

Epilepsia[®]

The Journal of the International League Against Epilepsy

TABLE OF CONTENTS

Volume 58, Number 11, November 2017

CRITICAL REVIEW AND INVITED COMMENTARY

I807

Dravet syndrome and its mimics: Beyond *SCN1A*

Dora Steel, Joseph D. Symonds, Sameer M. Zuberi, and Andreas Brunklaus

doi: 10.1111/epi.13889; Published online: 7 September 2017

I817

Automated analysis of seizure semiology and brain electrical activity in presurgery evaluation of epilepsy: A focused survey

David Ahmedt-Aristizabal, Clinton Fookes, Sasha Dionisio, Kien Nguyen, João Paulo S. Cunha, and Sridha Sridharan

doi: 10.1111/epi.13907; Published online: 9 October 2017

FULL-LENGTH ORIGINAL RESEARCH

I832

Epilepsy surgery of “low grade epilepsy associated neuroepithelial tumors”: A retrospective nationwide Italian study

Marco Giulioni, Gianluca Marucci, Veronica Pelliccia, Francesca Gozzo, Carmen Barba, Giuseppe Didato, Flavio Villani, Giancarlo Di Gennaro, Pier Paolo Quarato, Vincenzo Esposito, Alessandro Consales, Matteo Martinoni, Gianfranco Vornetti, Corrado Zenesini, Carlo Efisio Marras, Nicola Specchio, Luca De Palma, Raffaele Rocchi, Flavio Giordano, Giovanni Tringali, Paolo Nozza, Gabriella Colicchio, Guido Rubboli, Giorgio Lo Russo, Renzo Guerrini, Paolo Tinuper, Francesco Cardinale, and Massimo Cossu, On behalf of the Commission for Epilepsy Surgery of the Italian League Against Epilepsy

doi: 10.1111/epi.13866; Published online: 14 August 2017

I842

Postoperative seizure freedom does not normalize altered connectivity in temporal lobe epilepsy

Luigi Maccotta, Mayra A. Lopez, Babatunde Adeyemo, Beau M. Ances, Brian K. Day, Lawrence N. Eisenman, Joshua L. Dowling, Eric C. Leuthardt, Bradley L. Schlaggar, and Robert Edward Hogan

doi: 10.1111/epi.13867; Published online: 3 August 2017

I852

Identifying psychogenic seizures through comorbidities and medication history

Wesley T. Kerr, Emily A. Janio, Chelsea T. Braesch, Justine M. Le, Jessica M. Hori, Akash B. Patel, Norma L. Gallardo, Janar Bauirjan, Shannon R. D'Ambrosio, Andrea M. Chau, Eric S. Hwang, Emily C. Davis, Albert Buchard, David Torres-Barba, Mona Al Banna, Sarah E. Barritt, Andrew Y. Cho, Jerome Engel Jr, Mark S. Cohen, and John M. Stern

doi: 10.1111/epi.13888; Published online: 12 September 2017

TABLE OF CONTENTS

Volume 58, Number 11, November 2017

FULL-LENGTH ORIGINAL RESEARCH

1861

Detection of generalized tonic–clonic seizures using surface electromyographic monitoring

Jonathan J. Halford, Michael R. Sperling, Dileep R. Nair, Dennis J. Dlugos, William O. Tatum, Jay Harvey, Jacqueline A. French, John R. Pollard, Edward Faught, Katherine H. Noe, Thomas R. Henry, Gina M. Jetter, Octavian V. Lie, Lola C. Morgan, Michael R. Girouard, Damon P. Cardenas, Luke E. Whitmire, and Jose E. Cavazos

doi: 10.1111/epi.13897; Published online: 5 October 2017

1870

Multicenter clinical assessment of improved wearable multimodal convulsive seizure detectors

Francesco Onorati, Giulia Regalia, Chiara Caborni, Matteo Migliorini, Daniel Bender, Ming-Zher Poh, Cherise Frazier, Eliana Kovitch Thropp, Elizabeth D. Mynatt, Jonathan Bidwell, Roberto Mai, W. Curt LaFrance Jr, Andrew S. Blum, Daniel Friedman, Tobias Loddenkemper, Fatemeh Mohammadpour-Touserani, Claus Reinsberger, Simone Tognetti, and Rosalind W. Picard

doi: 10.1111/epi.13899; Published online: 4 October 2017

1880

Seizures, syndromes, and etiologies in childhood epilepsy: The International League Against Epilepsy 1981, 1989, and 2017 classifications used in a population-based cohort

Kari Modalsli Aaberg, Pål Surén, Camilla Lund Søråas, Inger Johanne Bakken, Morten I. Lossius, Camilla Stoltenberg, and Richard Chin

doi: 10.1111/epi.13913; Published online: 26 September 2017

1892

Remission of encephalopathy with status epilepticus (ESES) during sleep renormalizes regulation of slow wave sleep

Bigna K. Bölsterli, Elena Gardella, Elena Pavlidis, Flavia M. Wehrle, Carlo A. Tassinari, Reto Huber, and Guido Rubboli

doi: 10.1111/epi.13910; Published online: 27 September 2017

1902

Reduced infancy and childhood epilepsy following hypothermia-treated neonatal encephalopathy

Xun Liu, Sally Jary, Frances Cowan, and Marianne Thoresen

doi: 10.1111/epi.13914; Published online: 29 September 2017

1912

Emotional well-being in children with epilepsy: Family factors as mediators and moderators

Shane W. Goodwin, Piotr Wilk, M. Karen Campbell, and Kathy N. Speechley

doi: 10.1111/epi.13900; Published online: 26 September 2017

TABLE OF CONTENTS

Volume 58, Number 11, November 2017

FULL-LENGTH ORIGINAL RESEARCH

I 920

Validation of the PedsQL Epilepsy Module: A pediatric epilepsy-specific health-related quality of life measure

Avani C. Modi, Katherine F. Junger, Constance A. Mara, Tanja Kellermann, Lauren Barrett, Janelle Wagner, Grace A. Mucci, Laurie Bailey, Dace Almane, Shanna M. Guilfoyle, Lauryn Urso, Brooke Hater, Heather Hustzi, Gigi Smith, Bruce Herrmann, M. Scott Perry, Mary Zupanc, and James W. Varni

doi: 10.1111/epi.13875; Published online: 13 September 2017

I 931

Impaired bone and muscle development in young people treated with antiepileptic drugs

Peter J. Simm, Sebastian Seah, Alex Gorelik, Lauren Gilbert, Jennings Nuguid, George A. Werther, Mark T. Mackay, Jeremy L. Freeman, Sandra J. Petty, and John D. Wark

doi: 10.1111/epi.13893; Published online: 7 September 2017

I 939

Potential years lost and life expectancy in adults with newly diagnosed epilepsy

Claudia A. Granbichler, Georg Zimmermann, Willi Oberaigner, Giorgi Kuchukhidze, Jean-Pierre Ndayisaba, Alexandra Taylor, Gerhard Luef, Arne C. Bathke, and Eugen Trinka

doi: 10.1111/epi.13902; Published online: 28 September 2017

I 946

A randomized prospective pilot trial of Web-delivered epilepsy stigma reduction communications in young adults

Martha Sajatovic, Lynn K. Herrmann, Jamie R. Van Doren, Curtis Tatsuoka, Elisabeth Welter, Adam T. Perzynski, Ashley Bukach, Kelley Needham, Hongyan Liu, and Anne T. Berg

doi: 10.1111/epi.13911; Published online: 27 September 2017

I 955

On the relationship between calcified neurocysticercosis and epilepsy in an endemic village: A large-scale, computed tomography-based population study in rural Ecuador

Oscar H. Del Brutto, Gianfranco Arroyo, Victor J. Del Brutto, Mauricio Zambrano, and Héctor H. García

doi: 10.1111/epi.13892; Published online: 29 August 2017

I 962

Stereo-EEG: Diagnostic and therapeutic tool for periventricular nodular heterotopia epilepsies

Laura Mirandola, Roberto F. Mai, Stefano Francione, Veronica Pelliccia, Francesca Gozzo, Ivana Sartori, Lino Nobili, Francesco Cardinale, Massimo Cossu, Stefano Meletti, and Laura Tassi

doi: 10.1111/epi.13895; Published online: 7 September 2017

I 972

Bimodal coupling of ripples and slower oscillations during sleep in patients with focal epilepsy

Inkyung Song, Iren Orosz, Inna Chervoneva, Zachary J. Waldman, Itzhak Fried, Chengyuan Wu, Ashwini Sharan, Noriko Salamon, Richard Gorniak, Sandra Dewar, Anatol Bragin, Jerome Engel Jr, Michael R. Sperling, Richard Staba, and Shennan A. Weiss

doi: 10.1111/epi.13912; Published online: 26 September 2017

TABLE OF CONTENTS

Volume 58, Number 11, November 2017

FULL-LENGTH ORIGINAL RESEARCH

1985

Anti-ictogenic and antiepileptogenic properties of perampanel in mature and immature rats

Nina Dupuis, Julie Enderlin, Jeremy Thomas, Béatrice Desnoux, Pascal Dournaud, Delphine Allorge, and Stéphane Auvin

doi: 10.1111/epi.13894; Published online: 29 August 2017

1993

Alterations in the $\alpha_2\delta$ ligand, thrombospondin-1, in a rat model of spontaneous absence epilepsy and in patients with idiopathic/genetic generalized epilepsies

Ines Santolini, Roberta Celli, Milena Cannella, Tiziana Imbriglio, Michela Guiducci, Pasquale Parisi, Julian Schubert, Michele Iacomino, Federico Zara, Holger Lerche, EuroEPINOMICS CoGIE Consortium, Genetic Commission of Italian League Against Epilepsy (LICE), Slavianka Moyanova, Richard Teke Ngomba, Gilles van Luijtelaar, Giuseppe Battaglia, Valeria Bruno, Pasquale Striano, and Ferdinando Nicoletti

doi: 10.1111/epi.13898; Published online: 15 September 2017

2002

Serotonin reuptake inhibitors and mortality in epilepsy: A linked primary-care cohort study

Colin B. Josephson, Arturo Gonzalez-Izquierdo, Spiros Denaxas, Natalie K. Fitzpatrick, Tolulope T. Sajobi, Jordan D.T. Engbers, Scott Patten, Nathalie Jette, and Samuel Wiebe

doi: 10.1111/epi.13904; Published online: 24 September 2017

BRIEF COMMUNICATION

Online only: The following articles can be accessed in the electronic version of this issue at onlinelibrary.wiley.com

e152

Vascular, inflammatory, and metabolic factors associated with cognition in aging persons with chronic epilepsy

Bruce P. Hermann, Mark A. Sager, Rebecca L. Koscik, Kate Young, and Keith Nakamura

doi: 10.1111/epi.13891; Published online: 4 September 2017

We examined cognition in aging persons with chronic epilepsy, characterized targeted vascular (systolic/diastolic blood pressure, body mass index [BMI], total and HDL cholesterol, homocysteine), inflammatory (high sensitivity c-reactive protein [hs-CRP], interleukin-6 [IL-6]), and metabolic (insulin resistance (HOMA-IR), glucose) risk factors; and examined their association with cognition. Participants included 40 persons with chronic localization-related epilepsy and 152 controls, aged 54.6 and 55.3. Participants with epilepsy exhibited generalized cognitive impairment; abnormalities in BMI, hs-CRP, HOMA-IR and fasting glucose; with significant relationships between cognition and HOMA-IR, hs-CRP BMI, and HDL. Aging persons with epilepsy exhibit abnormalities in modifiable risk factors associated with abnormal cognition.

TABLE OF CONTENTS

Volume 58, Number 11, November 2017

BRIEF COMMUNICATION

e157

Brivaracetam does not modulate ionotropic channels activated by glutamate, γ -aminobutyric acid, and glycine in hippocampal neurons

Isabelle Niespodziany, Jean-Michel Rigo, Gustave Moonen, Alain Matagne, Henrik Klitgaard, and Christian Wolff

doi: 10.1111/epi.13890; Published online: 29 August 2017

Brivaracetam (BRV) is a novel anti-epileptic drug approved as adjunctive treatment for drug refractory partial-onset seizures. BRV contrasts LEV by displaying a higher affinity and distinct interaction with the SV2A protein. This study investigated the effects of BRV on inhibitory and excitatory ionotropic receptors in central hippocampal neurons using voltage-clamp experiments. BRV (up to 100 μ M) did not directly modulate GABA-A-, glycine-, kainate-, NMDA- and AMPA-gated currents but was shown to resemble LEV by opposing the action of negative modulators on inhibitory receptors.

GRAY MATTERS

2010

Announcements