



**Cover image:** A novel classification scheme for basilar artery perforating aneurysms from the article by Satti SR *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](mailto: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.

**Editor's column**

**619** Our job  
*M Chen*

**Point-Counterpoint**

**621** The future of clinical trials: data sharing  
*J A Hirsch*

**624** Is data sharing the future of clinical trials?  
*D Fiorella*

**Ischemic stroke**

**626** Endovascular thrombectomy for M2 occlusions: comparison between forced arterial suction thrombectomy and stent retriever thrombectomy  
*Y-W Kim, S Son, D-H Kang, Y-H Hwang, Y-S Kim*

**631** Stroke care: initial data from a county-based bypass protocol for patients with acute stroke  
*S F Zaidi, J Shawver, A Espinosa Morales, H Salahuddin, G Tietjen, D Lindstrom, B Parquette, A Adams, A Korsnack, M A Jumaa*

**636** Factors associated with successful revascularization using the aspiration component of ADAPT in the treatment of acute ischemic stroke  
*J R Mascitelli, C P Kellner, C S Oravec, R A De Leacy, E K Oermann, K Yaeger, S Paramasivam, J T Fifi, J Mocco*

**641** Presence of the hyperintense acute reperfusion marker on MRI after mechanical thrombectomy for large vessel occlusion is associated with worse early neurological recovery  
*R Gupta, C-H J Sun, D Rochestie, K Owada, A Khaldi, A K Johnson, C M Horn*

**644** TREVO and Capture LP have equal technical success rates in mechanical thrombectomy of proximal and distal anterior circulation occlusions  
*S Proto, J-P Pienimäki, J Seppänen, I Matkaskelä, J Ollikainen, H Numminen, N Sillanpää*

**650** Ultra-distal access of the M1 segment with the 5 Fr Navien distal access catheter in acute (anterior circulation) stroke: is it safe and efficient?  
*H Janssen, M Killer-Oberpfalzer, M Patzig, G Buchholz, J Lutz*

**654** Comprehensive analysis of intra-arterial treatment for acute ischemic stroke due to cervical artery dissection  
*J Jensen, K Salottolo, D Frei, D Loy, K McCarthy, J Wagner, M Whaley, R Bellon, D Bar-Or*

**Hemorrhagic stroke**

**659** Effect of heparin on secondary brain injury in patients with subarachnoid hemorrhage: an additional 'H' therapy in vasospasm treatment  
*M Bruder, S-Y Won, S Kashefolasl, M Wagner, N Brawanski, N Dinc, V Seifert, J Konczalla*

**664** Multicenter assessment of morbidity associated with cerebral arteriovenous malformation hemorrhages  
*K Fukuda, M Majumdar, H Masoud, T Nguyen, A Honarmand, A Shaibani, S Ansari, L A Tan, M Chen*

**669** Basilar artery perforator aneurysms (BAPAs): review of the literature and classification  
*S R Satti, A Z Vance, D Fowler, A V Farmah, T Sivapatham*

**674** Flow changes in the posterior communicating artery related to flow-diverter stents in carotid siphon aneurysms  
*F M de Carvalho, J Caroff, E P dos Santos Neto, V Chalumeau, H Abdel Khalek, H Neki, G Saliou, A Rouchaud, J Moret, L Spelle*

**679** Endovascular flow diversion for treatment of anterior communicating artery region cerebral aneurysms: a single-center cohort of 50 cases  
*G P Colby, M T Bender, L-M Lin, N Beaty, J Huang, R J Tamargo, A L Coon*

**686** Ophthalmic artery occlusion after Pipeline Embolization Device placement with reconstitution of flow via an endoleak: a report of two cases  
*M L Adix, I A Kaminsky, I S Choi*

**689** Use of the 0.027-inch VIA microcatheter for delivery of Pipeline Flex: a technical note  
*L-M Lin, G P Colby, M T Bender, R Xu, J Huang, R J Tamargo, A L Coon*

**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/>



---

**Standards**

- 694** A pilot study of neurointerventional research level of evidence and collaboration  
*K M Fargen, J Mocco, A M Spiotta, A Rai, J A Hirsch*

---

**Neuroimaging**

- 698** Low prevalence of fetal-type posterior cerebral artery in patients with basilar tip aneurysms  
*M C Diogo, I Fragata, S P Dias, J Nunes, J Pamplona, J Reis*

---

**Basic science**

- 702** NADPH oxidase inhibitor regulates microRNAs with improved outcome after mechanical reperfusion  
*Z Liu, Y-H Tuo, J-W Chen, Q-Y Wang, S Li, M-C Li, G Dai, J-S Wang, Y-L Zhang, L Feng, Z-S Shi*
- 707** Combined endovascular coiling and intra-aneurysmal allogeneic mesenchymal stromal cell therapy for intracranial aneurysms in a rabbit model: a proof-of-concept study  
*A Adibi, M Eesa, J H Wong, A Sen, A P Mitha*

---

**Socioeconomics**

- 714** MACRA 2.0: are you ready for MIPS?  
*J A Hirsch, A B Rosenkrantz, S A Ansari, L Manchikanti, G N Nicola*

---

**Electronic pages**

- e25** Remote multifocal bleeding points producing a Sylvian subpial hematoma during endovascular coiling of an acutely ruptured cerebral aneurysm  
*C A Hilditch, H Sonwalkar, S Wuppalapati*
- e26** Endovascular retrieval of dental needle retained in the internal carotid artery  
*K Moore, N R Khan, L Madison Michael, A S Arthur, D Hoit*
- e27** Congenital anomaly of the posterior arch of the atlas: a rare risk factor for posterior circulation stroke  
*Z-y Ouyang, M-j Qiu, Z Zhao, X-b Wu, L-s Tong*
- e28** Moving target: transient rotational stenosis precipitating jugular bow hunter's syndrome  
*W Brinjikji, C S Graffeo, A Perry, T Zimmerman, J R Janus, P P Morris, G D Cascino, G Lanzino*