



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**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 advertising 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: © 2017 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

- 807** Is MOG-IgG another biomarker for neuromyelitis optica?
I Nakashima
- 808** Novel evidence associates higher plasma α -synuclein levels and cognitive impairment in Parkinson's disease
D Aarsland, A P Rajkumar, A Hye
- 809** Pseudobulbar affective disorder, emotion and the brain
M Swash, M R Trimble

Multiple sclerosis

- 811** Longitudinal analysis of myelin oligodendrocyte glycoprotein antibodies in CNS inflammatory diseases
J-W Hyun, M R Woodhall, S-H Kim, I H Jeong, B Kong, G Kim, Y Kim, M S Park, S R Irani, P Waters, H J Kim

Neurodegeneration

- 818** Plasma α -synuclein predicts cognitive decline in Parkinson's disease
C-H Lin, S-Y Yang, H-E Horng, C-C Yang, J-J Chieh, H-H Chen, B-H Liu, M-J Chiu
- 825** Laughter, crying and sadness in ALS
N J Thakore, E P Pioro

Neuromuscular

- 832** Intravenous immunoglobulin for maintenance treatment of chronic inflammatory demyelinating polyneuropathy: a multicentre, open-label, 52-week phase III trial
S Kuwabara, M Mori, S Misawa, M Suzuki, K Nishiyama, T Mutoh, S Doi, N Kokubun, M Kamijo, H Yoshikawa, K Abe, Y Nishida, K Okada, K Sekiguchi, K Sakamoto, S Kusonoki, G Sobue, R Kaji, on behalf of the Glovenin-I CIDP Study Group

- 839** Clinical, physiological and pathological characterisation of the sensory predominant peripheral neuropathy in copper deficiency
S W Taylor, R S Laughlin, N Kumar, B Goodman, C J Klein, P J Dyck, P J B Dyck

- 846** Peripheral neuropathy in complex inherited diseases: an approach to diagnosis
A M Rossor, A S Carr, H Devine, H Chandrashekar, A L Pelayo-Negro, D Pareyson, M E Shy, S S Scherer, M M Reilly

Neurogenetics

- 864** Genetic variation in the gene *LRP2* increases relapse risk in multiple sclerosis
Y Zhou, J S Graves, S Simpson, J C Charlesworth, I van der Mei, E Waubant, L F Barcellos, A Belman, L Krupp, R Lucas, A-L Ponsonby, B V Taylor, Ausimmune/AusLong investigators group
- 869** *TBK1* mutations in Italian patients with amyotrophic lateral sclerosis: genetic and functional characterisation
L Pozzi, F Valenza, L Mosca, A Dal Mas, T Domi, A Romano, C Tarlarini, Y M Falzone, L Tremolizzo, G Sorarù, F Cerri, P M Ferraro, S Basaia, F Agosta, R Fazio, M Comola, G Comi, M Ferrari, A Quattrini, C Lunetta, S Penco, D Bonanomi, P Carrera, N Riva

Neuro-inflammation

- 876** Peripheral inflammatory markers in Alzheimer's disease: a systematic review and meta-analysis of 175 studies
K S P Lai, C S Liu, A Rau, K L Lanciôt, C A Köhler, M Pakosh, A F Carvalho, N Herrmann

Movement disorders

- 883** Tracking and predicting disease progression in progressive supranuclear palsy: CSF and blood biomarkers
E Jabbari, H Zetterberg, H R Morris

PostScript

- 889** Letters



OPEN ACCESS



EDITOR'S CHOICE



PATIENT'S CHOICE



OPEN ACCESS



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

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

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
JM00010

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 magazine please recycle it.



88 (10)

J Neurol Neurosurg Psychiatry 2017 88: 807-896

Updated information and services can be found at:
<http://jnp.bmj.com/content/88/10>

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/>