2020 Vision
1243 Isaacs syndrome: the frontier of neurology, psychiatry, immunology and cancer
S B Park, R Thurlow, M C Kiernan

Editorial
1245 Epilepsy, an orphan disorder within the neurodevelopmental family
R Shankar, B Petrea, R H Thomas

Editorial commentaries
1248 When hearing loss masquerades as cognitive decline
C Fullgrabe
1249 High mortality rate in COVID-19–associated stroke, analysis of risk factors
L Renieri
1250 Metabolic insights into neurodegenerative disease
M C Kiernan
1251 More time, more safety: is this the future optimal way for natalizumab treatment in multiple sclerosis?
P Annunziata
1252 Does contact sport lead to despair? R Zafonte
1254 Prognostic value of acute CT in stroke thrombolysis
K W Muir
1255 Curious case of FTD-ALS
K A Josephs

Movement disorders
1261 Biomarkers in functional movement disorders: a systematic review
B L C Thomsen, T Tedors, M J Edwards
1270 Comparison between deep brain stimulation and magnetic resonance-guided focused ultrasound in the treatment of essential tremor: a systematic review and pooled analysis of functional outcomes
M Giordano, V M Cacavella, I Zated, I Foglia Manzillo, N Montano, A Olivi, F M Pelli

Cognitive neurology
1279 Inside minds, beneath diseases: social cognition in amyotrophic lateral sclerosis-frontotemporal spectrum disorder
P Lillo, P Casamelli, G Musa, T Parnao, R Hughes, A Aragon, D Valenzuela, G Cej, R Arangaz, H C G Amandes, L Rousseff, L B Cambo, I L Mariano, A L Teixeira, A Sláčišký, L C de Souza

Cerebrovascular disease
1283 Carotid web: an occult mechanism of embolic stroke
B Mac Grory, B J Emmett, S D Rosseendaal, D Zagzag, S Yaghi, E Nossek
1290 Brain imaging abnormalities and outcome after acute ischaemic stroke: the ENCHANTED trial

Neuropsychiatry
1256 Mental health and suicide in former professional soccer players
E R Russell, T McCabe, D F Mackey, K Stewart, J A Maclean, J P Pell, W Stewart

MORE CONTENTS ➤
## Multiple sclerosis

### 1297 Clinical effectiveness of different natalizumab interval dosing schedules in a large Italian population of patients with multiple sclerosis

C G Chisari, L M Grimaldi, G Salmieri, P Ragone, P Iaffaldano, S Bonavita, M Sporaco, M Rovaris, A D’Anna, A Lugaresi, M T Ferrò, P Grassi, A Di Sapio, E Cocca, F Granella, E Curti, V Lepore, M Trojano, F Patti, on behalf of the Italian MS Register Study Group

### 1339 Serum IgG anti-GD1a antibody and mEGOS predict outcome in Guillain-Barré syndrome


## Neurodegeneration

### 1304 Cognition and behaviour in frontotemporal dementia with and without amyotrophic lateral sclerosis

J A Saxon, J C Thompson, J M Harris, A M Richardson, T Langheinrich, S Rollinson, S Pickering-Brown, A Chau, J Easting, H Hamdalla, C A Young, D Blackburn, T Majeeed, C Call, M Jones, J S Snowden

### 1312 Relationship between smoking and ALS: Mendelian randomisation interrogation of causality

S Opie-Martin, R E Wootton, A Budu-Aggrey, A Shatunov, A R Jones, A Iaconetti, A Al Khleifat, G Davey-Smith, A Al-Chalabi

### 1316 Anti-Aβ agents for mild to moderate Alzheimer’s disease: systematic review and meta-analysis

I Lu, X Zheng, S Wang, C Tang, Y Zhang, G Yao, J Zeng, S Ge, H Wen, M Xu, G Guyan, N Xu

### 1325 Abnormal pain perception is associated with thalamo-cortico-striatal atrophy in C9orf72 expansion carriers in the GENFI cohort


## Neurosurgery

### 1343 Pallidal deep brain stimulation in primary Meige syndrome: clinical outcomes and psychiatric features

Q Hao, D Wang, J Ou-Yang, H Ding, G Wu, Z Liu, Ren Liu

### 1349 Deep brain stimulation of the subthalamic nucleus in obsessive–compulsives disorders: long-term follow-up of an open, prospective, observational cohort


## Neurological picture

### 1357 Recognising hemihypomimia as a mimic of ‘facial weakness’

O Phillips, A D’Abreu, J H Friedman, V Akbar

## PostScript

### 1359 Letters

### Electronic pages

#### e3 Correction: Early symptoms in symptomatic and preclinical genetic frontotemporal lobar degeneration

S A Crompton, J Boss, K Gao, F M Alekweea, A Patterson, S Kim, M G Savellieff, J Hu, E L Feldman

#### e4 Correction: Biomarkers predict outcome in Charcot-Marie-Tooth disease 1A