



Cover caption: Fluoroscopic image demonstrating fracture reduction after stent expansion and pedicular screw insertion from the manuscript by Distefano D *et al.*

Editor-in-Chief
Felipe C. Albuquerque

Deputy Editors
David Fiorella
Joshua Hirsch

Commissioning Editor
Michael Chen

Associate Editors
Alessandra Biondi
Kyle Fargen
Jens Fiehler
Ashutosh Jadhav
William Mack
James Milburn
J Mocco
Gabor Toth
Philip White

Associate Editors, Basic Science
Matthew Gounis
David Steinman

Assistant Editors, Social Media
Dorothea Altschul
Reade DeLeacy
Andrew Ducruet
Michael Levitt

Assistant Editors, Technical Videos
Waleed Brinjikji
Maxim Mokin

Editor Emeritus
Robert 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@bmj.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](https://twitter.com/JNIS_BMJ)

Disclaimer: The Editor of *Journal of NeuroInterventional Surgery* has been granted editorial freedom and *Journal of NeuroInterventional Surgery* is published in accordance with editorial guidelines issued by the World Association of Medical Editors and the Committee on Publication Ethics. *Journal of NeuroInterventional Surgery* is primarily intended for healthcare professionals and its content is for information only. The Journal is published without any guarantee as to its accuracy or completeness and any representations or warranties are expressly excluded to the fullest extent permitted by law. Readers are advised to independently verify any information on which they choose to rely. Acceptance of advertising by *Journal of NeuroInterventional Surgery* does not imply endorsement. Neither SNIS nor BMJ Publishing Group Limited shall have any liability for any loss, injury or damage howsoever arising from *Journal of NeuroInterventional Surgery* (except for liability which cannot be legally excluded).

Copyright: © 2021 Society of NeuroInterventional Surgery. All rights reserved; no part of this publication may be reproduced in any form without permission. *Journal of NeuroInterventional Surgery*, ISSN 1759-8478, BMA House, Tavistock Square, London WC1H 9JR, UK. The US annual subscription price is \$272. Airfreight and mailing in the USA by agent named World Container Inc, 150-15, 183rd Street, Jamaica, NY 11413, USA. Periodicals postage paid at Brooklyn, NY 11256. US Postmaster: Send address changes to *Journal of NeuroInterventional Surgery*, World Container Inc, 150-15, 183rd Street, Jamaica, NY 11413, 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

1 Out with a bang
F C Albuquerque

Commentary

2 Response to: the 'armed concrete' approach: stent-screw-assisted internal fixation (SAIF) reconstructs and internally fixates the most severe osteoporotic vertebral fractures
D P Beall

Ischemic Stroke

4 Implications of the use of mechanical thrombectomy on outcome in large vessel occlusion following the 2015 landmark trials
O Kuybu, V Javalkar, A Amireh, A Kaur, R E Kelley, H H Cuellar-Saenz, P Sharma

8 Dual antiplatelet therapy after carotid artery stenting: trends and outcomes in a large national database
E S Sussman, M Jin, A V Pendharkar, B Pulli, A Feng, J J Heit, N A Telischak

14 Predictors of poor clinical outcome despite complete reperfusion in acute ischemic stroke patients
N van Horn, H Kniep, H Leischner, R McDonough, M Deb-Chatterji, G Brookes, G Thomalla, C Brekenfeld, J Fiehler, U Hanning, F Flottmann

19 Relationship of white matter lesion severity with early and late outcomes after mechanical thrombectomy for large vessel stroke
Z Albo, J Marino, M Nagy, D K Jayaraman, M U Azeem, A S Puri, N Henninger

25 Association of masseter area and radiodensity with three-month survival after proximal anterior circulation occlusion
I Lindström, S Protto, N Khan, J Hernesniemi, N Sillanpää, N Oksala

30 Intravenous cangrelor and oral ticagrelor as an alternative to clopidogrel in acute intervention
I Linfante, K Ravipati, A K Starosciak, D Reyes, G Dabus

33 Tandem stents thrombectomy as a rescue treatment for refractory large vessel occlusions
H Xu, S Peng, T Quan, Y Yuan, Z Wang, X Fu, K Han, G Liu, S Guan, P Li

New Devices and Techniques

39 Arm-only access for combined transarterial and transvenous neurointerventional procedures
J Galvan Fernandez, M Martínez-Galdámez, M Schüller Arteaga, J Ortega-Quintanilla, A Hermosín, E Crespo-Vallejo, C A Rodríguez-Arias

42 Distal anterior cerebral artery aneurysms treated with flow diversion: experience of a large-volume center and systematic review of the literature
F Cagnazzo, A Fanti, P-H Lefevre, I Derraz, C Dargazanli, G Gascou, C Riquelme, R Ahmed, A Bonafe, V Costalat

49 Early experience treating intracranial aneurysms using Accero: a novel, fully visible, low profile braided stent with platinum–nitinol composite wire technology
A Nania, N Dobbs, J DuPlessis, P Keston, J Downer

54 Review of current intracranial aneurysm flow diversion technology and clinical use
S Dandapat, A Mendez-Ruiz, M Martínez-Galdámez, J Macho, S Derakhshani, G Foa Torres, V M Pereira, A Arat, A K Wakhloo, S Ortega-Gutierrez

Spine

63 The 'armed concrete' approach: stent-screw-assisted internal fixation (SAIF) reconstructs and internally fixates the most severe osteoporotic vertebral fractures
D Distefano, P Scarone, M Isalberti, L La Barbera, T Villa, G Bonaldi, J A Hirsch, A Cianfoni

69 Four-dimensional digital subtraction angiography for exploration of spinal cord vascular malformations: preliminary experience
F Clarençon, S Lenck, E Shotar, A-L Boch, E Lefevre, K Premat, M D M Amador, N-A Sourour

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/>

This symbol represents commissioned articles.

Member since 2009
JMO4666

This journal is a member of and subscribes to the principles of the Committee on Publication Ethics <http://publicationethics.org/>

recycle
When you have finished with this please recycle it

- 75** Transforaminal intrathecal delivery of nusinersen for older children and adults with spinal muscular atrophy and complex spinal anatomy: an analysis of 200 consecutive injections

J J Weaver, D K Hallam, J F B Chick, S Vaidya, D S Shin, N Natarajan, N Rad, J Reis, K S H Koo, G M Shivaram, A Thibodeau, S Apkon, E J Monroe

Clinical Neurology

- 79** Quality of life, need for retreatment, and the re-equilibration phenomenon after venous sinus stenting for idiopathic intracranial hypertension

R M Garner, J B Aldridge, S Q Wolfe, K M Fargen

Basic science

- 86** Promoting endothelialization of flow-diverting stents: a review

K Panchendrabose, S Muram, A P Mitha

Standards

- 91** Lower complication rates associated with transradial versus transfemoral flow diverting stent placement

Y Li, S H Chen, A M Spiotta, P Jabbour, M R Levitt, P Kan, C J Griessenauer, A S Arthur, J W Osbun, M S Park, N Chalouhi, A Sweid, S Q Wolfe, K M Fargen, A S Dumont, T M Dumont, M-C Brunet, S Sur, E Luther, A Strickland, D R Yavagal, E C Peterson, C M Schirmer, O Goren, S Dalal, G Weiner, A Rosengart, D Raper, C-J Chen, P Amenta, T Scullen, C M Kelly, C Young, M Nahhas, E Almallouhi, A Gunasekaran, S Pai, G Lanzino, W Brinjikji, M Abbasi, D Dornbos III, N Goyal, J Peterson, M H El-Ghanem, R M Starke

Technical video

- 96** Radial access for neurointervention: room set-up and technique for diagnostic angiography

S H Chen, E C Peterson