



Cover image: Mental Fitness, based on the image by Richard Tuschman.
Credit: Getty Images

Editor

Matthew C Kiernan (Australia)

Deputy Editors

Karen L Furie (USA)

Michael Hanna (UK)

Associate Editors

Alan Carson (UK)

Satoshi Kuwabara (Japan)

Nick Ward (UK)

Peter Warnke (USA)

Web Editors

Clare 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: 5.58

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: © 2014 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 Techset, 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.

Contents

Volume 85 Issue 12 | JNNP December 2014

Editorial commentaries

1291 Exercise, dominant hand and neurodegeneration

S Kuwabara, S Misawa

1292 The link between hyperoxia, delayed cerebral ischaemia and poor outcome after aneurysmal SAH: association or therapeutic endeavour

R M Starke, N F Kassell

1293 Deep grey matter involvement in multiple sclerosis: key player or bystander?

I Kawachi

Cerebrovascular disease

1294 Socioeconomic deprivation and provision of acute and long-term care after stroke: the South London Stroke Register cohort study

R Chen, C McKeivitt, S L Crichton, A G Rudd, C D A Wolfe

1301 Hyperoxia may be related to delayed cerebral ischemia and poor outcome after subarachnoid haemorrhage

S-B Jeon, H A Choi, N Badjatia, J M Schmidt, H Lantigua, J Claassen, E S Connolly, S A Mayer, K Lee

1308 Stroke in Asia: geographical variations and temporal trends

M M Mehndiratta, M Khan, P Mehndiratta, M Wasay

1313 Mortality following stroke during and after acute care according to neighbourhood deprivation: a disease registry study

O Grimaud, E Leray, B Lalloué, R Aghzaf, J Durier, M Giroud, Y Béjot

1319 Treatment of cerebral cavernous malformations: a systematic review and meta-regression analysis

M H F Poorthuis, C J M Klijn, A Algra, G J E Rinkel, R A-S Salman

1324 Progression of cognitive impairment in stroke/TIA patients over 3 years

P S Sachdev, D M Lipnicki, J D Crawford, W Wen, H Brodaty

1331 Stress resilience in male adolescents and subsequent stroke risk: cohort study

C Bergh, R Udumyan, K Fall, Y Nilsagård, P Appelros, S Montgomery

1337 Measuring functional recovery in stroke patients: the responsiveness of ACTIVLIM-Stroke

C S Batcho, I Nduwimana, J Olouka, V Halkin, T G Kpadonou, J-L Thonnard

1343 The pathophysiology and treatment of delayed cerebral ischaemia following subarachnoid haemorrhage

K P Budohoski, M Guilfoyle, A Helmy, T Huuskonen, M Czosnyka, R Kirolos, D K Menon, J D Pickard, P J Kirkepatrick

Neuromuscular

1354 Is overwork weakness relevant in Charcot-Marie-Tooth disease?

G Piscosquito, M M Reilly, A Schenone, G M Fabrizi, T Cavallaro, L Santoro, G Vita, A Quattrone, L Padua, F Gemignani, F Visioli, M Laurà, D Calabrese, R A C Hughes, D Radice, A Solari, D Pareyson, for the CMT-TRIAAL & CMT-TRAUK Group

1359 Two recurrent mutations are associated with GNE myopathy in the North of Britain

A Chaouch, K M Brennan, J Hudson, C Longman, J McConville, P J Morrison, M E Farrugia, R Petty, W Stewart, F Norwood, R Horvath, P F Chinnery, D Costigan, J Winer, T Polvikoski, E Healy, A Sarkozy, T Evangelista, O Pogoryelova, M Eagle, K Bushby, V Straub, H Lochmüller

MORE CONTENTS ►



PATIENT'S CHOICE

M H F Poorthuis, C J M Klijn, A Algra, G J E Rinkel, R A-S Salman



PATIENT'S CHOICE

P S Sachdev, D M Lipnicki, J D Crawford, W Wen, H Brodaty



OPEN ACCESS

C Bergh, R Udumyan, K Fall, Y Nilsagård, P Appelros, S Montgomery



EDITOR'S CHOICE

This article has been chosen by the Editor to be of special interest and 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

C O P E COMMITTEE ON PUBLICATION ETHICS

This journal is a member of and subscribes to the principles of the Committee on Publication Ethics

<http://publicationethics.org/>

equator network

recycle

When you have finished with this magazine please recycle it.

Neurosurgery

- 1366** A risk factor analysis of prospective symptomatic haemorrhage in adult patients with cerebral cavernous malformation
J S Jeon, J E Kim, Y S Chung, S Oh, J H Ahn, W-S Cho, Y-J Son, J S Bang, H-S Kang, C-H Sohn, C W Oh
- 1371** Long-term outcome of deep brain stimulation in generalised dystonia: a series of 60 cases
J J FitzGerald, F Rosendal, N de Pennington, C Joint, B Forrow, C Fletcher, A L Green, T Z Aziz
- 1377** White matter connections of the supplementary motor area in humans
F Vergani, L Lacerda, J Martino, J Attems, C Morris, P Mitchell, M Thiebaut de Schotten, F Dell'Acqua

Multiple sclerosis

- 1386** Multiple sclerosis deep grey matter: the relation between demyelination, neurodegeneration, inflammation and iron
L Haider, C Simeonidou, G Steinberger, S Hametner, N Grigoriadis, G Deretzi, G G Kovacs, A Kutzelnigg, H Lassmann, J M Frischer
- 1396** Imaging outcomes for trials of remyelination in multiple sclerosis
S Mallik, R S Samson, C A M Wheeler-Kingshott, D H Miller

Sleep disorders

- 1405** Treatment of sleep apnoea syndrome decreases cognitive decline in patients with Alzheimer's disease
A-C Troussière, C M Charley, J Salleron, F Richard, X Delbeuck, P Derambure, F Pasquier, S Bombois

Neurological picture

- 1409** Brachial palsy after deep sleep
V Di Lazzaro, F Giambattistelli, E Pravatà, G Assenza

Neuropsychiatry

- 1411** Neuropsychiatric symptoms in a European Huntington's disease cohort (REGISTRY)
E van Duijn, D Craufurd, A A M Hubers, E J Giltay, R Bonelli, H Rickards, K E Anderson, M R van Walsem, R C van der Mast, M Orth, G B Landwehrmeyer, the European Huntington's Disease Network Behavioural Phenotype Working Group

Movement disorders

- 1419** Long-term outcome of subthalamic nucleus deep brain stimulation for Parkinson's disease using an MRI-guided and MRI-verified approach
I Aviles-Olmos, Z Kefalopoulou, E Tripoliti, J Candelario, H Akram, I Martinez-Torres, M Jahanshahi, T Foltynie, M Hariz, L Zrinzo, P Limousin

Cognitive neurology

- 1426** Biomarkers in dementia: clinical utility and new directions
R M Ahmed, R W Paterson, J D Warren, H Zetterberg, J T O'Brien, N C Fox, G M Halliday, J M Schott

PostScript

- 1435** Letters

Receive regular table of contents by email.

Register using this QR code.

