



Cover image: Computational fluid dynamic (CFD) images and conventional digital subtraction angiography (DSA) images from a patient whose communicating segment right internal carotid aneurysm remained patent six months following flow diverter (FD) placement.

Editor

Robert W Tarr

Associate Editors

Felipe Albuquerque
Michael Chen
Dave Fiorella
Rishi Gupta
Joshua Hirsch
Italo Linfante
William Mack
J Mocco
Ansaar Rai

Assistant Editors, Social Media

Kyle Fargen
Brijesh Mehta

Assistant Editor, Point-Counterpoint Section

Kristine Blackham

Assistant Editor, Book Review Section

Albert Yoo

Assistant Editor, Basic Science

Matthew Gounis

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: © 2015 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 Techset, India and printed in the US.

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

229 Systematic regionalization of stroke care
K M Fargen, D Fiorella, F Albuquerque, J Mocco

Ischemic stroke

231 Interhospital variation in reperfusion rates following endovascular treatment for acute ischemic stroke

J T P Liggins, M Mlynash, T G Jovin, M Straka, S Kemp, R Bammer, M P Marks, G W Albers, M G Lansberg, on behalf of the DEFUSE 2 Investigators

234 Endovascular treatment for M2 occlusions in the era of stentriever: a descriptive multicenter experience

A Flores, A Tomasello, P Cardona, M A de Miquel, M Gomis, P Garcia Bermejo, V Obach, X Urrea, J Martí-Fàbregas, D Cánovas, J Roquer, S Abilleira, M Ribó, on behalf of the Catalan Stroke Code and Reperfusion Consortium (Cat-SCR)

238 Emergency carotid artery stenting in patients with acute ischemic stroke due to occlusion or stenosis of the proximal internal carotid artery: a single-center experience

S Son, D S Choi, M K Oh, S-K Kim, H Kang, K-J Park, N-C Choi, O-Y Kwon, B H Lim

245 Stenting of symptomatic intracranial stenosis using balloon mounted coronary stents: a single center experience

C R Durst, S R Geraghty, A M Southerland, R M Starke, K Rembold, S Malik, M Wintermark, K C Liu, R W Crowley, J Gaughen, M E Jensen, A J Evans

Hemorrhagic stroke

250 Endovascular coiling versus parent artery occlusion for treatment of cavernous carotid aneurysms: a meta-analysis

Z A Turfe, W Brinjikji, M H Murad, G Lanzino, H J Cloft, D F Kallmes

256 Endovascular treatment of unruptured wide-necked intracranial aneurysms: comparison of dual microcatheter technique and stent-assisted coil embolization

R M Starke, C R Durst, A Evans, D Ding, D M S Raper, M E Jensen, R W Crowley, K C Liu

262 Conventional endovascular treatment of small intracranial aneurysms is not associated with additional risks compared with treatment of larger aneurysms

W R Stetler Jr, T J Wilson, W N Al-Holou, N Chaudhary, J J Gemmete, B G Thompson, A S Pandey

New devices

266 Safety and performance of the Penumbra Liberty stent system in a rabbit aneurysm model

R Chavan, S Pons, V Gupta, D Hui, A Bose

272 Effect of aneurysm and ICA morphology on hemodynamics before and after flow diverter treatment

I Larrabide, A J Geers, H G Morales, M L Aguilar, D A Rüfenacht

281 Low-profile Visualized Intraluminal Support device (LVIS Jr) as a novel tool in the treatment of wide-necked intracranial aneurysms: initial experience in 32 cases

D Behme, A Weber, A Kowoll, A Berlis, T H Burke, W Weber



Scan here to listen to a podcast with Waleed Brinjikji on this issue's Editor's Choice article.

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://JNIS.bmj.com/site/about/guidelines.xhtml#open>



COMMITTEE ON PUBLICATION ETHICS

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

Receive regular table of contents by email. Register using this QR code.



Basic science

- 286** Association between hemodynamic conditions and occlusion times after flow diversion in cerebral aneurysms

F Mut, M Raschi, E Scrivano, C Bleise, J Chudyk, R Ceratto, P Lylyk, J R Cebral

- 291** Mechanical properties and fibrin characteristics of endovascular coil–clot complexes: relevance to endovascular cerebral aneurysm repair paradigms

K J Haworth, C R Weidner, T A Abruzzo, J T Shearn, C K Holland

Neuroimaging

- 297** Enterprise stenting for intracranial aneurysm treatment induces dynamic and reversible age-dependent stenosis in cerebral arteries

B Gao, M G Safain, A M Malek

Spine

- 303** Combining C-arm CT with a new remote operated positioning and guidance system for guidance of minimally invasive spine interventions

C Czerny, K Eichler, Y Croissant, B Schulz, G Kronreif, R Schmidt, M von Roden, C Schomerus, T J Vogl, I Marzi, S Zangos

Socioeconomics

- 309** Current procedural terminology; a primer

J A Hirsch, T M Leslie-Mazwi, G N Nicola, R M Barr, J A Bello, W D Donovan, R Tu, M D Alson, L Manchikanti

Electronic pages

- e13** Failure of aneurysm occlusion by flow diverter: a role for surgical bypass and parent artery occlusion

T Mattingly, B Van Adel, E Dyer, P Lopez-Ojeda, D M Pelz, S P Lownie, T Marotta, M Boulton

- e14** Carotid stent infection: a rare but potentially fatal complication of carotid artery stenting

S Son, N-C Choi, D S Choi, O H Cho

- e15** Ethmoidal dural arteriovenous fistula with unusual drainage route treated by transarterial embolization

A Inoue, M Tagawa, Y Kumon, H Watanabe, D Shoda, K Sugiu, T Ohnishi

- e16** Onyx embolization of dural arteriovenous fistulas of the cavernous sinus through the superior pharyngeal branch of the ascending pharyngeal artery

G Pero, L Quilici, M Piano, L Valvassori, E Boccardi