

## LIVE POSTERS

| Poster #   | Title  | Primary Author First Name | Primary Author Last Name | City          | State  |
|--|--|---------------------------|--------------------------|---------------|--------|
| <b>Brain Tumors/Oncology</b>                             |  |                           |                          |               |        |
| 1  | Screening and interventions for childhood cancer survivors at risk for stroke: consensus and controversy   | Lisa                      | Kenney                   | Boston        | MA     |
| 2  | Retrospective analysis of visual outcomes after bevacizumab therapy in optic pathway glioma  | Benjamin                  | Siegel                   | Atlanta       | GA     |
| 3  | CAR T cell associated Immune Effector Cell-Associated Neurotoxicity Syndrome (ICANS): Institutional Experience in the Pediatric/Young Adult Population                                   | Karishma                  | Parikh                   | New York      | NY     |
| 4  | Neuroblast maturational markers in ganglioneuroblastoma  | Harvey                    | Sarnat                   | Calgary       | Canada |
| <b>Cognitive/Behavioral Disorders (including Autism)</b> |  |                           |                          |               |        |
| 5  | Autism Communication Enhancement (ACE): Skill Training for Pediatric Neurologists during Telehealth Visits with Communication Impaired Children during the COVID Pandemic                | Patricia                  | Evans                    | Dallas        | TX     |
| 6  | Early Gait Development in Autism Spectrum Disorder and its Association with Social Communication and Adaptive Function   | Emma                      | Burdekin                 | Los Angeles   | CA     |
| 7  | Continuous theta-burst stimulation of motor cortex distinguishes adults and children with autism spectrum disorder from their neurotypical counterparts                                  | Ali                       | Jannati                  | Boston        | MA     |
| 8  | Motor and Sensory Development of Infants at High Familial Risk for Developing Autism   | Sebiha                    | Abdullahi                | Los Angeles   | CA     |
| <b>COVID-19</b>  |  |                           |                          |               |        |
| 9  | Pediatric Headache Experience During the COVID-19 Pandemic   | Emily                     | Pierce                   | Washington    | DC     |
| 10   | COVID-19 Intake Questionnaire to Improve Quality, Efficiency, and Timeliness of Outpatient Neurologic and Developmental Care at the Kennedy Krieger Institute during the COVID Pandemic. | Pooja                     | Vedmurthy                | Baltimore     | MD     |
| 11   | Long Term Neurological Outcomes in Pediatric Patients Diagnosed with MISC  | Stephanie                 | Enner                    | New York      | NY     |
| 12   | SARS-CoV-2 Surveillance Testing in Schools for Children with Intellectual and Developmental Disabilities during the COVID-19 pandemic  | Michael                   | Sherby                   | St. Louis     | MO     |
| 13   | Risk Mitigation Behaviors to Prevent Infection in the Mitochondrial Disease Community During the COVID19 Pandemic  | Eliza                     | Gordon-Lipkin            | Washington    | DC     |
| 14   | Reduction in IEP Services During the COVID-19 Pandemic   | Patrick                   | Rasmussen                | Baltimore     | MD     |
| <b>Critical Care</b>                                     |  |                           |                          |               |        |
| 15   | Early Heart Rate Variability Correlates With Pre-Operative Brain Injury Score in Infants with Congenital Heart Disease   | Sarah                     | Schlatterer              | Washington    | DC     |
| 16   | Rapid Exome and Genome Sequencing in Critically Ill Patients: 3-year Experience From A Single Center   | Kuntal                    | Sen                      | Washington    | DC     |
| 17   | Neurologic Outcomes in Neonatal Extracorporeal Cardiopulmonary Resuscitation   | Maggie                    | Schmaedick               | New York City | NY     |

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| <b>Demyelinating Disorders</b> |   |                           |                          |                |       |
| 18                             | Clinical management of Aicardi Goutières Syndrome: current guidelines and future directions   | Laura                     | Adang                    | Philadelphia   | PA    |
| 19                             | Validation of TUBB4A severity score as a prediction tool for neurologic outcomes  | Laura                     | Adang                    | Philadelphia   | PA    |
| 20                             | NATIONAL DATA INSIGHTS FOR KRABBE DISEASE BURDEN, COSTS, DISPARITIES, AND INCIDENCE   | Gabrielle                 | Ghabash                  | Salt Lake City | UT    |
| 21                             | A Phase I Study of Oral Vitamin D Supplementation in 21 boys with X-linked Adrenoleukodystrophy   | Keith                     | Van Haren                | Palo Alto      | CA    |
| <b>Education</b>               |   |                           |                          |                |       |
| 22                             | The Current Landscape of Inpatient Child Neurology: A Survey of North American Programs   | Jamie                     | Palaganas                | New York       | NY    |
| 23                             | Adult Neurology Rotations for Child Neurology Residents: A Survey of Program Directors  | Cullen                    | Marshall                 | Cincinnati     | OH    |
| 24                             | Genomics Curriculum during Child Neurology Residency: Results of a National Survey  | Kuntal                    | Sen                      | Washington     | DC    |
| <b>Epilepsy</b>                |   |                           |                          |                |       |
| 25                             | Non-cell autonomous hyperexcitability underlies focal epileptogenesis mediated by low-level brain somatic mutations in MTOR                                       | Hyunyong                  | Koh                      | Boston         | MA    |
| 26                             | Non-invasive Electrophysiological Signatures of the Epileptogenic Zone in Children with Focal Drug-Resistant Epilepsy   | Georgios                  | Ntolkeras                | Boston         | MA    |
| 27                             | Etiology and Natural History of Infantile-Onset Focal Epilepsy: A Population-Based Study  | Erin                      | Triplet                  | Rochester      | MN    |
| 28                             | Phenome-wide association study shows similar long-term outcomes of infantile spasms patients following prednisolone versus adrenocorticotrophic hormone treatment | Monika                    | Baker                    | Salt Lake City | UT    |
| 29                             | Trio Exome Sequencing with In-depth Phenotyping in Pediatric Epilepsy: A Prospective, Single-Centered Cohort Study with Return of Research Results to Patients    | Hyunyong                  | Koh                      | Boston         | MA    |
| 30                             | Infantile Spasms after whole body vs selective head cooling. Preliminary findings from the Pediatric Epilepsy Learning Healthcare System.                         | Zachary                   | Grinspan                 | New York       | NY    |
| 31                             | Temporal Encephalocele: A treatable etiology of pharmacoresistant pediatric temporal lobe epilepsy  | Ersida                    | Buraniqi                 | Rochester      | MN    |
| 32                             | Transcranial Magnetic Stimulation: a potential tool to predict seizure focus lateralization   | Melissa                   | Tsuboyama                | Boston         | MA    |
| 33                             | Molecular Diagnosis from Genetic Testing Guides Clinical Management of Epilepsy and Helps Improve Patient Outcomes  | Dianalee                  | McKnight                 | Highland       | MD    |
| 34                             | Utility of Epilepsy Genetic Panels in the Pediatric Epilepsy Monitoring Unit  | Jennifer                  | Glenn                    | Birmingham     | AL    |
| 35                             | Cannabidiol (CBD) and Tetrahydrocannabidiol (THC) Combinations as Adjunctive Therapy in Drug Resistant Epilepsy   | Nick                      | Cione                    | Austin         | TX    |
| 36                             | Safety & Feasibility of Responsive Neurostimulation in Children with Refractory Epilepsy  | Maria                     | El-Hallal                | Lake Success   | NY    |

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| <b>Equity, Diversity, Inclusion</b>                  |  |                           |                          |                  |        |
| 37   | Racial Differences in Hospital-Based Care in Children with Neurologic Conditions   | Craig                     | Press                    | Aurora           | CO     |
| <b>Genetics</b>                                      |  |                           |                          |                  |        |
| 38   | A PROSPECTIVE STUDY OF EPILEPSY IN NGLY1 DEFICIENCY  | Rebecca                   | Levy                     | Palo Alto        | CA     |
| 39   | Evidence for high prevalence of multilocus pathogenic rare variant alleles in neurodevelopmental disorders   | Isabella                  | Herman                   | Houston          | TX     |
| 40   | Genetic testing rates and diagnostic yield in cerebral palsy patients born at term with normal brain MRIs.   | Laura                     | Bliss                    | Chicago          | IL     |
| <b>Headache/Migraine</b>                             |  |                           |                          |                  |        |
| 41   | Indomethacin Treatment for Pediatric Trigeminal Autonomic Cephalalgia  | Emily                     | McCracken                | New London       | CT     |
| 42   | Efficacy and Safety of Intravenous Sodium Valproate in Pediatric Patients with Refractory Chronic Headache Disorders: A Retrospective Review                       | Sara                      | Pavitt                   | San Francisco    | CA     |
| <b>Infections/Neuroimmunology</b>                    |  |                           |                          |                  |        |
| 43   | Etiologies in a Cohort of Pediatric Patients Who Underwent CSF Metagenomic Next Generation Sequencing  | Molly                     | Wilson-Murphy            | Boston           | MA     |
| 44   | Central Nervous System (CNS) manifestations in Hemophagocytic Lymphohistiocytosis (HLH)  | Manan                     | Nath                     | New York         | NY     |
| 45   | A systematic look at genetic-metabolic testing in pediatric autoimmune encephalitis  | Daniel                    | Calame                   | Houston          | TX     |
| 46   | Automating EEG interpretation in resource-limited areas: a proof-of concept comparison of qualitative and quantitative analysis in pediatric cerebral malaria      | Douglas                   | Postels                  | Washington       | DC     |
| 47   | Evidence for different gene rare variants contributing to early onset neurological autoimmune disease  | Daniel                    | Calame                   | Houston          | TX     |
| 48   | GFAP astrocytopathy: an emerging cause of meningoencephalomyelitis in children and adolescents   | Dana                      | Harrar                   | Washington       | DC     |
| <b>Movement Disorders (including Cerebral Palsy)</b> |  |                           |                          |                  |        |
| 49   | Pain, Cognition, and Attention in Children and Adults with Cerebral Palsy: A Study of Retrospective Clinical Pain Ratings  | Eric                      | Chin                     | Baltimore        | MD     |
| 50   | Disease Severity and Motor Impairment Correlate with Health-Related Quality of Life in AP-4-Associated Hereditary Spastic Paraplegia                               | Catherine                 | Jordan                   | Boston           | MA     |
| 51   | Risk Factors and Term Born Periventricular Leukomalacia in Children with Cerebral Palsy: A Case Control Study  | Amaar                     | Marefi                   | Montreal         | Canada |
| 52   | Identification of Risk Factors for Term-Born Spastic Diplegic Cerebral Palsy: A Case Control Study   | Amaar                     | Marefi                   | Montreal         | Canada |
| 53   | 4 Cases of Atypical CP-Related Tone Exacerbation with Psychotropic Agents and Concurrent Use of Intrathecal Baclofen   | Elizabeth                 | Barkoudah                | Boston           | MA     |
| 54   | Qualitative Interviews With Children/Adolescents With Dyskinetic Cerebral Palsy (DCP) and Their Caregivers   | Daniel                    | Claassen                 | Nashville        | TN     |
| 55   | Syndrome including Paroxysmal Nonkinesigenic Dyskinesia caused by deletion within the JPH3 gene  | Monika                    | Williams                 | Hartford         | CT     |
| 56   | PTC PINPOINT™ CP Spectrum: A sponsored no-cost 265-gene panel for patients with symptoms suggestive of CP and absence of risk factors for an acquired brain injury | Jeffrey                   | Kopesky                  | South Plainfield | NJ     |

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| <b>Neonatal &amp; Fetal Neurology</b> |  |                           |                          |               |       |
| 57                                    | Real-time longitudinal tracking of neuronal death and seizures after perinatal oxygen-glucose deprivation  | Melanie                   | McNally                  | Boston        | MA    |
| 58                                    | Treatment of Neonatal Seizures: Comparison of Treatment Pathways from 11 Newborn Intensive Care Units  | Jennifer                  | Keene                    | Seattle       | WA    |
| 59                                    | Mild Hypoxic-Ischemic Encephalopathy (HIE): Antecedents and Timing of MRI Brain Injury   | Yi                        | Li                       | San Francisco | CA    |
| 60                                    | Decisional satisfaction, regret, and conflict among mothers of infants with neurologic conditions in the intensive care unit                                     | Margaret                  | Bost                     | Durham        | NC    |
| 61                                    | Outcomes in Fosdenopterin Treated MoCD Type A Patients when Compared to a Natural History Cohort   | Donald                    | Basel                    | Milwaukee     | WI    |
| <b>Neuroimaging</b>                   |  |                           |                          |               |       |
| 62                                    | Infarcts are associated with increased cortical thinning, but not increased global atrophy in children with sickle cell disease                                  | Amy                       | Ouyang                   | St. Louis     | MO    |
| 63                                    | Impact of hyperammonemia in Urea Cycle Disorders (UCD) on downstream markers of impaired neurocognition  | Andrea                    | Gropman                  | Washington    | DC    |
| 64                                    | A Standardized MRA Scanning Protocol Leading to Changes in Stroke Prevention Treatment Plan for Pediatric Patients with Sickle Cell Disease                      | Parmpreet                 | Dhillon                  | Bronx         | NY    |
| 65                                    | Test-retest reliability of automated gyrus-level assessment of white matter microstructure in children with cerebral palsy and periventricular leukomalacia      | Eric                      | Chin                     | Baltimore     | MD    |
| <b>Neurometabolic Disorders</b>       |  |                           |                          |               |       |
| 66                                    | Sleep Symptoms and Circadian Gene Regulation in SSADHD   | Phillip                   | Pearl                    | Boston        | MA    |
| 67                                    | Efficacy of Gene Therapy in a CLN5 Sheep Model Using a Dual Route of Administration  | Jennifer                  | Daily                    | New York      | NY    |
| 68                                    | Results of Transpher A, a Multicenter, Single-Dose, Phase 1/2 Clinical Trial of ABO-102 Gene Therapy for Sanfilippo Syndrome Type A (Mucopolysaccharidosis IIIA) | Kevin                     | Flanigan                 | Columbus      | OH    |
| 69                                    | Persistent effect of arimocloamol in patients with Niemann-Pick disease type C: 24-month results from an open-label extension of a pivotal Phase 2/3 study       | Marc                      | Patterson                | Rochester     | MN    |
| 70                                    | Tralesinidase alfa (AX 250) enzyme replacement therapy for Sanfilippo syndrome type  | Stephen                   | Maricich                 | Novato        | CA    |
| 71                                    | Natural history of Sanfilippo Syndrome Type B in young patients: ongoing results from two large, prospective studies   | Stephen                   | Maricich                 | Novato        | CA    |
| 72                                    | Gait Improvement in Pegzilarginase-treated Patients With Arginase 1 Deficiency: A Blinded Kinematic Analysis   | Nathan                    | Foreman                  | Colleyville   | TX    |

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| <b>Neuromuscular Disorders</b> |  |                           |                          |              |       |
| 73                             | Smad8 is aberrantly upregulated in Duchenne muscular dystrophy and mdx5cv skeletal muscles and is associated with microRNA repression                  | Michael                   | Lopez                    | Birmingham   | AL    |
| 74                             | Characteristics at Presentation that Predict Respiratory Decompensation and Severe Outcomes in Patients with Acute Flaccid Myelitis (AFM)              | Amanda                    | Gottschalk               | Philadelphia | PA    |
| 75                             | Loss of ambulation in cohort with FKRP mutations   | Lauren                    | Coffey                   | Iowa City    | IA    |
| 76                             | A Prospective Natural History Study Of CMT4J - Disease Severity Correlating With PROs And Plasma NFL Levels  | Michael                   | Shy                      | Iowa City    | IA    |
| 77                             | REAL-WORLD REASONS FOR STEROID SWITCHING AND ASSOCIATED CLINICAL OUTCOMES AMONG PATIENTS WITH DYSTROPHINOPATHIES: NATIONWIDE REVIEW OF MEDICAL RECORDS | Jessica                   | Marden                   | Boston       | MA    |
| 78                             | IGNITE DMD Phase I/II Study of SGT-001 Microdystrophin Gene Therapy: Update on Pulmonary Outcomes  | Oscar                     | Mayer                    | Philadelphia | PA    |
| 79                             | Georgia state SMA newborn screening (NBS) program: a two year follow-up study  | Kathryn                   | Elkins                   | Atlanta      | GA    |
| 80                             | Scientific Rationale for a Higher Dose of Nusinersen   | Richard                   | Finkel                   | Memphis      | TN    |
| 81                             | Distal Hereditary Motor Neuropathy caused by HSBP8 in a pediatric patient  | Darina                    | Dinov                    | Richmond     | VA    |
| 82                             | Results of a Long-Term Efficacy and Safety Study of Viltolarsen in the Treatment of Duchenne Muscular Dystrophy Patients                               | Vamshi                    | Rao                      | Chicago      | IL    |
| <b>Neurorehabilitation</b>     |  |                           |                          |              |       |
| 83                             | Improvement in spasticity with Ketogenic diet in intractable epilepsy patients.  | Kelly                     | Urbanik                  | Orlando      | FL    |
| <b>Neuroscience</b>            |  |                           |                          |              |       |
| 84                             | Microglia-Neuroblast Interactions in the Developing Rostral Migratory Stream   | Sarah                     | Meller                   | New Haven    | CT    |
| 85                             | The Role of sSAC GABA and Dopamine Signaling in Olfactory Behaviors  | Aashka                    | Sheth                    | Houston      | TX    |

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| <b>Rare Diseases</b>                               |  |                           |                          |              |        |
| 86   | Eladocagene Exuparvec Gene Therapy Improves Motor Development in Patients With Aromatic L-Amino Acid Decarboxylase Deficiency  | Paul Wuh-Liang            | Hwu                      | Taipei       | Taiwan |
| 87   | Cannabidiol Treatment for Neuropsychiatric Symptoms in Sturge-Weber Syndrome   | Lindsay                   | Smegal                   | Baltimore    | MD     |
| 88   | RGX-121 gene therapy for the treatment of severe mucopolysaccharidosis type II (MPS II): Interim analysis of data from the first in human study  | Can                       | Ficicioglu               | Philadelphia | PA     |
| 89   | Cerebrovascular Disease Progression in Patients With ACTA2 Arg179 Pathogenic Variants  | Samantha                  | Speroni                  | Boston       | MA     |
| 90   | TANDEM - Empowering families to identify, measure and manage Tuberous Sclerosis Complex Associated Neuropsychiatric Disorders (TAND)   | Peter                     | Davis                    | Boston       | MA     |
| 91   | Phase 1/2 Trial of AXO-AAV-GM1 Gene Therapy for the Treatment of Infantile- and Juvenile-onset GM1 Gangliosidosis: Preliminary Results   | Cynthia                   | Tift                     | Bethesda     | MD     |
| 92   | Gene Therapy With Eladocagene Exuparvec Improves Cognition and Language in Patients With Aromatic L-Amino Acid Decarboxylase Deficiency  | Paul Wuh-Liang            | Hwu                      | Taipei       | Taiwan |
| 93   | Development and Validation of the Pediatric Hypersomnia Survey (PHS)   | Kiran                     | Maski                    | Boston       | MA     |
| 94   | Clinical utility of a sponsored gene panel testing program for pediatric epilepsy and CLN2 disease diagnosis: Results from 10,853 tests  | Tiffany                   | Pang                     | Novato       | CA     |
| 95   | Reductions in Oculogyric Crisis Duration and Frequency in Children With Aromatic L-Amino Acid Decarboxylase Deficiency Treated With Eladocagene Exuparvec Gene Therapy: Results From 3 Clinical Trials | Yin-Hsiu                  | Chien                    | Taipei       | Taiwan |
| 96   | Eladocagene Exuparvec Improves Body Weight and Reduces Respiratory Infections in Patients With Aromatic L-Amino Acid Decarboxylase Deficiency  | Paul Wuh-Liang            | Hwu                      | Taipei       | Taiwan |
| 97   | Development of a Novel Rodent Model of Leukoencephalopathy with Calcifications and Cysts   | Jennifer                  | Harmon                   | Washington   | DC     |
| <b>Stroke (including other Vascular Disorders)</b> |  |                           |                          |              |        |
| 98   | Pediatric acute stroke protocols in the United States and Canada   | Dana                      | Harrar                   | Washington   | DC     |
| <b>Translational/Experimental Therapeutics</b>     |  |                           |                          |              |        |
| 99   | Benefit of BPN14770 for Cognition, Language and Daily Function in Adults with Fragile X Syndrome: A Randomized, Placebo-Controlled, Phase 2 Clinical Trial   | Elizabeth                 | Berry-Kravis             | Chicago      | IL     |
| 100  | Early Results from a Five Patient Cohort Treated with GTX-102, An Antisense Oligonucleotide Designed to Activate the Paternal UBE3A Gene in Angelman Syndrome  | Elizabeth                 | Berry-Kravis             | Chicago      | IL     |