



Cover image: M.C. Escher's "Rind".
© The M.C. Escher Company-Holland.
All rights reserved. www.mcescher.com

Editor

Matthew C Kiernan (Australia)

Deputy Editor

Michael Hanna (UK)

Associate Editors

Simon Fleminger (UK)

Didier Leys (France)

Philip Scheltens (The Netherlands)

Peter Warnke (USA)

Web Editor

Rustam Al-Shahi (UK)

Editor, Practical Neurology

Charles Warlow (UK)

Editorial Board

See page iv

Editorial Office

Journal of Neurology Neurosurgery & Psychiatry

BMJ Publishing Group Ltd

BMA House

Tavistock Square

London WC1H 9JR, UK

T: +44 (0)20 7833 6147

F: +44 (0)20 7383 6668

E: jnnp@bmjgroup.com

ISSN: 0022-3050 (print)

ISSN: 1468-330X (online)

Impact factor: 4.622

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: © 2010 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 TNQ Books & Journals, Chennai, India and printed in the UK on acid-free paper from sustainable forests by Latimer Trend, Plymouth, UK.

Journal of Neurology Neurosurgery & Psychiatry (ISSN No. 0022-3050) is published monthly by BMJ Publishing Group and distributed in the USA by Mercury International Ltd, as mailing agent. Periodicals postage paid at Rahway, NJ.

POSTMASTER: send address changes to *Journal of Neurology Neurosurgery & Psychiatry*, Mercury International Ltd, 365 Blair Road, Avenel, NJ, 07001, USA.

Contents

Volume 81 Number 2 | JNNP February 2010

Editorial commentaries

127 Measuring case complexity in neurological rehabilitation
D Wade

128 Roll on genetics of PARK and Parkinsonism in the developing world
R N Kalaria, R Akinyemi

129 Anticholinergic activity and cognitive decline in Parkinson's disease
S E Starkstein

Epilepsy

130 Awake seizures after pure sleep-related epilepsy: a systematic review and implications for driving law
RH Thomas, WH King, JA Johnston, PEM Smith

136 Individual white matter fractional anisotropy analysis on patients with MRI negative partial epilepsy
T Duning, C Kellinghaus, S Mohammadi, H Schiffbauer, S Keller, E B Ringelstein, S Knecht, M Deppe

Cognition and dementia

140 Standardised measurement of self-awareness deficits in FTD and AD
C Williamson, O Alcantar, J Rothlind, D Cahn-Weiner, B L Miller, H J Rosen

146 The Rehabilitation Complexity Scale version 2: a clinimetric evaluation in patients with severe complex neurodisability
L Turner-Stokes, H Williams, R J Siegert

154 Utilisation behaviour in frontotemporal dementia
A Ghosh, A Dutt

157 Attention deficits in Alzheimer's disease and vascular dementia
B McGuinness, S L Barrett, D Craig, J Lawson, A P Passmore

Movement disorders

160 Use of drugs with anticholinergic effect and impact on cognition in Parkinson's disease: a cohort study
U Ehrh, K Broich, J P Larsen, C Ballard, D Aarsland

166 Genetic screening reveals high frequency of PARK2 mutations and reduced Parkin expression conferring risk for Parkinsonism in North West India
M Vinish, S Prabhakar, M Khullar, I Verma, A Anand

171 The instrumented timed up and go test: potential outcome measure for disease modifying therapies in Parkinson's disease
C Zampieri, A Salarian, P Carlson-Kuhta, K Aminian, J G Nutt, F B Horak

177 Comparative analysis of gait and speech in Parkinson's disease: hypokinetic or dysrhythmic disorders?
S Cantiniaux, M Vaugoyeau, D Robert, C Horrelou-Pitek, J Mancini, T Witjas, J-P Azulay

Stroke and cardiovascular disease

185 MR diffusion and perfusion parameters: relationship to metabolites in acute ischaemic stroke
V Cvro, I Marshall, P A Armitage, M E Bastin, T Carpenter, C S Rivers, M S Dennis, J M Wardlaw

192 Blood-brain barrier permeability is increased in normal-appearing white matter in patients with lacunar stroke and leucoaraiosis
R Topakian, TR Barrick, FA Howe, HS Markus

198 The impact of lesion location and lesion size on poststroke infection frequency
J Minnerup, H Wersching, B Brokinkel, R Dziewas, P U Heuschmann, D G Nabavi, E B Ringelstein, W-R Schäbitz, M A Ritter

Neurological picture

203 Atherosclerosis in congenital azygous solitary A2 anterior cerebral artery with simultaneous bifrontal infarctions
P K Loh, V K Sharma

Multiple sclerosis

204 Brain atrophy and lesion load measures over 1 year relate to clinical status after 6 years in patients with clinically isolated syndromes
M Di Filippo, V M Anderson, D R Altmann, J K Swanton, G T Plant, A J Thompson, D H Miller

MORE CONTENTS ►



This article has been chosen by the Editor to be of specialist 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.



Articles carrying the Unlocked Logo are freely available online under the BMJ Journals unlocked scheme. See <http://jnnp.bmj.com/info/unlocked.dtl>

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

www.publicationethics.org.uk



- 209** Longitudinally extensive myelopathy in Caucasians: a West Australian study of 26 cases from the Perth Demyelinating Diseases Database
W Qiu, J-S Wu, M-N Zhang, T Matsushita, J-i Kira, W M Carroll, F L Mastaglia, A G Kermode
-

Neurological picture

- 213** Primary Sjögren syndrome presenting as neuromyelitis optica
M H Rabadi, S Kundi, D Brett, R Padmanabhan
-

Neurodegenerative diseases

- 215** Cancer in patients with motor neuron disease, multiple sclerosis and Parkinson's disease: record linkage studies
A F Fois, C J Wotton, D Yeates, M R Turner, M J Goldacre
-

- 222** Upregulation of persistent sodium conductances in familial ALS
S Vucic, M C Kiernan

- 228** Late-onset Huntington disease with intermediate CAG repeats: true or false?
J L Groen, R MA de Bie, E MJ Foncke, R AC Roos, K L Leenders, M AJ Tijssen
-

Nerve and muscle

- 231** Riboflavin-responsive lipid-storage myopathy caused by *ETFDH* gene mutations
B Wen, T Dai, W Li, Y Zhao, S Liu, C Zhang, H Li, J Wu, D Li, C Yan