



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, 2021	
10:55 a.m. – 11:00 a.m.	Delegates – Virtual Check-in
11:00 a.m. – 11:03 a.m.	Welcome from the CLAE Scientific Meeting Chair Dr. Aylin Reid
11:03 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.	Keynote Lecture Moderator Dr. Aylin Reid
11:45 a.m. – 12:45 p.m.	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: Maryam N. Nouri, Western University and Seyed Mirsattari, Western University Topics and Speakers: Autoimmune Associated Epilepsy: New Concepts and Definitions Claude Steriade, NYU Langone Health EEG and Electro-clinical Correlation in Autoimmune Associated Epilepsy Claude Steriade, NYU Langone Health Recognition of Immune-mediated Epilepsy in Children Maryam Nouri, Western University Neural Antibody Testing in Autoimmune Associated Epilepsy Adrian Budhram, Western University Treatment Implications and Role Epilepsy Surgery in Autoimmune Associated Epilepsy 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: Peter L. Carlen, University Health Network and Liang Zhang, University Health Network

	Topics and Speakers: Are HFOs Able to Predict Epilepsy and Measure its Severity? Julia Jacobs-LeVan, University of Calgary Understanding Brain Activities During Trauma-induced Epileptogenesis Helps to Prevent Epilepsy Sylvain Chauvette, Université Laval Interictal Spiking as a Biomarker of Epileptogenesis in a Rodent Model of Mesial Temporal Lobe Epilepsy Siyan Wang, McGill University Longitudinal Changes of Interictal Activity in a Mouse Model of Extended Hippocampal Kindling and Relevance to Human Epilepsy Uilki Tufa, University of Toronto Round Table Richard Wennberg, University Health Network 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, Sickkids 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 Health Network 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 Health Network 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 <i>Please note: The AGM is not accredited</i>

Saturday, September 25, 2021

9:55 a.m. – 10:00 a.m.	Delegates – Virtual Check-in
10:00 a.m. – 11:45 a.m.	Plenary Session: Women’s Issues in Epilepsy Chairs: Dr. Esther Bui, University of Toronto, and Dr. Tad Fantaneanu, University of Ottawa Topics and Speakers: 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 Hebert, Columbia University 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 Breast Milk Transmission and 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 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: Deep Brain Targets of Epilepsy Dr. George Ibrahim, Hospital for Sick Children Ictal Fingerprints of Epilepsy Dr. Birgit Frauscher, Montreal Neurological Institute and Hospital Surgical Aspects of Responsive Neurostimulation 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: • Identify intracranial EEG biomarkers of the ictal onset zone as well as propagation networks • Indicate epilepsy targets of deep brain stimulation as well as new technologies that permit recording of electrophysiological data • Identify experiences and outcomes of patients implanted with responsive neurostimulation devices • Recognize surgical nuances of implantation of 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: Aylin Reid, University of Toronto Topics and Speakers: Epilepsy in Neurocutaneous Syndromes in Children Laura Flores-Sarnat, University of Calgary and Alberta Children’s Hospital Neuroimaging Manifestations of Neurocutaneous Syndromes Elysa Widjaja, University of Toronto Neuropathology of Neurocutaneous Syndromes Harvey Sarnat, University of Calgary and Alberta Children’s Hospital Epilepsy in Adults with Neurofibromatosis Aylin Reid, University of Toronto

	Tuberous Sclerosis Complex as a Disease of Adults 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 Nizam Ahmed, University of Alberta Optimal Use of Video-EEG in the Epilepsy Monitoring Unit (EMU) Dang Khoa Nguyen, Université de Montréal Optimal Use of Video-EEG in the Intensive Care Unit (ICU) Teneille Gofton, Western University Computational/Quantitative Analysis of EEG Elie Bou Assi, Université de Montréal Application of Quantitative Analysis to Routine EEG Recordings 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 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!
2:15 p.m. – 3:00 p.m.	Poster Tours
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: Garima Shukla, Queen's University Topics and Speakers: Leveraging Quantitative Sleep EEG to Gauge Outcomes in Epilepsy Marcus Ng, University of Manitoba Sleep Related Intracranial EEG Based Predictors of Surgical Outcomes in Epilepsy Birgit Frauscher, Montreal Neurological Institute and Hospital Is Sleep a Potential Target for Reducing Epilepsy Co-Morbidities and Mortality? 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: Adult and pediatric epileptologists, neurologists, epilepsy nurses, epilepsy/sleep technologists, epilepsy fellows, neurology residents.
3:05 p.m. – 4:50 p.m. #8	Cannabinoid Actions and Interactions: Preclinical and Clinical Data Chairs: McIntyre Burnham, University of Toronto Topics and Speakers: Cannabinoids Actions and Interactions in Animal Seizures Models McIntyre Burnham, University of Toronto

Cannabinoids Actions and Interactions in Cerebral Cortical Brain Slices

Peter Carlen, University of Toronto, and Toronto Western Hospital Research Institute

Cannabinoids in Clinical Trials – Canadian Studies

Richard Huntsman, University of Saskatchewan, and Royal University Hospital

Molecular and Nerve Mechanisms of CBD as a Potential Treatment for Anxiety Disorders

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.

Target Audience:

Neurologists and neuroscientists.

Sunday, September 26, 2021

10:00 a.m. – 11:00 a.m.	Ictal Semiology <i>Details coming soon!</i>
11:00 a.m. – 12:45 p.m.	Plenary Session: Cingulate Epilepsy Chair: Dang Khoa Nguyen, Université de Montréal Topics and Speakers: Anatomy and Functional Connectivity of the Cingulate Ioana Mindruta, University Hospital of Bucharest Irina Oane, University Hospital of Bucharest Cortical Stimulation of the Cingulate Gyrus Fausto Caruana, Institute of Neuroscience, Italian National Research Council Anterior Cingulate Epilepsy Raluca Pana, McGill University Posterior Cingulate Epilepsy Laurence Martineau, Université Laval Cingulate Epilepsy Implantation Schemes and Surgery 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 1. The L-Type Calcium Channel Blocker Nicardipine Prevents Sudden Unexpected Death in Epilepsy Antis George, University of Calgary, Hotchkiss Brain Institute 2. The North American AED Pregnancy Registry: A Subgroup Analysis of Canadian Women

	Julien Hébert, Columbia University, Irving Medical Center 3. Modelling Epilepsy in Cerebral Organoids: Oxygen-Glucose Deprivation as a Convulsant Alexandra Santos, University of Toronto 4. 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, François Rheault, Manon Edde, Guido I. Guberman, Etienne St-Onge, Alain Bouthillier, Dang K. Nguyen, Maxime Descoteaux
6	Pattern Separation and Hippocampal Integrity in Temporal Lobe Epilepsy Dora Ladowski, Aathmika Nandan, David Gold, Mary Pat McAndrews
7	EEG and Magnetic Resonance Imaging Abnormalities in Patients with Psychogenic Non Epileptic Seizures Pouyan Tavakoli Yarak, Joe Yu, Mashael Khateeba, Miguel Arevalo, Samuel Lapalme-Remis, Seyed Mirsattari
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
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
10	Electrical Source Imaging of the Ictal Onset Zone in the Surgical Evaluation of Children with Epilepsy Arun Thurairajah, Kevin Jones, Alexander Freibauer, Rajesh Ramachandran Nair, Robyn Whitney, Puneet Jain, Elizabeth Donner, Elysa Widjaja
NO.	CLINICAL EPILEPSY / EEG / ANTIEPILEPTICS
11	The Phenotypic Spectrum of KCNT1: A New Family with Variable Epilepsy Syndromes and Severity Juan Pablo Appendino, Karl Martin Klein, Christina Cherian, Setareh Ashtiani, Paolo Federico, Christine P. Molnar, Marina Kerr, Aneal Khan, Ping Yee Billie Au
12	Global Pooled Analysis of Perampanel in Epilepsy Patients Treated in Routine Clinical Practice: The PERMIT Study Vicente Villanueva, Wendyl D'Souza, Tony Wu, Imad Najm, Manoj Malhotra, Leock Y Ngo, Rob McMurray, Eugen Trinka
13	Perampanel as Early Add-on Therapy for Epilepsy Patients with Focal-Onset and Generalised-Onset Seizures Treated in Clinical Practice Estevo Santamarina, Javier Abril-Jaramillo, Xiana Rodriguez-Osorio, Takamichi Yamamoto, Rob McMurray, Eugen Trinka, Wendyl D'Souza, Vicente Villanueva

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 Lee, Manoj Malhotra, Dae-Won Seo, Sang Ahm Lee, Amitabh Dash, Ji Woong Lee
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 Brandt, Manoj Malhotra, J Ben Renfro, Leock Y Ngo, Anna Patten
16	Long-Term Efficacy and Safety of Adjunctive Perampanel in Elderly Patients with Focal-Onset Seizures (FOS) by Concomitant Anti-Seizure Medication (ASM) Use Rohit Marawar, Manoj Malhotra, Ilo E Leppik, Robert T Wechsler, Anna Patten, Leock Y Ngo
17	Cognitive Performance and Retention After 12-Month Adjunctive Brivaracetam in Difficult-To-Treat Patients with Epilepsy in a Real-Life Setting Bernhard J. Steinhoff, Jakob Christensen, Colin P. Doherty, Marian Majoie, Anne-Liv Schulz, Fiona Brock, Iryna Leunikava
18	The Treatment of Epilepsy in Older Adults: A National Survey Nafisa Husein, Mark Keezer, Timoth� Langlois Terrien, Nathalie Jett�, Colin Josephson
19	Investigating Physiological and Interictal Epileptiform Discharges Using Intracranial Recordings in Human Nasim Mortazavi, Milad Khaki, Greydon Gilmore, Jorge Burneo, David Steven, Lyle Muller, Julio Martinez-Trujillo, Ana Suller Marti
20	Identifying Priorities for Epilepsy Research in Canada Rebecca Woelfle, Amaya Singh, Rachel Chepesiuk, Carla Southward, Jordan Antflick, Katherine Cowan, Kathryn Hum, Ana Suller-Marti
21	Association Of Novel Missense Variant Of CYP2C9 With Drug Resistant Epilepsy Hafsa Maqbool, Nadeem Sheikh, Tayyaba Saleem, Maryam Mukhtar
22	Development and Implementation of a Mnemonic Testing Tool to Improve Periictal Assessments of Patients in the Epilepsy Monitoring Unit (EMU) Grissel Crasto
23	A Case Study of Lacosamide Monotherapy Overdose in a Paediatric Patient. Ahmed Elmardenly, Ahmed Elmardenly, Randa Sultan, Manal Bajammal, Hebah Qashqari, Osama Muthaffer
24	'Optimal' EEG Montage (24 Channels) to Perform Accurate and Simple Source Localization in Daily Clinical Setting. Giovanni Pellegrino, Eliane Kobayashi
25	Marijuana Use Habits in the Epilepsy Population in Canada Post-Legalization Caroline Esmonde-White, Jayme Arts, Ana Suller Marti
26	Toward an Explicit Neuroethics Approach to Epilepsy Monitoring Unit Triage Jason Randhawa, Chantelle Hrazdil, Patrick McDonald, Judy Illes
27	Epilepsy and Pregnancy: An Audit of Specialized Care Jimmy Li, D�nahin Hinnoutondji Toffa, Dang Khoa Nguyen
28	Classification of Ictal and Inter-Ictal States Using Breathing and Heart Rates Obtained with the Hexoskin Wearable Device Yassine Lamrani, J�r�me St-Jean, Manon Robert, Dehanin Toffa, Yen Phuoc Tran, Dang Khoa Nguyen, Elie Bou Assi
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
30	Epilepsy and Sleep: A Preliminary Study on the Use of a Smart Shirt for Sleep Assessment in Patients with Epilepsy Laurence Beauregard, Manon Robert, Denahin Toffa, Dang Khoa Nguyen, Elie Bou Assi
31	Spectral Shifts Across Distributed Networks in Cortex Predict Seizure Onset Maryam Hasanzadeh Mofrad, Greydon Gilmore, Ali Khan, David A. Steven, Jorge G. Burneo, Julio Martinez-Trujillo, Lyle Muller, Ana Suller Marti
32	Exploring the Source Cloud: the Spatial Extent of Sleep-Wake Epileptic Source Localizations over a Thousand Thresholds

	Darion Toutant, Graham McLeod, Parandoush Abbasian, Amirhossein Ghassemi, Maziar Darbandi, Marcus Ng
33	Discrimination of Normal Brain Tissue From Dysplastic Tissue in Focal Cortical Dysplasia Using Raman Spectroscopy Trang Tran, Frederick Dallaire, Frederic Leblond, Romain Cayrol, Steffen Albrecht, Roy Dudley
34	Stiripentol Naïve Adults with Dravet Syndrome: Watch for Ammonia and Carnitine Quratulain Zulfikar Ali, Paula Marques, Arunan Selvarajah, Tara Sadoway, Sepideh Tabarestani, Danielle Andrade
35	Genetic Analysis of MDR1 Gene Polymorphism in Drug Resistance Epilepsy Patients of Pakistan Hafsa Maqbool, Nadeem Sheikh, Tayyaba Saleem, Iram Javed, Aqsa Ashfaq
36	Association of BDNF Val66Met with Idiopathic Generalized Epilepsy Tayyaba Saleem, Nadeem Sheikh, Hafsa Maqbool, Ahmad Omair Virk
37	Interictal Entropy of Alpha Band as a Predictor of Seizure Recurrence in Ambulatory EEG Jean-Daniel Tessier, Emile Lemoine, Geneviève Pelletier-McDuff, Manon Robert, Denahin Toffa, Dang Khoa Nguyen, Elie Bou-Assi
NO.	PEDIATRIC EPILEPSY
38	Comparison of School Performance in Children with New-Onset Seizures to Children with Psychiatric Disorders Anita Datta, Peter Wong
39	Impact Of COVID-19 in Pediatric Patients with Self-Limited and Genetic-Generalized Epilepsy via Telemedicine Evaluation Stephanie Kwok, Anita Datta
40	Telehealth for Children with Epilepsy is Effective and Reduces Anxiety Independent of Healthcare Setting Kerstin Klotz, Felipe Borlot, Morris Scantlebury, Eric Payne, Juan P Appendino, Jan Schönberger, Julia Jacobs
41	Proposed Pathway for the Utilization of Pediatric Ambulatory EEG Felipe Borlot, Silvia Kozlik, Leanne Alfaro, Alice Ho, Juan P Appendino, Eric Payne, Morris Scantlebury, Julia Jacobs
42	SCN2A-Related Epilepsy of Infancy with Migrating Focal Seizures: Report of a Variant with an Apparent Loss of Function Effect Juan Pablo Appendino, Xiao-Ru Yang, Vamsi Krishna Ginjupalli, Olivier Theriault, Hugo Poulin, Mohamed Chahine, Ping Yee Billie Au
43	Treatment of Children with Infantile Spasms: Systematic Review and Network Meta-Analyses Puneet Jain, Ravindra Arya, Jitendra Sahu, Vann Chau
44	Sex Differences in Mental Health Impact on Transition Variables in Adolescents with Epilepsy Sarah Healy, Sharon Whiting
45	Investigating Risk Factors for SUDEP in Dravet Syndrome Amir Aschner, Anne Keller, Ingrid Scheffer, Jay Jeschke, Chloe Verducci, Orrin Devinsky, Daniel Friedman, Elizabeth Donner
46	Long-Term Tolerability and Retention of Adjunctive Brivaracetam in Children with Primary Generalized or Mixed Seizure Types: Interim Subgroup Analysis of Pooled Data from Two Open-Label Trials Anup D. Patel, Teresa Gasalla, Xavier Nondonfz, Sami Elmoufti, Jan-Peer Elshoff
47	The Comorbidity of Headaches in Pediatric Epilepsy Patients: How Common and what Types? Hanin AlGethami, Muhammad Talal Alrifai, Ahmed Al-Rumayyan, Waleed Al-Tuwaijri., Duaa Ba-armah
48	Treatment with High Dose Oral Prednisolone (8 Mg/Kg/Day) in Children with Infantile Spasms who Failed Vigabatrin: A Retrospective Study Wafaa Ali Ahmed Al Shehhi, Puneet Jain, Van Chau, Carter Snead, Elizabeth Donner, Cristina Go, Jennifer Boyd, Rohit Sharma
49	Ketogenic Diet or Vagal Nerve Stimulation in Children with Tuberous Sclerosis Complex (TSC) with Drug-Refractory Epilepsy Ahmed Abushama
50	Adrenal Insufficiency Among Children Treated with Hormonal Therapy for Infantile Spasms Gabrielle Doré-Brabant, Geneviève Laflamme, Maude Millette, Bradley Osterman, Nicolas Chrestian
51	An Assessment of Next-Generation Panel Testing in Epilepsy Heather Leduc-Pessah, Taila Hartley, Daniela Pohl, David Dyment

52	Do Patients with Epilepsy Develop Complex Febrile Convulsions at the Onset of their Syndrome? Kerensa Newark, Christopher Woolley
53	The Spectrum of Epilepsy in Children with 15q13.3 Microdeletion Arjun Nair, Robyn Whitney, Elizabeth McCready, Anne Keller, Brandon F. Meaney, Kevin Jones, Rajesh RamachandranNair, Robyn Whitney
54	Febrile Seizure Incidence and Age at First Occurrence are Associated with Changes in Placental Normalized Gene Expression: The '3D' Pregnancy Cohort Study Delphine Aubin, Fanny Thébault-Dagher, Morgane Robles, Catherine M. Herba, Jean R. Séguin, William D. Fraser, Cathy Vaillancourt, Sarah Lippé
55	Long-Term Efficacy of the Ketogenic Diet (KD) in Pediatric Epilepsy: A Single Center Study Hassan Kiani, Rajesh RamachandranNair
56	Dissemination of Education Resources to Optimize School Success for Children with Epilepsy Tamara Tavares, Elizabeth Kerr, Mary Secco, Karen Bax, Mary Lou Smith
57	Emotion Recognition and Empathic Responding in Adolescents with Epilepsy: A Canada-Wide Investigation Tamara Tavares, Lindsay Oliver, Mary Lou Smith
NO.	STATUS EPILEPTICS / CRITICAL CARE
58	Refractory and Super-Refractory Status Epilepticus Treated with a Combination of High Dose Perampanel and Topiramate: Case Series and Review of the Literature Adnane Alaoui Ismaili
59	Refractory Status Epilepticus did not solely lead to Cerebrospinal Fluid Pleocytosis within first 24 hours of onset. Sargun Bajaj, Donald Griesdale, Yahya Agha-Khani, Farzad Moien Afshari
60	Effectiveness of the Ketogenic Diet for Super Refractory Status Epilepticus: A Canadian Experience. Vanessa Giuliano, Lysa Boissé Lomax, Garima Shukla, Gavin Winston
NO.	BASIC SCIENCE / ENGINEERING
61	Early Seizure-Induced Dysfunction of Hippocampal Fast-Spiking Interneuron is Rescued By Activation of Trkb Receptors Ting Ting Wang
62	Resilience Through Diversity: Loss of Neuronal Heterogeneity in Epileptogenic Human Tissue Renders Neural Networks More Susceptible to Sudden Changes in Synchrony Taufik Valiante, Scott Rich, Homeira Moradi Chameh, Jeremie Lefebvre
63	Dual Effect of Mitochondrial Uncoupler 2,4-Dinitrophenol on Brain Oxygen Levels and Postictal Hypoxia Bianca R. Villa, Antis G. George, Renaud C. Gom, Dhyey Bhatt, Timothy E. Shutt, Patrick G. Sullivan, Jong M. Rho, G. Campbell Teskey
64	The Influence of Sex on Gene X Environment Interactions in Epileptogenesis in a Mouse Model of Dravet Syndrome Cristie Noschang, Arthur Omorogiwa, Natasha Klenin, Deborah Kurrasch
65	Amygdala Kindling Alters Pain Sensitivity and Pain-Related Emotional Behaviours in Rats Kerri Mozessohn, Neil M. Fournier, Evana Xiao, Kaylea MacDonald
66	Investigating the Role of Rac1 in Mediating Accelerated Long-Term Forgetting in an Animal Model of Epilepsy Emily E. Gordon, Neil M. Fournier, Morgan Bujokas, Lianne Bradnt, Linda E. El-Ayday, Hugo Lehmann
67	Pre-Trained Wavelet Transformer for Seizure Detection Using Scalp EEG Yi Cheng Zhu, Qi Xu
68	Prevention Of Trauma-Induced Epileptogenesis Using Transcranial Direct Current Stimulation Rachel Barr
69	The Influence of Seizure-Induced Stress on Fear and Anxiety Behavior Renaud Gom
70	A Novel Mouse Model of FASN-Associated Neurodevelopmental Disorders Samuel Boris Tene Tadoum, Alexandros Hadjinicolaou, Smrithi Raghuram, Praveen Kumar Raju, Mathieu Lachance, Philippe Campeau, Elsa Rossignol
71	Withdrawn
72	Electrophysiological Studies of Medical Cannabis in Epileptic Mouse Cerebral Cortex Yasaman Javadzadeh, Shanthini Mylvaganam, Peter Carlen

NO.	EPILEPSY SURGERY
73	Efficacy of VNS for Drug-Resistant Epilepsy in Structural Brain Lesions. Hanin AlGethami, Ashwaq Alshahrani, Mubarak Aldosari, Majed Alhameed
74	Comparison of the Real-World Effectiveness of Vertical Versus Lateral Functional Hemispherotomy Techniques for Pediatric Drug-Resistant Epilepsy Alexander Weil, Aria Fallah, George Ibrahim, Olivia Kola, Jia-Shu Chen, Tristan Brunette-Clément, HOPS Research Group
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