

Learning Objectives:

- 1. Appreciate the need for new precision therapies for epilepsy to address more than just seizures.
- 2. Assess current standards in the care of women with epilepsy and review the best evidence-based counselling for fertility and seizure control in pregnancy.
- 3. Identify the clinical semiology and electrographic subtypes of seizures involving the cingulate gyrus, understand intracranial electrode implantation schemes for pre-surgical work-up of suspected cingulate epilepsies, and discuss seizure outcome and complications after cingulate epilepsy surgery.
- 4. Describe a number of growing areas of interest in epilepsy including: autoimmune-associated epilepsy, interictal epileptiform discharges as biomarkers of epilepsy, developmental epileptic encephalopathies, closed loop stimulation epilepsy surgery, epilepsy in neurocutaneous syndromes, sleep in epilepsy, and cannabinoid actions and interactions.

Please note:

All times listed in the program are in Eastern Standard Time.

A minimum of 25% of each session will be dedicated to participant interaction.

Friday, September 24, 202	1
11:00 a.m. – 11:05 a.m.	Delegates – Virtual Check-in
11:05 a.m. – 11:08 a.m.	Welcome from the CLAE Scientific Meeting Chair Dr. Aylin Reid
11:08 a.m. – 11:23 a.m.	Presidential Lecture Dr. Paolo Federico
11:23 a.m. – 11:43 a.m.	Canadian Epilepsy Alliance/Alliance canadienne de l'épilepsie Non-medical Burden of Epilepsy Cynthia Milburn, CEA President
11:43 a.m. – 11:45 a.m.	Wada Keynote Lecture Moderator Dr. Mary Connolly
11:45 a.m. – 12:45 p.m.	Wada Keynote Lecture From Mechanisms to Medicines: The Dawn of Precision and Disease Modifying Therapies for Epilepsy Dr. Amy Brooks-Kayal
	 Learning Objectives: At the end of this session, participants will be able to: Discuss the need for new therapies for epilepsy that are more precise, are disease modifying and address more than just seizures Describe new therapies that are in preclinical development that have the potential to transform the lives of people with epilepsy
12:45 p.m. – 1:15 p.m.	Break

Please visit the CLAE Scientific Meeting portal during breaks!

Concurrent Breakout Session A

1:15 p.m. - 3:00 p.m. #1

Autoimmune-Associated Epilepsy: Update on Definitions, Testing and Management

Chairs: Dr. Maryam N. Nouri, Western University and Dr. Seyed Mirsattari, Western University

Topics and Speakers:

Autoimmune Associated Epilepsy: New Concepts and Definitions

Dr. Claude Steriade, NYU Langone Health

EEG and Electro-clinical Correlation in Autoimmune Associated Epilepsy

Dr. Claude Steriade, NYU Langone Health

Recognition of Immune-mediated Epilepsy in Children

Dr. Maryam Nouri, Western University

Neural Antibody Testing in Autoimmune Associated Epilepsy

Dr. Adrian Budhram, Western University

Treatment Implications and Role Epilepsy Surgery in Autoimmune Associated Epilepsy

Dr. Seyed Mirsattari, Western University

Real World Cases: Clinical Pearls

Speaker Panel

Learning Objectives:

At the end of this session, participants will be able to:

- Describe the definition and the clinical significance of "acute symptomatic seizures secondary to autoimmune encephalitis" and "autoimmune associated epilepsy" according to ILAE autoimmunity task force
- Identify the role of EEG and electro-clinical findings of select autoimmune associated epilepsies
- Recognize the spectrum of immune-mediated epilepsy in children
- Discuss the utility and interpretation of neural antibody results in patients with autoimmune associated epilepsy
- Summarize therapeutic implications and epilepsy surgery considerations in autoimmune associated epilepsy

Target Audience:

Adult Neurologist, Child Neurologist, Neuroradiologist, Neurophysiologist, Resident, Fellow, Nurses

1:15 p.m. – 3:00 p.m. #2

Interictal Epileptiform Discharges as Biomarkers of Epilepsy: Recent Clinical and Preclinical Findings

Chairs: Dr. Peter L. Carlen, University of Toronto and Dr. Liang Zhang, University of Toronto

Topics and Speakers:

Are HFOs Able to Predict Epilepsy and Measure its Severity?

Dr. Julia Jacobs-LeVan, University of Calgary

Understanding Brain Activities During Trauma-induced Epileptogenesis Helps to Prevent Epilepsy

Dr. Sylvain Chauvette, Université Laval

Interictal Spiking as a Biomarker of Epileptogenesis in a Rodent Model of Mesial Temporal Lobe Epilepsy

Dr. Siyan Wang, McGill University

Longitudinal Changes of Interictal Activity in a Mouse Model of Extended Hippocampal Kindling and Relevance to Human Epilepsy

Dr. Uilki Tufa, University of Toronto

Round Table

Dr. Richard Wennberg, University of Toronto

Learning Objectives:

At the end of the session, participants will be able to:

- Differentiate main parameters and patterns of IEDs, particularly those associated with pathological HFOs
- Describe the significance of IEDs as biomarker of epileptogenic process
- Identify key issues in future investigation of IEDs

Target Audience:

Clinical and preclinical epilepsy researchers

1:15 p.m. – 3:00 p.m. #3

Developmental Epileptic Encephalopathies

Chairs: Dr. Sharon Whiting, University of Ottawa

Topics and Speakers:

An Introduction to DEE And PME in Canada

Dr. Puneet Jain, Hospital for Sick Children

Common and Novel Treatments for DEE/PME Patients

Dr. Karl Klein, University of Calgary

The Development of the DEE/PME Registry in Ontario

Dr. Danielle Andrade, University of Toronto

Discussion Panel

Dr. Mary Connolly, University of British Columbia, Dr. Sharon Whiting, University of Ottawa, Dr. Puneet Jain, Hospital for Sick Children, Dr. Karl Klein, University of Calgary, Dr. Danielle Andrade, University of Toronto

Learning Objectives:

	At the end of the session, participants will be able to: Define DEE and PME Describe common and novel treatment options for these patients Assess precision medicine Discuss the feasibility of a national DEE/PME registry Target Audience: This session will be geared towards clinicians and researchers working with patients with epilepsy within Canada; such as, neurologists, epileptologists, geneticists, and clinical researchers.
3:00 p.m. – 3:15 p.m.	Break Please visit the CLAE Scientific Meeting portal during breaks!
3:15 p.m. – 4:15 p.m.	CLAE Annual General Meeting Members Only Please note: The AGM is not accredited

Saturday, September 25, 2	021
9:55 a.m. – 10:00 a.m.	Delegates – Virtual Check-in
10:00 a.m. – 11:45 a.m.	Savoy Plenary Session: Women's Issues in Epilepsy Chairs: Dr. Esther Bui, University of Toronto, and Dr. Tad Fantaneanu, University of Ottawa
	Topics and Speakers: Fertility and Pregnancy for Women with Epilepsy - What Should We Tell Our Patients Dr. Page Pennell, Harvard School of Medicine
	A Personalized Approach to the Treatment of Women with Epilepsy Dr. Emma Voinescu, Harvard University
	Canadian Real-World Practice Patterns for Women with Epilepsy Dr. Tad Fantaneanu, University of Ottawa
	The North American Anti-epileptic Drug Pregnancy Registry: The Canadian Contribution Dr. Julien Hébert, Columbia University
	Breast Milk Transmission of Anti-epileptic Drugs - Lessons from Lamotrigine Dr. Shinya Ito, Hospital for Sick Children
	 Learning Objectives: At the end of the session, participants will be able to: Recognize current standards as well as the Canadian real-world practice patterns as they pertain to the care of women with epilepsy Identify current Canadian-specific data on antiepileptic drug use and related teratogenicity from a North American Pregnancy Registry Describe best evidence-based counselling as it pertains to fertility and seizure control in pregnancy for women with epilepsy Identify opportunities for individualized care for women with epilepsy Discuss the transmission of anti-epileptic drugs in breast milk and how this applies to counseling women with epilepsy in the post-partum stage
	Target Audience: All scientists and health care providers who study and/or provide care for women with epilepsy including clinician scientists, physicians, nurses, nurse practitioners and allied health care providers.
11:45 a.m. – 12:00 p.m.	Break Please visit the CLAE Scientific Meeting portal during breaks!
Concurrent Breakout Session	on B
12:00 p.m. – 1:45 p.m. #4	Epilepsy Surgery: Closed Loop Stimulation Chairs: Dr. Alexander G Weil, University of Montreal and Dr. Jonathan C Lau, University of Western Ontario

Topics and Speakers:

Vagal Nerve Stimulation and Deep Brain Targets of Epilepsy

Dr. George Ibrahim, Hospital for Sick Children

Fingerprints of Epilepsy

Dr. Birgit Frauscher, Montreal Neurological Institute and Hospital

Surgical Aspects of Closed Loop Stimulation

Dr. Jonathan Lau, Western University

Clinical Experiences with Responsive Neurostimulation

Dr. Katie Bullinger, Emory University

The Future of Closed Loop Stimulation

Dr. Taufik Valiante, Krembil Neuroscience Center and Toronto Western Hospital Research Institute

Learning Objectives:

At the end of the session, participants will be able to:

- Distinguish between different epilepsy targets of deep brain stimulation and novel recording technologies
- Identify intracranial EEG biomarkers of the ictal onset zone as well as propagation networks
- Consider nuances of implantation of closed loop devices
 Discuss outcomes of patients implanted with responsive neurostimulation devices
- Identify emerging technologies in closed loop stimulation

Target Audience:

Neurosurgery trainees or faculty, neurology trainees or faculty and radiologist trainees or faculty.

12:00 p.m. - 1:45 p.m. #5

Epilepsy in Neurocutaneous Syndromes

Chair: Dr. Aylin Reid, University of Toronto

Topics and Speakers:

Epilepsy in Neurocutaneous Syndromes in Children

Dr. Laura Flores-Sarnat, University of Calgary and Alberta Children's Hospital

Neuroimaging Manifestations of Neurocutaneous Syndromes

Dr. Elysa Widjaja, University of Toronto

Neuropathology of Neurocutaneous Syndromes

Dr. Harvey Sarnat, University of Calgary and Alberta Children's Hospital

Epilepsy in Adults with Neurofibromatosis

Dr. Aylin Reid, University of Toronto

Tuberous Sclerosis Complex as a Disease of Adults

Dr. Mark Keezer, Université de Montréal

Learning Objectives:

At the end of the session, participants will be able to:

- Distinguish neurocutaneous syndromes presenting with epilepsy in early life
- Describe the range of neuroimaging manifestations associated with neurocutaneous syndrome
- Compare the cerebral pathological findings in several disorders of the mTOR pathway, including tuberous sclerosis complex, hemimegalencephaly associated with epidermal nevi, and focal cortical dysplasia IIb
- Recognize the link between seizures/epilepsy and neurofibromatosis, including possible roles of the genetic mutation itself, and how this presents in children versus adults
- Summarize the key clinical and epidemiological aspects of tuberous sclerosis complex in adult populations, in particular how these differ from younger patients

Target Audience:

Pediatric and adult neurologists, trainees, neurosurgeons, allied health professionals, and basic scientists.

12:00 p.m. – 1:45 p.m. #6

Optimal Use of EEG

Chair: Dr. Dang Khoa Nguyen, Université de Montréal

Topics and Speakers:

Optimal Use of Routine EEG, Sleep EEG and Ambulatory EEG

Dr. Nizam Ahmed, University of Alberta

Optimal Use of Video-EEG in the Epilepsy Monitoring Unit (EMU)

Dr. Dang Khoa Nguyen, Université de Montréal

Optimal Use of Video-EEG in the Intensive Care Unit (ICU)

Dr. Teneille Gofton, Western University

Computational/Quantitative Analysis of EEG

Dr. Elie Bou Assi, Université de Montréal

Application of Quantitative Analysis to Routine EEG Recordings

Dr. Emile Lemoine, Centre Hospitalier de l'Université de Montréal

Learning Objectives:

At the end of the session, participants will be able to:

- Summarize the sensitivity and specificity of different types of EEG modalities
- Select the most appropriate EEG modality according to clinical scenario
- Describe how quantitative EEG analysis can be used for the analysis/classification of routine EEG recordings

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	Target Audience: This session is directed to clinical neurophysiologists, neurologists, epileptologists, neurosurgeons, engineers and trainees in these disciplines involved in the care of epileptic patients as well as researchers in the field of epilepsy.
1:45 p.m. – 2:15 p.m.	Break Please visit the CLAE Scientific Meeting portal during breaks!
Poster Tours	
2:15 p.m. – 3:00 p.m. Room 1	Clinical Epilepsy / EEG / Antiepileptics Chair: Dr. Steve Gibbs Dr. Karl Klein, Grissel Crasto, Dr. Jason Randhawa, Dr. Elie Bou Assi and Dr. Ana Suller Marti
2:15 p.m. – 3:00 p.m. Room 2	Neuroimaging, Basic Science / Engineering, Epilepsy Surgery Chair: Dr. Aylin Reid Arun Thurairajah, Tina Wang, Emily Gordon, Rachel Barr and Dr. Alexander Weil
2:15 p.m. – 3:00 p.m. Room 3	Pediatric Epilepsy, Status Epileptics / Critical Care Chair: Dr. Linda Huh Dr. Felippe Borlot, Dr. Amir Aschner, Wafaa Al Shehhi, Dr. Ahmed Abushama and Sargun Bajaj
3:00 p.m. – 3:05 p.m.	Transition Break
Concurrent Breakout Session	C
3:05 p.m. – 4:50 p.m. #7	Understanding and Targeting Sleep for Improving Epilepsy Outcomes Chair: Dr. Garima Shukla, Queen's University Topics and Speakers: Leveraging Quantitative Sleep EEG to Gauge Outcomes in Epilepsy
	Dr. Marcus Ng, University of Manitoba Sleep Related Intracranial EEG Based Predictors of Surgical Outcomes in Epilepsy Dr. Birgit Frauscher, Montreal Neurological Institute and Hospital
	Is Sleep a Potential Target for Reducing Epilepsy Co-Morbidities and Mortality? Dr. Garima Shukla, Queen's University
	 Learning Objectives: At the end of this session, participants will be able to: Identify the emerging relationship between sleep-based quantitative EEG techniques and clinical epilepsy outcomes Describe how sleep might contribute to achieve better identification of the epilepsy surgical target and outcome prediction Recognize the role of sleep disturbances as potential targets for treatment of cognitive and psychiatric co-morbidities, and for mortality reduction in epilepsy

	Target Audience
	Target Audience:
	Adult and pediatric epileptologists, neurologists, epilepsy nurses,
2.25	epilepsy/sleep technologists, epilepsy fellows, neurology residents.
3:05 p.m. – 4:50 p.m. #8	Cannabinoid Actions and Interactions: Preclinical and Clinical Data Chair: Dr. McIntyre Burnham, University of Toronto
	Topics and Speakers: Cannabinoids Actions and Interactions in Animal Seizures Models Dr. McIntyre Burnham, University of Toronto
	Cannabinoids Actions and Interactions in Cerebral Cortical Brain Slices Dr. Peter Carlen, University of Toronto, and Toronto Western Hospital Research Institute
	Cannabinoids in Clinical Trials – Canadian Studies
	Dr. Richard Huntsman, University of Saskatchewan, and Royal University
	Hospital
	Molecular and Neruonal Mechanisms of CBD as a Potential Treatment for Anxiety Disorders
	Dr. Steven Laviolette, Western University
	Learning Objectives:
	At the end of the session, participants will be able to:
	 Describe the effects of CBD and THC in animal seizure models and cortical slices
	Summarize the effects of CBD and THC in clinical trials
	Compare the effects of CBD and THC in animal models of anxiety
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	Target Audience:
5.00	Neurologists and neuroscientists.
5:00 p.m. – 6:00 p.m.	Social Event: Mixology Fundraiser
	There is no reason we can't enjoy happy hour together after a day of learning!
	Please join us for a virtual Mixology Fundraiser to learn about the art of mixing
	a good drink. The event will be held Saturday, September 25th from 5-6 pm.
	An ingredients list will be sent to registrants in advance. Non-alcoholics drink
	options will be available. <u>Click here to register today!</u>

Sunday, September 26, 202	21
10:00 a.m. – 11:00 a.m.	Plenary Session: Ictal Semiology
	Chairs: Dr. Jorge Burneo, Western University and Dr. Juan Pablo Appendino,
	University of Calgary
	Topics and Speakers:
	Case 1
	Dr. Ana Suller-Marti, Western University
	Case 2
	Dr. Erick Sell, University of Ottawa
	Case 3
	Dr. Kristin Ikeda, Dalhousie University
	Dr. Kristiir ikeda, Bairiousie Ornversity
	Learning Objectives:
	At the end of the session, participants will be able to:
	Demonstrate how semiology may be used to localize seizure onset and
	propagation
	Demonstrate the clinical elements to reconstruct seizure onset and
	propagation pattern of ictal discharge
	Target Audience:
	Epileptologists, epilepsy surgeons, general neurologists, fellows, residents,
11,00 a m 12,45 n m	medical students, allied health professionals. Plenary Session: Cingulate Epilepsy
11:00 a.m. – 12:45 p.m.	Chair: Dr. Dang Khoa Nguyen, Université de Montréal
	Chair. Dr. Dang Khoa Ngayen, Oniversite de Montreal
	Topics and Speakers:
	Anatomy and Functional Connectivity of the Cingulate
	Dr. Ioana Mindruta, University Hospital of Bucharest
	Dr. Irina Oane, University Hospital of Bucharest
	Cortical Stimulation of the Cingulate Gyrus
	Dr. Fausto Caruana, Institute of Neuroscience, Italian National Research Council
	Antorior Cinquisto Enilance
	Anterior Cingulate Epilepsy Dr. Raluca Pana, McGill University
	Dr. Natuca Faria, Micolii Offiversity
	Posterior Cingulate Epilepsy
	Dr. Laurence Martineau, Université Laval
	Cingulate Epilepsy Implantation Schemes and Surgery
	Dr. Walter Hader, University of Calgary
	Learning Objectives:
	At the end of the session, participants will be able to:

	 Describe the anatomy, structural and functional connectivity of the cingulate gyrus Identify motor and emotional behaviours that can be evoked from the cingulate gyrus Distinguish the various electroclinical subtypes of cingulate epilepsies Develop implantation schemes for suspected cases of cingulate epilepsies Describe seizure outcomes and complications after cingulate epilepsy surgeries
	Target Audience: This session is directed to clinical neurophysiologists, neurologists, epileptologists, neurosurgeons, and trainees in these disciplines involved in the care of epileptic patients.
12:45 p.m. – 1:30 p.m.	Break Please visit the CLAE Scientific Meeting portal during breaks!
1:30 p.m. – 2:30 p.m.	 Top Trainee Abstracts Chair: Dr. Aylin Reid, University Health Network The L-Type Calcium Channel Blocker Nicardipine Prevents Sudden Unexpected Death in Epilepsy Antis George, University of Calgary, Hotchkiss Brain Institute The North American AED Pregnancy Registry: A Subgroup Analysis of Canadian Women Julien Hébert, Columbia University, Irving Medical Center Modelling Epilepsy in Cerebral Organoids: Oxygen-Glucose Deprivation as a Convulsant Alexandra Santos, University of Toronto Neurostimulation in Drug-Resistant Epilepsy: Systematic Review and Meta-Analysis from the ILAE Evidence-Based Epilepsy Surgery Task Force Lahoud Touma, University of Montreal
	Learning Objectives: At the end of the session, participants will be able to: Appraise recent research projects in epilepsy Develop critical thinking on results of research projects Apply the implications of recent research projects on current clinical practice in epilepsy
2:30 p.m.	Closing Remarks Dr. Aylin Reid

Poster Abstracts

This year the CLAE posters will be presented electronically in the CLAE Scientific Conference portal. All posters will be accessible to registered delegates and will include an electronic poster and a video description. The poster portal will be accessible at leisure. For a complete list of posters, see below.

NO.	NEUROIMAGNIG
5	Structural Connectivity Analysis in Operculo-Insular Epilepsy
	Sami Obaid ¹ , François Rheault ² , Manon Edde ² , Guido I. Guberman ² , Etienne St-Onge ² , Alain Bouthillier ¹ , Dang
	K. Nguyen ¹ , Maxime Descoteaux ²
	¹ University of Montreal Health Center
	² Sherbrooke Connectivity Imaging Lab
6	Pattern Separation and Hippocampal Integrity in Temporal Lobe Epilepsy Dora Ladowski, Aathmika Nandan, David Gold, Mary Pat McAndrews
	Dora Ladowski, Aathinika Nahdan, David Gold, Mary Pat McAhdrews
	Krembil Brain Institute
7	EEG and Magnetic Resonance Imaging Abnormalities in Patients with Psychogenic Non Epileptic Seizures
	Pouyan Tavakoli Yaraki ¹ , Joe Yu ² , Mashael Khateeba ¹ , Miguel Arevalo ¹ , Samuel Lapalme-Remis ³ , Seyed
	Mirsattari ¹
	¹ Schulich Faculty of Medicine & Dentistry ² London Health Science Centre
	³ Division of Neurology, Centre Hospitalier de l'Université de Montréal
8	Pre-Operative Epileptic Network Architecture Constrains Surgery-Induced Connectome Reorganization
	Sara Larivière, Bo-yong Park, Yifei Weng, Jessica Royer, Zhengge Wang, Dewi Schrader, Zhiqiang Zhang, Boris
	Bernhardt
	McGill University
9	Personalized Quantitative Analysis of Multimodal Imaging Data in Drug-Resistant Childhood Epilepsy
	Sara Larivière, Kristina Song, Danny Kim, Andrea Bernasconi, Neda Bernasconi, Mary Connolly, Dewi Schrader,
	Boris Bernhardt
	McGill University
10	Electrical Source Imaging of the Ictal Onset Zone in the Surgical Evaluation of Children with Epilepsy
	Arun Thurairajah ¹ , Alexander Freibauer ¹ , Rajesh RamachandranNair ¹ , Robyn Whitney ¹ , Puneet Jain ² , Elizabeth
	Donner ² , Elysa Widjaja ³ , Kevin Jones ¹
	¹ The Division of Neurology, Department of Pediatrics, McMaster Children's Hospital, Hamilton, ON, Canada
	² Division of Neurology, Department of Pediatrics, The Hospital for Sick Children, Toronto, ON, Canada ³ The Division of Neuroimaging, Department of Diagnostic Imaging, The Hospital for Sick Children Toronto ON, Canada
NO.	CLINICAL EPILIEPSY / EEG / ANTIEPILEPTICS
11	The Phenotypic Spectrum of KCNT1: A New Family with Variable Epilepsy Syndromes and Severity
	Juan Pablo Appendino, Christina Cherian, Setareh Ashtiani, Paolo Federico, Christine P. Molnar, Marina Kerr,
	Aneal Khan, Ping Yee Billie Au, Karl Martin Klein
	University of Calgary
12	Global Pooled Analysis of Perampanel in Epilepsy Patients Treated in Routine Clinical Practice: The PERMIT
	Study
	Vicente Villanueva ¹ , Wendyl D'Souza ² , Tony Wu ³ , Imad Najm ⁴ , Manoj Malhotra ⁵ , Leock Y Ngo ⁶ , Rob
	McMurray ⁶ , Eugen Trinka ⁷
	¹ Hospital Universitario y Politécnico La Fe, Valencia, Spain
	² St Vincent's Hospital Melbourne and The University of Melbourne, Victoria, Australia
	³ Chang Gung Memorial Hospital Linkou Medical Center and Chang Gung University College of Medicine, Taoyuan, Taiwan

⁴Cleveland Clinic, Cleveland, Ohio, USA ⁵Eisai Inc, Woodcliff Lake, New Jersey, USA ⁶Eisai Europe Ltd, Hatfield, Hertfordshire, United Kingdom ⁷Christian-Doppler University Hospital and Paracelsus Medical University, Salzburg, Austria 13 Perampanel as Early Add-on Therapy for Epilepsy Patients with Focal-Onset and Generalised-Onset Seizures **Treated in Clinical Practice** Estevo Santamarina¹, Javier Abril-Jaramillo², Xiana Rodriguez-Osorio³, Takamichi Yamamoto⁴, Rob McMurray⁵, Eugen Trinka⁶, Wendyl D'Souza⁷, Vicente Villanueva⁸ ¹Vall d'Hebron University Hospital, Barcelona, Spain ²Centro de Neurología Avanzada, Sevilla, Spain ³Complexo Hospitalario Universitario de Santiago, Santiago, Spain ⁴Comprehensive Epilepsy Center, Seirei Hamamatsu General Hospital, Shizuoka, Japan ⁵Eisai Europe Ltd, Hatfield, Hertfordshire, UK ⁶Christian-Doppler University Hospital and Paracelsus Medical University, Centre for Cognitive Neuroscience, Salzburg, Austria ⁷St Vincent's Hospital Melbourne, The University of Melbourne, Victoria, Australia ⁸Hospital Universitario y Politécnico La Fe, Valencia, Spain 14 Seizure Freedom in Patients with Focal to Bilateral Tonic-Clonic Seizures (FBTCS) During the Open-Label, Single-Arm FAME Study: A Post Hoc Analysis of Low-Dose Maintenance Perampanel Sang Kun Lee¹, Manoj Malhotra², Dae-Won Seo³, Sang Ahm Lee⁴, Amitabh Dash⁵, Ji Woong Lee⁶ ¹Seoul National University Hospital, Seoul, Republic of Korea ²Eisai Inc., Woodcliff Lake, NJ, USA ³Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Republic of Korea ⁴Asan Medical Center, University of Ulsan College of Medicine, Seoul, Republic of Korea ⁵Eisai Singapore Pte. Ltd., Singapore ⁶Eisai Korea Inc., Seoul, Republic of Korea 15 Efficacy and Safety of Adjunctive Perampanel for Myoclonic and Absence Seizures: Post Hoc Pooled Analysis of Adult, Adolescent, and Pediatric Patients in Studies 332, 311, and 232 Christian Brandt¹, Manoj Malhotra³, J Ben Renfroe², Leock Y Ngo³, Anna Patten⁴ ¹Bethel Epilepsy Center, Bielefeld, Germany ²Child Neurology Center of Northwest Florida, Gulf Breeze, FL, USA ³Eisai Inc., Woodcliff Lake, NJ, USA

⁴Eisai Europe Ltd., Hatfield, Hertfordshire, UK

Long-Term Efficacy and Safety of Adjunctive Perampanel in Elderly Patients with Focal-Onset Seizures (FOS) by Concomitant Anti-Seizure Medication (ASM) Use

Rohit Marawar¹, Manoj Malhotra⁵, Ilo E Leppik², Robert T Wechsler³, Anna Patten⁴, Leock Y Ngo⁵

¹Wayne State University, Detroit, MI, USA

²University of Minnesota, Minneapolis, MN, USA

³Idaho Comprehensive Epilepsy Center, Boise, ID, USA

⁴Eisai Europe Ltd., Hatfield, Hertfordshire, UK

⁵Eisai Inc., Woodcliff Lake, NJ, USA

17 Cognitive Performance and Retention After 12-Month Adjunctive Brivaracetam in Difficult-To-Treat Patients with Epilepsy in a Real-Life Setting

Bernhard J. Steinhoff¹, Jakob Christensen², Colin P. Doherty³, Marian Majoie⁴, Anne-Liv Schulz⁵, Fiona Brock⁶, Iryna Leunikava⁵, John P. Leach⁷

¹Kork Epilepsy Centre, Kehl-Kork, Germany; Clinic of Neurology and Neurophysiology, University of Freiburg, Freiburg, Germany

²Aarhus University Hospital, Aarhus, Denmark

³Trinity College Dublin, Dublin, Ireland; FutureNeuro, SFI Research Centre, RCSI, Dublin, Ireland

⁴Academic Center of Epileptology Kempenhaeghe Maastricht University Medical Center, Heeze, The Netherlands

⁵UCB Pharma, Monheim am Rhein, Germany

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	⁶ UCB Pharma, Slough, UK ⁷ School of Medicine, University of Glasgow, United Kingdom
18	The Treatment of Epilepsy in Older Adults: A National Survey
10	Nafisa Husein ¹ , Mark Keezer ¹ , Timothé Langlois Terrien ¹ , Nathalie Jetté ² , Colin Josephson ³
	¹ Université de Montréal
	² Icahn School of Medicine
10	³ University of Calgary
19	Investigating Physiological and Interictal Epileptiform Discharges Using Intracranial Recordings in Human Nasim Mortazavi ¹ , Milad Khaki, Greydon Gilmore, Jorge Burneo ² , David Steven ² , Lyle Muller ³ , Julio Martinez-Trujillo ¹ , Ana Suller Marti ²
	¹ Robarts, Schulich, University Of Western Ontario ² Lawson Health Research
	³ Brain And Mind
20	Identifying Priorities for Epilepsy Research in Canada
	Rebecca Woelfle ¹ , Amaya Singh ¹ , Rachel Chepesiuk ² , Carla Southward ² , Jordan Antflick ² , Katherine Cowan ³ , Kathryn Hum ⁴ , Ana Suller-Marti ⁵
	¹ EpLink - The Epilepsy Research Program of the Ontario Brain Institute ² Ontario Brain Institute
	³ James Lind Alliance
	⁴ The Centre for Addiction and Mental Health
21	⁵ Western University, Departments of Clinical Neurological Sciences and Paediatrics WITHDRAWN
22	Development and Implementation of a Mnemonic Testing Tool to Improve Periictal Assessments of Patients in
	the Epilepsy Monitoring Unit (EMU) Grissel Crasto
23	University Health Network A Case Study of Lacosamide Monotherapy Overdose in a Paediatric Patient.
23	Ahmed Elmardenly, Randa Sultan, Manal Bajammal, Hebah Qashqari, Osama Muthaffer
	King Faisal Specialist Hospital & Research Center
24	'Optimal' EEG Montage (24 Channels) to Perform Accurate and Simple Source Localization in Daily Clinical Setting. Giovanni Pellegrino, Eliane Kobayashi
	Mankey of Navyada visual tracking a variety of a variety of
25	Montreal Neurological Institute and Hospital Marijuana Lica Habita in the Englancy Population in Canada Post Logalization
25	Marijuana Use Habits in the Epilepsy Population in Canada Post-Legalization Caroline Esmonde-White ¹ , Jayme Arts ² , Ana Suller-Marti ³
	¹ Schulich School of Medicine & Dentistry ² London Health Sciences Centre
	³ Western University, Departments of Clinical Neurological Sciences and Paediatrics
26	Toward an Explicit Neuroethics Approach to Epilepsy Monitoring Unit Triage Jason Randhawa, Chantelle Hrazdil, Patrick McDonald, Judy Illes
	University of British Columbia
27	Epilepsy and Pregnancy: An Audit of Specialized Care
	Jimmy Li ¹ , Dènahin Hinnoutondji Toffa ² , Dang Khoa Nguyen ²
	¹ Centre de Recherche du Centre Hospitalier de l'Université de Montréal ² Centre Hospitalier de l'Université de Montréal

28	Classification of Ictal and Inter-Ictal States Using Breathing and Heart Rates Obtained with the Hexoskin Wearable Device
	Yassine Lamrani ¹ , Jérôme St-Jean ¹ , Manon Robert ¹ , Dehanin Toffa ¹ , Yen Phuoc Tran ¹ , Dang Khoa Nguyen ² , Elie
	Bou Assi ²
	¹ University of Montreal Hospital Research Center (CRCHUM)
	² University of Montreal Hospital Research Center (CRCHUM), Department of Neuroscience, University of Montreal
29	An Evaluation of Gait, Parkinsonian Features, and Adaptive Behaviours in Adults with Dravet Syndrome Arunan Selvarajah, Carolina Gorodetsky, Paula Marques, Quratulain Zulfiqar Ali, Alfonso Fasano, Danielle Andrade
	University Health Network
30	Epilepsy and Sleep: A Preliminary Study on the Use of a Smart Shirt for Sleep Assessment in Patients with Epilepsy
	Laurence Beauregard ¹ , Manon Robert ¹ , Denahin Toffa ¹ , Dang Khoa Nguyen ² , Elie Bou Assi ²
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Machine Learning for Prediction of Seizure Outcome After Pediatric Epilepsy Surgery

Omar Yossofzai¹, Aria Fallah², Cassia Maniquis², Alexander Weil³, Tristan Brunette-Clement³, Andrea Andrade⁴, George Ibrahim⁵, Nicholas Mitsakakis¹, Elysa Widjaja⁵

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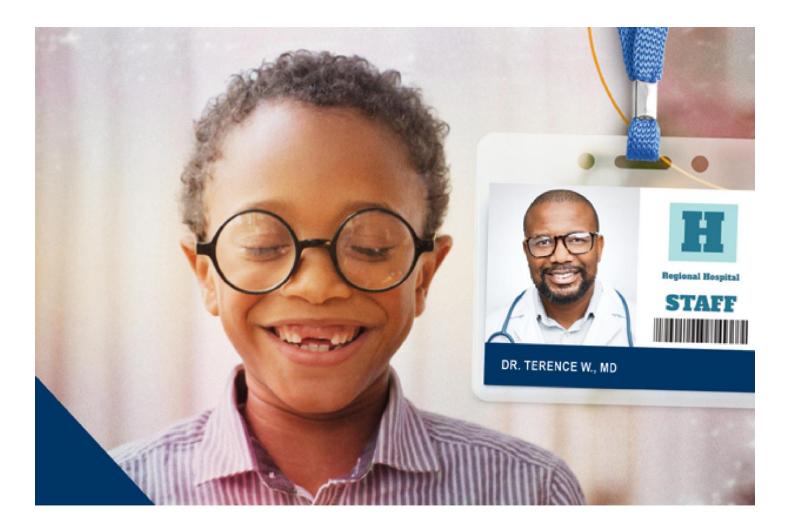
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