



Cover image: Depiction of iFlow transit time employing syngo iFlow from the manuscript by Shakur SF *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

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

- 99** Thrombectomy stroke centers: The current threat to regionalizing stroke care
W J Mack, J Mocco, J A Hirsch, M Chen, L Eljovich, R W Tarr, F C Albuquerque

Commentary

- 102** Bibliometric indices: defining academic productivity and citation rates of researchers, departments and journals
R M Garner, J A Hirsch, F C Albuquerque, K M Fargen

Ischemic stroke

- 107** A decrease in blood pressure is associated with unfavorable outcome in patients undergoing thrombectomy under general anesthesia
K M Treurniet, O A Berkehemer, R V Immink, H F Lingsma, V M C Ward-van der Stam, M W Hollmann, J Vuyk, W H van Zwam, A van der Lugt, R J van Oostenbrugge, D W J Dippel, J M Coutinho, Y B W E M Roos, H A Marquering, C B L M Majoie, for the MR CLEAN investigators

- 112** Admission hyperglycemia and outcomes in large vessel occlusion strokes treated with mechanical thrombectomy

N Goyal, G Tsivgoulis, A Pandhi, K Dillard, A H Katsanos, G Magoufis, J J Chang, R Zand, D Hoi, A Safouris, A Choudhri, A W Alexandrov, A V Alexandrov, A S Arthur, L Eljovich

Hemorrhagic stroke

- 118** Surgical technique for venous patch aneurysms with no neck in a rabbit model
K Greim-Kuczewski, A Berenstein, S Kis, A Hauser, M Killer-Oberpfalzer

- 122** Tourniquet parent artery occlusion after flow diversion

V M Srinivasan, M Mokin, E A M Duckworth, S Chen, A Puri, P Kan

New devices

- 127** Endovascular treatment of intracranial aneurysms with the Woven EndoBridge device: mid term and long term results
B Mine, A Goutte, D Brisbois, B Lubicz

- 133** The Casper carotid artery stent: a unique all metal micromesh stent designed to prevent embolic release
O Diaz, G Lopez, J O F Roehm, G De la Rosa, F Orozco, R Almeida

- 137** Use of a next-generation multi-durometer long guide sheath for triaxial access in flow diversion: experience in 95 consecutive cases
L-M Lin, M T Bender, G P Colby, N B Beaty, B Jiang, J K Campos, J Huang, R J Tamargo, A L Coon

Basic science

- 143** Development of a high resolution MRI intracranial atherosclerosis imaging phantom
J-Y Chueh, K van der Marel, M J Gounis, T LeMatty, T R Brown, S A Ansari, T J Carroll, A K Buck, X J Zhou, A R Chatterjee, R M King, H Mao, S Zheng, O W Brooks, J W Rappleye, R H Swartz, E Feldmann, T N Turan

- 150** A systematic characterization of the factors influencing polymerization and dynamic behavior of n-butyl cyanoacrylate
B H Wang, M Boulton, D H Lee, D M Pelz, S P Lownie

Neuroimaging

- 156** Validation of cerebral arteriovenous malformation hemodynamics assessed by DSA using quantitative magnetic resonance angiography: preliminary study
S F Shakur, D Brunozzi, A E Hussein, A Linninger, C-Y Hsu, F T Charbel, A Alaraj

- 162** Analysis of neointima development in flow diverters using optical coherence tomography imaging
Y Matsuda, J Chung, D K Lopes

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/>



168 Comparison of eye-lens doses imparted during interventional and non-interventional neuroimaging techniques for assessment of intracranial aneurysms
N Guberina, U Dietrich, M Forsting, A Ringelstein

171 Venous collateral drainage patterns predict clinical worsening in dural venous sinus thrombosis
S A Sheth, H Trieu, D S Liebeskind, J L Saver, V Szeder, R Jahan, S Tateshima, G Duckwiler

Spine

176 Multicenter clinical and imaging evaluation of targeted radiofrequency ablation (t-RFA) and cement augmentation of neoplastic vertebral lesions
M Reyes, M Georgy, L Brook, O Ortiz, A Brook, V Agarwal, M Muto, L Manfre, S Marcia, B A Georgy

183 Trends in vertebral augmentation for spinal fractures in myeloma patients: a 2002–2012 population-based study using a large national cancer registry
F H Chokshi, D H Howard, J G Jarvik, R Duszak

191 Arteriovenous fistulae of the filum terminale
E Giordan, W Brinjikji, E Ciceri, G Lanzino

198 Endovascular management of aneurysms associated with spinal arteriovenous malformations
S C Jung, Y Song, S H Cho, J Kim, S Y Noh, S H Lee, J J Sheen, S C Rhim, S R Jeon, D C Suh

Socioeconomics

205 AHCA meets BCRA; timeline, context, and future directions
J A Hirsch, A B Rosenkrantz, B Allen, G N Nicola, R P Klucznik, L Manchikanti