

**The 63rd Annual Meeting of  
the Japanese Society of Child Neurology**

May 27<sup>th</sup> – 29<sup>th</sup>, June 24<sup>th</sup> – July 30<sup>th</sup>, 2021  
On-line Meeting

**PROGRAM**

## Presidential Lecture

Chair: Toyojiro Matsuishi (St. Mary's Hospital)

Ignite Evolution at the Dawn of a New Age

Yushiro Yamashta (Department of Pediatrics and Child Health, Kurume University School of Medicine, Kurume, Japan)

## Memorial Lecture of Dr. Yukio Fukuyama

Chair: Masayuki Itoh (Department of Mental Retardation and Birth Defect Research, National Institute of Neuroscience, National Center of Neurology and Psychiatry, Kodaira, Japan)

Development of clinical trial readiness in Rett syndrome using natural history studies and animal models

Jeffrey L. Neul (Vanderbilt Kennedy Center, Pediatrics, Division of Neurology, Pharmacology, and Special Education, Vanderbilt University Medical Center and Vanderbilt University, USA)

## Invited Lecture 1

Chair: Akemi Tomoda (Research Center for Child Mental Development)

Recent Advances in Treatment for Children with ADHD: Sequencing, Dosing, and Combining Pharmacological and Behavioral Approaches

William E. Pelham Jr. (Florida International University, USA)

## Invited Lecture 2

Chair: Yushiro Yamashita (Department of Pediatrics and Child Health, Kurume University School of Medicine, Kurume, Japan)

What do we know about environmental risk factors for neurodevelopmental disorders

Beate Ritz (Epidemiology, Environmental Sciences and Neurology, UCLA, FSPH and DGSOM, USA)

## Special Lecture 1

Chair: Akira Oka (Saitama Children's Medical Center, Saitama, Japan)

Towards human systems biology: Phosphorylation hypothesis of sleep

Hiroki Ueda (Graduate School of Medicine, The University of Tokyo, Tokyo, Japan)

## Special Lecture 2

Chair: Yushiro Yamashita (Department of Pediatrics and Child Health, Kurume University School of Medicine, Kurume, Japan)

Learning from insects

Munetoshi Maruyama (The Kyushu University Museum, Fukuoka, Japan)

## Special Lecture 3

Chair: Takao Takahashi (Dept Pediatrics, Keio Univ Sch of Med)

Pandemic and risk communication

Riko Muranaka (Kyoto University Graduate School of Medicine, Kyoto, Japan)

### Education Lecture 1

Chair: Masakazu Mimaki (Department of Pediatrics, Teikyo University School of Medicine, Tokyo, Japan)

Industrialization of new biomarker GDF15 change the diagnostic algorithm of mitochondrial diseases  
Yasutoshi Koga (Department of Pediatrics and Child Health, Kurume University School of Medicine, Kurume, Japan)

### Education Lecture 2

Chair: Mitsuhiro Kato (Department of Pediatrics, Showa University School of Medicine, Tokyo, Japan)

Aiming at society which values each and every life in the period of high economic growth -From children with special needs in Kenya, learning about the environment that makes every smile shine-  
Kazuko Kumon (The Garden of Siloam, Kiambu, Kenya)

### Education Lecture 3

Chair: Nobuhito Morota (Kitasato University Hospital)

Latest knowledge about the absorption mechanism of cerebrospinal fluid with special reference to the trans-lymphatic cerebrospinal fluid delivery system via the meningeal-extravascular fluid pathway

Masahiro Miura (Department of Anatomy, Faculty of Medicine, Oita University, Oita, Japan)

### Education Lecture 4

Chair: Ryutaro Kira (Department of Pediatric Neurology, Fukuoka Children's Hospital)

How to understand the recent pathoembryology and pathophysiology of spina bifida  
Takato Morioka (Department of Neurosurgery, Harasanshin Hospital, Fukuoka, Japan)

### Education Lecture 5

Chair: Hiroaki Nagase (Division of General Pediatrics Department of Pediatrics Kobe University Graduate School of Medicine)

Autism research: towards understanding the pathophysiology of autism from cellular and mouse models

Toru Takumi (Kobe University School of Medicine, Kobe, Japan)

### Education Lecture 6

Chair: Akira Oka (Saitama Children's Medical Center, Saitama, Japan)

Overview of AMED and programs undertaken by AMED including research field of child neurology  
Yoshinao Mishima (Japan Agency for Medical Research and Development)

### Education Lecture 7

Chair: Yasuhiro Takeshima (Department of Pediatrics, Hyogo College of Medicine, Hyogo, Japan)

Pediatric Neuro-Ophthalmology

Osamu Mimura (Department of Ophthalmology, Hyogo College of Medicine)

### Education Lecture 8

Chair: Tatsuharu Sato (The Department of Pediatrics, Nagasaki University Hospital, Nagasaki, Japan)

Epilepsy and headache

Hideo Enoki (Comprehensive Epilepsy Center, Seirei Hamamatsu General Hospital, Hamamatsu, Japan)

### Education Lecture 9

Chair: Yasunari Sakai (Department of Pediatrics, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan)

Genome analysis of rare and intractable diseases at the new technology analysis center

Naomichi Matsumoto (Department of Human Genetics, Yokohama City University Graduate School of Medicine, Yokohama, Japan)

### Education Lecture 10

Chair: Kyoko Hoshino (Segawa Memorial Neurological Clinic for Children, Tokyo, Japan)

Neurosurgical treatment of dystonias

Takaomi Taira (Department of Neurosurgery, Tokyo Women's Medical University, Tokyo, Japan)

### Education Lecture 11

Chair: Hideki Shimomura (Department of Pediatrics, Hyogo College of Medicine, Nishinomiya, Hyogo, Japan)

Pediatric movement disorders: Recent progress in symptomatology, pathogenesis, and treatment

Satoko Kumada (Department of Neuropediatrics, Tokyo Metropolitan Neurological Hospital, Tokyo, Japan)

### Education Lecture 12

Chair: Reimi Tsurusawa (Takagi Hospital)

The new evidence of stuttering as a neurodevelopmental disorder

Yoshikazu Kikuchi (Department of Otorhinolaryngology, Kyushu University Hospital, Fukuoka, Japan)

### Education Lecture 13

Chair: Toshio Ikeda (Matsuoka Kids Clinic)

Autoimmune encephalitis in clinical practice

Hiroshi Sakuma (Department of Brain and Neural Science, Tokyo Metropolitan Institute of Medical Science)

### Education Lecture 14

Chair: Eiji Nanba (Tottori University Hospital)

Management of chromosomal microarray testing as a routine medical examination in the field of child neurology

Toshiyuki Yamamoto (Division of Gene Medicine, Tokyo Women's Medical University Graduate School of Medicine, Tokyo, Japan)

## Education Lecture 15

Chair: Yuji Inaba (Division of Neurology, Nagano Children's Hospital, Azumino, Japan)

- 1) Cerebrotendinous Xanthomatosis, a disease that should be recognized by pediatricians. From the point of view of neurologist  
Yoshiki Sekijima (Department of Medicine (Neurology & Rheumatology), Shinshu University School of Medicine)
- 2) Cerebrotendinous xanthomatosis, a disease that should be recognized at childhood - from the point of view of pediatrician  
Yuji Inaba (Division of Neurology, Nagano Children's Hospital, Azumino, Japan)

## Symposium 1

Chair: Yoshimi Kaga (Department of Pediatrics, Faculty of Medicine, Yamanashi University, Yamanashi, Japan)

Hideaki Kanemura (Department of Pediatrics, Toho University Medical Center Sakura Hospital, Sakura, Japan)

Understanding comorbidities of ADHD

- 1) Comorbidities of ADHD: Anxiety, depression, and Tourette's disorder  
Yukiko Kano (Department of Child Neuropsychiatry, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan)
- 2) Epilepsy as one of co-morbidities of ADHD  
Hideaki Kanemura (Department of Pediatrics, Toho University Medical Center Sakura Hospital, Sakura, Japan)
- 3) Sleep disorders related with ADHD  
Michio Fukumizu (Segawa Memorial Neurological Clinic for Children, Tokyo, Japan)
- 4) Specific learning disorder comorbid with attention deficit hyperactivity disorder  
Yoshimi Kaga (Department of Pediatrics, Faculty of Medicine, Yamanashi University, Yamanashi, Japan)

## Symposium 2

Chair: Keiko Ishigaki (Department of Pediatrics, Tokyo Women's Medical University, School of Medicine)

Hirofumi Komaki (Translational Medical Center, National Center of Neurology and Psychiatry, Tokyo, Japan)

Neuromuscular disorders: The new treatment era

- 1) Duchenne muscular dystrophy: treatment, therapeutic research update  
Hirofumi Komaki (Translational Medical Center, National Center of Neurology and Psychiatry, Tokyo, Japan)
- 2) Clinical trials and therapeutic implementation in spinal muscular atrophy  
Kayoko Saito (Institute of Medical Genetics, Tokyo Women's Medical University, Tokyo, Japan)
- 3) Development of treatment for clinical trials of Fukuyama-type congenital muscular dystrophy  
Tatsushi Toda (Department of Neurology, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan)
- 4) Advances in the pathophysiological understanding and therapeutic development of myotonic dystrophy  
Masanori Takahashi (Department of Clinical Laboratory and Biomedical Sciences, Osaka University Graduate School of Medicine, Suita, Japan)

- 5) Development of new therapeutic strategies and second-generation enzyme replacement therapy for Pompe disease

Keiko Ishigaki (Department of Pediatrics, Tokyo Women's Medical University, School of Medicine)

### Symposium 3

Chair: Katsunori Fujii (Chiba University Graduate School of Medicine)

Tomonari Awaya (Kyoto University, Graduate School of Medicine)

Futures of iPS cells as disease model

- 1) Use of human iPS cells studying Spinal muscular atrophy

Michiko Yoshida (Kyoto City Hospital)

- 2) Werner syndrome, a genetic progeroid syndrome, and disease specific iPSCs

Yoshiro Maezawa (Department of Endocrinology, Hematology and Gerontology, Chiba University Graduate School of Medicine)

- 3) Modeling muscular diseases using patient iPS cells

Takeshi Yoshida (Department of Pediatrics, Kyoto University Graduate School of Medicine, Kyoto, Japan)

### Symposium 4

Chair: Katsunori Fujii (Chiba University Graduate School of Medicine)

Gaku Yamanaka (Department of Pediatrics and Adolescent Medicine)

Making invisible to visible: Progress of neuroimaging technique

- 1) Advancement of MRI for visualizing the nervous system

Hajime Yokota (Department of Diagnostic Radiology and Radiation Oncology, Graduate School of Medicine, Chiba University)

- 2) Ultrasound diagnosis for neuromuscular disorders

Akihiko Ishiyama (Department of Child Neurology, National Center Hospital, National Center of Neurology and Psychiatry)

- 3) MR neurography of peripheral neuropathies

Shoko Yoshii (Department of Pediatrics, Graduate School of Medicine, Chiba University, Chiba, Japan)

### Symposium 5

Chair: Ryoichi Sakuta (Child Development Psychosomatic Medicine Center, Dokkyo Medical University Saitama Medical Center)

Akemi Tomoda (Research Center for Child Mental Development)

Neurobiology and treatment of gaming disorder

- 1) Reward system dysfunction and gaming disorders in neurodevelopmental disorders with a focus on ADHD

Shinichiro Takiguchi (Department of Child and Adolescent Psychological Medicine, University of Fukui Hospital, Fukui, Japan)

- 2) Recent advances in the neurobiology of reward system and their implications for gaming disorder

Kensaku Nomoto (Department of Physiology, School of Medicine, Dokkyo Medical University, Tochigi, Japan)

- 3) Treatment of Internet Gaming Disorder: clinical practice of inpatient treatment program

Takeshi Inoue (Dokkyo Medical University Saitama Medical Center, Child Development and Psychosomatic Medicine Center, Saitama, Japan)

- 4) Current situation of a specialist treatment facility for gaming disorder and issues to be addressed  
Susumu Higuchi (National Hospital Organization Kurihama Medical and Addiction Center, Yokosuka, Japan)

## Symposium 6

Chair: Akihisa Okumura (Department of Pediatrics, Aichi Medical University)  
Masahiro Nonaka (Department of Neurosurgery, Kansai Medical University)

What you need to know about abusive head trauma

- 1) Outline of “Policy statement of the Japan Pediatrics Society on Abusive Head Trauma in Infants and Children”  
Masayoshi Senda (Department of pediatrics, Asahi general hospital, Chiba, Japan)
- 2) Abusive head trauma in infants and children: A pediatrician’s point of view  
Tomoko Maruyama (Pediatrics /Neonatology, Osaka General Medical Center, Osaka, Japan)
- 3) Abusive Head Trauma: From the perspective of neurosurgeon  
Satoshi Ihara (Division of Neurosurgery, Tokyo Metropolitan Children’s Medical Center, Tokyo, Japan)
- 4) Abusive head trauma from the view of a forensic pathologist  
Hirokazu Kotani (Department of Forensic Medicine and Sciences, Mie University Graduate School of Medicine, Mie, Japan)
- 5) Is medical common sense judicial absurdness?  
Kunihiko Sakai (TMI Associates, Tokyo, Japan)

## Symposium 7

Chair: Masayuki Itoh (Department of Mental Retardation and Birth Defect Research, National Institute of Neuroscience, National Center of Neurology and Psychiatry, Kodaira, Japan)  
Toyojiro Matsuishi (St. Mary’s Hospital)

Research and development of new treatment of Rett syndrome with patients association

- 1) Rett syndrome, Overview: past to future  
Masayuki Itoh (Department of Mental Retardation and Birth Defect Research, National Institute of Neuroscience, National Center of Neurology and Psychiatry, Kodaira, Japan)
- 2) The impact of MECP2 loss- or gain-of-function on clinical presentations: Rett syndrome and MECP2 duplication syndrome  
Satoru Takahashi (Department of Pediatrics, Asahikawa Medical University, Asahikawa, Japan)
- 3) Role of Mecp2-null mouse model of Rett syndrome in understanding the pathophysiology and in identifying potential therapies  
Tomoyuki Takahashi (Cognitive and Molecular Research Institute of Brain Diseases, Kurume University, Kurume, Japan)
- 4) Review of my clinical experience of Rett syndrome after the creation of a guidebook  
Shin Nabatame (Department of Pediatrics, Osaka University Graduate School of Medicine, Suita, Japan)
- 5) Research and development of new treatment using Ghrelin for Rett syndrome-Including reviews of treatment development around the world-  
Kotaro Yuge (Department of Pediatrics and Child Health, Kurume University School of Medicine, Kurume, Japan)

- 6) Activities of the patient association aiming at the development of treatment methods  
Tetsuji Tanioka (NPO Rett Syndrome Support Organization)

### Symposium 8

Chair: Hiroshi Arai (Bobath Memorial Hospital, Osaka, Japan)  
Kazuhiro Haginoya (Miyagi Children's Hospital)

Update of medical practice of cerebral palsy

- 1) Diversifying etiologies of cerebral palsy and the importance of comprehensive diagnosis  
Yukihiro Kitai (The Department of Child Neurology, Bobath Memorial Hospital, Osaka, Japan)
- 2) Evidence based rehabilitation for functional upper extremity improvement in children with hemiplegia  
Sayaka Katori (Hokkaido Medical Center for Child Health and Rehabilitation, Hokkaido, Japan)
- 3) Appropriate spasticity treatment and orthopedic treatment option  
Takeshi Kinjo (Department of Pediatric Orthopedic Surgery, Okinawa Prefectural Nanbu Medical Center and Childrens Medical Center, Okinawa, Japan)
- 4) How to prevent the problems in adulthood, pediatric neurologists?  
Arai Hiroshi (Bobath Memorial Hospital, Osaka, Japan)

### Symposium 9

Chair: Shiro Ozasa (Pediatrics, Kumamoto University Hospital)  
Masahiro Ishii (The Department of Pediatrics, University of Occupational Environmental Health, Kitakyushu, Japan)

A network construction in disaster for the children who need home medical care -from a viewpoint of non-pediatric neurologists

- 1) The disaster support learned from experience of Kumamoto earthquake  
Saori Nakamoto (NPO Corporation NEXTEP)
- 2) A network construction in disaster for the children who need home medical care -from a viewpoint of a neonatologist  
Shigeru Oki (Division of Neonatology Maternal & Perinatal Care Center Seirei Hamamatsu Hospital, Hamamatsu, Japan)
- 3) Let's hang out with Nicori whether the day be fine or bad  
Mina Matsumaru (Nicori, Specified Nonprofit Corporation, Fukuoka, Japan)
- 4) Evacuation plans for disabled people by newspaper writer  
Daisuke Miyake (The Nishinippon Shimbun Co., Ltd. Fukuoka, Japan)
- 5) The Outlook from Kitakyushu City's Surveys on Children Requiring Medical Care and Their Minds and Preparation for Natural Disaster  
Aiko Shinohara (Disability Support Division, Disability Welfare Department, Public Health and Welfare Bureau, Kitakyushu City, Fukuoka, Japan)

### Symposium 10

Chair: Yoshihiro Maegaki (Division of Child Neurology, Institute of Neurological Science, Faculty of Medicine, Tottori University, Yonago, Japan)  
Ryutaro Kira (Department of Pediatric Neurology, Fukuoka Children's Hospital, Fukuoka, Japan)



Palliative care in pediatric neurology: present and future

- 1) When the pediatric neurologist feels doing perspective of palliative care in practice of children with life-threatening conditions

Shin Okazaki (Department of Pediatric Neurology, Osaka City General Hospital, Osaka, Japan)

- 2) Representing children's voice as an advocate

Momoko Sasazuki (Faculty of Health and Welfare, Seinan Jogakuin University, Fukuoka, Japan)

- 3) When nurses sense the child being true to him/herself

Mari Matsuoka (Department of Human Health Science, Graduate School of Medicine Kyoto University, Kyoto, Japan)

- 4) Palliative care needs in children with neurological disorders

Nobuyuki Yotani (Division of Palliative Medicine, National Center for Child Health and Development, Tokyo, Japan)

## Symposium 11

Chair: Osuke Iwata (Nagoya City University, Graduate School of Medical Sciences Medical School)

Ritsuko Takahashi (Kunimi no mori Clinic)

Front line of Neonatal hypoxic ischemic encephalopathy- Long term developmental outcome-

- 1) Long term outcomes of infants with moderate and severe hypoxic ischaemic encephalopathy

Kennosuke Tsuda (Department of Pediatrics, Japanese Red Cross Nagoya Daini Hospital, Aichi, Japan)

- 2) Clinical features of children with cerebral palsy due to neonatal hypoxic ischemic encephalopathy

Yukihiro Kitai (The Department of Child Neurology, Bobath Memorial Hospital, Osaka, Japan)

- 3) A review of the acute phase of mild neonatal encephalopathy: Current perspectives

Jun Shibasaki (Department of Neonatology, Kanagawa Children's Medical Center, Yokohama, Japan)

- 4) Long-term development of mild encephalopathy and future challenges

Akihito Takeuchi (Neonatology and Child Neurology, NHO Okayama Medical Center, Okayama, Japan)

## Symposium 12

Chair: Tohru Okanishi (Department of Child Neurology, Tottori University, Tottori, Japan)

Ayataka Fujimoto (Comprehensive Epilepsy Center, Seirei Hamamatsu General Hospital)

Surgery for epileptic spasms: Efficacy of corpus callostomy/ multilobar resection

Introduction: Treatment of epileptic spasms unresponsive to ACTH

Tohru Okanishi (Department of Child Neurology, Tottori University, Tottori, Japan)

- 1) Clinical background and efficacy of corpus callosotomy for epileptic spasm

Ryoko Honda (Department of Pediatrics, National Hospital Organization Nagasaki Medical Center, Nagasaki, Japan)

- 2) Seizure outcome and recovering period of ADL after anterior-partial and total corpus callosotomy in adolescents and young adults with drop attacks

Kota Kagawa (Department of Neurosurgery, Hiroshima University)

- 3) The efficacy of multilobar resection and disconnection surgery for epileptic spasms based on the quantitative analysis of EEG

Yasushi Iimura (The Department of Neurosurgery, Juntendo University, Tokyo, Japan)

- 4) Asynchrony of ictal scalp EEG may predict unfavorable outcomes of corpus callostomy for epileptic spasms

Sotaro Kanai (Division of Child Neurology, Institute of Neurological Sciences, Faculty of Medicine, Tottori University, Yonago, Japan)

### Symposium 13

Chair: Kazuhiro Muramatsu (Jichi Medical University, Dept. of Pediatrics)

Tomonari Awaya (Translational Research Department for Skin and Brain Diseases, Kyoto University Graduate School of Medicine, Kyoto, Japan)

Basic science research for pediatric neurologists- bridge-building between basic and clinical research fields-

- 1) From pediatric neurologist to basic neuroscientist

Takayasu Mikuni (Brain Research Institute, Niigata University, Niigata, Japan)

- 2) A long distance between child neurologists and basic scientists

Hiroyuki Kidokoro (Department of Pediatrics, Nagoya University Graduate School of Medicine, Nagoya, Japan)

- 3) My choice for medical research "To bridge basic and clinical research fields"

Keiko Ishigaki (Department of Pediatrics, Tokyo Women's Medical University, School of Medicine)

- 4) Encouragement of basic science research for pediatric neurologists

Masakazu Mimaki (Department of Pediatrics, Teikyo University School of Medicine, Tokyo, Japan)

### Symposium 14

Chair: Masaharu Hayashi (The School of Nursing, College of Nursing and Nutrition, Shukutoku University, Chiba, Japan)

Kyoko Hoshino (Segawa Memorial Neurological Clinic for Children, Tokyo, Japan)

Latest topics of sleep disorders in children

- 1) Pediatric sleep apnea

Kumi Kato-Nishimura (Ota Memorial Sleep Center, Kanagawa, Japan)

- 2) Pediatric restless legs syndrome

Yuri Nagao (Segawa Memorial Neurological Clinic for Children, Tokyo, Japan)

- 3) Treatment with sleep-inducing drugs in children with neurodevelopmental disorders

Masaharu Hayashi (The School of Nursing, College of Nursing and Nutrition, Shukutoku University, Chiba, Japan)

- 4) Narcolepsy, Neurodevelopmental Disorders and H1N1 influenza

Takashi Kanbayashi (University of Tsukuba, Tsukuba, Japan)

### Symposium 15

Chair: Kiyokuni Miura (Aichi Developmental Disability Center, Central Hospital)

Soichiro Tanaka (Home Care Clinic for Children Hokkori Sendai)

Home medical care for children who needs constant medical care

- 1) In-home care for medical care children  
Hirotooshi Maeda (Medical Incorporated Foundation Harutaka kai, Tokyo, Japan)
- 2) Support for home migration of medical care children and the role that pediatricians should play after migration  
Sunao Tomita (Department of Home Medical Care, Tokyo Metropolitan Children's Medical Center, Tokyo, Japan)
- 3) Activities of a multidisciplinary consultation team for supporting children requiring constant medical care in Aomori Prefecture  
Takasuke Amizuka (The Department of Neonatal Health and Development, Aomori Prefectural Central Hospital, Aomori, Japan)
- 4) Work closely with local healthcare and nursing care staff  
Kazunori Hashimoto (Hinode Clinic, Hiroshima, Japan)
- 5) Respite care facility in the daytime for severe disabled patients at the clinic  
Tomohiro Kumada (Kumada kids-family Clinic, Moriyama, Japan)

### Committee's Seminar 1

Chair: Hirokazu Kurahashi (Aichi Medical University)

Masafumi Morimoto (School of Nursing, Kyoto Prefectural University of Medicine)

Pediatric collaborative research of bilirubin encephalopathy in preterm infants

- 1) A Nationwide Survey of Bilirubin Encephalopathy in Preterm Infants  
Akihisa Okumura (Department of Pediatrics, Aichi Medical University)
- 2) New treatment criteria using unbound bilirubin for preterm infants with neonatal hyperbilirubinemia  
Ichiro Morioka (Department of Pediatrics and Child Health, Nihon University School of Medicine)
- 3) Genetic background of neonatal hyperbilirubinemia  
Takahide Yanagi (Department of Pediatrics, Shiga University of Medical Science, Shiga, Japan)
- 4) Developmental changes in urinary coproporphyrin ratio in premature infants  
Takashi Kusaka (Kagawa University, Japan)
- 5) Intervention to the impairment due to bilirubin encephalopathy  
Hiroshi Arai (Bobath Memorial Hospital, Osaka, Japan)

### Committee's Seminar 2

Chair: Toshisaburo Nagai (Momoyama Gakuin University of Education)

Akira Yoneyama (Department of Pediatrics National Rehabilitation Center for Children with Disabilities)

Parent training for the prevention of maltreatment in children with neurodevelopmental disorders

- 1) Parent training for autism spectrum disorders  
Masahiko Inoue (Department of Clinical Psychology, Graduate School of Medical Sciences, Tottori University, Yonago, Japan)
- 2) Pragmatic multi-center randomized controlled trial of Well Parent Japan (WPJ) for mothers of children with ADHD: Getting research into the real world  
Shizuka Shimabukuro (Okinawa Institute of Science and Technology Graduate School)
- 3) Improving parenting resilience for parents of children with developmental disabilities -Social activities to prevent inappropriate parenting-  
Chiyomi Egami (Fukuoka Prefectural University, Fukuoka, Japan)

- 4) Practice of parent training program for child welfare facility staff  
Mika Nagase (Pediatrics, National Rehabilitation Center for Children with Disabilities, Tokyo, Japan)
- 5) Effects of a telehealth parent training for parents of young children with developmental delay  
Atsuko Matsuzaki (School of Nursing, Saniku Gakuin College, Chiba, Japan)

### Committee's Seminar 3

Chair: Yusaku Endo (Department of Pediatrics, Hamamatsu City Welfare and Medical Center for Development, Hamamatsu, Japan)  
Shigemi Kimura (Children's Rehabilitation, Sleep & Development Medical Center, Hyogo Prefectural Rehabilitation Central Hospital, Kobe, Japan)

Overcoming COVID-19 crisis-Networking for the handicapped children using artificial respirator-

- 1) SARS-CoV-2 in children  
Hiroyuki Moriuchi (Department of Pediatrics, Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, Japan)
- 2) What the Tokyo metropolitan children's administration hospital did for the new coronavirus infection  
Sunao Tomita (Department of Home Medical Care, Tokyo Metropolitan Children's Medical Center, Tokyo, Japan)
- 3) Problems in health care of children (adults) with severe motor and intellectual disabilities in developmental rehabilitation facilities during the covid-19 pandemic  
Kiyoshi Takemoto (Department of Pediatrics, Osaka Developmental Rehabilitation Center, Osaka, Japan)
- 4) The proposed guide for the COVID-19 patients with home ventilator and the medical reconstruction project in Iwate  
Manami Akasaka (Department of Pediatrics, School of Medicine, Iwate Medical University, Iwate, Japan)
- 5) The current situation of the local disaster network for handicapped children using artificial respirator  
Shigemi Kimura (Children's Rehabilitation, Sleep & Development Medical Center, Hyogo Prefectural Rehabilitation Central Hospital, Kobe, Japan)

### Committee's Seminar 4

Chair: Kyoko Itoh (Kyoto Prefectural University of Medicine)

Medical research, bioethics, and the law-Recent trends of governmental regulations of medical research-

Governmental Regulations of Medical Research: Recent Trends

Eiji Maruyama (Kobe University)

### Committee's Seminar 5

Chair: Naoyuki Tanuma (Tokyo Metropolitan Fuchu Medical Center for the Disabled, Japan)  
Kyoko Hoshino (Segawa Memorial Neurological Clinic for Children, Tokyo, Japan)

The role of clinical psychologists in the field of pediatric neurology

- 1) The trends of Clinical Psychologists in the medical setting  
Fumi Imamura (National Center Hospital of Neurology and Psychiatry)

- 2) Role of Clinical Psychologists in Rehabilitation Center for Disabled  
Yukiko Mochimaru (Tokyo Metropolitan Kita Medical and Rehabilitation Center for the Disabled)
- 3) Role of clinical psychologists in university hospitals  
Reiko Sakai (Aichi Medical University Hospital, Aichi, Japan)
- 4) The role of clinical psychologists in private clinics  
Tsuyoshi Harada (Parkside Developmental Disability Clinic, Fukuoka, Japan)
- 5) How licensed psychologists work in Japanese medical-related area -Current status and future prospects -  
Akira Yoneyama (Department of Pediatrics National Rehabilitation Center for Children with Disabilities, Japan)

### Committee's Seminar 6

Chair: Eiji Nakagawa (Department of Child Neurology, National Center Hospital, National Center of Neurology and Psychiatry, Tokyo, Japan)  
Keiko Ishigaki (Department of Pediatrics, Tokyo Women's Medical University, School of Medicine)

Progress and problems of gene therapy for neuromuscular diseases

- 1) Progress and problems of gene therapy agents  
Eiji Nakagawa (Department of Child Neurology, National Center Hospital, National Center of Neurology and Psychiatry, Tokyo, Japan)
- 2) Development of exon 53 skipping drug for Duchenne muscular dystrophy  
Yoshitsugu Aoki (Department of Molecular Therapy, National Institute of Neuroscience, National Center of Neurology and Psychiatry, Tokyo, Japan)
- 3) Clinical trial to develop gene therapy for child neurological diseases  
Takanori Yamagata (Department of Pediatrics, Jichi Medical University)
- 4) Survey of attitudes and knowledge about gene therapy in the patients with lysosomal storage disorders and peroxisomal disorders  
Takayuki Yokoi (Department of Pediatrics, The Jikei University School of Medicine, Tokyo, Japan)
- 5) The challenges of gene therapy in clinical settings  
Keiko Ishigaki (Department of Pediatrics, Tokyo Women's Medical University, School of Medicine)

### Committee's Seminar 7

Chair: Akira Yoneyama (Department of Pediatrics National Rehabilitation Center for Children with disabilities)  
Masakazu Mimaki (Department of Pediatrics, Teikyo University School of Medicine, Tokyo, Japan)

Transitional medicine- Current status and problems in pediatric neurology-

- 1) Transitional care after the enactment of the basic law for Child and Maternal Health and Child Development  
Hanako Jimi (A Member of the House of Councilors)
- 2) Transitional medicine: Current status and problems in pediatric neurology  
Yuichi Abe (Division of Neurology, National Center for Child Health and Development, Tokyo, Japan)
- 3) Current status and issues of medical care for patients with chronic (neurological) diseases from childhood in the field of adult neurology  
Toshio Saito (Division of Child Neurology, Department of Neurology, National Hospital Organization Osaka Toneyama Medical Center, Toyonaka, Japan)

- 4) Integrated care and home medical care for all children and adults with special health care needs  
Hidefumi Ichinose (Ichinose Family Clinic)
- 5) New Initiative for children and persons with Down syndrome: Continuous support their whole life  
Masae Ono (Tokyo Teishin Hospital)

### Committee's Seminar 8

Chair: Naoko Ishihara (Department of Pediatrics, Fujita Health University School of Medicine, Toyoake, Japan)

Yuka Ishikawa (National Hospital Organization Yakumo National Hospital)

The role of Japanese Society of Child Neurology for overseas support in the developing countries-

- 1) Message to the Japanese Society of Child Neurology  
Naoko Yamamoto (World Health Organization)
- 2) Rehabilitation as social model through to support abroad-Cooperation with local government for 30 years-  
Akemi Bando (The Support of Vietnam Children Association, Kyoto, Japan)
- 3) The one in Kenya is the precious life on the earth - Supporting children with special needs in Kenya -  
Kazuko Kumon (The Garden of Siloam, Kiambu, Kenya)

### Committee's Seminar 9

Chair: Kazuhiro Muramatsu (Jichi Medical University, Dept. of Pediatrics)

Yusaku Miyamoto (Division of Pediatrics, Kawasaki Municipal Tama Hospital)

Actions for patient safety in pediatric neurology

- 1) Our previous efforts and a fact-finding survey of the recommendation on sedation during physiological examinations such as electroencephalogram  
Seigo Korematsu (Nakatsu Municipal Hospital)
- 2) Guideline for safe ACTH treatment of West syndrome: Answers to the public comments  
Hideo Yamanouchi (Saitama Medical University Department of Pediatrics, Saitama, Japan)
- 3) Medical safety for medical care children - Prevention of brachiocephalic arterial bleeding and gastrostomy catheter misinsertion  
Mitsuko Ishii (Department of Pediatric Neurology, Chiba Rehabilitation Center, Chiba, Japan)
- 4) Medical practice to reduce risk of lawsuits in pediatric neurology  
Yuko Nakashita (Cosmos Law Office, Tokyo, Japan)

### Practical Education Seminar 1

Chair: Akira Nishimura (Japanese Red Cross Kyoto Daiichi Hospital)

Toshiyuki Hikita (Hikita Pediatric Clinic, Kiryu, Gunma, Japan)

Headaches in children: practical training by six masters

- 1) Childhood periodic syndromes  
Toshiyuki Hikita (Hikita Pediatric Clinic, Kiryu, Gunma, Japan)
- 2) Similarities and differences between epilepsy and headache  
Tomoyuki Nakazawa (Department of Pediatrics, Toshima Hospital, Tokyo, Japan)
- 3) Chronic daily headache ~on the view of psychosomatic medicine  
Akira Nagai (Division of General Pediatrics, National Center for Child Health and Development, Tokyo, Japan)

- 4) Primary headaches as comorbidity with orthostatic dysregulation  
Hideki Shimomura (Department of Pediatrics, Hyogo College of Medicine, Nishinomiya, Hyogo, Japan)
- 5) Symptomatology of occipital lobe epilepsy and migraine  
Hideo Enoki (Comprehensive Epilepsy Center, Seirei Hamamatsu General Hospital, Hamamatsu, Japan)
- 6) Children with school refusal due to headache  
Kazuhiro Shiraishi (Pediatric Division of Utano National Hospital, Kyoto, Japan)

## Practical Education Seminar 2

Chair: Katsunori Fujii (Department of Pediatrics, Graduate School of Medicine, Chiba University)

Practical education seminar for beginners learning pediatric neurology

- 1) How to examine infants and toddlers, from the basic knowledge you need to know  
Masaya Kubota (Shimada Medical (ryouiku) Center, Tokyo, Japan)
- 2) Methods and pitfall for radiologic interpretations of brain CT and MRI  
Tadashi Shiohama (Department of Pediatrics, Chiba University Hospital, Chiba, Japan)
- 3) Acute Encephalopathy: The ABC of Diagnosis and Initial Management  
Hiroaki Nagase (Division of General Pediatrics, Department of Pediatrics, Kobe University Graduate School of Medicine, Kobe, Japan)

## Practical Education Seminar 3

Chair: Hitoshi Osaka (Jichi Medical University)

Shinji Saitoh (Department of Pediatrics and Neonatology, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan)

The 8th practical education seminar for genetics: how to interpret the results of genetic analysis

- 1) How to interpret the results of comprehensive genomic analysis  
Toshiyuki Yamamoto (Division of Gene Medicine, Tokyo Women's Medical University Graduate School of Medicine, Tokyo, Japan)
- 2) How to proceed the genetic tests for unidentified neurodevelopmental disorders: A clinical approach  
Yasunari Sakai (Department of Pediatrics, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan)
- 3) Genetic counseling for genetic testing of pediatric neurological diseases  
Takahito Wada (Department of Medical Ethics and Medical Genetics, Kyoto University Graduate School of Medicine, Kyoto, Japan)
- 4) Exome sequencing data analysis training  
Kyoko Takano (Center for Medical Genetics, Shinshu University Hospital, Matsumoto, Japan)

## Practical Education Seminar 4

Chair: Sawa Yasumoto (Fukuoka University Faculty of Medicine)

Hideaki Kanemura (Department of Pediatrics, Toho University Medical Center Sakura Hospital, Sakura, Japan)

Sleep disorders in children and neurological disorders

- 1) Child and adolescent sleep clinic  
Motohiro Ozone (The Department of Neuropsychiatry Department of Neuropsychiatry, Kurume University School of Medicine, Fukuoka, Japan)
- 2) Procedure and scoring of pediatric polysomnography  
Tomoko Yagi (Ota sleep Center, Japan)
- 3) Effect of circadian rhythm and sleep-wake cycle on autonomic regulation  
Makiko Toyoura (Hyogo Rehabilitation Center Hospital, Hyogo Children's Rehabilitation, Sleep and Development Medical Research Center, Kobe, Japan)
- 4) Treatment of sleep disorders during childhood  
Michio Fukumizu (Segawa Memorial Neurological Clinic for Children, Tokyo, Japan)
- 5) Symptoms of frontal lobe seizure and its difference from parasomnias  
Jun Tohyama (Department of Child Neurology, NHO Nishiniigata Chuo Hospital, Niigata, Japan)

### Practical Education Seminar 5

Chair: Jun-ichi Takanashi (Tokyo Women's Medical University Yachiyo Medical Center)  
Hiroshi Oba (Department of Radiology, Teikyo University School of Medicine, Tokyo, Japan)

Neuroimaging for pediatrician:2021

- 1) Pediatric neuroimaging: normal findings and artifacts  
Harushi Mori (Department of Radiology, Jichi Medical University, School of Medicine, Tochigi, Japan)
- 2) Neuroimaging of congenital metabolic disorders (urea cycle, amino acids, organic acids, fatty acids)  
Mikako Enokizono (Department of Radiology, Tokyo Metropolitan Children's Medical Center, Tokyo, Japan)
- 3) Up to date neuroimaging in leukodystrophy  
Jun-ichi Takanashi (Department of Pediatrics, Tokyo Women's Medical University Yachiyo Medical Center, Chiba, Japan)
- 4) Characteristics and imaging diagnosis of pediatric head injury -Basic anatomical knowledge required for imaging interpretation-  
Hidetsuna Utsunomiya (Department of Radiology, Teikyo University School of Medicine, Tokyo, Japan)

### Practical Education Seminar 6

Chair: Masaya Kubota (Shimada Ryoiku Medical Center for Challenged Children)  
Katsuo Sugita (Division of Child Neurology, Chiba Municipal Development Center, Chiba, Japan)

Learning from misdiagnosis (2)

- 1) What is diagnostic error?  
Katsuo Sugita (Division of Child Neurology, Chiba Municipal Development Center, Chiba, Japan)
- 2) Considerations for medical behavior science from Semmelweis' work  
Masaya Kubota (Shimada Medical (ryouiku) Center, Tokyo, Japan)
- 3) Diagnostic errors in pediatric neurology: perspectives with diagnostic odyssey plot  
Itaru Hayakawa (Division of Neurology, Department of Medical Subspecialties, National Center for Child Health and Development, Tokyo, Japan)



4) Misdiagnosis in the field of general medicine

Masatomi Ikusaka (Department of General Medicine, Chiba University Hospital, Chiba, Japan)

### English Session 1

Chair: Katsuhiko Kobayashi (Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Department of Child Neurology, Okayama, Japan)  
Shinji Saitoh (Department of Pediatrics and Neonatology, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan)

#### Best English Session Award 1

1) Loss of GNAO1 causes aberrant polarity and firing of developing neurons in human brain organoids

Satoshi Akamine (Department of Pediatrics, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan)

2) Functional and transcriptomic analysis of *STXBP1* encephalopathy iPSC-derived GABAergic neurons

Eisuke Ichise (Department of Pediatrics, Kyoto Prefectural University of Medicine, Kyoto, Japan)

3) AESD-associated microRNAs and target genes are involved in inflammatory responses

Mariko Kasai (Department of Developmental Medical Sciences, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan)

4) *IL-1B* polymorphism in acute encephalopathy with biphasic seizures and late reduced diffusion

Akiko Shibata (Department of Developmental Medical Sciences, School of International Health, Graduate School of Medicine, The University of Tokyo, Japan)

### English Session 2

Chair: Toshiki Takenouchi (Department of Pediatrics, Keio University School of Medicine, Tokyo, Japan)

Hiroyuki Kidokoro (Department of Pediatrics, Nagoya University Graduate School of Medicine, Nagoya, Japan)

#### Best English Session Award 2

5) Decreased gait efficiency and gait quality in school-aged children born late preterm

Yuji Ito (Department of Pediatrics, Aichi Prefecture Mikawa Aoitri Medical and Rehabilitation Center for Developmental Disabilities, Aichi, Japan)

6) Cellular models of 1q21.1 deletion and duplication syndrome using human ES-derived neural cells

Yoshiko Nomura (RIKEN Center for Brain Science, Wako, Japan)

7) The Potential of practical Internet-Delivered Parent-Child Interaction Therapy in the COVID-19 era

Koyuru Kurane (Department of Pediatrics, Jichi Medical University, Tochigi, Japan)

8) Clinicopathological features of children with laminopathy

Yoshihiko Saito (Department of Neuromuscular Research, National Institute of Neuroscience, National Center of Neurology and Psychiatry, Tokyo, Japan)

### English Session 3

Chair: Yasunari Sakai (Graduate School of Medical Sciences, Department of Pediatrics, Kyushu University, Fukuoka, Japan)

Hiroto Saito (Department of Biochemistry, Hamamatsu University School of Medicine, Hamamatsu, Japan)

Genetics, Genetic abnormality

- 9) PNPLA8 deficiency induces microcephaly and reduces neurogenesis in a brain organoid model  
Yuji Nakamura (Department of Pediatrics and Neonatology, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan)
- 10) The expression of SCN4A may account for the CNS symptoms in a case of paramyotonia congenita  
Yoshie Kurokawa (Department of Pediatrics, Jichi Medical University)
- 11) Bex1 is juvenile-expressed IDP implicated in cerebellar and retinal morphogenesis  
Masaki Mori (National Cerebral and Cardiovascular Center, Osaka, Japan)
- 12) Evaluation of functional connectivity in the brain of *Cdk15* mutant mice by the Ca<sup>2+</sup> imaging and fMRI  
Teruyuki Tanaka (Department of Developmental Medical Sciences, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan)
- 13) Two siblings with hereditary spastic paraplegia (SPG9B) due to biallelic mutations in ALDH18A1  
Hirofumi Kashii (Department of Neuropediatrics, Tokyo Metropolitan Neurological Hospital, Tokyo, Japan)
- 14) RDP-DYT12 phenotype consistency for a novel variant of ATP1A3 in patients across three populations  
Kyoko Hoshino (Segawa Memorial Neurological Clinic for Children, Tokyo, Japan)

#### English Session 4

Chair: Yoshihiro Maegaki (Division of Child Neurology, Department of Brain and Neurosciences, Faculty of Medicine, Tottori University, Yonago, Japan)  
Shinsuke Maruyama (Department of Pediatrics, Graduate School of Medical and Dental Sciences, Kagoshima University, Kagoshima, Japan)

Epilepsy, Encephalitis/Encephalopathy

- 15) An infant case of hemiplegic migraine with ATP1A2 mutation in a coarse like acute encephalopathy  
Hideki Hoshino (Department of Pediatrics, Teikyo University, Tokyo, Japan)
- 16) Four cases of Panayiotopoulos syndrome evolving to juvenile myoclonic epilepsy  
Hideo Enoki (Comprehensive Epilepsy Center, Seirei Hamamatsu General Hospital, Hamamatsu, Japan)
- 17) Cancelled
- 18) Long-term outcomes of two patients with progressive myoclonic epilepsy treated with VNS therapy  
Ayataka Fujimoto (Comprehensive Epilepsy Center, Seirei Hamamatsu General Hospital)
- 19) Spontaneous movements after diagnosis of clinical brain death: a lesson from acute encephalopathy  
Masaya Kubota (NCCHD, Tokyo, Japan)
- 20) Road to Diagnosis: profiling the diagnostic Odyssey in pediatric acute disseminated encephalomyelitis  
Yoko Takahashi (Division of Pediatric Neurology, National Center for Child Health and Development, Tokyo, Japan)

#### English Session 5

Chair: Tetsuro Nagasawa (Raffles Japanese Clinic, Paediatrics)  
Osuke Iwata (Department of Pediatrics and Neonatology, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan)

Others

- 21) Effect of nusinersen in Japanese patients with spinal muscular atrophy type 2 and 3  
Yuko Motohashi (Department of Child Neurology, National Center of Neurology and Psychiatry)

- 22) Effects of methylphenidate on aberrant brain network dynamics in children with ADHD  
Yoshifumi Mizuno (Department of Psychiatry & Behavioral Sciences, Stanford University School of Medicine, Stanford, CA, USA)
- 23) Review of recent clinical trials using umbilical cord derived-MSC for neurological disorders  
Makoto Nabetani (Yodogawa Christian Hospital)
- 24) Whole-brain morphometric study in children with sensorineural hearing loss  
Tadashi Shiohama (Department of Pediatrics, Chiba University Hospital, Chiba, Japan)
- 25) Correlation between non-specific amino acid deviations and developmental or intelligence quotient  
Takahiro Abiko (Pediatrics, Yamagata University Faculty of Medicine)
- 26) Cancelled

### Oral Presentation 1

- Chair: Muneaki Matsuo (Education and Research Center for Community Medicine, Faculty of Medicine, Saga University)  
Jun Tohyama (Department of Child Neurology, NHO Nishiniigata Chuo Hospital, Niigata, Japan)
- O-001 Mitochondrial morphology in neurons derived from iPS cells of EIEE patient with DNM1L mutation  
Kenji Uematsu (The Department of Pediatrics, National Defense Medical College, Tokorozawa, Saitama, Japan)
- O-002 Brain GABA elevation involved with vigabatrin-associated brain abnormalities on MRI  
Azusa Ikeda (Division of Neurology, Kanagawa Children's Medical Center, Yokohama, Japan)
- O-003 Effects of everolimus on epilepsy in patients with tuberous sclerosis complex  
Tokuyasu Arakawa (National Center of Neurology and Psychiatry)
- O-004 Prognostic factors for acute encephalopathy with biphasic seizures and late reduced diffusion  
Yosuke Miyamoto (Division of Child Neurology, Tottori University, Tottori, Japan)
- O-005 National survey of influenza-associated limbic encephalitis and sleep disorders in Japan  
Takuji Nakamura (Department of Pediatrics, Saga University, Saga, Japan)

### Oral Presentation 2

- Chair: Masayuki Sasaki (National Center of Neurology and Psychiatry)  
Shinichiro Nagamitsu (Department of Pediatrics and Child Health, Kurume University School of Medicine, Kurume, Japan)
- O-006 fNIRS visualization of neuropharmacological effects of guanfacine in AD/HD  
Takahiro Ikeda (Department of Pediatrics, Jichi Medical University, Tochigi, Japan)
- O-007 Diffusion tensor imaging analysis in Duchenne and Becker muscular dystrophy  
Masahiro Kawaguchi (Department of Pediatrics, Nagoya University Graduate School of Medicine, Nagoya, Japan)
- O-008 Elucidation of the pathogenesis of a novel copper deficiency disease with impaired CTR1 function  
Kanakano Maizuru (Department of Pediatrics, Kyoto University, Kyoto, Japan)
- O-009 Impact on children's mental state by COVID-19 school closure  
Hikaru Kitahara (Pediatric Department of Osaka Medical College, Osaka, Japan)

### Oral Presentation 3

Chair: Hiroshi Ozawa (Department of Child Neurology, Shimada Ryoiku Center Hachioji)  
Mika Kaneko (Koguma Gakuen Children's Development Center)

- O-010 Fidgety movements assessment accuracy survey - Effect of repetitive assessment practice  
Tomoki Maeda (Department of Pediatrics, Oita University, Oita, Japan)
- O-011 Outcomes of patients referred for gross motor delay  
Gen Furukawa (Department of Pediatrics, Fujita Health University School of Medicine, Toyoake, Japan)
- O-012 Is it possible to assess GMs in the prone position?  
Rieko Wasada (Department of Pediatrics, Nishibeppu National Hospital, Oita, Japan)
- ~~O-013~~ Cancelled
- O-014 Developmental assessment of children with high risk neonatal events  
Manaka Matsunaga (Pediatrics, Minami Kyushu National Hospital, Kagoshima, Japan)
- O-015 Early childhood macrocephaly without structural abnormality  
Yuko Nakamura (The Department of Child Neurology, University of Tottori, Yonago, Japan)

### Oral Presentation 4

Chair: Ayumi Seki (Faculty of Education, Hokkaido University, Sapporo, Japan)  
Yukihiko Kaneko (Kagawa University)

- O-016 Fluvoxamine was effective for self-injurious behavior in pediatric Rubinstein-Taybi syndrome  
Rika Kume (Maizuru Medical Center, Kyoto, Japan)
- O-017 Evaluation of socio-emotional ability in children with autism spectrum traits  
Katsuo Sugita (Division of Child Neurology, Chiba Municipal Development Center, Chiba, Japan)
- O-018 Values of stress markers and CRP mirror a severity of symptoms in patients with ASD  
Toshiaki Hashimoto (Japanese Red Cross Tokushima Hinomine Rehabilitation Center for People with Disabilities, Tokushima, Japan)
- O-019 Tympanic deep body temperature as a biomarker of autism spectrum disorders; The 5th report  
Tomohiro Nakayama (Department of Pediatrics, Ibaraki Prefectural University of Health Sciences, Ibaraki, Japan)
- O-020 A study of medical findings at 18 months health examination who were diagnosed as ASD at 5 years old  
Tatsuya Koeda (National Center for Child Health and Development)
- O-021 The Favorable Effect of Small Dose of Risperidone for Autism Spectrum Disorder  
Shigeru Hanaoka (Matsudo Municipal Center for Child Development)

### Oral Presentation 5

Chair: Akio Nakai (Mukogawa Women's University Institute for Education)  
Tasuku Miyajima (Tokyo Kasei University)

- O-022 On the Significance of the Rating Scale for Callous Unemotional Traits (CU) among Toddlers  
Tatsuya Ogino (Fukuyama Support Center of Development and Care for Children, Fukuyama City, Japan)

- O-023 Establishment of a prediction model for ADHD by continuous performance test “MOGRAZ”  
Tsunehiko Kurokami (Department of Psychosocial Medicine, National Center for Child Health and Development, Tokyo, Japan)
- O-024 Serum ferritin levels in 4-8 year old children with ADHD or ASD  
Yuki Ejiri (Department of Pediatrics, Shimada Rehabilitation Center, Tama City, Tokyo, Japan)
- O-025 Adherence to medication among children with ADHD and their parents  
Iori Ohmori (Graduate School of Education, Okayama University, Okayama, Japan)
- O-026 Evaluation of the brain function in reading tasks: a near-infrared spectroscopy study  
Kenji Mori (Department of Child Health & Nursing, Tokushima University Graduate School, Tokushima, Japan)
- O-027 The relationships between vocabulary and reading/phonological skills in the reading difficulties  
Ayumi Seki (Faculty of Education, Hokkaido University, Sapporo, Japan)

### Oral Presentation 6

- Chair: Yukio Sawaishi (Akita Prefectural Center on Development and Disability, Akita, Japan)  
Hiroyuki Hirose (Center for Developmental Disorders of Yokosuka, Japan)
- O-028 Prevalence and characteristics of children with medical complexity in Tottori Prefecture, Japan  
Hiroyuki Yamada (Division of Child Neurology, Department of Brain and Neurosciences, Faculty of Medicine, Tottori University, Yonago, Japan)
- O-029 CBIT response in clinical practice: 8 year old boy with Tourette syndrome  
Takeshi Inoue (Dokkyo Medical University Saitama Medical Center, Child Development and Psychosomatic Medicine Center, Saitama, Japan)
- O-030 Prognosis of Children with Neurodevelopmental disorders at High School Age  
Yuko Hayashi (Department of Pediatrics, Medical Center, Faculty of Health and Welfare, Prefectural University of Hiroshima, Mihara, Japan)
- O-031 Consultation and support for developmental disorder at regional core hospitals. Follow-up report  
Aki Kurihara (Department of Pediatrics, Tama-Hokubu Medical Center, Tokyo, Japan)
- O-032 Problem-Solving Efforts on Developmental Disorders by Youth-inochi Gakusei Innovators' Program 2020-  
Soma Sagara (Faculty of Medicine, Osaka University, Osaka, Japan)

### Oral Presentation 7

- Chair: Takashi Ichiyama (Department of Pediatrics, Tsudumigaura Medical Center for Children with Disability, Yamaguchi, Japan)  
Sayaka Katori (Hokkaido Medical Center for Child Health and Rehabilitation, Hokkaido, Japan)
- O-033 A successful treatment of acquired spastic tetraplegia using intrathecal baclofen therapy  
Tatsuya Kawaguchi (The Department of Pediatrics, West Shimane Medical and Welfare Center, Shimane, Japan)
- O-034 QOL improvement by introduction of prone carts for patients with SMID and severe respiratory failure  
Saori Ono (Tokyo Metropolitan Tobu Medical Center for Persons with Developmental/ Multiple Disabilities, Tokyo, Japan)

- O-035 Evaluation of anxiety and depression among persons with cerebral palsy by HADS  
Naomi Okuyama (The Department of Pediatrics, Bobath Memorial Hospital, Osaka, Japan)
- O-036 The effect of home-based robot training for children with cerebral palsy: an interim report  
Shihomi Kawasaki (Human Health Sciences, Kyoto University Graduate School of Medicine, Kyoto, Japan)

### Oral Presentation 8

- Chair: Masao Kumode (Biwakogakuen Kusatsu Medical and Welfare Center for Disabilities)  
Shin-ichi Uchiyama (Department of Pediatrics, Nishibeppu National Hospital, Oita, Japan)
- O-037 Home care support for children with complex medical conditions requiring tracheostomy management  
Yongkye Lee (Department of Pediatrics, Aijinkai Rehabilitation Hospital, Takatsuki, Osaka, Japan)
- O-038 Acute pancreatitis in patients with severe motor and intellectual disabilities  
Shunsuke Ogaya (The Department of Child Neurology, Central Hospital, Aichi Developmental Disability Center, Kasugai, Japan)
- O-039 Comparison of serum KL-6 and chest CT findings in children with severe neurologic disabilities.  
Hiroyuki Wakamoto (Department of Pediatrics, Ehime Rehabilitation Center for Children, Toon, Japan)
- O-040 Gallbladder findings in SMID, comparing MRCP and abdominal ultrasonography  
Keiko Wada (Department of Pediatrics, Tokyo Childrens Rehabilitation Hospital)

### Oral Presentation 9

- Chair: Yuichi Suzuki (Department of Pediatrics, Fukushima Medical University School of Medicine, Fukushima, Japan)  
Gaku Yamanaka (Department of Pediatrics and Adolescent Medicine, Tokyo Medical University, Tokyo, Japan)
- O-041 Reassessment of the examination for orthostatic hypotension in our hospital  
Masako Isaka (Department of Pediatrics, Nishinomiya Kaisei Hospital, Nishinomiya-shi, Japan)
- O-042 Efficacy of Hangebyakujyutsutenmato for Orthostatic Dysregulation  
Eiji Kurihara (Department of Child Neurology, Kitahara Life Support Clinic, Tokyo, Japan)
- O-043 Primary stabbing headache in children and adolescents: a retrospective, single center, case series  
Yu Ishida (Tokyo Medical University Hachioji Medical Center, Tokyo, Japan)
- O-044 The case that improvement of chronic daily headache could be visualized by his own headache diary  
Moriei Shibuya (Miyagi Children's Hospital, Miyagi, Japan)
- O-045 A patient with recurrent painful ophthalmoplegic neuropathy responded to steroid pulse therapy  
Makoto Nishioka (Division of Pediatric Neurology, Nagano Children's Hospital, Nagano, Japan)
- O-046 A case of severe cyclic vomiting with significant effects of rizatriptan and amitriptyline  
Shiori Moriyama (Tachikawa Hospital, Tokyo, Japan)

## Oral Presentation 10

Chair: Tomoyuki Akiyama (Department of Child Neurology, Okayama University, Okayama, Japan)

Kiyohisa Ishii (Saga Medical and Welfare Center for the Challenged)

O-047 Benzodiazepine resistance in febrile status epilepticus

Michihiko Takasu (Tokyo Metropolitan Health and Hospitals Corporation Toshima Hospital, Tokyo, Japan)

O-048 Efficacy and safety of intravenous lorazepam for status epilepticus and cluster seizures in children

Ryuki Matsuura (Division of Neurology, Saitama Children's Medical Center, Saitama, Japan)

O-049 Buccal Midazolam in Paediatric Status Epilepticus: A Japanese Phase 3, Multicentre, Open-label Study

Harumi Yoshinaga (National Hospital Organization Minami-Okayama Medical Center)

O-050 Buccal Midazolam Treatment for Paediatric Status Epilepticus in Community Settings in Japan

Harumi Yoshinaga (National Hospital Organization Minami-Okayama Medical Center)

O-051 Hyperuricemia induced by valproate in epileptic patients with ABCG2 variant

Takamasa Kishi (Department of Pediatrics, KKR Hiroshima Memorial Hospital, Hiroshima, Japan)

## Oral Presentation 11

Chair: Nobutsune Ishikawa (Department of Pediatrics, Hiroshima University)

Chizuru Ikeda (Kumamoto Saishun Medical Center, Kumamoto, Japan)

O-052 Neonatal abstinence syndrome due to prenatal levetiracetam exposure

Yuri Shibata (Department of Pediatrics, Sano Kosei General Hospital, Tochigi, Japan)

O-053 Experience of treatment by perampanel for three years

Hirokazu Yamagishi (Department of Pediatrics, Jichi Medical University)

O-054 Clinical study of 3 cases of ketone diet therapy and perampanel combination

Kohei Goto (Department of Pediatrics and Child Health, Kurume University School of Medicine, Fukuoka, Japan)

O-055 Successful treatment with perampanel in a case with startle epilepsy followed by AESD

Yusuke Aoki (Department of Pediatric Neurology, Aichi Children's Health and Medical Center, Obu, Japan)

O-056 Effect of 2 years after medication of Perampanel, to patients with intractable epilepsy in childhood

Shin Okazaki (Department of Pediatric Neurology, Osaka City General Hospital, Osaka, Japan)

## Oral Presentation 12

Chair: Norimichi Higurashi (Department of Pediatrics, Jikei University School of Medicine)

Yukiko Ihara (Department of Pediatrics School of Medicine, Fukuoka University, Fukuoka, Japan)

O-057 The clinical experience of childhood epilepsy in our hospital for the past 5 years

Kouhei Ishida (Department of Pediatrics, Iwamizawa Municipal General Hospital, Hokkaido, Japan)

- O-058 Lacosamide as initial therapy for children with focal epilepsy  
Mitsuru Kashiwagi (The Department of Pediatrics, Hirakata City Hospital, Osaka, Japan)
- O-059 Retrospective study of the efficacy, retention rate and side effect of Lacosamide  
Kei Wakabayashi (Department of Pediatrics, Jichi Medical University)
- O-060 Lacosamide for Benign Infantile Epilepsy  
Shingo Numoto (Department of Pediatrics, Aichi Medical University)
- O-061 Lacosamide as initial and early add-on therapy for improvement in paroxysmal discharges  
Hiroki Hoshino (Department of Pediatrics, Toho University, Sakura Medical Center, Chiba, Japan)
- O-062 The problem and solution for long-term use of lacosamide considering adverse effect  
Yoshihiro Watanabe (Department of Pediatrics, Yokohama City University Medical Center, Yokohama, Japan)

### Oral Presentation 13

- Chair: Kazuo Okanari (Oita University)  
Kazuyuki Nakamura (Department of Pediatrics, Faculty of Medicine, Yamagata University, Yamagata, Japan)
- O-063 Long-term follow up of alternating hemiplegia of childhood: case series including an autopsy case  
Osamu Kawano (Department of Child Neurology, National Center of Neurology and Psychiatry, Tokyo, Japan)
- O-064 Efficacy of genetic analysis in outpatients with epilepsy  
Hirokazu Kurahashi (Department of Pediatrics, School of Medicine, Aichi Medical University, Nagakute, Japan)
- O-065 A case report of late onset pyridoxine-dependent epilepsy diagnosed by urine metabolomics  
Takuzo Marukane (Department of Child Neurology, Okayama University Hospital, Okayama, Japan)
- O-066 A case of West syndrome with AIFM1 mutation  
Kenji Inoue (The Department of Neuropediatrics, Tokyo Metropolitan Neurological Hospital, Tokyo, Japan)
- O-067 Flurothyl-induced seizure revealed higher seizure susceptibility in elder Angelman syndrome mice  
Kiyoshi Egawa (Department of Pediatrics, Hokkaido University Graduate School of Medicine)

### Oral Presentation 14

- Chair: Satoru Takahashi (Department of Pediatrics, Asahikawa Medical University, Asahikawa, Japan)  
Michiko Torio (Department of Pediatrics, Kyushu University Hospital, Fukuoka, Japan)
- O-068 A paroxysmal nonkinesigenic dyskinesia with a variant of the fibroblast growth factor 14 gene  
Kosuke Tsuchida (The Department of Pediatrics, Sapporo Medical University School of Medicine, Sapporo, Japan)
- O-069 CK syndrome with infantile spasms: a case report  
Sho Hagiwara (Department of Pediatrics, Chiba University Graduate School of Medicine, University of Chiba, Chiba, Japan)



- O-070 Stereotyped upper limb movement in MECP2 duplication syndrome  
Tomohiro Wakabayashi (Department of Pediatrics, Sapporo Medical University)
- O-071 A case of DeSanto-Shinawi syndrome with contractures of joints  
Yukiko Harada (Department of Pediatrics, Inariyama Medical and Welfare Center, Chikuma, Japan)
- O-072 Angelman syndrome with mosaic paternal uniparental disomy caused by trisomy rescue  
Masanori Fujimoto (Department of Pediatrics and Neonatology, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan)
- O-073 Pathological gait in patients with Rett syndrome: A three-dimensional gait analysis study  
Takeshi Suzuki (Department of Pediatrics, Nagoya University Graduate School of Medicine, Nagoya, Japan)
- O-074 Pregnancy in the patients with Segawa disease  
Masako Kamihigashi (Segawa Memorial Neurological Clinic for Children, Tokyo, Japan)

### Oral Presentation 15

- Chair: Takahito Inoue (Fukuoka University)  
Tomonari Awaya (Kyoto University, Graduate School of Medicine)
- O-075 A case of 17p13.3 microdeletion with non-progressive subcortical diffuse white matter lesions  
Kiri Koshu (Department of Pediatrics, Jichi Medical University, Tochigi, Japan)
- O-076 A severe case of PUM1-related disease with developmental delay and intractable epilepsy in infancy  
Emi Sato (Department of Pediatrics and Neonatology, Nagoya City University Graduate School of Medical Sciences, Aichi, Japan)
- O-077 Familial periodic paralysis with a rare *KCNJ5* variant that supposed to have incomplete penetrance  
Takuya Hiraide (Department of Biochemistry, Hamamatsu University School of Medicine, Hamamatsu, Japan)
- O-078 Two families of COL12A1 abnormalities presenting with a broader phenotypic spectrum  
Harutaka Saijo (Division of Medical Genetics, Kanagawa Children's Medical Center, Kanagawa, Japan)
- O-079 Approaches to NGLY1 deficiency of a genetic developmental disorder with intellectual disability  
Yasushi Kajii (T-CiRA Discovery, Takeda Pharmaceutical Company Limited, Kanagawa, Japan)
- O-080 Diagnostic support for hypomyelinating leukodystrophies: through the consultation consortium  
Ken Inoue (Dept. Mental Retardation & Birth Defect Research, National Institute of Neuroscience, NCNP, Tokyo, Japan)
- O-081 *POLR1C* variants dysregulate splicing and cause hypomyelinating leukodystrophy  
Hitoshi Kashiki (Department of Pediatrics, Minamata City General Hospital & Medical Center, Minamata, Kumamoto, Japan)

### Oral Presentation 16

- Chair: Aya Narita (Division of Child Neurology, Tottori University Faculty of Medicine, Yonago, Japan)  
Kazuo Kubota (Department of Pediatrics, Gifu University Graduate School of Medicine, Gifu, Japan)

- O-082 Urine metabolome analysis for patients with pediatric neurological disorders  
Tomoyuki Akiyama (Department of Child Neurology, Okayama University, Okayama, Japan)
- O-083 Development of the bile acid intermediates assay for diagnosis and screening of peroxisome diseases  
Hiroki Kawai (Division of Genomics Research, Life Science Research Center, Gifu University, Gifu, Japan)
- O-084 Therapeutic Strategy for organic academia based on metabolism in neuron  
Shirou Matsumoto (Department of Pediatrics, Faculty of Life Sciences, Kumamoto University, Kumamoto, Japan)
- O-085 Assay of urine and cerebrospinal fluid sepiapterin in patients with sepiapterin reductase deficiency  
Yuki Hyodo (Department of Child Neurology, Okayama University Hospital, Okayama, Japan)
- O-086 The efficacy of creatine and ornithine supplementation in a case of GAMT deficiency  
Yohane Miyata (Department of Pediatrics, Kyorin University School of Medicine, Tokyo, Japan)
- O-087 A fatal case of fumaric acid metabolism abnormality in two siblings  
Sadao Nakamura (Department of Pediatrics, University of the Ryukyus Hospital, Okinawa, Japan)
- O-088 Clinical features of Wilson disease patients with neurological symptoms  
Ayumi Hayashi (Department of Pediatrics, Graduate School of Toho University School of Medicine, Tokyo, Japan)

## Oral Presentation 17

- Chair: Shin Nabatame (Department of Pediatrics, Graduate School of Medicine, Osaka University, Suita, Japan)  
Mitsuaki Hosoya (Fukushima Medical University)
- O-089 A boy with subacute sclerosing panencephalitis who had good outcome with interferon-alpha therapy  
Yuri Sonoda (Department of Pediatrics, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan)
- Ø-090 Cancelled
- O-091 Elucidation of the pathology of SSPE using human induced microglia-like cells  
Kousuke Yonemoto (Department of Pediatrics, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan)
- O-092 A case of autosomal recessive spastic ataxia of Charlevoix-Saguenay diagnosed by MRI findings  
Midori Sebe (Department of Pediatrics, Osaka City University Graduate School of Medicine, Osaka, Japan)
- O-093 Infantile Refsum disease; onset due to visual and hearing impairment with PEX1 gene variants  
Naoko Ishihara (Department of Pediatrics, Fujita Health University School of Medicine, Toyoake, Japan)
- O-094 New quantitative method for evaluation of motor functions by Apple Watch  
Junpei Utagawa (United Graduate School of Drug Discovery and Medical Information Sciences, Gifu University, Gifu, Japan)

## Oral Presentation 18

Chair: Shiro Ozasa (Pediatrics, Kumamoto University Hospital)

Soichiro Tanaka (Home care clinic for children Hokkori Sendai)

O-095 The effects of temporary school closing against COVID-19 pandemic on developmental disorder children

Kakurou Aoyagi (Department of Pediatrics, Akebono Medical Welfare Center, Nirasaki, Japan)

O-096 Telemedicine for patients with childhood-onset epilepsy during the COVID-19 pandemic

Kenjiro Kikuchi (Division of Neurology, Saitama Children's Medical Center, Saitama, Japan)

O-097 Questionnaires survey of telemedicine in pediatric neurological clinic

Kyoko Hoshino (Segawa Memorial Neurological Clinic for Children)

O-098 About the COVID-19 measures for severe motor and intellectual disabilities, it is the introduction of the approach in six hospitals in Hyogo

Yoko Kawasaki (Nikoniko House Medical and Welfare Center, Hyogo, Japan)

O-099 Infection control in COVID-19 reduces the incidence of febrile seizures

Daisaku Toyoshima (Department of Neurology, Kobe Children's Hospital, Hyogo, Japan)

## Oral Presentation 19

Chair: Michio Fukumizu (Segawa Memorial Neurological Clinic for Children, Tokyo, Japan)

Tamami Yano (Akita University Graduate School of Medicine/Department of Pediatrics, Akita, Japan)

O-100 The body core temperature in the children with sleep disorder showed higher

Shigemi Kimura (Children's Rehabilitation, Sleep & Development Medical Center, Hyogo Prefectural Rehabilitation Central Hospital, Kobe, Japan)

O-101 Importance of iron store in sleep disorders and neurodevelopmental disorders in infancy

Yasuko Kojima (Segawa Memorial Neurological Clinic for Children, Tokyo, Japan)

O-102 Current status and effects of medication for insomnia in patients with cerebral palsy

Shodo Hirano (Bobath Memorial Hospital, Osaka, Japan)

O-103 Experience 214 cases using ramelteon and comparison of the effectiveness according to the age

Yumekichi Maeda (Department of Pediatrics, University of Fukui, Fukui, Japan)

O-104 Effectiveness of melatonin for neurodevelopmental disorders

Genkichi Izumi (Department of Pediatrics, National Hospital Organization Minami Wakayama Medical Center, Wakayama, Japan)

O-105 Effectiveness of melatonin for 60 cases with sleep problems in neurodevelopmental disorders

Maki Nozaki (Segawa Memorial Neurological Clinic for Children, Tokyo, Japan)

## Oral Presentation 20

Chair: Hideaki Shiraishi (Department of Pediatrics, Hokkaido University Hospital)

Takako Fujita (Department of Pediatrics, School of Medicine, Fukuoka University, Fukuoka, Japan)

O-106 A girl with Late-onset childhood occipital epilepsy complicated by absence seizures: a case report

Yuta Asakura (Department of Pediatrics, Jichi Medical University, Tochigi, Japan)

- O-107 Shuddering attacks in two children that required differentiation from epileptic seizures  
Yuki Ando (Pediatric Department, NTT-East Sapporo Hospital, Hokkaido, Japan)
- O-108 Preliminary study for the application of quantitative EEG analysis using NAT technique to children  
Ryuta Tanaka (Department of Pediatrics, Ibaraki Children's Hospital, Mito, Japan)
- O-109 A fact-finding survey of the recommendation on sedation during examinations such as EEG in Japan  
Seigo Korematsu (The Japanese Society of Child Neurology, Tokyo, Japan)
- O-110 The adverse effect to cognitive function by centrotemporal spikes on EEG  
Yoshiko Iwatani (Department of Child Development, United Graduate School of Child Development, Osaka University)

## Oral Presentation 21

- Chair: Hidetsuna Utunomiya (Department of Radiology, Teikyo University School of Medicine, Tokyo, Japan)  
Jun-ichi Takanashi (Department of Pediatrics, Tokyo Women's Medical University Yachiyo Medical Center, Chiba, Japan)
- O-111 Epileptic focus estimation in children with tuberous sclerosis using EEG-fMRI combined with FDG-PET  
Yuki Maki (Department of Pediatrics, Nagoya University Graduate School of Medicine, Nagoya, Japan)
- O-112 The significance of neuroinflammation PET for the medical care of TSC patients  
Kuriko Shimono (United Graduate School of Child Development, Osaka, Japan)
- O-113 Glutamine and glutamate levels were elevated on MRS in a patient with SPTAN1 encephalopathy  
Kentaro Sano (The Pediatric Department, Tokyo Women's Medical University, Chiba, Japan)
- O-114 Diffusion restriction with preserved blood manganese levels in an infant with liver failure  
Yusa Nagai (National Center for Child Health and Development, Tokyo, Japan)
- O-115 A case with acute myeloid leukemia developing reversible splenic lesion as incidental findings  
Keisuke Urabe (Department of Pediatrics, Osaka Medical College, Osaka, Japan)
- O-116 Magnetic resonance neurography for evaluating childhood peripheral neuropathies  
Shoko Yoshii (Department of Pediatrics, Graduate School of Medicine, Chiba University, Chiba, Japan)
- O-117 Association between long term course of brain MRI and clinical course in MELAS: 3 case reports  
Tomoshiro Ito (Department of Pediatrics, Sapporo city General Hospital, Sapporo, Japan)

## Oral Presentation 22

- Chair: Mitsugu Uematsu (Department of Pediatrics, Tohoku University Hospital)  
Shuichi Shimakawa (Department of Pediatrics, Osaka Medical College Hospital, Osaka, Japan)
- O-118 Immunological study of West syndrome by using Flow Cytometry  
Tomoko Takamatsu (Tokyo Medical University, Tokyo, Japan)

- O-119 A girl presenting with West syndrome after idiopathic thalamic hemorrhage  
Syuji Hashimoto (St. Marianna University School of Medicine, Yokohama City Seibu Hospital, Kanagawa, Japan)
- O-120 Retrospective study of outcomes by etiological classification in West syndrome  
Ken Imai (Department of Pediatric Neurology, Nagano Children's Hospital, Azumino, Japan)
- O-121 Effects of Vigabatrin for spasms in West syndrome  
Mitsumasa Fukuda (Department of Neuropediatrics, Tokyo Metropolitan Neurological Hospital, Tokyo, Japan)
- O-122 Impact of BCG Vaccination on Treatment Choices of West Syndrome: A 25-year retrospective study  
Hikaru Kobayashi (Department of Pediatrics, Yamaguchi University Graduate School of Medicine, Yamaguchi, Japan)

### Oral Presentation 23

- Chair: Toshio Saito (Division of Child Neurology, Department of Neurology, National Hospital Organization Osaka Toneyama Medical Center, Toyonaka, Japan)  
Hiroyuki Awano (Department of Pediatrics, Kobe University Graduate School of Medicine)
- O-123 Effect of Nusinersen to respiratory function in advanced cases of spinal muscular atrophy  
Takuya Horibe (The Hospital of Hyogo College of Medicine, Hyogo, Japan)
- O-124 Evaluation methods for nusinersen efficacy on SMA patients with impaired gross motor function  
Yukako Yae (Department of Pediatrics and Child Health, Kurume University School of Medicine, Kurume, Japan)
- O-125 A case of spinal muscular atrophy treated with Onasemnogene abeparvovec  
Hiroshi Ninomiya (Department of Pediatrics, Gifu Prefectural General Medical Center, Japan)
- O-126 Respiratory status in 3 cases of spinal muscular atrophy type1 after onasemnogene abeparvovec  
Shotaro Kaku (Department of Pediatrics, St. Marianna University School of Medicine, Kanagawa, Japan)
- O-127 A case of thrombotic microangiopathy after Onasemnogene abeparvovec administration for SMA type 1  
Kotaro Yazaki (Department of Pediatrics, Osaka City University Graduate School of Medicine, Osaka, Japan)
- O-128 FIREFISH: 24-month efficacy and safety of risdiplam in infants with Type 1 spinal muscular atrophy  
Yasuhiro Takeshima (Department of Pediatrics, Hyogo College of Medicine, Hyogo, Japan)
- O-129 SUNFISH: 24-month efficacy and safety of risdiplam in patients with Type2 or nonambulant Type3 SMA  
Kayoko Saito (Institute of Medical Genetics Tokyo Women's Medical University, Tokyo, Japan)
- O-130 Parents' attitude toward newborn screening for spinal muscular atrophy  
Tomoko Lee (Hyogo College of Medicine)

## Oral Presentation 24

Chair: Toru Katoh (Okazaki City Hospital)

Tomoki Maeda (Department of Pediatrics, Oita University, Oita, Japan)

- O-131 Application of a neonatal seizure detection algorithm for preterm infants  
Hiroyuki Kidokoro (Department of Pediatrics, Nagoya University Graduate School of Medicine, Nagoya, Japan)
- O-132 Relationship between birth year, gestational age and pathology of preterm cerebral palsy  
Yukihiro Kitai (Department of Pediatric Neurology, Bobath Memorial Hospital)
- O-133 Fidgety movements are associated with early childhood sensory profiles  
Osamu Kobayashi (Department of Pediatrics, Oita University, Oita, Japan)
- O-134 Characteristics of visual cognition of premature infants and neurodevelopmental disorders  
Kinya Hidaka (Deguchi Pediatric Clinic, Nagasaki, Japan)
- O-135 The Association of sensory profile in 1-month-old infants with perinatal factors  
Chiori Kamiya (United Graduate School of Child Development, Osaka University, Osaka, Japan)
- O-136 Cognitive profiles of WISC-IV in very low birth weight children  
Yuki Iai (Department of Pediatrics, Osaka Medical College Hospital, Osaka, Japan)
- O-137 Bilirubin might serve as a natural antioxidant in infants with hypoxic ischemic encephalopathy  
Akihito Takahashi (Department of Pediatrics, Kurashiki Central Hospital, Okayama, Japan)

## Oral Presentation 25

Chair: Takafumi Sakakibara (Department of Pediatrics, Nara Medical University, Nara, Japan)

Takahiro Motoki (Department of Pediatrics, Ehime University Graduate School of Medicine, Toon, Ehime, Japan)

- O-138 Diagnosis of LAMA2 muscular dystrophy in an infant with mild developmental delay  
Hiroaki Ono (Department of Pediatrics, Hiroshima Prefectural Hospital, Hiroshima, Japan)
- O-139 A case of Walker-Warburg syndrome diagnosed by muscle biopsy in ELBW  
Shinichiro Tsurukawa (Department of Pediatrics, National Hospital Organization Maizuru Medical Center, Kyoto, Japan)
- O-140 Cardiac Troponin I: Its Relation with Cardiac Dysfunction in Duchenne and Becker Muscular Dystrophy  
Hiroshi Yamaguchi (Department of Pediatrics, Kobe University Graduate School of Medicine)
- O-141 Clinical characterization of patients with Becker muscular dystrophy diagnosed in childhood  
Yuta Suenaga (Department of Child Neurology, National Center of Neurology and Psychiatry, Tokyo, Japan)
- O-142 Autosomal dominant spinal muscular atrophy in long-term follow up due to BICD2 variant  
Kosuke Yamamoto (Department of Pediatrics and Neonatology, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan)
- O-143 A severe case of congenital muscular dystrophy caused by LMNA mutation  
Yuka Murofushi (Division of Neurology, National Center for Child Health and Development, Tokyo, Japan)

- O-144 A pediatric case with congenital myasthenic syndrome caused by aberrant splicing of RAPSN  
Maki Saito (Department of Neuropediatrics, Nagano Children's Hospital, Nagano, Japan)

### Oral Presentation 26

- Chair: Yuko Motohashi (Department of Child Neurology, National Center of Neurology and Psychiatry)  
Pinfee Chong (Department of Pediatric Neurology, Fukuoka Children's Hospital, Fukuoka, Japan)
- O-145 A case of limb muscular dystrophy 2C/R5 diagnosed by having performed genetic counseling  
Ayaka Ono (Hiroshima-nishi Medical Center, Hiroshima, Japan)
- O-146 Correlation between BNP and NT-proBNP in muscular dystrophy  
Takatoshi Sato (Department of Pediatrics, Tokyo Women's Medical University, School of Medicine, Tokyo, Japan)
- O-147 Nine cases diagnosed with muscular dystrophy from accidentally discovered hyperCKemia  
Takuro Ito (Department of Pediatrics, NTT-east Sapporo Hospital, Sapporo, Japan)
- O-148 Neuromuscular disorders identifiable at 3 years old infants by hypertitineria  
Masafumi Matsuo (Research Center for Locomotion Biology, Kobe Gakuin University, Kobe, Japan)
- O-149 *FKRP* mutations cause congenital muscular dystrophy and limb-girdle muscular dystrophy in Asians  
Hiroyuki Awano (Department of Pediatrics, Kobe University Graduate School of Medicine, Kobe, Japan)
- O-150 Evaluation of essential trace elements in patients with Fukuyama congenital muscle dystrophy  
Kumiko Ishiguro (Department of Pediatrics, Tokyo Women's Medical University, School of Medicine, Tokyo, Japan)
- O-151 Clinical characteristics of early-onset cardiomyopathy with Duchenne Muscular Dystrophy  
Wataru Jinnai (National Center of Neurology and Psychiatry, Tokyo, Japan)
- O-152 Nationwide survey of medical care situations for myotonic dystrophy in Japan  
Minobu Shichiji (Department of Pediatrics Tokyo Women's Medical University, Tokyo, Japan)

### Oral Presentation 27

- Chair: Masahiro Nonaka (Department of Neurosurgery, Kansai Medical University)  
Satoshi Ihara (Division of Neurosurgery, Tokyo Metropolitan Children's Medical Center, Tokyo, Japan)
- O-153 Three cases of internal carotid artery agenesis  
Megumi Shiota (Department of Pediatrics, Tokyo Women's Medical University Yachiyo Medical Center, Yachiyo, Japan)
- O-154 Preoperative risks of cerebral infarction in pediatric moyamoya disease  
Toshiaki Hayashi (Department of Neurosurgery, Miyagi Children's Hospital, Sendai, Japan)
- O-155 Establishment of referral systems for hyperacute ischemic stroke therapy in children  
Keita Kanamori (Department of Neurology, Tokyo Metropolitan Children's Medical Center, Tokyo, Japan)

O-156 Two cases of germ cell tumors with elevated PLAP in cerebrospinal fluid  
Takehiko Inui (Department of Pediatric Neurology, Miyagi Children's Hospital,  
Sendai, Japan)

O-157 A case of arachnoid cyst developing with chronic subdural hematoma  
Kayo Kunisada (The Department of Pediatrics, Seikeikai Hospital)

## Oral Presentation 28

Chair: Syoko Simokawa (Takagi Hospital)

Takayuki Inagaki (Ibaraki Children's Hospital, Ibaraki, Japan)

O-158 Long term follow up of pediatric hydrocephalus more than 2 decades before in Juntendo  
University

Shimpei Matsuda (Department of Pediatrics, Juntendo University School of Medicine,  
Tokyo, Japan)

O-159 Multidisciplinary efforts for epilepsy surgery in a child with autisms and focal cortical  
dysplasia

Kuniko Ida (Shizuoka Institute of Epilepsy and Neurological Disorders, Shizuoka,  
Japan)

O-160 Urgent deep brain stimulation for life-threatening status dystonicus with GNAO1 deficiency

Yumie Tamura (Department of Neuropediatrics, Tokyo Metropolitan Neurological  
Hospital, Tokyo, Japan)

O-161 A case of primary CNS ALK-positive ALCL with photophobia and convulsive seizures

Ayami Yoshikane (Department of Pediatrics, Fujita Health University School of  
Medicine, Toyoake, Japan)

O-162 Surgical treatment for patients of preschool age with hypothalamic hamartoma

Hiroshi Shirozu (Department of Neurosurgery, National Hospital Organization  
Nishiniigata Chuo Hospital, Niigata, Japan)

## Oral Presentation 29

Chair: Tatsuyuki Sokoda (The Department of Pediatrics, Shiga University of Medical Science,  
Shiga, Japan)

Toshiyuki Maeda (Department of Pediatrics Faculty of Medicine Saga University)

O-163 Clinical features of febrile seizures with recurrence during the same fever episode

Chizu Oba (Department of Pediatrics, Hirakata City Hospital, Osaka, Japan)

O-164 The frequency of seizure recurrence in a single febrile episode after the first febrile convulsion

Chihiro Nemoto (Department of Pediatrics Matsudo City General Hospital Children's  
Medical Centre)

O-165 Comparison of cytokines in patients with febrile seizures and febrile illness

Shoichi Tokumoto (Department of Pediatrics, Kobe University Graduate School of  
Medicine, Kobe, Japan)

O-166 Risk of AESD by time of prolonged consciousness disorder in patients with febrile status  
epilepticus

Yusuke Ishida (Department of Neurology, Hyogo Prefectural Kobe Children's Hospital,  
Kobe, Japan)

O-167 Changes of serum sugar and creatinine after seizures in AESD and febrile seizures

Masanori Maeda (Division of Child Neurology, Institute of Neurological Sciences,  
Faculty of Medicine, Tottori University, Tottori, Japan)



- O-168 Incidence of AESD in children with febrile status epilepticus: results of a multicenter registry  
Masahiro Nishiyama (Department of Pediatrics, Kobe University Graduate School of Medicine, Kobe, Japan)

### Oral Presentation 30

- Chair: Atsushi Kamei (Department of Pediatrics, Iwate Medical University School of Medicine)  
Tatsuyuki Ohto (Department of Pediatrics, University of Tsukuba Hospital)
- O-169 Predictors of clinical outcome and disconnection syndrome after corpus callosotomy  
Kenichi Usami (Division of Neurosurgery, National Center for Child Health and Development, Tokyo, Japan)
- O-170 Retrospective study of coagulation dynamics in ACTH therapy  
Yoko Takeda (Nara Medical University, Kashihara, Japan)
- O-171 Clinical features of late-onset spasms  
Takeshi Inoue (Department of Pediatric Neurology, Osaka City General Hospital, Osaka, Japan)
- O-172 A successful case of ACTH therapy for epileptic spasms without hypsarrhythmia  
Kohei Shimada (The Department of Pediatrics, University of the Ryukyus Hospital, Okinawa, Japan)
- O-173 Clinical study of tuberous sclerosis complex treated with everolimus from neonatal and early infancy  
Ichiro Kuki (The Division of Child Neurology, Osaka City General Hospital, Osaka, Japan)

### Oral Presentation 31

- Chair: Naomi Fukuyo (The Department of Pediatrics, Tohoku University School of Medicine, Sendai, Japan)  
Koichi Minami (Department of Pediatrics, Wakayama Medical University, Wakayama, Japan)
- O-174 A case of myasthenia gravis with Graves' disease requiring mechanical ventilation  
Yuichi Tateishi (The Department of Pediatrics, Hiroshima University Hospital, Hiroshima, Japan)
- O-175 A case of uveitis of 15-year-old boy followed by acute disseminated encephalomyelitis  
Tamayo Ishikawa (Omihachiman Community Medical Center, Shiga, Japan)
- O-176 A case of Chorea as the first manifestation of antiphospholipid syndrome  
Kaoruko Nagumo (Department of Pediatrics Tokyo Women's Medical University, School of Medicine, Tokyo, Japan)
- O-177 A 9-year-old boy with multiple sclerosis whose recurrence was suppressed by dimethyl fumarate  
Naoya Saijo (Department of pediatrics, Tohoku University Hospital)
- O-178 Be aware of Guillain-Barre syndrome in Mycoplasma pneumoniae meningoencephalitis  
Erika Yuasa (Department of Pediatrics, Saiseikai Utsunomiya Hospital, Utsunomiya, Japan)

## Oral Presentation 32

Chair: Mitsuru Kashiwagi (The Department of Pediatrics, Hirakata City Hospital, Osaka, Japan)

Suyon Li (Fukuoka Children's Hospital)

- O-179 A case of AESD that complicated acute myocarditis  
Atsushi Shimasaki (Sasebo City General Hospital, Nagasaki, Japan)
- O-180 Reduced impact of viral load of HHV-6 in liquor on severity of AESD due to exanthema subitum  
Ayaka Kasai (Clinical Laboratory, Nagano Children's Hospital, Nagano, Japan)
- O-181 Continuous EEG monitoring around late seizure in AESD  
Naohiro Yamamoto (Epilepsy Center of Pediatrics and Adolescent, Department of pediatric neurology, Osaka City General Hospital, Osaka, Japan)
- O-182 Truncal instability in patients with acute encephalopathy with reduced subcortical diffusion  
Go Kawano (Department of Paediatrics, St Mary's Hospital, Kurume, Japan)
- O-183 DSA patterns under therapeutic hypothermia in acute encephalopathy  
Anna Shiraki (Department of Pediatrics, Nagoya University Graduate School of Medicine, Nagoya, Japan)
- O-184 GDF-15: New Marker Distinguishing HSES from Other Fever-related Convulsive Disorders  
Hiroshi Yamaguchi (Department of Pediatrics, Kobe University Graduate School of Medicine)

## Oral Presentation 33

Chair: Go Kawano (Department of Pediatrics, St. Mary's Hospital)

Ai Hoshino (Department of Developmental Medical Sciences, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan)

- O-185 Why is AFBN easy to merge MERS  
Tomoko Okada (Tokyo Women's Medical University Yachiyo Medical Center, Chiba, Japan)
- O-186 The clinical feature of Adeno virus-associated encephalitis/ encephalopathy  
Mika Nakazawa (Department of Pediatrics, Sanikukai Hospital, Tokyo, Japan)
- O-187 Neurocognitive sequelae after acute encephalitis with refractory, repetitive partial seizures  
Manabu Yoshihashi (Kanagawa Rehabilitation Center, Kanagawa, Japan)
- O-188 Transient central diabetes insipidus in an AERRPS patient  
Yuka Hattori (Department of Pediatrics, Takatsuki General Hospital, Takatsuki, Japan)
- O-189 A case of AERRPS treated with various anti-inflammatory and immune-mediated therapies  
Tsuyoshi Matsuoka (Division of Child Neurology and Child psychiatry, Okinawa Prefectural Nanbu Medical Center and Children's Medical Center)
- O-190 Serum microRNA analysis for acute encephalitis with refractory, repetitive partial seizures  
Ai Hoshino (Department of Developmental Medical Sciences, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan)
- O-191 A case of Acute Necrotizing Encephalopathy 1 with both CPT 2 variation and RANBP2 mutation  
Eri Ohashi (National Center for Child Health and Development, Tokyo, Japan)

### Oral Presentation 34

Chair: Nobuyoshi Mimaki (Kurashiki Medical Center)

Masashi Mizuguchi (Department of Developmental Medical Sciences, Graduate School of Medicine, the University of Tokyo)

O-192 Transition to adult care for children with Tuberous sclerosis complex

Hazuki Nonoyama (Department of Neurology, Saitama Children's Medical Center, Saitama, Japan)

O-193 Infants with afebrile convulsions due to water intoxication caused by maltreatment

Akane Miyazaki (Department of Pediatrics, Nagasaki University Hospital, Nagasaki, Japan)

O-194 Transitional care: three cases of child-onset neurological disease

Takahiro Yamamoto (Department of Pediatrics, Graduate School of Medicine, Gifu University, Gifu, Japan)

O-195 Transition to adult care in the pediatric neurology clinic of Hospital of Tsukuba university

Tatsuyuki Ohto (Department of Pediatrics, University of Tsukuba Hospital)

O-196 About the problem of zinc lack of youth in our hospital

Kenji Ikeda (Chiba Kashiwa-city Koyouen)

### Oral Presentation 35

Chair: Eri Takeshita (Department of Child Neurology, National Center Hospital, National Center of Neurology and Psychiatry)

Sadao Nakamura (Department of Pediatrics, University of the Ryukyus, Okinawa, Japan)

O-197 Siblings with dyskinetic cerebral palsy with compound heterozygous variants of ATP8A2

Yuta Narishige (Neurology, Miyagi Children's Hospital, Miyagi, Japan)

O-198 A case of alternating hemiplegia of childhood whose attacks were decreased by ketogenic diet

Hisashi Tsuru (Department of Pediatrics, Minamikyusyu National Hospital, Aira, Japan)

O-199 Two cases of mitochondrial disease with tremor-like involuntary movements

Tatsuya Fukasawa (Department of Pediatrics, Anjo Kosei Hospital, Aichi, Japan)

O-200 A case of drug induced dystonia: not only sensory tricks but also motor tricks can improve dystonia

Miwa Hagita (Department of Pediatrics, Shimada Ryoiku Center, Tama, Tokyo, Japan)

O-201 A case of a 10-year-old girl with postpump hemichorea/athetosis

Hirofumi Kurata (Department of Pediatrics, National Hospital Organization, Kumamoto Saishun Medical Center, Koshi, Japan)

O-202 A case of belly dancer's dyskinesia in childhood

Masaharu Ohfu (Division of Pediatrics, Nanbu Tokushukai Hospital, Okinawa, Japan)

### Oral Presentation 36

Chair: Taku Omata (Division of Child Neurology, Chiba Children's Hospital, Chiba, Japan)

Hiroyuki Torisu (Fukuoka Dental College)

O-203 Assessment of clinical course in children with anti-MOG antibody-associated disease (MOGAD)

Yoshiyuki Kobayashi (Department of Pediatrics, Hiroshima University Hospital, Hiroshima, Japan)

- O-204 Immune encephalitis in course of HSV encephalitis: clinical characteristics, abs to NMDA-type GluRs  
Yukitoshi Takahashi (National Epilepsy Center, NHO Shizuoka Institute of Epilepsy and Neurological Disorders)
- O-205 Sensory disturbance in patients with MOG antibody-associated disease  
Yuko Ichimiya (Department of Pediatrics, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan)
- O-206 A case of anti-NMDA receptor encephalitis relapsed 10 years after the first acute encephalitis  
Naoki Yamada (Department of Child Neurology, Osaka City General Hospital, Osaka, Japan)
- O-207 A case of suspected autoimmune acute limbic encephalitis with effective early plasma exchange  
Shinya Tomori (Department of Pediatrics, Teikyo University, Tokyo, Japan)
- O-208 A pediatric case of neuromyelitis optica spectrum disorder starting treat of satralizumab  
Naomi Fukuyo (The Department of Pediatrics, Tohoku University School of Medicine, Sendai, Japan)
- O-209 Two cases of N-methyl-D-aspartate receptor encephalitis using rituximab  
Yusuke Sakata (Department of Pediatrics, Yokohama City University Medical Center, Yokohama, Japan)
- O-210 Disease-modifying drug for children with relapsing MOG antibody-associated disease  
Megumi Nukui (The Department of Pediatric Neurology, Osaka City General Hospital, Osaka, Japan)

## Poster Presentation 1

- P-001 A family with intellectual and language impairment: a 2p14 microdeletion disrupting ACTR2 and RAB1A  
Kenshiro Tabata (Department of Child Neurology, National Center Hospital, National Center of Neurology and Psychiatry, Tokyo, Japan)
- P-002 Developmental defects of dopaminergic neurons derived from children with Down syndrome  
Xiao Sun (Kyushu University, Fukuoka, Japan)
- P-003 Contribution of IP3R2-mediated astrocytic activation in epileptogenesis after status epilepticus  
Fumikazu Sano (Department of Neuropharmacology, Interdisciplinary Graduate School of Medicine, University of Yamanashi, Yamanashi, Japan)
- P-004 Tbc1d24 forms cytophidia, target of new therapeutical approach for epileptic encephalopathy  
Takao Morimune (The Department of Pediatrics, Shiga University of Medical Science, Shiga, Japan)
- P-005 Prognosis of adolescent idiopathic generalized epilepsy patients after tapering antiepileptic drugs  
Takao Komatsubara (Department of Pediatrics, NHO Niigata Hospital, Niigata, Japan)
- P-006 Spontaneous remission of seizures of Dravet syndrome and West syndrome following acute infections  
Taichi Imaizumi (Department of Pediatrics, St. Marianna Medical University, Kawasaki, Japan)
- P-007 Clinical and EEG findings of patients with juvenile myoclonic epilepsy followed up before the onset  
Akiko Hiraiwa (Department of Child Neurology, NHO Nishiniigata Chuo Hospital, Niigata, Japan)

- P-008 Efficacy of surgery for atonic seizures in child patients with refractory epilepsy  
Taisuke Yamauchi (Department of Pediatric Neurology, National Center of Neurology and Psychiatry, Tokyo, Japan)
- P-009 Validity of prognostic score of 5 children cases of anti-NMDA receptor encephalitis  
Yasuhiro Kawai (Department of Neurology, Kanagawa Children's Medical Center, Yokohama, Japan)
- P-010 Examination of lifestyle which influence sleep of infants  
Emi Murata (United Graduate School of Child Development, Osaka University, Molecular Research Center for Children's Mental Development, Osaka, Japan)
- P-011 Transition of epilepsy through the hospital conference for transition  
Naoya Higuchi (National Hospital Organization Ureshino Medical Center, Saga, Japan)

## Poster Presentation 2

- P-012 Pathological analysis of female Xq22 deletion with iPS cells  
Keiko Yamamoto (Department of Transfusion Medicine and Cell Processing, Tokyo Women's Medical University, Tokyo, Japan)
- P-013 Impaired neurite development and dopamine regulation in DN<sub>s</sub> differentiated from SHED<sub>s</sub> of DS patient  
Xiao Sun (Kyushu University, Fukuoka, Japan)
- P-014 2 cases of Potocki-Lupski syndrome showing poor feeding at neonatal period  
Pinfee Chong (Department of Pediatric Neurology, Fukuoka Children's Hospital, Fukuoka, Japan)

## Poster Presentation 3

- P-015 A case of Bannayan-Riley-Ruvalcaba syndrome diagnosed by macrocephaly and intellectual disability  
Shinichiro Morichi (Department of Pediatrics and Adolescent Medicine, Tokyo Medical University)
- P-016 KAT6B missense variants result in distinct congenital anomalies: A case report  
Naoto Nishimura (Division of Medical Genetics, Kanagawa Children's Medical Center, Yokohama, Japan)
- P-017 Two boys with NKX2-1 related disorders  
Satoshi Kajimoto (The Department of Pediatrics, Kitano Hospital, Osaka, Japan)
- P-018 Phenotype of Japanese epilepsy and intellectual disabled patient with novel DYRK1A-variant  
Tetsuya Okazaki (Division of Clinical Genetics, Tottori University Hospital, Yonago, Japan)
- P-019 A case of developmental delay and apraxia with ADAMTS9 mutation  
Hiroko Matsushita (Department of Pediatrics, Kyoto Kuramaguchi Medical Center, Kyoto, Japan)
- P-020 Two adult patients with COL4A1-related disorder  
Harumi Saijo (Tokyo Metropolitan Higashiyamato Medical Center for Developmental/Multiple Disabilities, Tokyo, Japan)
- P-021 Infantile spasms and early progressive PKD with TSC2/PKD1 contiguous gene deletion syndrome  
Yoshie Matsubara (Department of Pediatric Neurology, Fukuoka Children Hospital, Fukuoka, Japan)

- P-022 A case of tubulinopathy with TUBA1A gene mutation  
Miho Adachi (Department of Pediatrics, Graduate School of Medicine, Gifu University, Gifu, Japan)
- P-023 A novel NAA15 variant in a boy with severe intellectual disability and autism spectrum disorder  
Kei Ohashi (Department of Pediatrics and Neonatology, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan)
- P-024 A 10-year-old girl with D-2-Hydroxyglutaric aciduria 1  
Takako Matsumoto (Amagasaki General Medical Center, Hyogo, Japan)
- P-025 SLC1A2 mutation with Angelman syndrome-like symptoms; a case report  
Chihiro Oba (Department of Pediatrics, Chiba University Graduate School of Medicine, Chiba, Japan)
- P-026 A novel mutation in TUBB4A gene cause postnatal microcephaly and pachygyria  
Wakaba Endo (Department of Pediatric Neurology, Miyagi Children's Hospital, Sendai, Japan)
- P-027 A case of TSC in infancy with hypertriglyceridemia and hypogammaglobulinemia caused by everolimus  
Azusa Koji (Department of Pediatrics, Saga University, Saga, Japan)
- P-028 Clinical study on ATR-X syndrome in Japan, preparing for clinical trial with aminolevulinic acid  
Takahito Wada (Department of Medical Ethics and Medical Genetics, Kyoto University Graduate School of Medicine, Kyoto, Japan)
- P-029 Genetic diagnosis of low frequent mosaic mutation cases with tuberous sclerosis complex  
Yo Niida (Center for Clinical Genomics, Kanazawa Medical University Hospital, Uchinada, Japan)
- P-030 HECW2-related disorder in four Japanese patients  
Tomoe Yanagishita (Department of Pediatrics, Tokyo Womens Medical University, Tokyo, Japan)
- P-031 A girl with PPP2R5D mutation presenting with a progressive cystic white matter lesion  
Shinsuke Katou (The Department of Pediatrics, Sapporo Medical University, Sapporo, Japan)
- P-032 G alpha O regulates intracellular calcium-dependent signals  
Ryoji Taira (Department of Pediatrics, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan)
- P-033 A boy with Pitt-Hopkins syndrome suspected of having self-limited infantile epilepsy  
Kyoko Takano (Center for Medical Genetics, Shinshu University Hospital, Matsumoto, Japan)
- P-034 A case of Pitt Hopkins syndrome with epileptic encephalopathy  
Yurika Uematu (Department of Pediatrics, Tohoku University Hospital)
- P-035 Lafora disease with a novel homozygous mutation of EPM2A  
Hiroshi Matsumoto (Department of Pediatrics, National Defense Medical College, Tokorozawa, Japan)
- P-036 A boy with a Rett syndrome-like phenotype due to STXBP1 gene variant  
Tomonori Suzuki (Department of Pediatrics, Tokyo Medical and Dental University, Tokyo, Japan)
- P-037 High-dose pyridoxine treatment for inherited glycosylphosphatidylinositol deficiency  
Junpei Tanigawa (Department of Pediatrics, Osaka University Graduate School of Medicine, Osaka, Japan)

- P-038 Clinical course of Kabuki syndrome  
Koji Tominaga (Department of Pediatrics, Graduate School of Medicine, Osaka University, Suita, Japan)
- P-039 Two cases of Schinzel - Giedion syndrome with polymicrogyria  
Eijun Seki (Department of Neurology, Kanagawa Children Medical Center, Kanagawa, Japan)
- P-040 Neonatal-onset SLC25A4-related mitochondrial DNA depletion syndrome: a case report  
Tomoko Kashiki (Department of Pediatrics, Kumamoto University Hospital, Kumamoto, Japan)
- P-041 A child with mitochondrial deletion who developed diabetes mellitus as an initial symptom  
Koko Suzuki (Tokyo Women's Medical University Yachiyo Medical Center, Chiba, Japan)
- P-042 Peripheral nerves are involved in hypomyelinating leukodystrophy-3 caused by AIMP1 variant  
Ikumi Hori (Department of Pediatrics and Neonatology, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan)
- P-043 A novel KIF1A mutation in a patient with irritability and muscle stiffness  
Hirokazu Takeuchi (The Jikei University School of medicine Department of Pediatrics)
- P-044 Blended phenotype due to a GNB1 missense variant and a deletion in DMD  
Daisuke Ieda (Department of Pediatrics and Neonatology, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan)
- P-045 A case of relapsing encephalopathy with cerebellar ataxia of *ATP1A3* gene abnormality diagnosed  
Sachiko Nakakubo (Pediatrics, University of Hokkaido, Hokkaido, Japan)
- P-046 A girl with progressive bilateral upper extremity tremor with a de novo TRIM8 mutation  
Yoshitsugu Oikawa (Department of Pediatrics, Tohoku University School of Medicine, Sendai, Japan)

#### Poster Presentation 4

- P-047 A case of Aicardi syndrome received a genetic exploration  
Yu Katata (Department of Pediatrics, Tohoku University School of Medicine, Sendai, Miyagi, Japan)
- P-048 Autopsy findings of Vici syndrome with refractory diarrhea  
Yuya Sato (Tokyo Woman's Medical University Hospital Pediatrics, Tokyo, Japan)
- P-049 Prolonged survival in hydranencephaly  
Tamami Yano (Akita University Graduate School of Medicine, Department of Pediatrics, Akita, Japan)
- P-050 Factors related to TSC-associated neuro psychiatric disorders (TAND)  
Akemi Sato (United Graduate School of Child Development, Osaka University, Osaka, Japan)
- P-051 A boy with Coffin-Siris syndrome with repeated ketone hypoglycemia  
Nobuko Moriyama (Department of Pediatrics, Hitachi, Ltd., Hitachinaka General Hospital, Hitachinaka, Japan)
- P-052 5 cases report of Sturge-Weber Syndrome  
Mizuki Kobayashi (Department of Pediatrics, Jichi Medical University, Tochigi, Japan)
- P-053 Research of the amygdala in Gorlin syndrome model mice  
Hideki Uchikawa (Department of Pediatrics, Graduate School of Medicine, Chiba University, Chiba, Japan)

- P-054 A case of megalencephaly complicated multiple benign tumors  
Tomoko Sakamoto (Akita Prefectural Center on Development and Disability, Akita, Japan)
- P-055 Late-onset cerebral arteriopathy in a patient with incontinentia pigmenti  
Sotaro Kanai (Division of Child Neurology, Institute of Neurological Sciences, Faculty of Medicine, Tottori University, Yonago, Japan)
- P-056 A case of PHACE syndrome with moyamoya vasculopathy  
Yuka Nishizawa (Shiga University of Medical Science, Shiga, Japan)
- P-057 Characteristics of patients with tuberous sclerosis complex during the transition  
Atsushi Sato (Department of Pediatrics, The University of Tokyo Hospital, Tokyo, Japan)

### Poster Presentation 5

- P-058 Clinical manifestations and genetic diagnosis of children with developmental delay  
Michiko Kawai (National Center for Child Health and Development)
- P-059 Two cases treated with Lisdexamfetamine Mesilate for attention deficit hyperactivity disorder  
Kaoru Moriyama (Department of Pediatrics, Nagasaki Welfare Center, Nagasaki, Japan)
- P-060 Intervention for neurodevelopmental disorder considering sensory problem using sensory profile  
Toshino Motojima (The Department of Pediatrics, Motojima General Hospital)
- P-061 Translational application of 7Tesla MRI for clinical developmental neurology: an initial experience  
Kenichi Yamada (Center for Integrated Human Brain Science, Brain Research Institute, University of Niigata, Niigata, Japan)

### Poster Presentation 6

- P-062 Intervention in patients with autism spectrum disorder and eating disorders  
Michiko Makino (Department of Pediatrics, Tokyo Children's Rehabilitation Hospital, Tokyo, Japan)
- P-063 Three cases of vitamin deficiency in children with autism spectrum disorder and unbalanced diet  
Michiko Torio (Department of Pediatrics, Kyushu University Hospital, Fukuoka, Japan)
- P-064 A patient with autistic spectrum disorder initially followed as restless legs syndrome  
Miki Inutsuka (Department of Pediatrics, Sasebo Chuo Hospital, Sasebo, Japan)

### Poster Presentation 7

- P-065 Transition of medical care for childhood daycare users in our center  
Yoshiko Hirano (YOTSUGI Medical Center for the Severely Disabled, Tokyo, Japan)
- P-066 Experience of inpatient treatment for unbalanced diet of autism spectrum disorder  
Takeshi Miyamoto (Department of Pediatrics, Hamamatsu Medical Center)
- P-067 Supporting parents of children with neurodevelopmental disorders  
Daishi Inoue (Nagasaki Prefectural Center of the Handicapped Children)
- P-068 Impact of educational support on social adaptation of children with neurodevelopmental disorders  
Akiko Araki (The Department of Pediatrics Sapporo Child Development General Support Center, Sapporo, Japan)



- P-069 Introduction of evaluation hospitalization for children with developmental disabilities  
Mitsuhiro Matsuo (Department of Pediatrics, Nagasaki Welfare Center, Nagasaki, Japan)
- P-070 The quality of life of children with neurodevelopmental disorders during COVID-19 emergency  
Riyo Ueda (Department of Developmental Disorders, National Institute of Mental Health, National Center of Neurology and Psychiatry, Tokyo, Japan)
- P-071 Effect of neurocognitive training for children with ADHD  
Manami Honda (Micri Kids Clinic, Tokyo, Japan)
- P-072 Inspection of Strength and Difficulty Questionnaire for 4-5 years old children in Kitakyushu  
Reina Ogata (National Hospital Organization Kokura Medical Center, Fukuoka, Japan)
- P-073 Developmental consultation with parents through a videoconferencing system  
Masaharu Moroto (Fukuchiyama City Hospital)
- P-074 Establishment and the later current situation of the Medical type specific short-term admission  
Haruka Okada (Micri Kids Clinic, Tokyo, Japan)
- P-075 Survey of disability types in which school teachers hope specialized medical knowledge  
Kosuke Nakano (Faculty of Education, Ehime University)
- P-076 5 years' experience of death and dying with pediatric neurological disease in our department  
Masahiko Tanabe (Division of Neurology, Kanagawa Children's Medical Center, Yokohama, Japan)
- P-077 A survey on pediatric home medical care in Yamagata Prefecture  
Kazuyuki Nakamura (Department of Pediatrics, Faculty of Medicine, Yamagata University, Yamagata, Japan)
- P-078 The percentage of children and youth with medical complexity participating fully in school programs  
Akiko Nagae (Biwakogakuen Kusatsu Medical and Welfare Center)
- P-079 Home-visit medical care by developmental rehabilitation center's staff  
Yukiko Nakamura (Department of Pediatrics, Shimada Ryoiku Center, Tokyo, Japan)
- P-080 A boy who can't go to school improved by cooperative support with Social Welfare Council  
Hiroshi Ozawa (Department of Child Neurology, Shimada Ryoiku Center Hachioji)
- P-081 Transition to adult clinical departments of patients with severe motor and intellectual disabilities  
Mika Hayakawa (Department of Pediatrics, Tokyo Metropolitan Kita Medical and Rehabilitation Center for The Disabled, Tokyo, Japan)

## Poster Presentation 8

- P-082 A wrist-worn wearable device in children with severe motor and intellectual disabilities  
Itaru Hayakawa (Division of Neurology, Department of Medical Subspecialties, National Center for Child Health and Development, Tokyo, Japan)
- P-083 A case of dumping syndrome treated by alpha glucosidase inhibitor  
Daisuke Tajima (Department of Pediatrics, Karatsu Red Cross Hospital, Saga, Japan)
- P-084 Endoscopic lithotripsy for upper urinary stones in two severely disabled adolescents with urosepsis  
Megumi Tsuji (Institution for Children with Profound Multiple Disabilities, Kanagawa Children's Medical Center, Yokohama, Japan)
- P-085 A study of Polyethylene Glycol for severe motor and intellectual disabilities with constipation  
Kiyoko Ishii (Fukushima National Hospital, Fukushima, Japan)

## Poster Presentation 9

- P-086 A 14-year-old boy with the final diagnosis of recurrent painful ophthalmoplegic neuropathy  
Yoshitaka Oyama (Children's Medical Center, Yokohama City University Medical Center, Kanagawa, Japan)
- P-087 A case of cerebrospinal fluid hypovolemia with followed up as an orthostatic dysregulation  
Yuko Ohashi (Imusu Fujimi General Hospital, Saitama, Japan)

## Poster Presentation 10

- P-088 Deletion Xq27.2q28 in a girl with nonconvulsive status epilepticus (NCSE)  
Hiroyasu Nakagawa (Department of Pediatrics, Asanogawa General Hospital, Kanazawa, Japan)
- P-089 A case of SLC6A1-related disorders  
Shinjiro Akaboshi (Department of Pediatrics, National Hospital Organization Tottori Medical Center, Tottori, Japan)
- P-090 A case of PNPT1 mutation with refractory infantile spasms  
Takuya Hayashida (Department of Pediatrics, Nagasaki University, Nagasaki, Japan)
- P-091 A case of West syndrome with novel GABRB3 mutation with unique brain MRI findings  
Ayako Yamamoto (Department of Pediatrics, Yokohama City University Medical Center, Yokohama, Japan)
- P-092 A case of arthrogryposis multiplex congenita and intractable epilepsy caused by SCN1A mutation  
Yukimune Okubo (Department of Pediatric Neurology, Miyagi Children Hospital, Sendai, Japan)
- P-093 A case of developmental and epileptic encephalopathy with SCN8A mutation  
Hiroto Hongo (Neurology, Hyogo Prefectural Kobe Children's Hospital, Hyogo, Japan)
- P-094 An 8-year-old boy with developmental epileptic encephalopathy due to *SLC6A1* variant  
Fumio Ichinose (Department of Pediatrics, Faculty of Medicine, Saga University, Saga, Japan)
- P-095 A case of KCNT1 variant:migratingpartial seizure of infancy with aortopulmonary collateral arteries  
Kaori Kodama (Department of Pediatric Neurology, Miyagi Children's Hospital, Sendai, Japan)
- P-096 Various non-epileptic seizures in a boy with epilepsy and MECP2 mutation  
Sara Konishi (Pediatric Department, St. Luke's International Hospital, Tokyo, Japan)
- P-097 Genotype-phenotype association study in PCDH19-related epilepsy  
Mami Shibata (Central Research Institute for the Molecular Pathomechanisms of Epilepsy, Fukuoka University, Fukuoka, Japan)
- P-098 SCN8A-related epileptic encephalopathy with ictal asystole requiring cardiac pacemaker implantation  
Yutaka Negishi (Department of Pediatrics, Gifu Prefectural Tajimi Hospital, Tajimi, Japan)
- P-099 A case of temporal epilepsy with ictal vomiting as the main symptom  
Masataka Fukuoka (Pediatrics, National Epilepsy Center, Shizuoka Institute of Epilepsy and Neurological Disorder, Shizuoka, Japan)
- P-100 A case of early infantile epileptic encephalopathy with PACS2 heterozygous variant  
Mitsuru Ikeno (Department of Pediatrics Juntendo University Faculty of Medicine, Tokyo, Japan)

- P-101 A case of difficult differential diagnosis between epileptic seizures during sleep and parasomnia  
Shinsuke Maruyama (Department of Pediatrics, Graduate School of Medical and Dental Sciences, Kagoshima University, Kagoshima, Japan)

## Poster Presentation 11

- P-102 Two cases of Williams syndrome with drug-resistant epilepsy successfully controlled by perampanel  
Atsushi Imamura (Department of Pediatrics Gifu Prefectural General Medical Center Gifu Japan)
- P-103 The efficacy and safety of perampanel therapy in children with focal epilepsy as an add-on trial  
Hideo Enoki (Comprehensive Epilepsy Center, Seirei Hamamatsu General Hospital, Hamamatsu, Japan)
- P-104 Prolonged hallucination in a 15-year-old epilepsy patient using levetiracetam  
Hiroataka Motoi (Department of Pediatrics, Yokohama City University Medical Center, Yokohama, Japan)
- P-105 Efficacy of perampanel for refractory epilepsy  
Takako Fujita (Department of Pediatrics, School of Medicine, Fukuoka University, Fukuoka, Japan)
- P-106 Efficacy of Vitamin B6 therapy of an epileptic case with Dravet syndrome-like phenotypes  
Masahiro Ishii (The Department of Pediatrics, University of Occupational Environmental Health, Kitakyushu, Japan)
- P-107 Long-term safety of adjunctive Perampanel in pediatric patients with epilepsy in Phase III Study 311  
Hiroo Omatsu (National Epilepsy Center, NHO Shizuoka Institute of Epilepsy and Neurological Disorders, Shizuoka, Japan)
- P-108 Three cases of Late onset epileptic spasms  
Kohei Haraguchi (Department of Pediatrics, Nagasaki University Hospital, Nagasaki, Japan)
- P-109 Medical treatment of epileptic spasms other than West syndrome  
Kenji Sugai (Division of Pediatrics, Soleil Kawasaki Medical Center for the Handicapped, Kanagawa, Japan)
- P-110 A patient with gelastic seizures related to a hypothalamic hamartoma treated with perampanel  
Tomohiko Nakata (Department of Pediatrics, Nagoya University Graduate School of Medicine, Nagoya, Japan)
- P-111 Clinical Course of Three Cases with PCDH19 Related Epilepsy  
Kazuya Itomi (Aichi Children's Health and Medical Center)
- P-112 A hospital-based study on serum perampanel concentrations between children and adults with epilepsy  
Ryo Goshima (Osaka Women's and Children's Hospital, Osaka, Japan)
- P-113 Language function was preserved after a resection of epileptogenic zone of the left temporal lobe  
Keisuke Oki (Department of Pediatric Language, Osaka City General Hospital, Osaka, Japan)
- P-114 A case of intractable epilepsy improved with steroid therapy and alteration of anti-GluR antibodies  
Ryosuke Urabe (Department of Pediatrics, Teikyo University, School of Medicine, Tokyo, Japan)

P-115 ACTH therapy in combination with isoniazid for two cases of West syndrome with recent BCG vaccine

Yuki Inami (Department of Pediatrics, Yokohama Medical Center, National Hospital Organization, Kanagawa, Japan)

## Poster Presentation 12

P-116 Post-marketing surveillance of nusinersen, an SMA treatment, in Japan: interim results to May 2020

Takafumi Wataya (Biogen Japan Ltd., Tokyo, Japan)

P-117 Nusinersen effect in infants initiating treatment in a presymptomatic stage of SMA: NURTURE results

Takafumi Wataya (Biogen Japan Ltd, Chuo-ku, Tokyo, Japan)

P-118 A case of PCWH with a novel missense mutation in the SOX10 gene

Yasuhiro Kimoto (The Department of Pediatrics, School of Medicine, University of Miyazaki, Miyazaki, Japan)

P-119 Integrated analysis of incidence of serious adverse events in nusinersen-treated later-onset SMA

Kayoko Saito (Institute of Medical Genetics, Tokyo Women's Medical University, Tokyo, Japan)

P-120 Study design and Part A data of the randomized phase 2/3 DEVOTE study of high-dose nusinersen in SMA

Ai Saotome (Biogen Japan Ltd, Chuo-ku, Tokyo, Japan)

P-121 Two cases of spinal muscular atrophy treated by onasemnogene abeparvovec

Hiromi Aoyama (Neurology, Chiba Children's Hospital, Chiba, Japan)

P-122 Cross-sectional analysis of symptoms in patients with spinal muscular atrophy

Toshio Saito (Division of Child Neurology, Department of Neurology, National Hospital Organization Osaka Toneyama Medical Center, Toyonaka, Japan)

P-123 A case of recurrent painful ophthalmoplegic neuropathy in multiple cranial nerves

Noriko Nakayama (Department of Pediatrics, University of the Ryukyus, Okinawa, Japan)

## Poster Presentation 13

P-124 Relationship between handwriting dynamics using pen tablet and tendencies of ADHD and ASD

Akiko Megumi (Graduate School of Social and Cultural Sciences, Kumamoto University, Kumamoto, Japan)

P-125 Research on smartphone and tablet usage habits of infants and young schoolchildren

Yuri Ozawa (Department of Child Neurology, Shimada Ryoiku Center Hachioji, Tokyo, Japan)

P-126 Visual perception evaluated by WAVES in 1st grade students with very low birth weight

Miho Fukui (Institute for Developmental Brain Research, Osaka Medical College, Osaka, Japan)

P-127 Formation and promotion of an Asian joint usage/research center of developmental disorders

Masaya Tachibana (United Graduate School of Child Development, Osaka University, Suita, Japan)

P-128 Clinical and interventional features of preschooler with developmental disorders in our hospital

Kyoko Kitsuki (Saga Medical and Welfare Center for the Challenged, Saga, Japan)

- P-129 Expression analyses of MED13L, a responsible gene for neurodevelopmental disorders, in mouse brain  
Kohichi Nagata (Institute for Developmental Research, Aichi Developmental Disability Center, Kasugai, Japan)
- P-130 Sleep related problems in preschool children with features of developmental disorders  
Kuniaki Iyoda (Fukuyama Support Center of Development and Care for Children)
- P-131 Influence of developmental disorders and psychosis on child abuse and accidental trauma  
Tomoko Tando (Yamanashi Prefectural Central Hospital)

## Poster Presentation 14

- P-132 Two cases of Jacobsen syndrome with epilepsy  
Tomoko Matsubayashi (The Department of Neurology, Shizuoka Children's Hospital, Shizuoka, Japan)
- P-133 A case of Rett syndrome transformed to epilepsy with continuous spikes and waves during sleep  
Chizuru Ikeda (Kumamoto Saishun Medical Center, Kumamoto, Japan)
- P-134 A case of Dravet syndrome with acute encephalopathy showing PLEDs like findings in EEG  
Takato Akiba (Department of Pediatrics, Juntendo University Faculty of Medicine, Tokyo, Japan)
- P-135 The characteristics of epilepsy in infants with very low birth weight  
Toshimichi Fukao (Department of Pediatrics, Faculty of Medicine, University of Yamanashi, Yamanashi, Japan)
- P-136 A case of migrating partial seizures in infancy developed early in neonatal period  
Hiroko Hirai (Department of Pediatrics, Faculty of Medicine, University of Toyama, Toyama, Japan)
- P-137 A boy diagnosed with ictal bradycardia after implantation of a cardiac pacemaker  
Fumihiko Fujii (Pediatrics, Kyushu University, Fukuoka, Japan)
- P-138 Investigation of prognostic factors at the time of initial seizure for Panayiotopoulos syndrome  
Shinobu Fukumura (The Department of Pediatrics, Sapporo Medical University School of Medicine, Sapporo, Japan)
- P-139 The efficacy and side effect of Levetiracetam to autism spectrum disorder  
Yosuke Hosokawa (Aichi Developmental Disability Center Central Hospital, Aichi prefecture, Japan)
- P-140 Renal tubular damage and carnitine deficiency in patients with epilepsy and valproate  
Fumi Sawamura (Department of Pediatrics, Nagoya University Graduate School of Medicine, Nagoya, Japan)
- P-141 A case of DEND syndrome in which sulfonyleurea resulted in the elimination of the seizure  
Toshikazu Hayashiya (Department of Pediatrics, Shiga University of Medical Science, Shiga, Japan)
- P-142 2cases with hyperinsulinemic hypoglycemia differentiating between epilepsy  
Akito Watanabe (Pediatrics, Toyonaka Municipal Hospital)
- P-143 Breastfeeding and risk of febrile seizures in infants: The Japan Environment and Children's Study  
Naomi Mitsuda (Kochi University, Kochi, Japan)
- P-144 Certification system of epilepsy coordinator in national designated institutions for epilepsy care  
Eiji Nakagawa (Department of Child Neurology, National Center Hospital, National Center of Neurology and Psychiatry, Tokyo, Japan)

- P-145 Various issues surrounding transitional patients with epilepsy during the perinatal period  
Mondo Kuroda (Department of Pediatrics, Kanazawa University Hospital, Ishikawa, Japan)
- P-146 Active intervention in EEG abnormalities and subsequent functional improvement: A child with SMID  
Kayo Tokeji (Department of Rehabilitation Medicine, University of Tsukuba Hospital, Ibaraki, Japan)

### Poster Presentation 15

- P-147 Coefficient of variance of VLF (CVVLF) in patients with severe motor and intellectual disabilities  
Kiyotaka Suzuki (Toyohashi Medical Center)
- P-148 Machine learning can detect paroxysmal discharge on EEG in patients with CECTS  
Noboru Yoshida (Department of Pediatrics, Juntendo University Nerima Hospital)
- P-149 Postictal generalized EEG suppression in SCN2A related developmental and epileptic encephalopathy  
Yuki Ueda (Department of Pediatrics, Hokkaido University Hospital)
- P-150 A retrospective study of continuous EEG monitoring at Saitama Children's Medical Center  
Anzu Noda (Division of General Pediatrics, Saitama Children's Medical Center, Saitama, Japan)

### Poster Presentation 16

- P-151 Acute regression during adolescence in Down syndrome: a case report  
Yuki Minamisawa (Odawara Municipal Hospital, Kanagawa, Japan)
- P-152 A case of unilateral cerebellar hypoplasia with motor developmental delay and torticollis  
Mio Watanabe (Department of Neurology, Gunma Children's Medical Center, Gunma, Japan)
- P-153 Safety and efficacy of sedation in pediatric brain magnetic resonance imaging  
Tamaki Ikegawa (The Department of Pediatrics, Children's Medical Center, Fujisawa City Hospital, Kanagawa, Japan)

### Poster Presentation 17

- P-154 A case of MELAS presenting with thalamic aphasia  
Yurie Sakata (Department of Pediatrics, Saga University, Saga, Japan)
- P-155 Siblings associated with Leigh encephalopathy due to AIFM1 mutation  
Miyuki Toyono (The Department of Pediatrics, Akita Prefectural Center on Development and Disability, Akita, Japan)
- P-156 A case of hereditary spastic paraplegia due to arginase-1 deficiency  
Moemi Hojo (Nishiniigata Chuo Hospital, Niigata, Japan)
- P-157 A case of type 2 Gaucher's disease complicated with laryngeal spasm  
Kyoko Hazama (Department of Pediatrics Gunma University Graduate School of Medicine, Gunma, Japan)
- P-158 Efficacy of taurine and lacosamide in a patient with epilepsia partialis continua due to MELAS  
Mitsuo Motobayashi (Department of Neurology, Nagano Children's Hospital, Azumino, Japan)
- P-159 Metachromatic Leukodystrophy presenting with splenial reduced diffusion  
Zenpei Kano (Department of Pediatric Neurology, Fukuoka Children's Hospital, Fukuoka, Japan)

- P-160 Two cases of SSADH deficiency presenting with different clinical symptoms  
Tomoko Mizuno (Department of Pediatrics, Tokyo Medical and Dental University, Tokyo, Japan)
- P-161 A patient suspected of childhood cerebral ALD with variant in ABCD1 shared between relatives  
Kazuo Kubota (Department of Pediatrics, Gifu University Graduate School of Medicine, Gifu, Japan)
- P-162 Two cases of Krabbe disease treated with cord blood transplantation in early infancy  
Tatsuya Yamamoto (The Department of Pediatrics, Hirosaki University, Hirosaki, Japan)
- P-163 A case of Leigh syndrome with long spinal cord lesions  
Kiyohiro Kim (Pediatric Neurology Department of Hyogo Prefectural Amagasaki General Medical Center, Hyogo, Japan)

### Poster Presentation 18

- P-164 A child case of CIDP associated with anti-neurofascin 155 antibody  
Koji Takahashi (The Department of Pediatrics, Tsuchiura Kyodo General Hospital, Ibaraki, Japan)
- P-165 Onasemnogene abeparvovec for spinal muscular atrophy type 2 patient  
Hideaki Mashimo (The Department of Pediatric Neurology, Tokyo Metropolitan Neurological Hospital, Tokyo, Japan)
- P-166 Tulobuterol patch may work on muscle weakness for congenital myasthenic syndrome with DOK7 mutations  
Kaori Miyana (Japanese Redcross Medical center, Tokyo, Japan)
- P-167 A case of girl with oculomotor nerve palsy positive for anti-glycolipid antibody  
Tomofumi Fukuda (The Department of Pediatrics, University of Occupational and Environmental Health, Kitakyushu, Japan)

### Poster Presentation 19

- P-168 Efficacy of Viltolarsen on Duchenne type muscular dystrophy with exon 52 deletion of dystrophin gene  
Yukio Sawaishi (Akita Prefectural Center on Development and Disability, Akita, Japan)
- P-169 Medical record review of the long-term course of severe myotubular myopathy  
Taiju Hayashi (Department of Child Neurology, National Center Hospital, National Center of Neurology and Psychiatry, Kodaira, Tokyo, Japan)
- P-170 Publication of Practical guideline for Dystrophia Myotonica  
Tsuyoshi Matsumura (Department of Neurology, National Hospital Organization Osaka Toneyama Medical Center, Osaka, Japan)
- P-171 Short term clinical course in a patient with SMA type 1 and BMD treated with OA after Nusinersen  
Hidetoshi Ishigaki (Department of Pediatrics Hamamatsu University School of Medicine, Shizuoka, Japan)
- P-172 2 cases of children with Duchenne muscular dystrophy treated with viltolarsen  
Asami Watanabe (The Department of Pediatrics, Nagasaki University Hospital, Nagasaki, Japan)

- P-173 A case of tubular aggregate myopathy with miosis and hyposplenism caused by STIM1 mutation  
Naoko Shiba (Pediatrics, Shinshu University, Matsumoto, Japan)
- P-174 A case of Schwartz-Jampel syndrome presenting hyper-CKemia  
Kazuyuki Yotsumata (Kagoshima City Hospital, Pediatrics, Kagoshima, Japan)
- P-175 A symptomatic female MTM1 mutation carrier with right-dominant asymmetric muscle weakness  
Yuki Kihara (Pediatric department, Tokyo Women's Medical University, Tokyo, Japan)
- P-176 Neuralgic amyotrophy in a boy treated with steroids  
Takenori Natsume (Department of Pediatrics, Shinshu University School of Medicine, Matsumoto, Japan)
- P-177 Clinical characteristics of patients with Becker dystrophy followed-up from the childhood  
Akiko Wakisaka (Department of Pediatrics, National Hospital Organization Iou National Hospital)
- P-178 Clinical course of six patients with childhood onset myasthenia gravis in Osaka Red Cross Hospital  
Haruko Sakamoto (Department of Pediatrics, Osaka Red Cross Hospital, Osaka, Japan)
- P-179 Efficacies of hybrid assisted limb for the pediatric patients with neuromuscular disorders  
Yuji Inaba (Division of Neurology, Nagano Children's Hospital, Azumino, Japan)

## Poster Presentation 20

- P-180 One year old boy with a pseudocyst in the abdominal triggered by abdominal pain and distention  
Yusei Baba (Pediatric Department of Kagoshima City Hospital, Kagoshima, Japan)
- P-181 The medical manual for the handicapped with DVT in our facility  
Takanori Ezoe (Tokyo Metropolitan Medical Center for the Handicapped and Disabled, Tokyo Japan)
- P-182 A case report of Incomplete Susac syndrome  
Yusuke Ito (Department of Pediatrics, Hamamatsu University of Medicine, Hamamatsu, Japan)
- P-183 A case of a cerebellar tumor revealed after the onset of the involuntary head movement  
Tatsuyuki Sokoda (The Department of Pediatrics, Shiga University of Medical Science, Shiga, Japan)
- P-184 Four cases of late-onset Vitamin K deficiency intracranial bleeding due to liver diseases  
Akiko Sasaki (National Center for Child Health and Development, Tokyo, Japan)

## Poster Presentation 21

- P-185 A girl with repetitive encephalopathy associated with a de novo RANBP2 variant  
Takayoshi Kyoda (The Department of Pediatrics, Showa University Northern Yokohama Hospital, Yokohama, Japan)
- P-186 A case of AERRPS successfully treated with lidocaine and lacosamide  
Yukiko Ihara (Department of Pediatrics School of Medicine, Fukuoka University, Fukuoka, Japan)
- P-187 A case of severe encephalopathy with diffuse vasogenic cerebral edema related to Kawasaki disease  
Kenichi Maeda (Department of Child Neurology, Fukuoka Children's Hospital, Fukuoka, Japan)



- P-188 Neurodevelopmental outcome after parechovirus a-3 encephalitis with severe white matter injury  
Kazumasa Kitamura (Maizuru Medical Center, Kyoto, Japan)
- P-189 Acute cerebellitis with substantia nigra lesion and parkinsonism.  
Eri Ogawa (Department of Pediatric Neurology, Tokyo Metropolitan Children's Medical Center, Tokyo, Japan)
- P-190 A case of AESD caused by S.pneumonia bacteremia  
Hisako Yamamoto (Divison of Pediatrics, Kawasaki Municipal Tama Hospital, Kanagawa, Japan)
- P-191 An infant with Toxic Shock Syndrome and Acute Encephalopathy caused by Minor Burn Injury  
Haruka Takami (Jikei University, Tokyo, Japan)
- P-192 Acute encephalopathy triggered by RS virus infection  
Sho Takeda (Pediatrics School of Medicine, Juntendo University, Tokyo, Japan)
- P-193 Two cases of an oral acyclovir therapy after initial treatment of herpes simplex encephalitis  
Mitsuji Moriya (The Sendai City Hospital, Sendai, Japan)
- P-194 The number of acute encephalopathy/encephalitis cases between 2018-2019 Japanese academic year  
Hiroyuki Yamamoto (Department of Pediatrics, Nagoya University School of Medicine, Nagoya, Japan)
- P-195 A case of AESD with acute brain swelling after late subclinical seizure  
Mao Odaka (Department of Pediatrics, Yokohama City University Medical Center, Yokohama, Japan)

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- P-196 A case with anti-NMDA receptor focal encephalitis  
Motomasa Suzuki (Aichi Children's Health and Medical Center, Department of Pediatric Neurology, Obu, Japan)
- P-197 A case of Autoimmune Encephalitis that was GluR-positive with Gait Disturbance and Hearing loss  
Nobuyoshi Sugiyama (The Department of Pediatrics, Isehara Kyodo Hospital, Kanagawa, Japan)
- P-198 Usefulness of plasma exchange in a MOG antibody-associated disease boy with visual symptoms  
Shunsuke Takeuchi (Department of Pediatrics, Tokushima University Hospital, Tokushima, Japan)
- P-199 A case of multiphasic ADEM with discontinuation of post-steroid therapy after negative MOG antibody  
Ryo Fujimoto (Division of Child Neurology, Chiba Children's Hospital, Chiba, Japan)
- P-200 Changes in titers of MOG-IgG-associated disease in children  
Daisuke Tanaka (Department of Pediatrics, Jichi Medical University, Tochigi, Japan)
- P-201 A case of Anti-NMDA receptor encephalitis with difficulties in treatment  
Emi Iwabuchi (Ibaraki Chirdren's Hospital, Ibaraki, Japan)
- P-202 An atypical case of Rasmussen encephalitis presenting with delayed-onset seizures  
Yoshihiro Taura (Department of Pediatrics, Kyoto Prefectural University of Medicine, Kyoto, Japan)

- P-203 A case of recurrent meningoencephalitis with prolonged headache, related to anti-MOG antibodies  
Ryuhei Yoshida (Department of Pediatrics, Hyogo Prefectural Amagasaki General Medical Center, Hyogo, Japan)
- P-204 A two-year-old girl with anti-NMDA receptor encephalitis  
Ayuko Usami (The Tazuke Koufukai Medical Research Institute Kitano Hospital, Osaka, Japan)
- P-205 Constructional apraxia due to frontal lobe demyelinating lesion  
Takayuki Mori (Department of Pediatrics, the University of Tokyo Hospital, Tokyo, Japan)

### Poster Presentation 23

- P-206 Developmental prognosis in early childhood of the symptomatic patients with congenital CMV infection  
Satoshi Takenaka (Department of Pediatrics, The University of Tokyo Hospital, Tokyo, Japan)
- P-207 A case of anti-MOG antibody-related disease that required differentiation from brain tumor  
Shimpei Matsuda (Department of Pediatrics, Juntendo University School of Medicine, Tokyo, Japan)
- P-208 Efficacy of natalizumab in a 12-year-old girl with refractory relapsing-remitting multiple sclerosis  
Konomi Shimoda (Department of Pediatrics, University of Tokyo, Tokyo, Japan)
- P-209 Progressive hearing loss triggered to diagnose Sjogren's syndrome in two children  
Yuko Okawa (Department of Pediatrics, Oita University, Oita, Japan)
- P-210 Anti-LRP4 antibody-positive myasthenia gravis in patient with systemic lupus erythematosus.  
Yu Kakimoto (Department of Pediatrics, The University of Tokyo Hospital, Tokyo, Japan)
- P-211 A case of bacterial meningitis secondary to dermal sinus tract with persistent CSF pleocytosis  
Keisuke Watanabe (The Department of Pediatrics, Akita University Hospital, Akita, Japan)
- P-212 Cases of maintenance therapy with mycophenolate mofetil for neuromyelitis optica spectrum disorder  
Mutsumi Sato (Department of Pediatrics, Odawara City Hospital, Odawara, Japan)
- P-213 A case of acute disseminated encephalomyelitis that was followed as conversion disorder  
Tetsuharu Kamioka (Department of Pediatrics, IMS Fujimi General Hospital, Saitama, Japan)
- P-214 Neurological outcome of acute flaccid myelitis at 3 years after onset  
Pinfee Chong (Fukuoka Children's Hospital, Fukuoka, Japan)
- P-215 A case of repetitive myasthenia gravis subsequent to neuromyelitis optica  
Mayumi Matsufuji (The Department of Pediatrics, Kagoshima City Hospital, Kagoshima, Japan)
- P-216 Cases requested for anti-MOG antibody test in the past 5 years  
Saori Kawakami (Department of Pediatric Neurology, Fukuoka Children's Hospital, Fukuoka, Japan)
- P-217 Case of Thymectomy in a pediatric patient with Myasthenia Gravis  
Chihiro Yonee (The Department of Pediatrics, University of Kagoshima, Kagoshima, Japan)

## Poster Presentation 24

- P-218 An interactive app “NenneNavi” for improving children’s sleep: A report on its social implementation  
Arika Yoshizaki (Molecular Research Center for Children’s Mental Development, United Graduate School of Child Development, Osaka University, Osaka, Japan)
- P-219 Association between Media Exposure, Sleepless and abnormal Eyesight among Kindergarten Children  
Hiroko Komatsu (Pediatric of Medicine, University of Kurume, Fukuoka, Japan)
- P-220 Research of children’s sleep in Qinghai, China using Japanese Sleep Questionnaire of Preschoolers  
Ping Su (United Graduate School of Child Development, Osaka University, Osaka, Japan)
- P-221 Comparison of ramelteon and melatonin for sleeping of children with neurodevelopmental disorder  
Takuya Kosaka (Department of Pediatrics, University of Fukui, Fukui, Japan)
- P-222 Effectiveness and safety of ramelteon in 5 cases with sleep terror  
Yu Tsuyusaki (Division of Neurology, Kanagawa Children’s Medical Center, Yokohama, Japan)
- P-223 Study of sleep disorders in Rett syndrome using MeCP2 deficient mice  
Kotaro Yuge (Cognitive and Molecular Research Institute of Brain Disease, Kurume University School of Medicine, Fukuoka, Japan)
- P-224 Efficacy of Melatonin in pediatric neurological disorders at our hospital  
Satoshi Mizutani (Osaka Women’s and Children’s Hospital, Osaka, Japan)

## Poster Presentation 25

- P-225 A case of autistic spectrum disorder with rapidly progressive anemia caused by scurvy  
Rei Urushibata (Department of Pediatrics, Hamamatsu University School of Medicine, Hamamatsu, Japan)
- P-226 Omega-3 fatty acid improved clinical state of IFALD in an adult patient with short bowel syndrome  
Eiko Takeshita (Yanagawa Institute for Developmental Disavilities, Yanagawa, Japan)

## Poster Presentation 26

- P-227 Survey of anxieties of the care-givers under covid-19 pandemic in Japan  
Nagahisa Takahashi (National Rehabilitation Center for Children with Disabilities, Tokyo, Japan)
- P-228 The impact of COVID-19 first wave on our epilepsy treatment  
Shinya Koizumi (The Department of Pediatrics, The Fraternity Memorial Hospital, Tokyo, Japan)
- P-229 Seasonal incidence change of febrile seizures in Sendai, before and after COVID 19 pandemic  
Taro Kitamura (Division of Pediatrics, Sendai City Hospital, Sendai, Japan)
- P-230 Total support for children with home care during COVID-19 pandemic periods in Yamanashi  
Kousuke Nakamura (NHO Kofu Hospital, Kofu, Yamanashi, Japan)
- P-231 Preventive control for COVID-19 in our facilities  
Yuko Tomonoh (The Department of Pediatrics, Kitakyushu Rehabilitation Center for Children with Disabilities, Kitakyushu, Japan)

P-232 Survey on children requiring special health care needs during COVID-19 pandemic

Asuka Nagahama (Sakanoichi Hospital, Oita, Japan)

P-233 Status of our pediatric neurology outpatient clinic in the early days of the COVID-19 epidemic

Ayuko Igarashi (Pediatrics, Juntendo University, Tokyo, Japan)

P-234 Survey to families of the exercise-class for babies with Down syndrome in the pandemic of COVID-19

Minako Ide (Department of Pediatrics, Hyogo Prefectural Amagasaki General Medical Center, Hyogo, Japan)