, F Clarençon, E Shotar, C Rolla-Bigliani, S Vande Perre, B Mathon, M Drir, N-A Sourour


Basic science

- 523** Downstream vascular changes after flow-diverting device deployment in a rabbit model
P Kolumam Parameswaran, D Dai, Y-H Ding, M W Urban, L Manlove, V Sathish, J R Cebra, D F Kallmes, R Kadirvel

History

- 528** The most mentioned neurointervention articles in online media: a bibliometric analysis of the top 101 articles with the highest altmetric attention scores
H J Kim, D Y Yoon, E S Kim, E J Yun, H J Jeon, J Y Lee, B-M Cho

Electronic pages

- e2** An autopsy report of basilar artery aneurysm flow diversion complicated by postoperative day 3 hemorrhage from vessel rupture
 *A A Rehman, R C Turner, S Wright, SH Boo, A T Rai*