



Cover image: Brain tree.

Editor

Matthew C Kiernan (Australia)

Deputy EditorsKaren L Furie (USA)
Satoshi Kuwabara (Japan)
Lawrence Wong (China)**Associate Editors**Alan Carson (UK)
Nick Ward (UK)
Peter Warnke (USA)**Commissioning Editor**

Martin Turner (UK)

Web EditorsClare Caldwell
Arun Krishnan
Cindy Lin
Steve Vucic**JNNP Blog Editors**Jose Manuel Matamala
Thanuja Dharmadasa**JNNP Facebook Editors**Cindy Lin
William Huynh**Editors, Practical Neurology**Geraint Fuller (UK)
Phil Smith (UK)**Editorial Office***Journal of Neurology Neurosurgery & Psychiatry*

BMJ Publishing Group Ltd

BMA House

Tavistock Square

London WC1H 9JR, UK

T: +44 (0)20 7383 6909

F: +44 (0)20 7383 6668

E: jnnp@bmj.com

Twitter: @JNNP_BMJ

ISSN: 0022-3050 (print)

ISSN: 1468-330X (online)

Impact factor: 7.349

Disclaimer: *JNNP* is published by BMJ Publishing Group Ltd, a wholly owned subsidiary of the British Medical Association. The BMJ Group grants editorial freedom to the Editor of *JNNP*. *JNNP* follows guidelines on editorial independence produced by the World Association of Medical Editors and the code on good publication practice of the Committee on Publication Ethics.

JNNP is intended for medical professionals and is provided without warranty, express or implied. Statements in the journal are the responsibility of their authors and advertisers and not authors' institutions, the BMJ Publishing Group or the BMA unless otherwise specified or determined by law. Acceptance of publication does not imply endorsement.

To the fullest extent permitted by law, the BMJ Publishing Group shall not be liable for any loss, injury or damage resulting from the use of *JNNP* or any information in it whether based on contract, tort or otherwise. Readers are advised to verify any information they choose to rely on.

Copyright: © 2018 BMJ Publishing Group. 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.

JNNP 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 from sustainable forests.

Journal of Neurology Neurosurgery & Psychiatry (ISSN No: 0022-3050) 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 Neurology Neurosurgery & Psychiatry*, Air Business Ltd, c/o Worldnet Shipping Inc., 156-15, 146th Avenue, 2nd Floor, Jamaica, NY 11434, USA

Editorial commentaries

227 Marriage and risk of dementia: systematic review and meta-analysis of observational studies
C P L H Chen, V C T Mok

228 Chitotriosidase: shucking the role of microglia in amyotrophic lateral sclerosis
H Zetterberg

230 Pragmatic approach to muscle MRI biomarkers in motor neuron disease
N G Simon

Cognition

231 Marriage and risk of dementia: systematic review and meta-analysis of observational studies
A Sommerlad, J Ruegger, A Singh-Manoux, G Lewis, G Livingston

Neuro-inflammation

239 Chitotriosidase (CHIT1) is increased in microglia and macrophages in spinal cord of amyotrophic lateral sclerosis and cerebrospinal fluid levels correlate with disease severity and progression
P Steinacker, F Verde, L Fang, E Feneberg, P Oeckl, S Roeber, S Anderl-Straub, A Danek, J Diehl-Schmid, K Fassbender, K Fliessbach, H Foerstl, A Giese, H Jahn, J Kassubeck, J Kornhuber, G B Landwehrmeyer, M Lauer, E H Pinkhardt, J Prudlo, A Rosenbohm, A Schneider, M L Schroeter, H Tumani, C A F von Arnim, J Weishaupt, P Weydt, A C Ludolph, D Yilmazer Hanke, M Otto, FTLDC study group

Neuromuscular

248 Imaging muscle as a potential biomarker of denervation in motor neuron disease
T M Jenkins, J J P Alix, C David, E Pearson, D G Rao, N Hoggard, E O'Brien, K Baster, M Bradburn, J Bigley, C J McDermott, I D Wilkinson, P J Shaw

256 Quality of life in inflammatory neuropathies: the IN-QoL
T H P Draak, C G Faber, I S J Merkies, on behalf of the PeriNomS study Group

Cerebrovascular disease

263 Outcome of intracerebral haemorrhage related to non-vitamin K antagonists oral anticoagulants versus vitamin K antagonists: a comprehensive systematic review and meta-analysis
G Boulouis, A Morotti, M Pasi, J N Goldstein, M E Gurol, A Charidimou

271 Serotonin transporter gene polymorphisms may be associated with poststroke neurological recovery after escitalopram use
E-J Lee, M-S Oh, J S Kim, D-I Chang, J-H Park, J-K Cha, J H Heo, S-I Sohn, D-E Kim, H Y Kim, J Kim, W-K Seo, J Lee, S-W Park, Y J Kim, B-C Lee, for the EMOTION investigators

277 Contemporary endovascular and open aneurysm treatment in the era of flow diversion
M D Mazur, P Tausky, M S Park, W T Couldwell

287 Mechanisms of poststroke fatigue
W De Doncker, R Dantzer, H Ormstad, A Kuppuswamy

Cognitive neurology

294 Clinical utility of amyloid PET imaging with (18)F-florbetapir: a retrospective study of 100 patients
C J Carswell, Z Win, K Muckle, A Kennedy, A Waldman, G Dave, T D Barwick, S Khan, P A Malhotra, R J Perry

MORE CONTENTS ►

EDITOR'S CHOICE

This article has been chosen by the Editor to be of special interest or importance and is freely available online.



PATIENT'S CHOICE

This article has been chosen in conjunction with the BMJ Patient Forum to be of particular interest to patients and is freely available online.



OPEN ACCESS

This article has been made freely available online under the BMJ Journals Open Access scheme. See <http://jnnp.bmj.com/site/about/guidelines.xhtml#open>

The article is part of the Impact Commentaries series

Member since 2008
JM00010This journal is a member of and subscribes to the principles of the Committee on Publication Ethics
<http://publicationethics.org/>

equator network



When you have finished with this magazine please recycle it.



The online version of this article contains multiple choice questions hosted on BMJ Learning.

Neurogenetics

- 300** mtDNA copy number associated with age of onset in familial amyloid polyneuropathy
D Santos, M J Santos, M Alves-Ferreira, T Coelho, J Sequeiros, I Alonso, P Oliveira, A Sousa, C Lemos, M Grazina

Sleep disorders

- 305** Sleep and REM sleep behaviour disorder in Parkinson's disease with impulse control disorder
M L Fantini, M Figorilli, I Arnulf, M Zibetti, B Pereira, P Beudin, M Puligheddu, F Cormier-Dequaire, L Lacomblez, E Benchetrit, J C Corvol, A Cicolin, L Lopiano, A Marques, F Durif

Neurological picture

- 311** Left hemispheric status epilepticus with crossed cerebellar diaschisis
MCQs
M A N Ferilli, V Brunetti, E M Costantini, G D Marca

PostScript

- 313** Letters



89 (3)

J Neurol Neurosurg Psychiatry 2018 89: 227-326

Updated information and services can be found at:

<http://jnp.bmj.com/content/89/3>

These include:

**Email alerting
service**

Receive free email alerts when new articles cite this article. Sign up in the box at the top right corner of the online article.

Notes

To request permissions go to:

<http://group.bmj.com/group/rights-licensing/permissions>

To order reprints go to:

<http://journals.bmj.com/cgi/reprintform>

To subscribe to BMJ go to:

<http://group.bmj.com/subscribe/>