The 61st Annual Meeting of the Japanese Society of Child Neurology

May 31st June 2nd, 2019
Nagoya Congress Center

PROGRAM
Presidential Lecture
Chair: Masayuki Sasaki (Department of Child Neurology, National Center of Neurology and Psychiatry)
Diversity in child neurology: toward the future of child neurology
Shinji Saitoh (Department of Pediatrics and Neonatology, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan.)

Overseas Invited Lecture
Chair: Eiji Nanba (Research Center for Bioscience and Technology, Tottori University)
Targeted Treatments for Fragile X Syndrome
Randi J. Hagerman (University of California Davis Medical Center, USA)

Memorial Lecture of Dr. Yukio Fukuyama
Chair: Makiko Osawa (Tokyo Women’s Medical University)
A Journey in Search of Excellence in Clinical Service and Research as A Child Neurologist in Taiwan
Chao-Ching Huang (Department of Pediatrics, College of Medicine, National Cheng Kung University, Taipei Medical University, President of Taiwan Child Neurology Society)

Educational Lecture 1
Chair: Kazuhiro Haginoya (Department of Pediatric Neurology, Miyagi Children’s Hospital)
Developmental examination of early infantile period ~ Focusing on the general movements assessment ~
Tomoki Maeda (Department of Pediatrics, Oita University, Oita, Japan)

Educational Lecture 2
Chair: Ryutaro Kira (Department of Pediatric Neurology, Fukuoka Children’s Hospital)
Recent topics of neurovirulence of HHV-6
Tetsushi Yoshikawa (Department of Pediatrics, Fujita Health University School of Medicine, Toyoake, Aichi, Japan)

Educational Lecture 3
Chair: Masaya Kubota (National Center for Child Health and Development)
Physical examination of childhood neurological disorders
Masayuki Sasaki (The Department of Child Neurology, National Center of Neurology and Psychiatry, Kodaira, Tokyo, Japan)

Educational Lecture 4
Chair: Akira Ohtake (Department of Pediatrics, Center for Intractable Diseases, Saitama Medical University)
New strategy of treatment for neurometabolic diseases
Norio Sakai (Division of Health Science, Osaka University Graduate School of Medicine, Osaka, Japan)

Educational Lecture 5
Chair: Yushiro Yamashita (Department of Pediatrics & Child Health, Kurume University School of Medicine)
Development of circadian clock in mammals
Kazuhiro Yagita (Department of Physiology and Systems Bioscience, Kyoto Prefectural University of Medicine, Kyoto, Japan)
Educational Lecture 6
Chair: Tsuyoshi Matsumura (Toneyama National Hospital)
Therapeutic strategies targeting toxic RNA in myotonic dystrophy
Masayuki Nakamori (Department of Neurology, Osaka University Graduate School of Medicine, Osaka, Japan)

Educational Lecture 7
Chair: Katsunori Fujii (Department of Pediatrics, Chiba University Graduate School of Medicine)
Drug development by a physician scientist
Sonoko Misawa (Department of Neurology, Chiba University Hospital)

Educational Lecture 8
Chair: Kazuhiro Muramatsu (Department of Pediatrics, Jichi Medical University)
In vivo imaging for brain pathology
Hiroaki Wake (Division of System Neuroscience, Kobe University Graduate School of Medicine)

Educational Lecture 9
Chair: Hideaki Shiraishi (Department of Pediatrics, Hokkaido University Hospital Epilepsy Center)
Initial Management of Epilepsy during Childhood: Recent changes and desirable attitudes
Shinichiro Hamano (Division of Neurology, Saitama Children’s Medical Center, Saitama, Japan)

Educational Lecture 10
Chair: Yukio Sawaishi (Akita Prefectural Center on Development and Disability)
Have you ever wished for the death of your own child?
- 27 months of my battling days with my severely disabled son -
Yuriko Sasa (Network to Advance Open Society for Children with Disabilities, Akita, Japan)

Educational Lecture 11
Chair: Akira Oka (Department of Pediatrics, Graduate School of Medicine, The University of Tokyo)
Basic knowledge of diagnosis and treatment for mitochondrial disorders
Masakazu Mimaki (Department of Pediatrics, Teikyo University School of Medicine, Tokyo, Japan)

Educational Lecture 12
Chair: Sumimasa Yamashita (Kanagawa Children’s Medical Center)
ATR-X syndrome
Takahito Wada (Department of Medical Ethics and Medical Genetics, Kyoto University Graduate School of Medicine, Kyoto, Japan)

Educational Lecture 13
Chair: Hirofumi Komaki (Department of Clinical Research Promotion, National Center Hospital, National Center of Neurology and Psychiatry)
Attractive wonders in the skeletal muscle research
Yukiko Hayashi (Department of Pathophysiology, Tokyo Medical University, Tokyo, Japan)
Educational Lecture 14
Chair: Taishi Miyachi (Nagoya West District Care Center for Disabled Children)
Neurodevelopmental Disorders: Diagnosis and Treatment
Eiji Nakagawa (Department of Child Neurology, National Center Hospital, National Center of Neurology and Psychiatry)

Educational Lecture 15
Chair: Hideo Enoki (Department of Child Neurology, Comprehensive Epilepsy Center, Seirei Hamamatsu General Hospital)
Appropriate timing of surgical treatent for drug resistant epilepsy in child
Kensuke Kawai (Department of Neurosurgery, Jichi Medical University)

Special Symposium 1
Chair: Yoshihiro Maegaki (Department of Child Neurology, Faculty of Medicine, Tottori University), Hiroyuki Yamamoto (Department of Pediatrics, Nagoya University Graduate School of Medicine)
1) Case registration and perspective in the Tokai Pediatrics Neurology Society
   Yutaka Negishi (Department of Pediatrics, Gifu Prefectural Tajimi Hospital, Tajimi, Gifu, Japan.)
2) The Baby Cooling Project of Japan to Implement Evidence-Based Neonatal Cooling
   Osuke Iwata (Nagoya City University, Nagoya, Japan)
3) Treatment of encephalopathy with EEG monitoring
   Hiroyuki Yamamoto (The Department of Pediatrics, Nagoya University Graduate School of Medicine)
4) Metabolite analysis in acute encephalitis/encephalopathy
   Tomoyuki Akiyama (Department of Child Neurology, Okayama University, Okayama, Japan)
5) Systematic Management, from the viewpoint of pediatric intensive care
   Atsushi Numaguchi¹, Jun Natsume², Hiroyuki Kidokoro²
   (¹Dept. of Emergency & Critical Care Medicine, Nagoya University Hospital, Nagoya, Japan, ²Department of Pediatrics, Nagoya University, 2.Nagoya, Japan)
6) Treatment for acute encephalopathy with biphasic seizures and late reduced diffusion based on a hypothetical pathogenesis
   Muneaki Matsuo¹, Toshiyuki Maeda¹, Fumio Ichinose¹, Daisuke Tajima², Keiko Uda³, Takuji Nakamura³
   (¹Department of Pediatrics, Faculty of Medicine, Saga University, Saga, Japan, ²Karatsu Red Cross Hospital, Karatsu, Japan, 3.Saga-Ken Medical Center Koseikan, Saga, Japan, 4.NHO Ureshino Medical Center, Ureshino, Japan)

Special Symposium 2
Chair: Shinji Saitoh (Department of Pediatrics and Neonatology, Nagoya City University Graduate School of Medical Sciences), Mitsuhiro Kato (Department of Pediatrics, Showa University School of Medicine)
1) Mechanisms regulating corpus callosum formation, ventricular size, megalencephaly and brain cancer
   Linda Richards (The University of Queensland, Queensland Brain Institute, Brisbane, Australia)
2) Classification and diagnosis of brain malformations
   Ganeshwaran H. Mochida¹,²,³
   (¹Boston Children's Hospital, USA, ²Massachusetts General Hospital, USA, ³Harvard Medical School, USA)
3) Neuroimaging in midbrain-hindbrain (MHB) malformation
   Jun-Ichi Takanashi (Department of Pediatrics, Tokyo Women's Medical University Yachiyo Medical Center, Yachiyo, Japan)
4) Perspective of treatment of brain malformation based on its etiology
Symposium 1

Chair: Kenjiro Kosaki (Center for Medical Genetics Keio University), Nobuhiko Okamoto (Department of Medical Genetics, Osaka Women’s and Children’s Hospital)

Rare and Undiagnosed Diseases in Pediatric Neurology
1) From diagnosis to pathological analysis in patients with rare disease
   Kohji Kato1,2, Shinji Saitoh1
   (1.Department of Pediatrics and Neonatology, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan, 2.Department of Genetics, Research Institute of Environmental Medicine (RIeM), Nagoya University, Nagoya, Japan)

2) IRUD project from a standpoint of IRUD Clinical Center
   Takeshi Yoshida1, Atsushi Yokoyama1, Naoko Nakagawa2, Takahito Wada2,3, Shinji Kosugi2,3
   (1.Department of Pediatrics, Kyoto University Graduate School of Medicine, Kyoto, Japan, 2.Clinical Genetics Unit, Kyoto University Hospital, Kyoto, Japan, 3.Department of Medical Ethics and Medical Genetics, Kyoto University Graduate School of Medicine, Kyoto, Japan)

3) Importance of Dysmorphology in Pediatric Neurology
   Nobuhiko Okamoto (Department of Medical Genetics, Osaka Women’s and Children’s Hospital)

4) IRUD Beyond, exploitation of model organisms for functional assessment of candidate variants for rare and undiagnosed diseases
   Toshiyuki Takano1, Rikako Sanuki1, Kohei Matsubara1, Kimihide Ibaraki2, Katsunori Satou1, Kazuharu Oiwa3
   (1.Department of Drosophila Genomics and Genetic Resources, Kyoto Institute of Technology, Kyoto, Japan, 2.Graduate School of Science and Technology, Kyoto Institute of Technology, Kyoto, Japan, 3.School of Science and Technology, Kyoto Institute of Technology, Kyoto, Japan)

5) Perspective on identification of new diseases and development of therapies
   Toshiki Takenouchi (Keio University School of Medicine School of Medicine)

Symposium 2

Chair: Ryo Tanabe (Chiba Rehabilitation Center), Kaeko Ogura (National Center for Child Health and Development)

Social independence for children with disability and their families
1) conscience of ignorance is same as malice
   Toru Shibata, Kenichi Fukiage, Motoaki Matsuyama, Kyouko Okuno (Department of Pediatric Orthopedic Surgery, Bobath Memorial Hospital, Osaka, Japan)

2) They critical line of care for the family included adults with intellectual disability
   Tomoko Tanaka (The Department of Social Welfare, Bukkyo University, Kyoto, Japan)

3) The present conditions of the nursing spot and future problem
   Noriko Nishino (Social Welfare corporation Aitoku Fukushikai, Osaka Developmental Rehabilitation Center, Asashioen, Osaka, Japan)

4) Support in the community through the life stage to children with disabilities and the parents
   Emiko Kusano (Faculty of Nursing, Osaka Medical College, Osaka, Japan)

5) A RCT study to develop a psychoeducational program for parents of children with disability
   Kaeko Ogura (National Center for Child Health and Development, Tokyo, Japan)

Symposium 3

Chair: Toshio Saito (Division of Child Neurology, Department of Neurology, National Hospital Organization Toneyama National Hospital), Katsuhisa Ogata (National Hospital Organization Higashisaitama National Hospital)
Medical transition of children with hereditary neuromuscular diseases - For better life of patients
1) Toward an ideal transition system for patients with hereditary neuromuscular diseases from pediatric to adult care
   Keiko Ishigaki (Department of Pediatrics, Tokyo Women’s Medical University, School of Medicine, Tokyo, Japan)

2) Medical transition at the neuromuscular specialized center, from the standpoint of pediatric neurologist
   Akiko Wakisaka (Department of Pediatrics, National Organization Iou Hospital, Kanazawa, Japan)

3) Medical Transition at the neuromuscular specialized center, from the standpoint of neurologist
   Hajime Arahata (Department Of Neurology, National Hospital Organization Omuta Hospital)

4) Current situation of measures against transitional care
   Akinobu Taniguchi (Intractable/Rare Disease Control Division, Health Service Bureau, Ministry of Health, Labour and Welfare)

5) Home medical care support for the transition into adulthood
   Toshiyuki Kumagai (Nagoya, Japan)

6) Transitions from the standpoint of rehabilitation
   Hiroshi Yamamoto (Department of Rehabilitation, Hyogo-Chuo National Hospital, Hyogo, Japan)

Symposium 4
Chair: Tomoyuki Akiyama (Department of Child Neurology, Okayama University), Tetsuhiro Fukuyama (Department of neonatology and intervention, Shinshu University School of Medicine)

Childhood epilepsy: an update 2019
1) Tuberous sclerosis complex and focal cortical dysplasia
   Ichiro Kuki1,2 (1. The Department of Child Neurology, Osaka City General Hospital, Osaka, Japan, 2. The Epilepsy Medical Center for Children and Adolescents, Osaka City General Hospital, Osaka, Japan)

2) Idiopathic epilepsy
   Hiroko Ikeda (NHO Shizuoka Institute of Epilepsy and Neurological Disorders)

3) Epilepsy associated with inherited metabolic disorders
   Yu Tsuyusaki (Division of Neurology, Kanagawa Children’s Medical Center, Yokohama, Japan)

4) Update on genetic epilepsies in childhood
   Norimichi Higurashi1,2 (1. Department of Pediatrics, Jikei University School of Medicine, Tokyo, Japan, 2. Central Research Institute for the Pathomechanisms of Epilepsy, Fukuoka University, Fukuoka, Japan)

5) Autoimmune epilepsy
   Tetsuhiro Fukuyama (Department of neonatology and intervention, Shinshu University School of Medicine, Matsumoto, Japan)

Symposium 5
Chair: Touya Ohashi (The Jikei University), Takanori Yamagata (Department of Pediatrics, Jichi Medical University)

Front line of gene therapy for the brain diseases
1) AAV vectors: Basics and Current Applications in Gene Therapy
   Shinichi Muramatsu1,2 (1. Division of Neurology, Jichi Medical University, Shimotsuke, Japan, 2. Center for Gene & Cell Therapy, The Institute of Medical Science, The University of Tokyo, Tokyo, Japan)

2) Gene therapy for aromatic L-amino acid decarboxylase deficiency and glucose transporter 1 deficiency syndrome.
   Hitoshi Osaka1, Sachie Nakamura1, Karin Kojima1, Shin-Ichi Muramatsu2, Takanori
Symposium 6

Chair: Osuke Iwata (Department of Pediatrics and Neonatology, Nagoya City University Graduate School of Medical Sciences), Sachio Takashima (Yanagawa Institute for Developmental Disabilities/International University of Health and Welfare)

Why are experimentally neuroprotective treatments useless in clinical practice?
1) What can we learn from the failure to show the neuroprotective efficacy of Xe in Toby-Xe study despite promising experimental animal studies?
   Go Kawano (Pediatrics, St Mary's Hospital)

2) How can neuroscience researchers contribute to the development of new therapy for perinatal brain injury?
   Masato Sawada (Department of Developmental and Regenerative Biology, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan)

3) Challenges in the clinical application of fetal pathophysiology
   Tadashi Matsuda, Takushi Hanita, Shimpei Watanabe, Shinichi Sato
   (1. The Department of Pediatrics, Tohoku University School of Medicine, Sendai, Japan, 2. Division of Pediatrics, Hachinohe City Hospital, Hachinohe, JAPAN)

4) Toward investigator-initiated clinical trial from basic research in academia
   Yoshiaki Sato, Shinobu Shimizu
   (1. Division of Neonatology, Center for Maternal-Neonatal Care, Nagoya University Hospital, Nagoya, Japan, 2. Department of Advanced Medicine, Nagoya University Hospital, Nagoya, Japan)

5) What should we do for the future progress of neuroscience and clinical application of brain protection therapy?
   Ichiro Morioka (Department of Pediatrics and Child Health, Nihon University School of Medicine, Tokyo, Japan)

Symposium 7

Chair: Atsuo Nezu (Yokohama Medical and Welfare Centre, Konan), Nobuhiro Morita (Chief Division of Neurosurgery Tokyo Metropolitan Children’s Medical Center)

Comprehensive treatment of spasticity in children: Update
1) Indication and limitation of selective dorsal root rhizotomy for spasticity
   Jun Kurihara (Department of Neurosurgery, Saitama Children’s Medical Center, Saitama, Japan)

2) The role of pediatric orthopedic surgeon in multidisciplinary team approach for pediatric cerebral palsy
   Takeshi Kinjo, Teruyo Oishi, Taketsugu Gaja, Atsuo Aguni, Takashi Asato
   (1. Department of Orthopedic Surgery of Okinawa Prefectural Nanbu Medical Center and Childrens Medical Center, Okinawa, Japan, 2. Department of rehabilitation medicine of Okinawa Prefectural Nanbu Medical Center and Childrens Medical Center, Okinawa, Japan)

3) Intrathecal Baclofen Therapy in Children with Movement Disorders
Masaya Kubota (Division of Neurology, NCCHD, Tokyo, Japan)
4) Pharmacological treatment of spasticity in patients with cerebral palsy
Kazuhiro Haginoya (Department of Pediatric Neurology, Miyagi Children’s Hospital)
5) From physical medicine & rehabilitation: clinical assessment of spasticity and rehabilitation
Akinobu Nemoto (The Department of Medical Informatics, Yokohama City University, Yokohama, Japan)

Symposium 8
Chair: Kiyoshi Araki ((Department of Pediatrics, Tokyo Saiseikai Central Hospital), Akira Nishimura (Japanese Red Cross Kyoto Daiichi Hospital)
Diagnosis and treatment of pediatric migraine
1) Diagnosis of pediatric migraine
Naoki Ando (Josai Kids Clinic)
2) Acute treatment of pediatric migraine
Kentaro Kuwabara (Department of Pediatrics, Hiroshima City Hiroshima Citizens Hospital, Hiroshima, Japan)
3) Prophylactic treatment of pediatric migraine
Gaku Yamanaka (Department of Pediatrics, Tokyo Medical University)

Symposium 9
Chair: Akira Oka (Department of Pediatrics, Graduate School of Medicine, The University of Tokyo), Eiji Kitazumi (National Rehabilitation Center for Children with Disabilities)
1) Survey of cerebral palsy in Tottori, Tokushima, and Tochigi between 2009 and 2013
Yasuki Kobayashi (Department of Public Health, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan)
2) Incidence of cerebral palsy in Tottori prefecture
Yoshihiro Maegaki, Hiroyuki Yamada (Division of Child Neurology, Department of Brain and Neuroscience, Tottori University, Yonago, Japan)
3) Incidence of cerebral palsy in Tokushima
Yoshihiro Tohda, Shouji Kagami (Department of Pediatrics Graduate School of Medical Sciences Tokushima University, Tokushima, Japan)
4) Survey on the condition of cerebral palsy children in Tochigi
Hideo Shimoizumi1,2, Hirokazu Yamagishi1,3
5) The current status of care for children with severe cerebral palsy
Rei Goto (Graduate School of Business Administration, Keio University, Yokohama, Japan)

Symposium 10
Chair: Yoshihiro Maegaki (Department of Child Neurology, Faculty of Medicine, Tottori University), Nobuyuki Yotani (Division of Palliative Medicine, National Center for Child Health and Development)
Palliative care for children with neurological disorder - Management of respiratory problems
1) Management of respiratory disorders in childhood neurological disorders
Shin Okazaki (Osaka city general hospital, Osaka, Japan)
2) Ethical issues regarding respiratory support for adult patients with neurodegenerative disorders
Takayoshi Shimohata (Department of Neurology, Gifu University Graduate School of Medicine, Gifu, Japan)
3) Summary of ethical issues regarding respiratory support for children with severe neurological conditions
Momoko Sasazuki1,2
Symposium 11

Chair: Katsunori Fujii (Department of Pediatrics, Chiba University Graduate School of Medicine),
Toshiyuki Miyashita (Department of Molecular Genetics, Kitasato University School of Medicine)

1) Human iPS cells and genome editing
   Katsunori Fujii (Department of Pediatrics, Chiba University Graduate School of Medicine)

2) Innovative technology accelerates disease understanding; 'new' perspectives on 'old' Down syndrome
   Yasuji Kitabatake (Department of Pediatrics, Osaka University Graduate School of Medicine, Osaka, Japan)

3) Somatic cell reprogramming from a viewpoint of cellular metabolism
   Masamitsu Sone (Department of Regenerative Medicine, Chiba University Graduate School of Medicine)

4) Investigation of pathogenesis of NBCCS using iPSCs and gene editing technologies
   Toshiyuki Miyashita (Department of Molecular Genetics, Kitasato University School of Medicine, Sagamihara, Japan)

Symposium 12

Chair: Taishi Miyachi (Nagoya West District Care Center for Disabled Children),
Kei Ohashi (Department of Neonatology and Pediatrics, Nagoya City University Graduate School of Medical Sciences)

1) Diagnosis of cases with “hyperactivity” as the main complaint and support for attention deficit hyperactivity children
   Tomokatsu Yamazaki1,2
   1.HAMAMATSU City Child Psychiatric Clinic, Hamamatsu, Japan, 2.Department of Pediatrics, The Jikei University School of Medicine, Tokyo, Japan)

2) Differential diagnosis of child tantrums and medical support for autism spectrum disorder
   Toru Yoshikawa (Department of Child Psychiatry, Aichi Developmental Disability Center Central Hospital, Kasugai, Japan)

3) Essence of Medical Treatment for children with Learning Disorders
   Tatsuya Koeda (Department of Psychosocial Medicine, National Center for Child Health and Development, Tokyo, Japan)

4) Social resources for children with developmental disorders
   Tomoko Asai (Nagoya Support Center for Persons with Developmental Disorders, Nagoya, Japan)

Symposium 13

Chair: Satoko Kumada (Department of Neuropediatrics, Tokyo Metropolitan Neurological Hospital),
Yoshikazu Ugawa (Department of Neuro-regeneration, Fukushima Medical University)

Physiological and clinical approach to abnormal involuntary movements

1) Neuronal activities of animal models reveal pathophysiology of movement disorders
   Satomi Chikken, Atsushi Nambu
   (Division of System Neurophysiology, National Institute for Physiological Sciences, Okazaki, Japan)

2) Clinical observation of involuntary movements
   Hiroshi Shibasaki (Department of Neurology, Kyoto University Graduate School of Medicine, Kyoto, Japan)

3) Dopamine-related movement disorders

4) Assessment and treatment of dyspnea for children with neurological and neuromuscular conditions
   Nobuyuki Yotani (Division of Palliative Medicine, National Center for Child Health and Development, Tokyo, Japan)
Satoko Kumada (Department of Neuropediatrics, Tokyo Metropolitan Neurological Hospital, Tokyo, Japan)

4) Voluntary movements and rare involuntary movements in adult patients
Yoshikazu Ugawa (Department of Neuro-regeneration, Fukushima Medical University, Fukushima, Japan)

Symposium 14
Chair: Yukitoshi Takahashi (National epilepsy center, Shizuoka institute of epilepsy and NDs, NHO, Shizuoka), Hiroshi Sakuma (Department of Brain Development and Neural Regenerating Tokyo Metropolitan Institute of Medical Science)

Advance in autoantibody-mediated brain diseases
1) Characteristics of pediatric MOG-IgG+ demyelinating disease.
Kimihiko Kaneko¹,²
(1.Department of neurology, Tohoku University, Sendai, Japan, 2.NHO Miyagi Hospital, Watari, Japan)
2) The role of IL-6 in neuromyelitis optica
Takako Matsuoka¹,²,³
(1.Department of Immunology, National Institute of Neuroscience, National Center of Neurology and Psychiatry, 2.Child Brain Project, Tokyo Metropolitan Institute of Medical Science, 3.Department of Developmental Medical Sciences, Graduate School of Medicine, The University of Tokyo)
3) Diagnosis and management of anti-NMDA receptor encephalitis in children
Taku Omata (Division of Child Neurology, Chiba Children’s Hospital)
4) Limbic system & encephalitis
Yukitoshi Takahashi¹,²
(1.National epilepsy center, Shizuoka institute of epilepsy and NDs, NHO, Shizuoka, Japan, 2.Department of Pediatrics, Gifu University school of medicine, Gifu, Japan)

ISS Joint Symposium
Chair: Sampsa Vanhatalo (BABA center, Children’s Hospital, University of Helsinki, Finland), Akihisa Okumura (Department of Pediatrics, Aichi Medical University)

Advance in neonatal neurology
1) Neonatal EEG
Sampsa Vanhatalo (BABA center, Children’s Hospital, University of Helsinki, Finland)
2) A Neonatal Seizure Detection Algorithm
Geraldine B. Boylan (INFANT Research Centre)
3) New neonatal seizure classification
Ronit M. Pressler (Great Ormond Street Hospital for Children)
4) Neuroimaging of developing brain before birth
Ritsuko K. Pooh (CRIFM Clinical Research Institute of Fetal Medicine PMC)

Presidential talk event
Chair: Shinji Saitoh (Department of Pediatrics and Neonatology, Nagoya City University Graduate School of Medical Sciences), Ganeshwaran H. Mochida (Boston Children’s Hospital, USA, Massachusetts General Hospital, USA, Harvard Medical School, USA)

Is glass ceiling present? Toward the equal opportunity of women in child neurology
1) From Pediatrics to Geriatrics with Fragile X: A Woman’s Journey in Medicine
Randi J. Hagerman (University of California Davis Medical Center, USA)
2) Equity and diversity in the workplace to enable a creative and productive environment.
Linda Richards (The University of Queensland, Queensland Brain Institute, Brisbane, Australia)
3) Is glass ceiling present? Toward the equal opportunity of women in child neurology
Takao Takahashi (Department of Pediatrics, Keio University School of Medicine, Tokyo, Japan)
4) My experience working as a child neurologist for twenty years
   Reimi Tsurusawa (Takagi hospital, Fukuoka, Japan)

5) Current situation surrounding female researchers in Japan and action for GENDER EQUALITY of JSCN
   Yoshimi Kaga (Department of Developmental Disorders, National institute of Mental health, National Center of Neurology and Psychiatry, Tokyo, Japan)

6) Women in Medicine – Taiwan Experience
   Ying-Chao Chang (Department of Pediatrics, Kaohsiung Chang Gung Memorial Hospital and Chang Gung University College of Medicine, Kaohsiung, Taiwan)

Asia Session

Chair: Hiroshi Otsubo (The Hospital for Sick Children, Toronto, Canada), Derrick Wei-Shih Chan (KK Women’s and Children’s Hospital, Singapore)

Diversity of epilepsy treatment in Asia -West syndrome-
1) A Review of West Syndrome in the Philippines
   Rhea Angela M. Salonga-Quimpo (Section of Pediatric Neurology, Department of Neurosciences, University of the Philippines-Philippine General Hospital)

2) A brief introduction to diagnosis and medical treatment of West syndrome in Singapore
   Derrick Wei-Shih Chan (KK Women’s and Children’s Hospital, Singapore)

3) Diagnosis and treatment of West syndrome in Turkey
   Dilek Yalnizoglu (Department of Pediatric Neurology, Hacettepe University Faculty of Medicine, Turkey)

4) Standard therapy for West syndrome in Japan
   Tomoyuki Akiyama (Department of Child Neurology, Okayama University, Okayama, Japan)

Acute flaccid paralysis

Chair: Ryutaro Kira (Department of Pediatric Neurology, Fukuoka Children’s Hospital), Sawa Yasumoto (Fukuoka University Medical Education Center)

Nationwide AFP (acute flaccid paralysis) surveillance
1) Acute flaccid paralysis and acute flaccid myelitis: overview
   Keiko Tanaka-Taya (Infectious Disease Surveillance Center, National Institute of Infectious Diseases, Tokyo, Japan)

2) Imaging of acute flaccid myelitis
   Harushi Mori¹, Akihisa Okumura²
   (1.Department of Radiology, Graduate School and Faculty of Medicine, The University of Tokyo, 2.Department of Pediatrics, Aichi Medical University)

3) Trends of acute flaccid myelitis in 2018-2019
   Pin Fee Chong¹², Ryutaro Kira¹
   (1.Department of Pediatric Neurology, Fukuoka Children’s Hospital, Fukuoka, Japan, 2.Deapartment of General Pediatrics & Interdisciplinary Medicine, Fukuoka Children’s Hospital, Fukuoka, Japan)

Sponsored Symposium

Chair: Hirofumi Komaki (Department of Clinical Research Promotion, National Center Hospital, National Center of Neurology and Psychiatry), Keiko Ishigaki (Department of Pediatrics, Tokyo Women’s Medical University, School of Medicine)

1) Scoliosis management and Spinraza treatment in SMA patients
   Ayano Matsui (National Center Hospital of Neurology and Psychiatry, Tokyo, Japan)

2) Nusinersen intrathecal injection with ultrasound guidance
   Norihiko Obata (Division of Anesthesiology, Department of Surgery Field, Kobe University Graduate School of Medicine, Kobe, Japan)

3) Rehabilitation for pediatric patients with SMA
Committee’s Seminar 1
Chair: Kazuhiro Haginoya (Department of Pediatric Neurology, Miyagi Children’s Hospital), Jun Tohyama (Department of Child Neurology, Nishi-Niigata Chuo National Hospital)
The procedure to pharmaceutical approval based on a clinical study
1) Preparing investigator initiated clinical trial
   Ryuta Asada (Innovative and Clinical Research Promotion Center, Gifu University Hospital, Gifu, Japan)
2) Clinical trial of bezafibrate for patients with mitochondrial fatty acid oxidation defect
   Hideaki Shiraishi (Department of Pediatrics, Hokkaido University Hospital)
3) Clinical development of exon skipping therapy for Duchenne muscular dystrophy
   Hirofumi Komaki (Translational Medical Center, National Center of Neurology and Psychiatry, Tokyo, Japan)
4) Development of therapeutic drug and biomarker for mitochondrial disorders
   Yasutoshi Koga (Department of Pediatrics and Child Health, Kurume University school of Medicine, Kurume, Japan)

Committee’s Seminar 2
Chair: Eiji Nakagawa (Department of Child Neurology, National Center, National Center Hospital of Neurology and Psychiatry), Yukitoshi Takahashi (National epilepsy center, Shizuoka institute of epilepsy and NDs, NHO, Shizuoka)
Session for urgent issue "Appropriate use of ketogenic formula"
1) Current situation of measures against special formula
   Akinobu Taniguchi (Intractable/Rare Disease Control Division, Health Service Bureau, Ministry of Health, Labour and Welfare)
2) Supply situation of special keton formula
   Kikumaro Aoki, Kazunori Yokoyama (Aiiku Maternal and Child Health Center, Tokyo, Japan)
3) Status of Ketonformula '817-B' supply
   Takahiro Kanno (Food Science & Technology Research Labs. / R&D Div. / Meiji Co., Ltd., Tokyo, Japan)
4) All roads lead to appropriate use of therapeutic formula: creating clinical guidelines.
   Kimitoshi Nakamura1,2, Yukitoshi Takahashi2, Shinobu Ida2, Masanobu Kawai2, Yuko Hamasaki2, Tetsuya Ito2, Toshihiro Ohura2
   (1.Department of Pediatrics, Kumamoto University, Kumamoto, Japan, 2.Therapeutic formula WG, Grant in aid for the research on rare and intractable diseases. Kumamoto, Japan)
5) Treatment guide for intractable epilepsy with ketogenic formula (proposal)
   Yukitoshi Takahashi (National epilepsy center, Shizuoka institute of epilepsy and NDs, NHO, Shizuoka, Japan)

Committee’s Seminar 3
Chair: Toshiyuki Yamamoto (Institute of Medical Genetcis, Tokyo Women’s Medical University), Katsunori Fujii (Department of Pediatrics, Chiba University Graduate School of Medicine)
No-to-Hattatsu manuscript review seminar
1) What we should do to get acceptance by No-to-Hattatsu?
   Toshiyuki Yamamoto (Institute of Medical Genetcis, Tokyo Women’s Medical University, Tokyo, Japan)
2) How can we evaluate scientific papers?
   Katsunori Fujii (Department of Pediatrics, Chiba University Graduate School of Medicine)
3) The role as an associate editor
   Yoshimi Kaga (Department of Developmental Disorders, National institute of Mental
Committee’s Seminar 4

Chair: Masakazu Mimaki (Department of Pediatrics, Teikyo University School of Medicine), Gaku Yamanaka (Department of Pediatrics, Tokyo Medical University)

Recommendations from the three working groups on medical safety

1) Proposal and guidance on medical safety in sedation at neurophysiological examination including electroencephalogram

Seigo Korematsu, Yusaku Miyamoto, Kazuhiro Muramatsu, Gaku Yamanaka, Hideaki Shiraishi, Harumi Yoshinaga, Eiji Nakagawa, Masumi Inagaki, Hideaki Kanemura, Katsuhiro Kobayashi

(1.Nakatsu Municipal Hospital, 2.Oita University, 3.St. Mariannma University School of Medicine, 4.Jichi Medical University, 5.Tokyo Medical University, 6.Hokkaido University, 7.National Hospiral Organization Minami-Okayama Medical Center, 8.National Center of Neurology and Psychiatry, 9.Yamanashi University, 10.Okayama University)

2) Recommendations and guidelines for CT imaging at head injury in childhood realize medical safety

Shoko Shimokawa, Seigo Korematsu, Madoka Hoshide, Rie Miyata, Iyunichi Ishii, Satoko Uematsu, Yuuta Fuji, Yasuhiro Matsuzuka

(1.Department of Neurosurgery, School of Medicine, Saga University, Saga, Japan, 2.Nakatsu Municipal Hospital, Ohita, Japan, 3.Department of pediatrics, Ohita University, Ohita, Japan, 4.Department of Pediatrics, Graduate School of Medicine, Yamaguchi University, Yamaguchi, Japan, 5.Department of Pediatrics, Tokyo-Kita Medical Center, Tokyo, Japan, 6.Emergency and Critical Care Medical Center & Pediatric emergency medicine Osaka City General Hospital, Osaka, Japan, 7.Division of Emergency and Transport Services National Center for Child Health and Development, Tokyo, Japan, 8.Department of Radiology, Kanagawa Children’s medical center, Kanagawa, Japan, 9.Department of pediatric neurosurgery, Osaka City general Hospital, Osaka, Japan)

3) Proposals on a safety management for ACTH therapy by the JSCN-JES joint working group

Hideo Yamanouchi, Yukitoshi Takahashi, Katsuhiro Kobayashi, Shinichiro Hamano, Masaki Miki, Susumu Ito

(1.JSCN-JES Working Group on A Safety Management for ACTH Therapy, Medical Safety Committee, JSCN, Japan, 2.Department of Pediatrics, Comprehensive Epilepsy Center, Saitama Medical University, Saitama, Japan, 3.Department of Pediatrics, Shizuoka Institute of Epilepsy and Neurological Disorders, 4.Department of Child Neurology, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, 5.Department of Neurology, Saitama Children’s Medical Center, 6.Department of Pediatrics, Teikyo University, School of Medicine, 7.Department of Pediatrics, Tokyo Women’s Medical University Hospital)

Committee’s Seminar 5

Chair: Hiroshi Arai (Director of Bobath Memorial Hospital), Akinobu Nemoto (Department of Medical Informatics, Yokohama City University)

Algorithm in the treatment of spasticity and dystonia in childhood

1) Oral pharmacological treatment of spasticity n patients with cerebral palsy

Kazuhiro Haginoya (Department of Pediatric Neurology, Miyagi Children’s Hospital)

2) When is botulinum therapy commenced and shifted to surgical treatment?

Atsuo Nezu (Clinic for Pediatric Neurology, Yokohama Medical and Welfare Centre, Konan, Yokohama, Japan)

3) Treatment selection depending on diagnosis of dystonia

Yohane Miyata

(1.Department of Pediatrics, Kyorin University School of Medicine, Tokyo, Japan, 2.Department of Neuropediatrics, Tokyo Metropolitan Neurological Hospital, Tokyo, Japan)
4) Effect of intrathecal baclofen therapy on upper limbs and trunk severe spasticity in children with cerebral palsy

Takeshi Kinjo¹, Teruyo Oishi¹, Taketsugu Gaja¹, Atsuo Aguni¹, Takashi Asato²
¹Deparment of Orthopedic Surgery of Okinawa Prefectural Nanbu Medical Center and Childrens Medical Center, Okinawa, Japan, ²Department of rehabilitation medicine of Okinawa Prefectural Nanbu Medical Center and Childrens Medical Center, Okinawa, Japan

5) Neuromuscular Scoliosis in Cerebral Palsy Children.

Naoyuki Nakamura (The Department of Pediatric Orthopedics Surgery and Pediatric Spine Surgery, Kanagawa Children's Medical Center, Yokohama, Japan)

Committee's Seminar 6

Chair: Shigemi Kimura (Children’s Sleep & Development Medical Research Center, Hyogo Prefectural Center Rehabilitation Hospital), Akira Yoneyama (The Department of Pediatrics, National Rehabilitation Center for Children with Disabilities)

Risk Management for Children with Disabilities during Disaster

1) The Role of and Cooperation with Disaster Liaison for Pediatrics and Perinatal Medicine

Kohmei Ida (Department of Pediatrics, Teikyo University Mizonokuchi Hospital, Kawasaki City, Japan)

2) Construction of the disaster emergency network for handicapped children using the respirator part2

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

3) What have we learnt from the experience of Hanshin-Awaji Earthquake? What problems should we solve?

Satoshi Takada¹,²
¹Kobe City Pediatric and General Rehabilitation Center for the Challenged, Kobe, Japan, ²School of Health Sciences, Kobe University, Kobe, Japan


Tokio Uchiyama (Department of Clinical Psychology, Taisho University, Tokyo, Japan)

5) Practice of disaster measures by regional collaboration with medical institutions.

Makoto Asano¹,²
¹Foursightsconsulting Co., Ltd, Tokyo, Japan, ²Association of Risk Management Japan, Tokyo, Japan

Committee’s Seminar 7

Chair: Kyoko Ito (Department of Pathology and Applied Neurobiology Graduate School of Medical Science Kyoto Prefectural University of Medicine)

Research integrity on clinical trials in Japan

Shinji Fushiki¹,²
¹Kyoto Chubu Medical Center, ²The Center of Quality Assurance in Research and Development, Kyoto Prefectural University of Medicine

Committee’s Seminar 8

Chair: Eiji Nakagawa (Department of Child Neurology, National Center, National Center Hospital of Neurology and Psychiatry), Harumi Yoshinaga (Pediatrics, National Hospital Organization Minami-Okayama Medical Center)

Efficacy and cautionary note of new drugs in the field of child neurology

1) Novel drugs in pediatric neuromuscular disease area

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

2) Efficacy and cautionary note of new antiepileptic drugs

Fumika Endoh (University Graduate School of Medicine, Dentistry and Pharmaceutical
Sciences, Okayama, Japan)

3) Efficacy and cautionary note of new drugs in neurodevelopmental disorders
   Eiji Nakagawa (Department of Child Neurology, National Center Hospital, National
   Center of Neurology and Psychiatry)

4) Update of the diagnosis and treatment of Niemann-Pick disease type C
   Aya Narita (Division of Child Neurology, Institute of Neurological Science, Tottori
   University Faculty of Medicine, Yonago, Japan)

Committee’s Seminar 9

Chair: Jun Koyama (Tokyo Bay Urayasu/Ichikawa Medical Center),
Akemi Tomoda (Research Center for Child Mental Development, University of Fukui)
A proposal from long-term planning committee to the board of directors.

1) Transition to adult health care for children with neurological and developmental disorders
   Nobuaki Iwasaki¹, Yuka Suzuki², Yoshimi Kaga³, Sahoko Miyama⁴, Akie Miyamoto⁵, Akio
   Nakai⁶
   (1. Department of Pediatrics, Ibaraki Prefectural University of Health Science, Ibaraki,
   Japan, 2. Department of Pediatrics, Matsuura Red Cross Hospital, Matsuura, Ehime,
   Japan, 3. Department of Developmental Disorders, National Institute of Mental Health,
   National Center of Neurology and Psychiatry (NCNP), Tokyo, Japan, 4. Department of
   Neurology, Tokyo Metropolitan Children's Medical Center, Tokyo, Japan, 5. Department
   of Pediatrics, Asahikawa Habilitation Center for Disabled Children, Asahikawa, Hokkaido,
   Japan, 6. Center for the Study of Child Development, Institute for Education, Mukogawa
   Women's University, Nishinomiya, Hyogo, Japan)

2) Bioethics in the Field of Child Neurology mainly about Prenatal Diagnosis
   Masao Kumode¹,², Reimi Tsurusawa², Naomi Fukuyo², Takeo Kubota², Kaeko Ogura²
   (1. The Department of Pediatrics, Biwakogakuen Kusatsu Medical and Welfare Center
   for Disabilities, Shiga, Japan, 2. Long-range Committee, The Japanese Society of Child
   Neurology, Tokyo, Japan.)

3) Utilization of information technology for members of the Japan Society of Child Neurology
   Shuichi Shimakawa¹, Masakazu Mimaki², Mitsuhiro Kato³, Yoshika Kawakami⁴, Hirotaka
   Tada⁵
   (1. Department of Pediatrics, Osaka Medical College Hospital, Osaka, Japan, 2. Department
   of Pediatrics, Teikyo University, School of Medicine, Tokyo, Japan, 3. Department
   of Pediatrics, Showa University School of Medicine, Tokyo, Japan, 4. Department of
   Pediatrics, Nippon Medical School Musashi Kosugi Hospital, Tokyo, Japan, 5. Department
   of Pediatrics, Chibaken Saiseikai Narashino Hospital, Chiba, Japan)

Committee’s Seminar 10

Chair: Takao Takahashi (Department of Pediatrics, University of Keio),
Mitsuhiko Kato (Department of Pediatrics, Showa University School of Medicine)
To be opened or closed, that is a question for all members of the JSCN.

1) Questionnaire on the status of internationalization at major medical academic societies in Japan.
   Naoko Ishihara (Department of Pediatrics, Fujita Health University School of Medicine, Toyoake, Japan)

2) Hiroshi Honda (Department of Clinical Radiology, Graduate School of Medical Sciences, Kyushu
   University)

3) Hitoshi Yamamoto (St. Marianna Pediatrics)

4) Shinichi Hirose (Department of Pediatrics, Fukuoka University)

Practical Education Seminar 1

Chair: Jun-Ichi Takanashi (Department of Pediatrics, Tokyo Women's Medical University
Yachiyo Medical Center),
Hiroshi Ooba (Department of Radiology, Teikyo University Hospital)
Neuroradiology for Pediatrician 2019

1) Pearls and pitfalls in clinical (pediatric-)neuroradiology
Harushi Mori (Department of Radiology, Graduate School and Faculty of Medicine, The University of Tokyo)
2) Brain anomalies: MR evaluation and differential diagnosis.
   Hidetsuna Utsunomiya (Center for Pediatric Neurology, Takatsuki Hospital, Osaka, Japan)
3) Normal variations and pitfalls of pediatric neuroimaging
   Rieko Furukawa (Department of Pediatric Medical Imaging, Jichi Children’s Medical Center Tochigi, Tochigi, Japan)

Practical Education Seminar 2
Chair: Akira Nishimura (Japanese Red Cross Kyoto Daiichi Hospital), Naoki Ando (Josai Kids Clinic)
Pediatric Headache Master School 2019
1) Characteristics and Medical Correspondence for the young woman headache
   Hisaka Igarashi (Department of Internal Medicine, Headache Outpatient Service, Fujitsu Clinic)
2) Medical correspondence for child migraine: Focusing on non-pharmacological interventions
   Kiyoshi Araki (Department of Pediatrics, Tokyo Saiseikai Central Hospital, Tokyo, Japan)
3) Medical correspondence for chronic daily headache of junior high and high school students who are absent from school for a long duration
   Mitsue Fujita
   (1.Department of Pediatrics, Tsukubagakuen Hospital, Tsukuba, Ibaraki, Japan, 2.Child & Adolescent Headache Outpatient Service, Tokyo Clinic, Tokyo, Japan)

Practical Education Seminar 3
Chair: Ryutaro Kira (Department of Pediatric Neurology, Fukuoka Children’s Hospital),
Momoko Sasazuki (Faculty of Health and Welfare, Seinan Jogakuin University)
palliative care for children with life threatening neurological conditions
1) Overview of pediatric palliative care : The principle and practice
   Momoko Sasazuki
   (1.Faculty of Health and Welfare, Seinan Jogakuin University, 2.Department of Pediatrics, Kyushu University Hospital)
2) Management of of pain symptoms
   Shin Okazaki (Osaka city general hospital, Osaka, Japan)
3) The concept and practice of advance care planning
   Nobuyuki Yotani (Division of Palliative Medicine, National Center for Child Health and Development, Tokyo, Japan)
4) Family Support
   Mari Matsuoka (Human Health Science, Graduate School of Medicine, Kyoto University, Kyoto, Japan)

Practical Education Seminar 4
Chair: Jun Natsume (Department of Developmental Disability Medicine, Nagoya University Graduate School of Medicine)
Basic hands-on seminar on EEG
1) Yamamoto Hiroyuki (The Department of Pediatrics, Nagoya University Graduate School of Medicine)
2) Hideaki Shiraishi (Department of Pediatrics, Hokkaido University Hospital Epilepsy Center)

Practical Education Seminar 5
Chair: Katsunori Fujii (Department of Pediatrics, Chiba University Graduate School of Medicine),
Gaku Yamanaka (Department of Pediatrics, Tokyo Medical University)
Practical seminar for child neurology
1) Physical findings in children
   Katsunori Fujii (Department of Pediatrics, Chiba University Graduate School of Medicine)
2) Diagnosis and treatment of epilepsy
   Tomoyuki Akiyama (Department of Child Neurology, Okayama University, Okayama, Japan)
3) How to read brain CT and MRI.
   Gaku Yamanaka (Department of Pediatrics, Tokyo Medical University, Tokyo, Japan)
4) Understanding developmental disorders
   Tomoko Uchida (Department of Pediatrics, Graduate school of Medicine, Chiba University)

Practical Education Seminar 6
   Chair: Tetsuo Kubota (Department of Pediatrics, Anjo Kosei Hospital),
   Hiroyuki Kidokoro (Department of Pediatrics, Nagoya University Graduate School of Medicine)
   Basic Training of Neonatal EEG
   1) Evaluation of conventional EEG in neonate
      Toru Kato (Department of Pediatrics, Okazaki City Hospital)
   2) Abnormal EEG findings in neonates
      Tatsuya Fukasawa (Department of Pediatrics, Anjo Kosei Hospital, Aichi, Japan)

Practical Education Seminar 7
   Chair: Kiyokuni Miura (Aichi Developmental Disability Center),
   Soichiro Tanaka (Home Care Clinic for Children Hokkori Sendai)
   Home medical care for neurological pediatric patient
   1) Medical technologies being based of the home care for children
      Hirotoshi Maeda (Medical Incorporated Foundation Harutaka kai)
   2) Home medical treatment from Osaka Developmental Rehabilitation Center
      Hiroshi Wada, Masahisa Funato (Department of Home Medical Treatment & Pediatrics of Osaka Developmental Rehabilitation Center, Osaka, Japan)
   3) How to connect home care clinic and hospital
      Soichiro Tanaka (Home Care Clinic for Children Hokkori Sendai)
   4) Community development and Pediatric home health care
      Ryoichi Ichihashi (Medical corporation KAGAYAKI, General Home Care Clinic)
   5) Cooperation between medical professionals and consultation support specialist
      Hiromi Tohyama<sup>1,2</sup>
      1. Social welfare corporation Nanohana, Miyagi, Japan, 2. Counseling and Support Association Miyagi Sendai, Miyagi, Japan

Practical Education Seminar 8
   6th genetics practical education seminar
   Toshiyuki Yamamoto<sup>1</sup>, Takanori Yamagata<sup>2</sup>, Hitoshi Osaka<sup>2</sup>, Yasunari Sakai<sup>3</sup>, Takahito Wada<sup>4</sup>
   1. Institute of Medical Genetics, Tokyo Women’s Medical University, Tokyo, Japan, 2. Department of Pediatrics, Jichi Medical University, Tochigi, Japan, 3. Department of Pediatrics, Kyushu University, Fukuoka, Japan, 4. Department of Medical Ethics and Medical Genetics, Graduate School of Medicine, Kyoto University, Kyoto, Japan

61st JSCN Luncheon Seminar
   Chair: Koichi Maruyama (Aichi Developmental Disability Center)
   Speaker: Kenji Yokochi<sup>1,2</sup>
   1. Seirei Mikatahara General Hospital, 2. Seirei Oozora Ryoiku Center

Luncheon Seminar 1
   Chair: Kayoko Saito (Institute of Medical Genetics, Tokyo Women’s Medical University)
Spinal muscular atrophy (SMA) - what we have achieved with the new treatment and current challenges
Andres Nascimento-Osorio (Neurology Department, Hospital Sant Joan de Deu, Barcelona, Spain)

Luncheon Seminar 2
Chair: Katsuhiko Kobayashi (Department of Child Neurology, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences),
Syndrome characteristic and seizure types of childhood epilepsy: Efficacy of Perampanel based on clinical experience
Hideaki Shiraishi (Department of Pediatrics, Hokkaido University Hospital Epilepsy Center)

Luncheon Seminar 3
Chair: Yoshikatsu Eto (The Jikei University)
Niemann-Pick disease type C; Clinical Points for Diagnosis and Treatment
Norio Sakai (Child Healthcare and Genetic Science Laboratory, Division of Health Sciences, Osaka University Graduate School of Medicine, Osaka, Japan)

Luncheon Seminar 4
Chair: Shinobu Ida (Osaka Women’s and Children’s Hospital)
Carnitine deficiency in epileptic outpatients and inpatients with severe motor and intellectual disabilities in our facility
Kimio Minagawa, Tomoko Yamada (Department of Pediatrics, MIdorigaoka Ryo-iku-en, Sapporo, Hokkaido, Japan)

Luncheon Seminar 5
Chair: Kazuhiro Haginoya (Department of Pediatric Neurology, Miyagi Children’s Hospital)
Significance of early diagnosis and treatment of genetic rare disease: Gaucher disease latent in pediatric neurological disease
Hideo Shigematsu (National Epilepsy Center, Shizuoka Institute of Epilepsy and Neurological Disorders, Shizuoka, Japan)

Luncheon Seminar 6
Chair: Hitoshi Yamamoto (Department of Pediatrics, St.Marianna-University of Medicine)
New antiepileptic drugs treatment in children with epilepsy
Eiji Nakagawa (Department of Child Neurology, National Center Hospital, National Center of Neurology and Psychiatry, Tokyo, Japan)

Luncheon Seminar 7
Chair: Yukitoshi Takahashi (National epilepsy center, Shizuoka institute of epilepsy and NDs, NHO, Shizuoka)
State of the Art of Tuberous Sclerosis Complex Treatment
Kuriko Shimono (United Graduate School of Child Development Osaka University Graduate School of Medicine, Osaka, Japan)

Luncheon Seminar 8
Chair: Akemi Tomoda (Research Center for Child Mental Development, University of Fukui)
Treatment strategy for ADHD : cases and pathology
Makio Oka (Department of Child Neurology, Okayama University Hospital)
Luncheon Seminar 9
Chair: Kayoko Saito (Institute of Medical Genetics, Tokyo Women's Medical University)
1) Diagnosis and clinical management of spinal muscular atrophy
   Yasuhiro Takeshima (Department of Pediatrics, Hyogo College of Medicine, Hyogo, Japan)
2) "Impact of early diagnosis and newborn screening in SMA"
   Douglas Sproule (AveXis, Inc., Chicago, United States)

Luncheon Seminar 10
Chair: Tetsuya Ito (Department of Pediatrics, Fujita Health University School of Medicine)
Symptoms of Fabry disease in childhood: Neuropathic pain and anhidrosis
   Yoshihiko Nakazato (Department of Neurology, Saitama Medical University, Saitama, Japan)

Luncheon Seminar 11
Chair: Tatsuya Koeda (Department of Psychosocial Medicine, National Center for Child Health and Development)
Studies on autistic spectrum disease: report from industry-university cooperation.
   Mitsuru Kikuchi (Research Center for Child Mental Development, Kanazawa University, Kanazawa, Japan)

Luncheon Seminar 12
Chair: Yoshikatsu Eto (The Jikei University)
1) Tips for the diagnosis of neuronal ceroid lipofuscinosis
   Aya Narita (Division of Child Neurology, Institute of Neurological Science, Tottori University Faculty of Medicine, Yonago, Japan)
2) Clinical course of the patients with neuronal ceroid lipofuscinosis (NCL)
   Jun Tohyama,1,2
   (1.Department of Child Neurology, Nishi-Niigata Chuo National Hospital, Niigata, Japan,
   2.Center for Medical Genetics Service and Genetic Counseling, Niigata University Medical and Dental Hospital)

Luncheon Seminar 13
Chair: Makiko Osawa (Tokyo Women's Medical University)
Safety and security in medical practice from perspective of childhood epilepsy
   Takao Takahashi (Department of Pediatrics, Keio University School of Medicine, Tokyo, Japan)

Luncheon Seminar 14
Chair: Masako Taniike (United Graduate School of Child Development)
A role of child neurologists for supporting the parents and child mental development for the next generation
   Akemi Tomoda (Research Center for Child Mental Development, University of Fukui, Fukui, Japan)

Luncheon Seminar 15
Chair: Hitoshi Yamamoto (Department of Pediatrics, St.Marianna-University of Medicine)
1) mTOR inhibitor for tuberous sclerosis complex: The wide range of effects
   Tohru Okanishi (Department of Child Neurology, Comprehensive Epilepsy Center, Seirei-Hamamatsu General Hospital)
2) Skin lesions due to tuberous sclerosis complex
   Mari Kaneda (Department of Dermatology, Graduate school of medicine, Osaka)
Luncheon Seminar 16
Chair: Shinya Miyamoto (Shirayuri University)
Assessment of neurodevelopmental disorder and the application
Yasuko Funabiki (Graduate School of Human and Environmental Studies, Kyoto University, Kyoto, Japan)

Luncheon Seminar 17
Chair: Akira Oka (Department of Pediatrics, Graduate School of Medicine, The University of Tokyo)
1) Diagnosis of childhood-onset muscular diseases
   Ayako Hattori (Nagoya City University, Graduate school of Medical Sciences, Department of Pediatrics and Neonatology, Aichi, Japan)
2) Treatable metabolic myopathy: Pompe disease -The diagnosis and clinical course of our patients-
   Aya Narita (Division of Child Neurology, Institute of Neurological Science, Tottori University Faculty of Medicine, Yonago, Japan)

Luncheon Seminar 18
Chair: Hisahide Nishio (Kobe University Graduate School of Medicine/Kobe Gakuin University)
Spinal muscular atrophy (SMA) past, present and future: challenges in patient management
Laurent Servais\textsuperscript{1,2}
(1.Institute of Myology, Paris, France, 2.Reference Center for Neuromuscular Disease, Centre Hospitalier Régional de La Citadelle, Liège, Belgium)

Luncheon Seminar 19
Chair: Takanori Yamagata (Department of Pediatrics, Jichi Medical University)
1) Advances in Gene Therapy
   Shin-Ichi Muramatsu\textsuperscript{1,2}
   (1.Center for Gene Therapy Research, Jichi Medical University, Tochigi, Japan, 2.Center for Gene & Cell Therapy, The Institute of Medical Science, The University of Tokyo, Tokyo, Japan)
2) Essential components of gene replacement therapy
   Petra Kaufmann (AveXis, Inc.)

Sponsored Seminar 1
Chair: Yoko Ohtsuka (Asahigawaso Rehabilitaion and Medical Center)
How does emergency treatment to convulsion / status epilepticus in children change? ~ Impact of newly launch of Lorazepam Injection in Japan ~
   Shinichiro Hamano (Division of Neurology, Saitama Children’s Medical Center, Saitama, Japan)

Sponsored Seminar 2
Chair: Ryoko Honda (Department of Pediatrics, National Hospital Organization Nagasaki Medical Center)
Vagus nerve stimulation for refractory epilepsy: Basic technique of VNS dosing
   Masanori Takeoka (Harvard Medical School, Children’s Hospital Boston, Division of Epilepsy and Clinical Neurophysiology department of Neurology, Boston)
Public Forum

[Keynote Lecture]
Chair: Masaharu Noda (Aichi Medical Association)
Speaker: Seiko Noda (Member of the House of Representatives)

[Symposium]
Chair: Jun Natsume (Department of Developmental Disability Medicine, Nagoya University Graduate School of Medicine)
Kiyokuni Miura (Aichi Developmental Disability Center, Kasugai, Japan)

1) Medical support for developmental disorders
   Taishi Miyachi (Nagoya West District Care Center for Disabled Children, Nagoya, Japan)

2) For vocational independence and social participation
   Naoki Yamazaki (Non-Profit Organization Disability independence support center
   Employment transition support office marm, Aichi, Japan)

3) Supportive medical care for persons with severe disabilities and children who need medical care
   Kiyokuni Miura (Aichi Developmental Disability Center, Kasugai, Japan)

4) make the local life of the seriously ill a reality on children’s day
   Yoshio Suzuki 1,2
   (1.Social welfare corporation,Nagoya, Japan, 2.general incorporated association zennkoku
   jyuusyouji dayservice networt,Nagoya, Japan)

English session 1

Chair: Tokiko Fukuda (Department of Pediatrics, Hamamatsu University School of Medicine),
Zenichiro Kato (Department of Pediatrics, Gifu University Graduate School of Medicine)

Metabolism / development / Intoxication

E-001 Long-term follow-up of slowly progressive Leigh syndrome caused by the T8993C mtDNA mutation
   Yuichi Abe 1, Michiko Kawai 1, Itaru Hayakawa 1, Nahoko Katayama-Ueda 1, Sato Suzuki-Muromoto 1, Ryosuke Urabe 1, Go Takei 1, Masaya Kubota 1
   (1.Division of Neurology, National Center for Child health and Development, Tokyo, Japan)

E-002 An infant case of Niemann-Pick type C with hepatomegaly and a filipin-positive carrier’s donor liver
   Yoshiie Kurokawa 1, Masahide Goto 1, Naoya Yamada 2, Noriki Okada 2, Yukihiro Sanada 2, Noriyoshi Fukushima 2, Aya Narita 2, Koichi Mizuta 2, Hitoshi Osaka 1, Takanori Yamagata 1
   (1.Division of Pediatrics, Jichi Medical University, Tochigi, Japan, 2.Department of Transplant Surgery, Jichi Medical University, Tochigi, Japan, 3.Department of Diagnostic Pathology, Jichi Medical University, Tochigi, Japan, 4.Department of Child Neurology, Tottori University, Tottori, Japan.)

E-003 Pathological analysis of autism spectrum disorder using deciduous tooth-derived stem cells
   Hiroki Kato 1, Huong Nguyen 1, Keiji Masuda 1, Haruyoshi Yamaza 1, Yuta Hirofuiji 1, Hiroshi Sato 1, Thanh Pham 1, Fumiko Takayama 1, Yasunari Sakai 2, Shouichi Ohga 2, Tomoaki Taguchi 2, Kazuaki Nonaka 1
   (1.Section of Oral Medicine for Children, Division of Oral Health, Growth and Development, Faculty of Dental Science, Kyushu University, Fukuoka, Japan, 2.Department of Pediatrics, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan, 3.Department of Pediatric Surgery, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan)

E-004 Prevalence of autism spectrum disorder in Duchenne and Becker muscular dystrophy: A meta-analysis
   Haruo Fujino 1,2, Toshio Saito 3, Tsuyoshi Matsumura 4, Harutoshi Fujimura 4, Osamu Imura 2
   (1.Oita University, Oita, Japan, 2.Graduate School of Human Sciences, Osaka University, Osaka, Japan, 3.Division of Child Neurology, Department of Neurology, National Hospital Organization Toneyama National Hospital, Osaka, Japan, 4.Department of Neurology, National Hospital Organization Toneyama National Hospital, Osaka, Japan)

E-005 Internet use and sleep habit of preschoolers: relationship between children and caregivers
   Yasunori Oka 1, Norimi Takata 2, Kazunori Itoh 3
   (1.Center for Sleep Medicine, Ehime University Hospital, Ehime, Japan, 2.School of...
English session 2
Chair: Masakazu Mimaki (Department of Pediatrics, Teikyo University School of Medicine), Mitsuhiro Kato (Showa University School of Medicine)

E-007 National survey of procedures, antiepileptics, and antibiotics for febrile seizure hospitalization.
Itaru Hayakawa¹, Yusuke Okubo²,³, Hiroki Nariai⁴, Nobuaki Michihata⁴, Hiroki Matsui⁴, Kiyohide Fushimi⁴, Hideo Yasunaga⁴
(¹Division of Neurology, National Center for Child Health and Development, Tokyo, Japan, ²Department of Epidemiology, UCLA Fielding School of Public Health, LA, CA, USA, ³Department of Social Medicine, National Research Institute for Child Health and Development, Tokyo, Japan, ⁴Division of Pedicatric Neurology, Department of Pediatrics, UCLA Medical Center, LA, CA, USA, ⁵Department of Health Services Research, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan, ⁶Department of Health Policy and Informatics, Graduate School of Medicine, Tokyo Medical and Dental University, Tokyo, Japan, ⁷Department of Clinical Epidemiology and Health Economics, School of Public Health, The University of Tokyo, Tokyo, Japan)

E-008 Apomorphine has a cell protective effect in mitochondrial disease cells
Akihiko Miyauchi¹, Takeshi Kougai¹, Eriko Jimbo¹, Tetsuro Matsuhashi², Takaaki Abe², Takanori Yamagata¹, Hitoshi Osaka¹
(¹Department of Pediatrics, Jichi Medical University, Tochigi, Japan, ²Department of Clinical Biology and Hormonal Regulation, Tohoku University Graduate School of Medicine, Sendai, Japan)

E-009 Altered mTOR signaling in patients with SZT2-related neurological disease
Yuji Nakamura¹, Naomi Tsuchida², Kohji Kato¹, Daisuke Ieda¹, Ikumi Hori¹, Ayako Hattori¹, Naomichi Matsumoto², Shintaro Itoh¹
(¹Department of Pediatrics and Neonatology, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan, ²Department of Human Genetics, Yokohama City University Graduate School of Medicine)

E-010 Movement disorders and/or epileptic encephalopathies due to GNAO1 mutation: a four case report
Hiroya Nishida¹, Satoko Kumada¹, Kohei Hamanaka², Satoko Miyatake², Tadashi Kaname², Yusuke Okuno², Hideki Muramatsu³, Koichir Maruyama³, Mana Kurihara³, Takeshi Tsuji³, Kenji Inoue³, Hideaki Mashimo³, Atsuko Arisaka³, Mitsumasa Fukuda³, Naomichi Matsumoto²
(¹Department of Neuropediatrics, Tokyo Metropolitan Neurological Hospital, Tokyo, Japan, ²Department of Human Genetics, Yokohama City University Graduate School of Medicine, Kanagawa, Japan, ³Department of Genome Medicine National Center for Child Health and Development, Tokyo, Japan, ⁴Center for Advanced Medicine and Clinical Research, Nagoya University Hospital, Aichi, Japan, ⁵Department of Pediatrics, Nagoya University Graduate School of Medicine, Nagoya, Japan, ⁶Department of Pediatric Neurology, Aichi Developmental Disability Center, Aichi, Japan, ⁷Department of Pediatrics, Kanagawa Rehabilitation Hospital, Kanagawa, Japan, ⁸Department of Neuropediatrics, Okazaki City Hospital, Aichi, Japan)

E-011 MYCN de novo gain-of-function mutation in a patient with a novel megalencephaly syndrome
Kohji Kato¹,²,³, Fuyuki Miya³,², Nanako Hamada³, Yutaka Negishi³, Yoko Narumi-Kishimoto³, Hiroshi Ozawa³, Hidenori Ito³, Ikumi Hori¹, Ayako Hattori¹, Yoshiyuki
Takahashi, Koh-Ichi Nagata, Shinji Saitoh
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E-012 Clinical, genetic, and biochemical analyses for PI3K-AKT-mTOR pathway-associated megalencephaly
Ikumi Hori, Fuyuki Miya, Yuji Nakamura, Daisuke Ieda, Yutaka Negishi, Ayako Hattori, Tatsuhiko Tsunoda, Yonehiro Kanemura, Kenjiro Kosaki, Shinji Saitoh
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English session 3
Chair: Hideo Yamanouchi (Saitama Medical University, Pediatrics), Shinichi Hirose (Department of Pediatrics, Fukuoka University)

English session Award 2
E-013 Structural classification feature in children with ADHD using machine learning approach
Yoshifumi Mizuno, Minyoung Jung, Takashi Fujisawa, Shinichiro Takiguchi, Hirotaka Kosaka, Akemi Tomoda
(1.The Department of Child and Adolescent Psychological Medicine, University of Fukui Hospital, Fukui, Japan, 2.Research Center for Child Mental Development, University of Fukui, Japan, 3.United Graduate School of Child Development, Osaka University, Kanazawa University, Hamamatsu University School of Medicine, Chiba University and University of Fukui, Fukui, Japan, 4.Dept of Neuropsychiatry, University of Fukui, Japan)

E-014 Combination of LysoSM, 7-KC and bile acid W-408 for diagnosis of Japanese patients with NPC
Chen Wu, Takeo Iwamoto, Keiko Akiyama, Takashi Miyajima, Junko Igarashi, Mohammad Arif Hossain, Yoshikatsu Eto
(1.Advanced Clinical Research Center, Institute of Neurological Disorders, Kawasaki, Kanagawa, Japan, 2.Rare Disease Research Center, AnGes Inc., Kawasaki, Kanagawa, Japan, 3.The Jikei Hospital School of Medicine, 4.Core Research Facilities for Basic Science, Molecular Cell Biology, The Jikei University School of Medicine, Tokyo, Japan)

E-015 Individual classification of ADHD with and without ASD using fNIRS on effect of methylphenidate
Takahiro Ikeda, Yukifumi Monden, Tatsuya Tokuda, Masako Nagashima, Hideo Shimoizumi, Ippeita Dan, Takanori Yamagata

E-016 Factors of recurrence seizure in complex type febrile seizure
Yayoi Murano, Tomoyuki Nakazawa, Kuniyoshi Hayashi, Nahoko Teshima, Reina Mayumi, Kana Yazaki, Karin Ohshima, Hiroyuki Yamada, Nao Miyazaki, Akihisa Okumura, Toshiaki Shimizu
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Aichi, Japan)

E-017 Study of transiently reduced cortical diffusion after prolonged febrile seizure
Takeshi Suzuki1, Hiroyuki Kidokoro1, Tetsuo Kubota2, Tatsuya Fukasawa2, Ryosuke Suzuki1, Takeshi Tsuji3, Toru Kato3, Yutaka Negishi1, Hiroyuki Yamamoto1, Atsuko Ohno4, Tomohiko Nakata4, Shinji Saitoh4, Akihisa Okumura5, Jun Natsume1
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E-018 Reduction of hippocampal volume due to HHV-6B reactivation in pediatric HSCT recipients.
Misa Miyake1, Naoko Ishihara1, Jun Natsume2, Shigetaka Suzuki3, Yoshiki Kawamura1, Hiroki Miura1, Fumihiko Hattori1, Yoshiyuki Takahashi2, Seiji Kojima2, Hiroshi Toyama4, Tetsushi Yoshikawa1
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English session 4
Chair: Yuka Ishikawa (Department of Pediatrics, Yakumo National Hospital), Yasuhiro Takeshima (Department of Pediatrics, Hyogo College of Medicine)

Nerve / Muscular disease

E-019 Safety and effectiveness of nusinersen in SMA type 2 and 3: Assessment of the real world data
Yuko Motohashi1, Hiroyuki Yajima2, Akihiko Ishiyama1, Eri Takeshita1, Yoko Kobayashi2, Hirofumi Komaki1, Masayuki Sasaki1
(1.National Center of Neurology and Psychiatry, Department of Child Neurology, Tokyo, Japan, 2.National Center of Neurology and Psychiatry, Department of Rehabilitation, Tokyo, Japan)

E-020 FIREFISH Part 1: 1-year motor function results in infants with Type 1 spinal muscular atrophy (SMA)
Laurent Servais1,2, Giovanni Baranello3, John W. Day4, Nicolas Deconinck5, Eugenio Mercui1, Andrea Klein1, Basil Derras8, Riccardo Masson1,2, Heidemarie Kletzl9, Muna El-Khairy10, Timothy Seabrook10, Marianne Gerber9, Ksenija Gorni10, Omar Khwaja1
(1.Institute of Myology, Paris, France, 2.Reference Center for Neuromuscular Disease, Centre Hospitalier Régional de La Citadelle, Liège, Belgium, 3.Carlo Besta Neurological Research Institute Foundation, Developmental Neurology Unit, Milan, Italy, 4.Department of Neurology, Stanford University, Palo Alto, CA, USA, 5.Queen Fabiola Children’s University Hospital, Université Libre de Bruxelles, Brussels, Belgium; Neuromuscular Reference Center UZ Ghent; Ghent, Belgium, 6.Paediatric Neurology, Stanford University, Palo Alto, CA, USA, 7.Department of Pediatrics, Queen Fabiola Children’s University Hospital, Université Libre de Bruxelles, Brussels, Belgium; Neuromuscular Reference Center UZ Ghent; Ghent, Belgium, 8.Boston Children’s Hospital, Catholic University and Policlinico Gemelli, Rome, Italy, 7.University Children’s Hospital Basel, Basel, Switzerland; Inselspital, Bern, Switzerland, 8.Boston Children’s Hospital, Harvard Medical School, Boston, MA, USA, 9.Roche Pharmaceutical Research and Early Development, Roche Innovation Center Basel, Basel, Switzerland, 10.Roche Products Ltd, Welwyn Garden City, UK)

E-021 FIREFISH Part 1: 1-year event-free survival and swallowing ability in infants with Type 1 SMA
Timothy Seabrook1, Laurent Servais2,3, Giovanni Baranello4, John W. Day5, Nicolas Deconinck5, Eugenio Mercui1, Andrea Klein1, Basil Derras8, Riccardo Masson2,3, Heidemarie Kletzl9, Muna El-Khairy10, Marianne Gerber9, Ksenija Gorni10, Omar Khwaja1
and Nemo Center, Catholic University and Policlinico Gemelli, Rome, Italy, 8.University Children’s Hospital Basel, Basel, Switzerland; Inselpital, Bern, Switzerland, 9.Boston Children’s Hospital, Harvard Medical School, Boston, MA, USA, 10.Roche Products Ltd, Welwyn Garden City, UK)

E-022 AVXS-101 Gene Replacement for Spinal Muscular Atrophy Type 1 (SMA1): Pivotal Study (STR1VE) Update
(1.Stanford University Medical Center, Stanford, CA, USA, 2.Columbia University Medical Center, New York, NY, USA, 3.Johns Hopkins Medicine, Baltimore, MD, USA, 4.Nemours Children’s Hospital, Orlando, FL, USA, 5.Tokyo Womens Medical University, Tokyo, Japan, 6.Complete author list will be included at presentation, 7.AveXis, Inc., Bannockburn, IL, USA, 8.Center for Gene Therapy Nationwide Childrens Hospital, Columbus, OH, USA)

E-023 A Phase 1b/2 study of RG6206 (BMS-986089) in boys with Duchenne muscular dystrophy: 72-week update

E-024 Clinicopathology of muscle-specific Dag1 knockout mice and effects of systemic transduction with AAV
Takahiro Yonekawa, Sara El-Hattab, Kevin P. Campbell
(1.Howard Hughes Medical Institute, Department of Molecular Physiology and Biophysics, Department of Neurology, University of Iowa Roy J. and Lucille A. Carver College of Medicine, IA, USA, 2.Department of Pediatrics, Mie University Graduate School of Medicine, Mie, Japan)

English session 5
Chair: Toshiki Takenouchi (Department of Pediatrics, Keio University School of Medicine), Hitoshi Osaka (Department of Pediatrics, Jichi Medical University)
Genetics / Genetic abnormality
E-025 Utilization of Juvenility-associated Genes for Treating Pediatric Neurological Diseases
Masaki Mori, Takao Morimune, Yousuke Kadota, Faidruz Azuma, Ikumi Tano, Yuya Tanaka, Haruka Takita, Sayumi Akabane, Mayu Fukumura
(1.Molecular Neuroscience Research Center (MNRC), Shiga University of Medical Science, Japan, 2.Department of pediatrics, Shiga University of Medical Science, Japan)

E-026 Genetic analysis for Prader-Willi-like syndrome
Daisuke Ieda, Kohji Kato, Yuji Nakamura, Ikumi Horii, Kei Ohashi, Yutaka Negishi, Ayako Hattori, Saitoh Shinji
(1.Department of Pediatrics and Neonatology, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan, 2.Department of Pediatrics, Nagoya University Graduate School of Medicine, Nagoya, Japan)

E-027 Severe mitochondrial neurogastrointestinal encephalomyopathy caused by DNA ligase enzyme deficiency
Mariko Taniguchi-Ikeda, Makiko Tsutsumi, Yoshinobu Oyazato, Atsushi Nishiyama, Shunpei Uchino, Masakazu Mimaki, Hiroki Kurahashi
(1.Department of Clinical Genetics, Fujita Health University Hospital, Aichi, Japan, 2.Department of Molecular Genetics, Fujita Health University, Aichi, Japan, 3.Department of Pediatrics, Kakogawa Central City Hospital, Hyogo, Japan, 4.Department of Pediatrics, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan, 5.Department of Pediatrics, Teikyo University Graduate School of Medicine, Tokyo, Japan)
E-028 The Value of AVXS-101 Gene-Replacement Therapy (GRT) for Spinal Muscular Atrophy Type 1 (SMA1)
Omar Dabbous, Douglas M. Sproule, Douglas E. Feltner, Marcus Droge, Farid Khan, Ramesh Arjunji (AveXis, Inc., Bannockburn, Illinois, USA)

E-029 Novel IARS2 mutations in Japanese siblings with CAGSSS, Leigh, and West syndrome
Yusuke Takezawa1, Hiromi Fujie2, Atsuo Kikuchi3, Tetsuya Niihori4, Ryo Funayama4, Matsuyuki Shirota5, Keiko Nakayama6, Yoko Aoki2, Masayuki Sasaki7, Shigeo Kure1
(1.Department of Pediatrics, Tohoku University School of Medicine, 2.Department of Pediatrics, Iwaki Kyoritsu General Hospital, Fukushima, Japan, 3.Department of Medical Genetics, Tohoku University School of Medicine, Sendai, Japan, 4.Division of Cell Proliferation, United Centers for Advanced Research and Translational Medicine, Tohoku University Graduate School of Medicine, 5.Division of Interdisciplinary Medical Sciences, United Centers for Advanced Research and Translational Medicine, Tohoku University Graduate School of Medicine, 6.Department of Child Neurology, National Center of Neurology and Psychiatry, Tokyo, Japan)

E-030 Establishment of Gorlin syndrome model by induced neural progenitor cells
Hajime Ikehara1,2, Katsunori Fuji2, Toshiyuki Miyashita3, Tomoko Uchida4, Tadashi Shiohama5, Hideki Uchikawa4, Naoki Shimojo4, Akihiro Umezawa1
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English session 6
Chair: Hideaki Shiraishi (Department of Pediatrics, Hokkaido University Hospital Epilepsy Center), Jun Tohyama (Department of Child Neurology, Nishi-Niigata Chuo National Hospital)

Seizure / Electrophysiology / Newborn
E-031 Application of Ketogenic therapy in treatment of drug-resistant epilepsy due to Alexander disease
Shu Hamada1, Mariko Shinohara1, Kengo Kohra1, Minako Ide1, Takayuki Tanaka2, Tomokatsu Yoshida3, Takeo Kato3
(1.Department of Pediatric Neurology, Hyogo Prefectural Amagasaki General Medical Center, Amagasaki, Hyogo, Japan, 2.Department of Pediatrics, Kyoto University Graduate School of Medicine, Kyoto, Japan, 3.Department of Neurology, Kyoto Prefectural University of Medicine, Kyoto, Japan)

E-032 Clinical analysis of complex febrile seizure caused by primary infection of human herpesvirus 6B
Yoshiki Kawamura, Misa Miyake, Soichiro Ishimaru, Naoko Ishihara
(Department of Pediatrics, Fujita Health University School of Medicine, Toyoake, Japan)

E-033 Assessment of usability of passive functional mapping for children
Takumi Mitsushashi, Hidenori Sugano, Madoka Nakajima, Takuma Higo, Yasushi Iimura, Hiroharu Suzuki, Kaito Kawamura, Hajime Arai1
(Department of Neurosurgery, Juntendo University, Tokyo, Japan)

E-034 Analysis of phase-amplitude coupling in scalp EEG for focal and generalized onset epileptic spasms
Yasushi Iimura1, Hidenori Sugano1, Hiroharu Suzuki1, Takumi Mitsushashi1, Tetsuya Ueda1, Hiroshi Otsubo1, Hajime Arai1
(1.Department of Neurosurgery, Juntendo University, Tokyo, Japan, 2.Division of Neurology, The Hospital for Sick Children, Toronto, Canada)

E-035 Sleep improvement by growth hormone by quantitative analysis of overnight electroencephalography.
Noboru Yoshida1, Tomoyuki Nakazawa2, Shinichi Niijima1
(1.Pediatrics division, Juntendo University nerima Hospital, Tokyo, Japan 2.Toshima Hospital, Tokyo, Japan)

E-036 Was caffeine associated with irritable behaviour in preterm infants?
Tomoki Maeda, Kazuhiro Sekiguchi, Mizuho Takahashi, Kazuo Okanari
(Department of Pediatrics, oita University, Oita, Japan)
English session 7

Chair: Norimichi Higurashi (Department of Pediatrics, Jikei University School of Medicine), Ayataka Fujimoto (Seirei Hamamatsu General Hospital)

Epilepsy

E-037 Pre-clinical study of the CDKL5 gene replacement therapy tested on the Cdkl5 knockout mouse
Teruyuki Tanaka1, Zheng Elizabeth1, Shin-Ichi Muramatsu2, Masashi Mizuguchi1
(1. Department of Developmental Medical Sciences, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan, 2. School of Medicine, Jichi Medical University, Tochigi, Japan)

E-038 Expanding the phenotype of IQSEC2-related epilepsy: suppression burst pattern and VPA exacerbations
Tatsuro Izumi (Department of Pediatrics and Child Neurology, Nanao National Hospital, Ishikawa, Japan)

E-039 Effective antiepileptic drugs for refractory focal seizures are different by precise seizure symptom
Kenji Sugai1,2,3, Takashi Saito2, Eiji Nakagawa2, Eri Takeshita2, Yuko Motohashi-Imizu4, Akihiko Ishiyama4, Hirofumi Komaki5, Masayuki Sasaki6
(1. Clinical Department, Soleil Kawasaki Medical Center for the Handicapped, Kawasaki, Japan, 2. Department of Child Neurology, National Center of Neurology and Psychiatry, Kodaira, Japan, 3. Department of Pediatrics, St. Marianna University School of Medicine, Kawasaki, Japan)

E-040 Language development after surgery of the posterior cortex in children with refractory epilepsy
Tomonori Ono1, Ryoko Honda1, Yoshiaki Watanabe1, Kaoru Ishida2, Miwako Wada2, Rika Koshimoto2, Kohei Adachi2, Shiro Baba1, Keisuke Toda2, Hiroshi Baba2
(1. Epilepsy Center, National Nagasaki Medical Center, Omura, Nagasaki, Japan, 2. Clinical psychology, National Nagasaki Medical Center, Omura, Nagasaki, Japan, 3. Department of Psychology, Faculty of Humanities, Nagasaki Junshin Catholic University, Nagasaki, Japan, 4. Department of Neurosurgery, Nagasaki University School of Medicine, Nagasaki, Japan, 5. Department of Neurosurgery, National Nagasaki Kawatana Medical Center, Kawatana, Nagasaki, Japan, 6. Epilepsy Center, Nishiisahaya Hospital, Isahaya, Nagasaki, Japan)

E-041 The effectiveness of everolimus for intractable seizures with tuberous sclerosis complex
Tohru Okanishi1, Ayataka Fujimoto2, Shinji Itamura1, Shimpei Baba1, Hideo Enoki1
(1. Department of Child Neurology, Seirei-Hamamatsu General Hospital, 2. Department of Epilepsy and Surgery, Seirei Hamamatsu General Hospital/Shizuoka, Japan)

E-042 Risk factors of sudden unexpected death in epilepsy from heart rate variability in epilepsy children
Kazuo Okanari, Osamu Kobayashi, Tomoki Maeda (Department of Pediatrics, Oita University Faculty of Medicine, Oita, Japan)

Oral Presentation 1

Chair: Eiji Nakagawa (Department of Child Neurology, National Center, National Center Hospital of Neurology and Psychiatry), Yushihiro Yamashita (Department of Pediatrics & Child Health, Kurume University School of Medicine)

Oral session Award 1

O-001 A novel therapeutic strategy for genetic splicing defects using small molecule compounds.
Tomonari Awaya1,2, Chizuru Tsuzuki1, Masahiko Ajiro1,2, Megumu Saito1, Masatoshi Hagiwara1
(1. Department of Anatomy and Developmental Biology, Kyoto University, Kyoto, Japan, 2. Translational Research Department for Skin and Brain Diseases, Kyoto University, Kyoto, Japan, 3. Department of Drug Discovery Medicine, Kyoto University, Kyoto, Japan, 4. Department of Clinical Application, Center for iPS Cell Research and Application, Kyoto University, Kyoto, Japan)

O-002 The neuroanatomical and developmental outcomes of school-age children with congenital heart disease
Akiko Hiraia1, Yukako Kawasaki1, Syouhei Kusabiraki1, Tomomi Tanaka1, Keijirou Ibuki1, Sayaka Ozawa1, Keiichi Hirono1, Kazushi Miya2, Mie Matsu1, Naoki Yoshimura1,
Kennichi Ooishi\textsuperscript{5}, Fukiko Ichida\textsuperscript{1}, Yuuichi Adahi\textsuperscript{1}

(1.Department of Pediatrics, Faculty of Medicine, University of Toyama, Toyama, Japan, 2.Department of educational sciences, Faculty of Human development, University of Toyama, Toyama, Japan, 3.Laboratory of Clinical Cognitive Neuroscience, Institute of Liberal Arts and Science, University of Kanazawa, Kanazawa, Japan, 4.Division of Surgery, Faculty of Medicine, University of Toyama, Toyama, Japan, 5.The Russell H. Morgan Department of Radiology and Radiological Science, The Johns Hopkins University School of Medicine, Maryland, USA)

O-003 Combined genetic analyses for autism spectrum disorder
Kei Ohashi\textsuperscript{1,2}, Masahide Gotou\textsuperscript{1}, Noriko Miyake\textsuperscript{1}, Naomichi Matsumoto\textsuperscript{2}, Takanori Yamagata\textsuperscript{3}, Shinji Saitoh\textsuperscript{1}

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O-004 Quantitative assessment of fine motor development in children using magnetic sensors
Takashi Enokizono\textsuperscript{1}, Tastuyuki Ohto\textsuperscript{1}, Mai Tanaka\textsuperscript{1}, Kazushi Maruo\textsuperscript{2}, Hidetoshi Takada\textsuperscript{1}

(1.Department of Pediatrics, University of Tsukuba, Ibaraki, Japan, 2.Department of Clinical Trial and Clinical Epidemiology, University of Tsukuba, Ibaraki, Japan)

O-005 Clinical features who visited outpatient service for dyslexia
Yuki Sekido, Tatsuya Koeda (Department of Psychosocial Medicine, National Centre for Child Health and Development, Tokyo, Japan)

O-006 Analysis of granzyme B in CSF collected from 38 Rasmussen syndrome patients
Masataka Fukuoka\textsuperscript{1}, Yukitoshi Takahashi\textsuperscript{1,2,3}, Tetsuhiro Fukuyama\textsuperscript{1}, Shigeko Nishimura\textsuperscript{1}, Emiko Takao\textsuperscript{1}, Risa Kasai\textsuperscript{1}, Kaoru Enokida\textsuperscript{1}, Yushi Inoue\textsuperscript{1}

(1.National Epilepsy Center, Shizuoka Institute of Epilepsy and Neurological Disorder, Shizuoka, Japan, 2.Department of Pediatrics, Gifu University School of Medicine, Japan, 3.Department of Pharmacy, University of Shizuoka, Japan)

Oral Presentation 2
Chair: Katsuhiro Kobayashi (Department of Child Neurology, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences), Masayuki Sasaki (Department of Child Neurology, National Center of Neurology and Psychiatry)

Oral session Award 2
O-007 Clinical experience of Nusinersen treatment for SMA.
Sachi Tokunaga, Hideki Shimomura, Chikako Mure, Tomato Lee, Yasuhiro Takeshima (Department of Pediatrics, Hyogo College of Medicine, Hyogo, Japan)

O-008 The consideration of neurodevelopmental disability in Duchenne muscular dystrophy
Yoshihiko Saito\textsuperscript{1,2}, Eri Takeshita\textsuperscript{1}, Yuko Motohashi\textsuperscript{1}, Akihiko Ishiyama\textsuperscript{1}, Hirofumi Komaki\textsuperscript{1}, Masayuki Sasaki\textsuperscript{1}

(1.Department of Child Neurology, National Center Hospital, National Center of Neurology and Psychiatry, Tokyo, Japan, 2.Department of Neuromuscular Research, National Institute of Neuroscience, National Center of Neurology and Psychiatry, Tokyo, Japan)

O-009 Neurocognitive functions of AESD with unilateral cerebral hemisphere lesion
Megumi Nukui\textsuperscript{1,2}, Naohiro Yamamoto\textsuperscript{1}, Shizuka Nagase\textsuperscript{1}, Takeshi Inoue\textsuperscript{1}, Ichiro Kuki\textsuperscript{1}, Shin Okazaki\textsuperscript{1}, Kiyoko Amo\textsuperscript{1}, Masao Togawa\textsuperscript{1}, Hisashi Kawawaki\textsuperscript{1}

(1.The department of Pediatric Neurology, Osaka City General Hospital, Osaka, Japan, 2.Department of Pediatric Neurology, Osaka City General Hospital, Osaka, Japan, 3.Department of Pediatric Neurology, Osaka City General Hospital, Osaka, Japan)

O-010 Incidence of AESD and late reduced diffusion in children with prolonged febrile convulsions
Fumio Ichinose\textsuperscript{1}, Toshiyuki Maeda\textsuperscript{1}, Naoya Higuchi\textsuperscript{1}, Takuku Nakamura\textsuperscript{1}, Keiko Uda\textsuperscript{2}, Daisuke Tajima\textsuperscript{1}, Muneaki Matsumo\textsuperscript{1}

(1.Department of Pediatrics, Faculty of Medicine, Saga University, Saga, Japan, 2.Saga-Ken Medical Center Koseikan, Saga, Japan, 3.National Hospital Organization Ureshino Medical center, Ureshino, Saga, Japan, 4.Karatsu Red Cross Hospital, Saga, Japan)
O-011  
**123**I-IMP SPECT and **123**I-IMZ SPECT findings in autoimmune mediated encephalitis  
Yuko Hirata, Shin-Ichiro Hamano, Reiko Koichihara, Ryuki Matsuura, Satoru Ikemoto, Atsuro Daida, Hazuki Nonoyama, Yukitoshi Takahashi  
(1.Saitama Children’s Medical Center, Saitama, Japan, 2.National Epilepsy Center, Shizuoka Institute Epilepsy and Neurological Disorders, Shizuoka, Japan)

O-012 Analysis of human herpesvirus in patients suspected central nervous system infection  
Soichiro Ishimaru, Yoshiki Kawamura, Kei Kozawa, Hiroki Miura, Naoko Ishihara, Sayuri Shima, Tatsuro Muto, Tetushi Yoshikawa  
(1.Department of pediatrics, Fujita Health University, School of Medicine, Toyoake, Japan, 2.Department of Neurology, Fujita Health University, School of Medicine, Toyoake, Japan)

**Oral Presentation 3**

Chair: Mitsuru Kashiwagi (Department of Pediatrics, Hirakata City Hospital), George Imataka (Department of Pediatrics, Dokkyo Medical University)

**Acute encephalopathy 1**

O-013 Utility of amplitude integrated EEG in pediatric neurological emergency cases  
Ippei Hidaka, Fumitaka Kouno, Hirofumi Inoue, Momoko Oka, Madoka Hoshide, Takeshi Matsushige, Shunji Hasegawa  
(1.Yamaguchi University Graduate School of Medicine Department of Pediatrics, Yamaguchi, Japan)

O-014 Efficacy and safety of midazolam coma therapy for status epilepticus in children  
Yusuke Ishida, Kazumi Tomioka, Tsuksa Tanaka, Masahiro Nishiyama, Hiroaki Nagase, Shouichi Tokumoto, Hiroshi Yamaguchi, Daisaku Toyoshima, Azusa Maruyama, Hiroshi Kurosawa, Kazumoto Iijima  
(1.Department of Pediatrics, Kobe University Graduate School of Medicine, Kobe, Japan, 2.Department of Neurology, Hyogo Prefectural Kobe Children’s Hospital, Kobe, Japan, 3.Department of Pediatric Critical Care Medicine, Hyogo Prefectural Kobe Children’s Hospital, Kobe, Japan)

O-015 Short-term prognosis of therapeutic protocol change of febrile refractory status epilepticus  
Shoichi Tokumoto, Hiroshi Yamaguchi, Daisaku Toyoshima, Azusa Maruyama, Yusuke Ishida, Kazumi Tomioka, Tsuksa Tanaka, Masahiro Nishiyama, Hiroaki Nagase, Kazumoto Iijima  
(1.The Department of Neurology, Hyogo Prefectural Kobe Children’s Hospital, Kobe, Japan, 2.The Department of Pediatrics, Kobe University Graduate School of Medicine, Kobe, Japan)

O-016 Hypoxic Encephalopathy with a Similar Course to AESD  
Shuhei Fujino, Asami Itoh, Hiromi Suzuki, Yoshikazu Kitami, Eri Ogawa, Naoki Shimizu, Sahoko Miyama  
(1.Department of Neurology, Tokyo Metropolitan Children’s Medical Center, Tokyo, Japan, 2.Department of Pediatrics, Hiratsuka City Hospital, Kanagawa, Japan, 3.Department of Intensive Care, Tokyo Metropolitan Children’s Medical Center, Tokyo, Japan)

O-017 The determinant of outcome among 34 cases of acute encephalopathy with bright tree appearance on MRI  
Kensuke Sakata, Go Kawano, Takaoki Yokochi, Toru Imagi, Yukihiro Akita, Keizo Ohbu, Toyojiro Matsuishi (Pediatrics, St Mary’s Hospital)

O-018 An autopsy case of acute encephalopathy with biphasic seizures and late reduced diffusion  
Yuka Murofushi, Kumi Yasukawa, Kentaro Sano, Yuri Shirato, Yoko Moriyama, Ayako Muto, Atsuko Masunaga, Hiroshi Sakuma, Masaharu Hayashi, Jun-Ichi Takanashi  
(1.Department of Pediatrics, Tokyo Women’s Medical University Yachiyo Medical Center, Yachiyo, Japan, 2.Department of pathology, Tokyo Women’s Medical University Yachiyo Medical Center, Yachiyo, Japan, 3.Department of Brain Development and Neural Regeneration, Tokyo Metropolitan Institute of Medical Science, Tokyo, Japan)

**Oral Presentation 4**

Chair: Hiroko Tada (Division of Pediatrics, Chibaken Saiseikai Narashino Hospital), Toshiyuki Seto (Department of Pediatrics, Osaka City University Graduate School of
Acute encephalopathy 2

O-019 Trends in incidence of acute encephalopathy with bright tree appearance: second report

Yuki Maki,1 Masahiro Kawaguchi,1 Takeshi Suzuki,1 Masaharu Tanaka,1 Yu Okai,1 Yoko Sakaguchi,1 Hiroyuki Yamamoto,1 Tomohiko Nakata,1 Yutaka Negishi,2,3 Tatsuya Fukasawa,1 Hiroyuki Kidokoro,1 Akihisa Okumura,1 Shinji Saito,3 Jun Natsume3,11

(1.Department of Pediatrics, Nagoya University Graduate School of Medicine, Nagoya, Japan, 2.Department of Pediatrics, Gifu Prefectural Tajimi Hospital, Tajimi, Japan, 3.Department of Neonatology and Pediatrics, Nagoya City University Graduate School of Medicine, Nagoya, Japan, 4.Department of Pediatrics, Anjo Kosei Hospital, Anjo, Japan, 5.Department of Pediatrics, Aichi Medical University, Nagakute, Japan, 6.Department of Disability Medicine, Nagoya University Graduate School of Medicine, Nagoya, Japan)

O-020 Review of death case due to acute encephalopathy.

Masaharu Tanaka,1 Masahiro Kawaguchi,1 Takeshi Suzuki,1 Yuki Maki,1 Yu Okai,1 Yoko Sakaguchi,1 Hiroyuki Yamamoto,1 Tomohiko Nakata,1 Hiroyuki Kidokoro,1 Tatsuya Fukasawa,1 Yutaka Negishi,2 Akihisa Okumura,1 Shinji Saito,3 Jun Natsume3,11

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O-021 Risk factors of the prognosis in acute encephalopathy encephalitis in Fukushima prefecture

Yukihiko Kawasaki, Yuichi Suzuki, Maki Nodera, Asako Kato, Mitsuaki Hosoya

(The department of Pediatrics, Fukushima Medical University School of Medicine)

O-022 Prognosis of acute encephalopathy in Tokyo Metropolitan Bokutoh Hospital

Ryutaro Yamada1, Masahiro Ito2, Hisamitsu Tamaki1

(1.Tokyo Metropolitan Bokutoh Hospital, Tokyo, Japan, 2.Tokyo, Japan)

O-023 Acute encephalopathy/refractory status epilepticus in children with tuberous sclerosis complex

Shingo Numoto,1 Hirokazu Kurahashi,1 Hideyuki Iwayama1, Atsushi Sato2, Masaya Kubota3, Takashi Shihara4, Toru Okanishi5, Ryuta Tanaka6, Ichiro Kuki7, Tetsuhiro Fukuyama8, Akihisa Okumura1

(1.Department of Pediatrics, Aichi Medical University, 2.Department of Pediatrics, Tokyo University Graduate School of Medicine, 3.Department of Neurology, National Center for Child Health and Development, 4.Department of Neurology, Gunma Children's Medical Center, 5.Department of Child Neurology, Seirei Hamamatsu General Hospital, 6.Ibaraki Children's Hospital, 7.Department of Pediatric Neurology, Osaka City General Hospital, 8.Department of Neurology, Nagano Children's Hospital)

O-024 Acute encephalopathy/refractory status epilepticus in children with tuberous sclerosis complex

Shingo Numoto1, Hirokazu Kurahashi1, Hideyuki Iwayama1, Atsushi Sato2, Masaya Kubota3, Takashi Shihara4, Toru Okanishi5, Ryuta Tanaka6, Ichiro Kuki7, Tetsuhiro Fukuyama8, Mitsuru Kashiwagi9, Akihisa Okumura1

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Oral Presentation 5

Chair: Tomohide Goto (Department Neurology, Kanagawa Children's Medical Center), Yusaku Miyamoto (Division of Pediatric, Kawasaki Municipal Tama Hospital, St. Marianna University School of Medicine)

Epilepsy: Social issues

O-025 Optimal doses of H1 antihistamines do not increase susceptibility to febrile convulsions in children

Kousuke Yonemoto,1 Hiroshi Koga2, Yasunari Sakai1, Kazuo Okanari3, Masafumi
Sanefuji¹, Yoshito Ishizaki¹, Michiko Torio¹, Yuko Ichimiya¹, Yuri Sonoda¹, Shouichi Ohga¹
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O-026  Correlation between menstrual cycle dysfunction with epileptic women and antiepileptic drugs
Mieko Yoshioka (Department of Pediatric Neurology, Kobe City Pediatric and General Rehabilitation Center for the Challenged, Kobe, Hyogo, Japan)

O-027  Seizures of children presenting to emergency department in the resource-limited area
Anna Shiraki¹, Masahiro Yasui¹, Shinji Kido¹, Hideo Ando¹, Hiroyuki Kidokoro², Jun Natsume²
(¹.Pediatrics, Nakatsugawa Municipal General Hospital, Nakatsugawa, Japan, ².Pediatrics, Nagoya University Hospital, Nagoya, Japan)

O-028  Prevalence of childhood convulsive disorder in Yamanashi prefecture
Sonoko Mizorogi¹,², Hideaki Kanemura¹, Masao Aihara³
(¹.Department of Pediatrics, University of Yamanashi, Yamanashi, Japan, ².Department of Health Sciences, University of Yamanashi, Yamanashi, Japan, ³.Faculty of Medicine, Graduate school, University of Yamanashi, Yamanashi, Japan)

O-029  Effects of transitional care for children with neurological disease: A secondary analysis of RCT
Seigo Suzuki¹, Atsushi Satou¹, Mayumi Nakamura¹,², Asuka Kobayashi¹,², Miwa Iwasaki¹, Yoichiro Hira⁵, Sachiko Kita¹,², Iori Sato¹,², Kiyo Kamibeppu¹,²
(¹.Tokyo Medical University, Tokyo, Japan, ².Department of Health Quality and Outcome Research, Global Nursing Research Center, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan, ³.Department of Pediatrics, The University of Tokyo Hospital, Tokyo, Japan)

O-030  A survey on utilization status of social welfare services for pediatric patients with epilepsy
Junko Umeno¹,², Fumika Endoh¹, Katsuhiro Kobayashi¹
(¹.Department of Child Neurology, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences,Okayama,Japan, ².Faculty of Welfare and Information, Tokuyama University, Yamaguchi, Japan)

Oral Presentation 6
Chair: Hideaki Kanemura (Department of Pediatrics, Faculty of Medicine, University of Yamanashi), Atsushi Kamei (Department of Pediatrics, School of Medicine, Iwate Medical University)

Epilepsy: Diagnosis

O-031  Two cases of juvenile myoclonic epilepsy presenting with myoclonic status epileptics
Akane Tominaga¹, Tatsuharu Sato¹, Atsushi Shimasaki¹, Takuya Hayashida¹, Nanako Nishiguchi¹, Hiroyuki Moriuchi¹, Miki Inutsuka²
(¹.Department of Pediatrics, Nagasaki University Hospital, Nagasaki, Japan, ².Department of Pediatrics, Sasebo Chuo Hospital, Sasebo, Japan)

O-032  A 4 years old boy presented the eating provoked late-onset epileptic spasms: case report.
Masatoshi Nogita¹, Mitsuru Ikeno¹, Shinpei Abe¹, Tomoyuki Nakazawa⁵, Shinichi Niijima⁵, Toshiaki Shimizu¹
(¹.Department of Pediatrics, Juntendo University, Tokyo, Japan, ².TOSHIMA Hospital, Tokyo, Japan, ³.Department of Pediatrics, Juntendo University Nerima Hospital, Tokyo, Japan)

O-033  A case with focal epilepsy presenting astatic seizures
Motomasu Suzuki, Yasuko Kojima, Mahito Aobe, Yusuke Aoki, Kazuya Itomi (Department of Pediatric Neurology, Aichi Children’s Health and Medical Center)

O-034  Two cases of SCN8A-related epilepsy with characteristic involuntary movement.
Kenji Inoue¹, Hideaki Mashimo¹, Satoko Kumada¹, Konomi Shimoda¹, Naomi Tsutida³, Kouhei Hamanaka¹, Satoko Miyatake¹, Naomichi Matsumoto¹, Mitsuhiro Kato¹, Mika Nakazawa¹, Mitsuru Ikeno⁵, Hiroya Nishida¹, Atsuko Arisaka¹, Mitsumasa Fukuda¹
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of Human Genetics, Yokohama City University Graduate School of Medicine, Yokohama, Japan, 4.Department of Pediatrics, Showa University, Tokyo, Japan, 5.Department of Pediatrics, San-ikukai Hospital, Tokyo, Japan, 6.Department of Pediatrics and Adolescent Medicine, Juntendo University Hospital, Tokyo, Japan)

O-035 Utility of long-term video-EEG monitoring to identify seizure type in epilepsy patients.
Yuichi Tateishi1,2, Nobutsune Ishikawa1,2, Hiroo Tani1,2, Yoshiyuki Kobayashi1,2, Masao Kobayashi1
(1.The Department of Pediatrics, University of Hiroshima, Hiroshima, Japan, 2.Epilepsy Center, University of Hiroshima, Hiroshima, Japan)

O-036 Advanced dynamic statistical parametric mapping for focal cortical dysplasia at bottom of sulcus
Midori Nakajima1,2, Yuuki Ueda1, Kiyoshi Egawa1, Ayako Ochi2, Hideaki Shirashi1, Hiroshi Otsubo7
(1.Department of Pediatrics, Hokkaido University Hospital, Sapporo, Hokkaido, Japan, 2.Division of Neurology, The Hospital for Sick Children, Toronto, ON, Canada)

Oral Presentation 7
Chair: Kenjiro Kikuchi (Department of Pediatrics, The Jikei University School of Medicine), Kuriko Shimono (United Graduate School of Child Development, Osaka University)

Epilepsy: Others

O-037 Language acquisition and cognition in patients with epileptic spasms
Yoshiko Iwata1,2,3, Kunihiro Shimono1,2,3, Rie Nakai1,3, Ryoko Hayashi1,3, Junpei Tanigawa1,2, Koji Tominaga1,2, Shin Nabatame1,2, Masako Taniike1,2, Keichi Ozono1,3
(1.Department of Pediatrics, Graduate School of Medicine, Osaka University, Osaka, Japan, 2.Department of Child Development, United Graduate School of Child Development, Osaka University, Osaka, Japan, 3.Osaka University Hospital Epilepsy Center)

O-038 West syndrome NHO-Japan 512 case early treatment study: long-term seizure outcome of 1st treatment
Yukitoshi Takahashi1,7, Jun Tohyama2,7, Tomoko Kirino3,7, Yumi Fujiwara3,7, Chizuru Ikeda4,7, Shigeki Tanaka4,7, Jyunya Takahashi6,7, Toshikiko Shinoki4,7, Hiroshi Shiraga7, Takushi Inoue1,7, Hiroshi Fujita7, Motoki Bonno7, Masayoshi Nagao7, Hideo Kaneko7, Yushi Inoue1,7

O-039 Effect of Vigabatrin on intractable epileptic spasms with underlying disorders other than TSC
Kento Shinrai1, Kouji Takahashi1, Yumie Tamura1, Akiko Haibara1, Tomohiro Nakayama1, Makoto Sutho1, Akimitsu Watanabe1
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O-040 A case of early myoclonic encephalopathy with a novel SCN1A mutation well responded to perampanel.
Hiroo Tani1,2, Nobutsune Isikawa1,2, Yoshiyuki Kobayashi1,2, Yuichi Tateishi1,2, Mitsuhiro Kato1, Naomichi Matsumoto4, Toshiyuki Itai1, Satoko Miyatake4, Masao Kobayashi1
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O-041 Apneic Seizure with Cardiac Asystole as Epileptic Ictal Manifestation: A Case Report
Kaori Sassa1,2, Katsuhiko Tabata1, Takeshi Koga1, Hideo Yamanouchi1,2
(1.Department of Pediatrics, Saitama Medical University Hospital, 2.Comprehensive Epilepsy Center, Saitama Medical University Hospital)

O-042 Supply problem in therapeutic milks including keton-formula for refractory epilepsy.
Tetsuya Ito, Kimitoshi Nakamura, Yuko Hamasaki, Shinobu Ida, Yukitoshi Takahashi,
Oral Presentation 8

Chair: Akio Nakai (Graduate School of Clinical Education & The Center for the Study of Child Development, Institute for Education, Mukogawa Women’s University), Junich Oki (Department of Pediatrics, Asahikawa-Kosei Hospital)

Autism spectrum disorder

O-043 The influence of Guanfacine treatment on Tympanic deep body temperature; Third report of biomarker.
Tomohiro Nakayama1,2, Haruka Ooguro1, Naoko Nakayama2, Kayo Tokaji1, Junko Nakayama1, Nobuaki Iwasaki1
(1.Department of Pediatrics, Ibaraki Prefectural University of Health Sciences, Ami, Japan, 2.Department of Pediatrics, Matsudo Clinic, Matsudo, Japan)

O-044 Research of ASD-Child Participating in Birth and Three-Generation Cohort Study of TMM Project
Tomoko Kobayashi1,2, Mika Kobayashi1, Chizru Yamanaka2, Shinichi Kuriyama2, Shigeo Kure1
(1.Center for the Child Cohort, Tohoku Medical Megabank Organization, Tohoku University, Sendai, Japan, 2.The Group of the Birth and Three-Generation Cohort, Tohoku Medical Megabank Organization, Tohoku University, Sendai, Japan)

O-045 A cohort study about autistic behavior by SRS-2 and preferential looking by Gaze Finder
Tatsuya Koeda1, Sawako Ooba2, Yoshihiro Maegaki3
(1.Department of Psychosocial Medicine, National Center for Child Health and Development, Tokyo, Japan, 2.Gradyate School of Medicine, Tottori University, Yonago, Japan, 3.Institute of Child neurology, Tottori University, Yonago, Japan)

O-046 Study of Trauma in Developmental Disorder from the Viewpoint of Developmental Trauma Disorder
Junichi Furusho1,2, Kozue Kobayashi2, Akira Houjyo, Mitsuhiro Kato2
(1.College of Education, Psychology and Human Studies, Department of Education, Aoyamagakuin University, Tokyo, Japan, 2.Department of Pediatrics, Showa University School of Medicine, Tokyo, Japan)

O-047 Evaluation of Brain perfusion in autistic brain. -Arterial spin labeling MRI study.-
Tatsuo Mori1, Hiromichi Ito1,2, Aya Goji1, Yoshihiro Toda1, Kenji Mori1,2, Masafumi Harada1, Shoji Kagami1
(1.Department of Pediatrics, Tokushima University, Tokushima, Japan, 2.Department of Special Needs Education, Graduate School of Education, Naruto University of Education, Tokushima, Japan, 3.Department of Child Health & Nursing, Institute of Biomedical Sciences, Tokushima University Graduate School, Tokushima, Japan, 4.Department of Radiology, Tokushima University, Tokushima, Japan.)

O-048 Keratomalacia due to vitamin A deficiency caused by unbalanced diet of autism spectrum disorder
Takeshi Miyamoto (Department of Pediatrics Hamamatsu Medical Center, Hamamatsu, Japan)

Oral Presentation 9

Chair: Miho Fukui (Department of Pediatrics, Osaka Medical College), Masaharu Hayashi (School of Nursing, College of Nursing and Nutrition, Shukutoku University)

Autism / ADHD / Child development

O-049 Evaluation of oxidative stress in patients with autism spectrum disorder
Toshiaki Hashimoto1, Masahito Morimoto1, Yoshimi Tsuda1, Taisuke Kitaoka2, Shojiro Kyotani2
(1.JRC Tokushima Hinomine Rehabilitation Center for People with Disabilities, Tokushima, Japan, 2.Tokushima Bunri University, Graduate School of Pharmaceutical Sciences, Tokushima, Japan)
O-050 Spontaneous eye blink rate (EBR) in ADHD and Tic disorder/Tourette syndrome
Michiko Kawai, Nahoko Ueda-Katayama, Ryosuke Urabe, Sato Suzuki-Muromoto, Go Takei, Itaru Hayakawa, Yuichi Abe, Masaya Kubota (Division of Neurology, National Center for Child Health and Development, Tokyo, Japan)

O-051 Study on language formation process of very low birth weight infants (Using formant analysis)
Hidetaka Maebayashi, Satoshi Takada, Tetsuya Takiguchi, Tsuyoshi Kitamura (1. Faculty of Humanities and Education, The University of Shimane, Shimane, Japan, 2. Kobe City Pediatric and General Rehabilitation, Hyogo, Japan, 3. Graduate School of Health Sciences, Kobe University, Hyogo, Japan, 4. Graduate School of System Informatics, Kobe University, Hyogo, Japan)

O-052 The effect of therapy on children at puberty with attention deficit hyperactivity disorder
Kazunori Motoyama, Mitsuhiro Matsuo (Nagasaki Prefectural Medical and Welfare Center for Handicapped Children)

O-053 Fetal development of the human principal inferior olivary nucleus: a morphometric study
Katsuyuki Yamaguchi (Department of Pathology, Dokkyo Medical University, Mibu, Japan)

O-054 Biochemical and morphological characterization of an ID/ASD-related molecule, MacroD2
Koh-Ichi Nagata, Rika Morishita, Makoto Mizuno, Noriko Kawamura, Hidenori Tabata, Hidenori Ito (Department of Molecular Neurobiology, Institute for Developmental Research, Aichi Human Service Center)

Oral Presentation 10
Chair: Ayumi Seki (Graduate School of Education, Hokkaido University), Tatsuya Koeda (Department of Psychosocial Medicine, National Center for Child Health and Development)

Learning disability
O-055 Relationship between Vocabulary and Academic Achievement in developmental dyslexia
Mekumi Mizuta, Tomohito Okumura, Makoto Nakanishi, Naoko Kurimoto, Takeshi Yoneda, Yuka Nishioka, Eiji Wakamiya, Hiroshi Tamai (1. LD Center, Osaka Medical College, Osaka, Japan, 2. Course of Nursing, Faculty of Health Care, Aino University, Osaka, Japan, 3. Department of Pediatrics, Osaka Medical College, Osaka, Japan)

O-056 Relationship between reading/writing skills and quality of life in learning difficulties
Tomohito Okumura, Tomoko Miura, Makoto Nakanishi, Miho Fukui, Mari Tosihikawa, Shuichi Shimakawa, Eiji Wakamiya, Hiroshi Tamai (1. Osaka Medical College, LD Center, Takatsuki, Japan, 2. Seikeikai Hospital, Sakai Seikeikai LD Center, Sakai, Japan, 3. Osaka Medical College, Department of Pediatrics, Takatsuki, Japan, 4. Seikeikai Hospital, Department of Pediatrics, Sakai, Japan, 5. Aino University, Faculty of Nursing and Rehabilitation, Ibaraki, Japan)

O-057 Delayed improvement after the intervention with RTI approach for developmental dyslexia
Ayumi Seki, Hitoshi Uchiyama, Hisakazu Yanaka, Tatsuya Koeda (1. Faculty of Education, Hokkaido University, Sapporo, Japan, 2. The University of Shimane, Matsue, Japan, 3. Faculty of Regional Sciences, Tottori University, Tottori, Japan, 4. National Center for Child Health and Development, Tokyo, Japan)

O-058 Evaluation of the frontal function in reading tasks: a near-infrared spectroscopy study
Kenji Mori, Aya Goji, Tatsuo Mori, Yoshihiro Toda, Hiromichi Ito, Masahito Miyazaki, Shoji Kagami (1. Department of Child Health & Nursing, Tokushima University Graduate School, Tokushima, Japan, 2. Department of Pediatrics, Tokushima University Graduate School, Tokushima, Japan)

O-059 Clinical features of developmental dyslexia comorbid with developmental coordination disorder
Makio Oka, Akio Nakai, Truko Morooka, Kori Hanafusa, Yasuko Tsushima, Yoshitake Hanaoka, Mari Akiyama, Katsuhiro Kobayashi (1. Department of Child Neurology, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Science and Okayama University Hospital, Okayama, Japan, 2. Graduate School of Clinical Education & The Center for the Study of Child Development, Institute for Education, Mukogawa Women's University, Nishinomiya, Japan, 3. Faculty of Education, Shujitsu University)
O-060 Cohort study for screening children with dyscalculia
Sawako Ooba¹, Yoshihiro Maegaki¹, Tatsuya Koeda²
(1.Tottori University Hospital Department of Child Neurology, Tottori,Japan, 2.National Center for Child Health and Development, Tokyo,Japan)

Oral Presentation 11
Chair: kazuo Kubota (Department of Pediatrics, Gifu University Graduate School of Medicine),
Tetsuya Ito (Department of Pediatrics, Fujita Health University School of Medicine)

Metabolic disease
O-061 Neurological prognosis of organic academia with liver transplantation in a center.
Shiroyo Matsumota¹, Fumio Endo², Yukihiro Inomata², Hiroshi Mitsubuchi³, Kimitoshi Nakamura¹
(1.Department of Pediatrics, Graduate School of Medical Sciences, Kumamoto University, Kumamoto, Japan, 2.Kumamoto-Ezuko Medical Center for the Severely Disabled, Kumamoto, Japan, 3. Labor Welfare Corporation, Kumamoto Rosai Hospital, Yatsushiro, Kumamoto, Japan)

O-062 Diagnostic process and neuroimages in ALD children with initial symptoms of higher brain dysfunction
Kazuo Kubota¹, Hiroki Kawai¹, Shigeo Takashima², Toshiyuki Fukao¹, Nobuyuki Shimozawa²
(1.Department of Pediatrics, Gifu University Graduate School of Medicine, Gifu, Japan, 2.Division of Genomics Research, Life Science Research Center, Gifu University, Gifu, Japan)

O-063 A case of Wilson disease patient with psychiatric symptoms
Miku Hattori, Shinji Utsunomiya, Ayumi Hayashi, Chicko Ito, Norikazu Shimizu, Tsugutoshi Aoki (Pediatrics, TOHO University Ohashi Medical Center)

O-064 Treatment for Wilson disease with neurological symptoms
Ayumi Hayashi, Norikazu Shimizu, Tsugutoshi Aoki (Department of Pediatrics, Toho University Ohashi medical center, Tokyo, Japan)

O-065 Aconitase 2 deficiency with cerebellar atrophy diagnosed by whole exome sequencing and enzyme assay
Keitaro Yamada¹, Masahide Fukuda², Hirotomo Saitsu³, Sumire Kumai³, Yosuke Hosokawa¹, Chikako Ogawa¹, Naoko Kurahashi¹, Naomichi Matsumoto¹, Atsuo Nakayama², Koichi Maruyama¹
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O-066 Study of serum EPA/AA ratio in Reversible Cerebral Vasoconstriction Syndrome
Tsuuoshi Matsuoka, Masato Hiyane (Division of Child Neurology, Okinawa Prefectural Nanbu Medical Center and Children’s Medical Center, Haebaru, Japan)

Oral Presentation 12
Chair: Takashi Saito (Department of Child Neurology, National Center Hospital of Neurology and Psychiatry),
Yukihiro Kitai (Department of Pediatric Neurology, Bobath Memorial Hospital)

Cerebral palsy 1
O-067 The distribution of the etiology of dyskinetic cerebral palsy
Yukihiro Kitai, Satori Hirai, Kaeko Ogura, Naomi Okuyama, Mika Hirotsune, Satoshi Mizutani, Hiroshi Arai (The department of pediatric neurology, Bobath Memorial Hospital, Osaka, Japan)

O-068 Analysis of bone densities of individuals with severe motor and intellectual disabilities
Takashi Ichiyama, Fumitaka Kouno, Hironori Matsufuji, Hiroshi Isumi, Yoshitsugu Sugio
O-069  Negative pressure pulmonary edema and hemorrhage in a severely disabled child with
tracheotomy
Hiroaki Ono1, Yuji Fujii2
(1.The Department of Pediatrics, Hiroshima Prefectural Hospital, Hiroshima, Japan, 2.The
Department of Pediatrics, Hiroshima City Funairi Citizens Hospital, Hiroshima, Japan)

O-070  Essential fatty acid deficiency in patients with severe motor and intellectual disabilities
Yasuo Hachiya, Chinatsu Seki, Hiromi Seki (The Department of Pediatrics, National
Hospital Organization Higashinagano Hospital, Nagano, Japan)

O-071  A case with cerebral palsy that led to a discharge using Flex mode of the ITB therapy
Toshihide Watanabe, Kouki Nikaidou (Department of pediatrics, Hokkaido Medical Center
for Child Health and Rehabilitation, Sapporo, Japan)

O-072  Utility of salivagram in pulmonary aspiration in severe motor and intellectual deficit.
Tomoko Tando1, Yusuke Goto1, Masao Aihara2
(1.Yamanashi prefectural central hospital pediatric, Yamanashi, Japan, 2.Yamanashi
university graduate school general research department, Yamanashi, Japan)

O-073  A case of myoclonus-dystonia (DYT 11)
Tomoya Hamada1, Takatoshi Hosokawa1,2, Shigo Saitou3, Masayuki Ishihara4, Hirokazu
Huruya5, Mamoru Ouchida5, Iori Ohmori6, Erika Abe6, Itaru Toyoshima6, Satoko Kumada7,
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5.Okayama University Graduate School of Education / Faculty of Education, Okayama,
Japan, 6.National Hospital Organization Akita National Hospital, Akita, Japan, 7.TOKYO
METROPOLITAN NEUROLOGICAL HOSPITAL, Tokyo, Japan, 8.HAMADA KIDS
CLINIC, Kochi, Japan)

O-074  Dopa-responsive abnormal eye movements prompt detection of SPR mutations and SR deficiency
diagnosis
Yu Nakagama1, Kohei Hatanaka2, Haruo Shintakü3, Satoko Miyatake2, Naomiichi
Matsumoto2, Takashi Kuzè, Nobutaka Shimizu2, Koji Hirohata1, Masakazu Mizuki5
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Human Genetics, Yokohama City University, Yokohama, Japan, 3.Department of
Pediatrics, Osaka City University, Osaka, Japan, 4.Department of Pediatrics, Yaizu City
Hospital, Yaizu, Japan, 5.Department of Pediatrics, Teikyo University, Tokyo, Japan)

O-075  A patient with adolescence-onset cervical dystonia carrying a novel mutation of KMT2B
Kyoko Hoshino1, Yuri Nagao1, Michio Fukumizu1, Kazue Kimura1, Masaharu Hayashi1,
Ikuko Suzuki2, Toshitaka Kawarai3, Ryuji Kaji3, Yoshiteru Azuma4, Naomiichi Matsumoto4
(1.Segawa Memorial Neurological Clinic for Children, Tokyo, Japan, 2.Pediatrics,
Hikarinoie Ryoiku Center, Saitama, Japan, 3.Tokushima University, Tokushima,
Japan, 4.Department of Human Genetics, Yokohama City University Graduate School of
Medicine)

O-076  A case with ATP1A3 mutation diagnosed as psychogenic lower limb pain and selective mutism
Shohei Nomura1, Misuru Kashiwagi1, Takuya Tanabe2, Tizu Ooba3, Nobuhiko Okamoto3,
Hiroshi Tamai4
(1.The Department of Pediatrics, Hirakata Municipal Hospital, Osaka, Japan,
2.Department of Pediatric Neurology, Tanabe Pediatric Clinic, 3.Department of Medical
Genetics, Osaka Women’s and Children’s Hospital, 4.Department of Pediatrics, Osaka
Medical College, Osaka, Japan)

O-077  Pallidal stimulation for patients with KMT2B mutations.
Hideaki Mashimo1, Satoko Kumada1, Yohane Miyata1,5, Yasuo Hachiya6, Ayako Hattori4,
Hiroya Nishida1, Kenji Inoue1, Atsuko Arisaka1, Mitsumasa Fukuda1, Fusako Yokochi2,
Oral Presentation 14

Chair: Eri Takeshita (National Center of Neurology and Psychiatry, National Center Hospital), Yukitoshi Ishikawa (Department of Pediatrics, National Yokumo Hospital)

Muscular disease 1

O-079 Respiratory management with transcutaneous CO2 monitoring in Duchenne type muscular dystrophy
Shin-Ichi Uchiyama, Kazuhide Imai, Kazuya Goto (Pediatrics, Nishibeppu National Hospital, Oita, Japan)

O-080 Sleep disordered breathing in children with Duchenne muscular dystrophy and cardiomyopathy
Yuka Ishikawa, Yukitoshi Ishikawa (Department of Pediatrics, National Organization Yakumo Hospital, Hokkaido, Japan)

O-081 Nutritional management for Duchenne muscular dystrophy patients with autistic characteristics
Rie Suzuki, Seiko Itomi, Soichi Mukaida, Kazuhiro Shiraishi (National Hospital Organization Utano Hospital, Kyoto, Kyoto, Japan)

O-082 Experiences of advanced care planning for Duchenne muscular dystrophy
Fumihito Nozaki, Tomohiro Kumada, Minoru Shibata, Anri Hayashi, Saeko Sasaki, Mioko Mori, Atsushi Mori, Kenji Inoue, Takashi Kusunoki, Tatsuya Fujii (Department of Pediatrics, Shiga Medical Center for Children, Shiga, Japan)

O-083 Diagnostic process and clinical picture of brothers with Duchenne muscular dystrophy
Eri Takeshita1, Hisateru Tachimori2, Yuko Motohashi1, Akihiko Ishiyama1, Hirofumi Komaki1,2, Ikuya Nonaka1, Masayuki Sasaki1
(1.Department of Child Neurology, National Center Hospital, National Center of Neurology and Psychiatry, Tokyo, Japan, 2.Translational Medical Center, National Center of Neurology and Psychiatry, Tokyo, Japan)

O-084 Clinical characterization of long-term ambulatory Duchenne muscular dystrophy patients
Ayami Ozaki1, Eri Takeshita1, Hirofumi Komaki1,2, Hisateru Tachimori2, Yuko Motohashi1, Akihiko Ishiyama1, Takashi Saito1, Eiji Nakagawa1, Ikuya Nonaka1,3, Narihiro Minami1,4,5, Ichizo Nishino6, Masayuki Sasaki1
(1.Department of Child Neurology, National Center Hospital, National Center of Neurology and Psychiatry, Tokyo, Japan, 2.Translational Medical Center, National Center of Neurology and Psychiatry, Tokyo, Japan, 3.Department of Neuromuscular Research, National Institute of Neuroscience, National Center of Neurology and Psychiatry, Tokyo, Japan, 4.Laboratory Medicine, National Center Hospital, National Center of Neurology and Psychiatry, Tokyo, Japan, 5.Medical Genome Center, National Center of Neurology and Psychiatry, Tokyo, Japan)
Mariko Ikeda (Department of Clinical Genetics, Fujita Health University School of Medicine)

Muscular disease 2

O-085 A questionnaire survey of intellectual development in Fukuyama congenital muscular dystrophy
Minobu Shichiji1, Keiko Ishigaki1, Ayaka Yamashita1, Takatoshi Sato1, Satoru Nagata1
(1.Department of Pediatrics, Tokyo Women’s Medical University, Tokyo, Japan, 2.Tokyo Women’s Medical University, Tokyo, Japan)

O-086 Efficacy of corticosteroids therapy for Fukuyama congenital muscular dystrophy
Terumi Murakami1,2, Takatoshi Sato1, Michiru Adachi1, Kumiko Ishiguro1, Minobu Shichiji1, Satoru Nagata1, Keiko Ishigaki1
(1.Department of Pediatrics, Tokyo Women’s Medical University, Tokyo, Japan, 2.Department of Neurology, National Hospital Organization East Saitama National Hospital, Saitama, Japan, 3.Department of Rehabilitation, Tokyo Women’s Medical University, Tokyo, Japan)

O-087 A case of muscular dystrophy-dystroglycanopathy type B3 carrying novel variants in POMGNT1
Kazuyuki Nakamura1, Takahiro Abiko1, Ichizo Nishino2, Youhei Yamamoto3, Tetsuo Mitsui1
(1.Department of Pediatrics, Faculty of Medicine, Yamagata University, Yamagata, Japan, 2.Department of Neuromuscular Research, National Institute of Neuroscience, National Center of Neurology and Psychiatry, Tokyo, Japan, 3.Department of Neonatology, Aomori Prefectural Central Hospital, Aomori, Japan)

O-088 Urinary titin fragment in Fukuyama congenital muscular dystrophy
Takatoshi Sato1, Naoko Taniguchi1, Kumiko Ishiguro1, Minobu Shichiji1, Terumi Murakami1, Hiroyuki Awano2, Taku Shirakawa2, Masafumi Matsuo2, Satoru Nagata1, Keiko Ishigaki1
(1.Department of Pediatrics, Tokyo Women’s Medical University, School of Medicine, Tokyo, Japan, 2.Department of Pediatrics, Kobe University Graduate School of Medicine, Kobe, Japan, 3.Department of Physical Therapy, Faculty of Rehabilitation, Kobe Gakuin University, Kobe, Japan)

O-089 The level of urinary titin of SMA patients is higher than that of healthy control
Hiroyuki Awano1, Masashi Nagai1, Ryosuke Bo1, Taku Shirakawa2, Nobuhiro Maruyama3, Hisahide Nishio2, Masafumi Matsuo2, Kazumoto Iijima1
(1.Department of Pediatrics, Kobe University Graduate School of Medicine, Kobe, Japan, 2.Department of Physical Therapy, Faculty of Rehabilitation, Kobe Gakuin University, Kobe, Japan, 3.Diagnostic & Research Regents Division, Immuno-Biological Laboratories, Ltd., Fujioka, Japan)

O-090 A study of 6-MSITC to evaluate proteolysis inhibition effect in Duchenne muscular dystrophy
Hirokuki Awano1, Masashi Nagai1, Ryosuke Bo1, Masaaki Matsumoto2, Taku Shirakawa3, Nobuhiro Maruyama1, Yo-Ichi Nasehashima2, Masafumi Matsuo1, Kazumoto Iijima1
(1.Department of Pediatrics, Kobe University Graduate School of Medicine, Kobe, Japan, 2.National Center for Child Health and Development, Tokyo, Japan, 3.Department of Physical Therapy, Faculty of Rehabilitation, Kobe Gakuin University, Kobe, Japan, 4.Immono-Biological Laboratories Co., Ltd., Fujioka, Japan, 5.Foundation for Biomedical Research and Innovation, Kobe, Japan)

Oral Presentation 16

Chair: Tomonari Awaya (Department of Anatomy and Developmental Biology, Kyoto University, Graduate School of Medicine), Nobuhiko Okamoto (Osaka Women’s and Children’s Hospital)

Genetics / Genetic abnormality 1

O-091 Molecular diagnosis of Congenital Disorder of Glycosylation:
Nobuhiro Okamoto1,2, Yoshinao Wada1,2,3
(1.Department of Medical Genetics, Osaka Women’s and Children’s Hospital, Osaka, Japan, 2.Department of Molecular Medicine, Osaka Women’s and Children’s Hospital, Osaka, Japan, 3.Department of Maternal Medicine, Osaka Women’s and Children’s Hospital, Osaka, Japan)

O-092 Utility of microarray analysis in abnormal iris and intellectual disability
Yuri Sakaguchi1,2, Toshiki Takenouchi1, Marie Sasaki1, Kenjiro Kosaki2, Takao Takahashi1
O-093 Recurrent de novo variants in MAPK8IP3 encoding JIP3 cause neurological phenotypes.
Atsuo Kikuchi1, Shinya Iwasawa1, Kumiko Yanagi1, Yasuko Kobayashi2, Kazuhiro Hagiya1, Hiroshi Matsumoto2, Kenji Kurowsawa3, Masayuki Ochiai7, Yasunari Sakai7, Noriko Miyake9, Naomichi Matsumoto5, Tadashi Kaname5, Yoko Aoki10, Wataru Shoji10, Shigeo Kure1
(1.Department of Pediatrics, Keio University School of Medicine, Tokyo, Japan, 2.Center for Medical Genetics, Keio University School of Medicine, Tokyo, Japan)

O-094 Genetic evaluation of individuals with overgrowth and developmental delay / intellectual disability
Kyoko Takano1,2, Naohisa Fujita1,3, Tetsuhiro Fukuyama1, Mitsuo Motobayashi5, Yuji Inaba3, Machiko Hosooya1, Tomomi Yamaguchi1, Keiko Wakui1, Takashi Kaname5, Kenichiro Hata10, Yoshimitsu Fukushima12, Tomoki Kosho12
(1.Center for Medical Genetics, Shinshu University Hospital, Matsumoto, Nagano, Japan, 2.Department of Medical Genetics, Shinshu University School of Medicine, Matsumoto, Nagano, Japan, 3.Problem-Solving Oriented Training Program for Advanced Medical Personnel: NGSD Project, 4.Neuroanatomy and Developmental Medicine, Shinshu University School of Medicine, Matsumoto, Nagano, Japan, 5.Division of Neurology, Nagano Children's Hospital, Azumino, Nagano, Japan, 6.Division of Pediatrics, Saku Central Hospital Advanced Care Center, Saku, Nagano, Japan, 7.Department of Genome Medicine, National Center for Child Health and Development, Tokyo, Japan, 8.Initiative on Rare and Undiagnosed Diseases in Pediatrics, 9.Department of Maternal-Fetal Biology, National Research Institute for Child Health and Development, Tokyo, Japan)

O-095 A case report of ATP6V1A gene abnormality with ataxia, headache and seizures worsened by exercise
Keiko Yanagihara1, Nobuhiko Okamoto2, Syodo Hirano1, Ken Nakajima1, Taikan Obshi1, Tomokazu Kimizui1, Tae Ikeda1, Yukiko Mogami1, Yasuhiro Suzuki1, Mitsuhiro Kato3, Hiroto Saito1, Naomichi Matsumoto2
(1.Department of Pediatric Neurology, Osaka Women's and Children's Hospital, Izumi, Japan, 2.Department of Genetics, Osaka Women's and Children's Hospital, Izumi, Japan, 3.Department of Pediatrics, Showa University, Tokyo, Japan, 4.Department of Biochemistry, Hamamatsu University School of Medicine, Hamamatsu, Japan, 5.Department of Human Genetics, Yokohama City University Graduate School of Medicine, Yokohama, Japan)

O-096 A case with de novo HECW2 mutation associated with neurodevelopmental disorder and epilepsy
Koichi Maruyama1, Seiji Mizuno1, Naoko Kurahashi1, Miho Tohyama5, Kohji Kato4, Tomoo Ogi5
(1.Department of Pediatric Neurology, Aichi Developmental Disability Center, Kasugai, Aichi, Japan, 2.Department of Pediatrics, Aichi Developmental Disability Center, Kasugai, Aichi, Japan, 3.Department of Psychiatry, Nagoya University Graduate School of Medicine, Nagoya, Aichi, Japan, 4.Department of Pediatrics, Nagoya University Graduate School of Medicine, Nagoya, Aichi, Japan, 5.Department of Genetics, Research Institute of Environmental Medicine, Nagoya University, Nagoya, Aichi, Japan)
Acute encephalopathy 3

O-097 MYRF-related genetic analysis of mild encephalopathy with a reversible splenial lesion
Hirokazu Kurahashi¹, Shingo Numoto¹, Akihisa Okumura¹, Kohji Kato²,³, Miho Toyama²,³,⁴, Toomoo Ogi²,³, Ai Hoshino⁵, Masashi Mizuguchi⁵
(1.Department of Pediatrics, Aichi Medical University, Nagakute, Japan, 2.Department of Genetics, Research Institute of Environmental Medicine (RIeM), Nagoya University, Nagoya, Japan, 3.Department of Human Genetics and Molecular Biology, Graduate School of Medicine, Nagoya University, Nagoya, Japan, 4.Department of Psychiatry, Nagoya University Graduate School of Medicine, Nagoya, Japan, 5.Department of Developmental Medical Sciences, Graduate School of Medicine, University of Tokyo, Bunkyo-ku, Tokyo, Japan)

O-098 An observational study of the clinical course in hemorrhagic shock and encephalopathy syndrome
Hiroshi Yamaguchi¹, Shoich Tokumoto¹,², Masahiro Nishiyama¹, Daisaku Toyoshima¹, Hiroaki Nagase¹, Azusa Maruyama¹, Kazuomo Iijima¹
(1.Department of Neurology, Hyogo Prefectural Kobe Children’s Hospital, Kobe, Japan, 2.Department of Pediatrics, Kobe University Graduate School of Medicine, Kobe, Japan)

O-099 Dynamics of cytokines in acute encephalopathy: first report
Kazumi Tomioka¹, Masahiro Nishiyama¹, Hiroaki Nagase¹, Yusuke Ishida¹, Tsukasa Tanaka¹, Shoich Tokumoto¹,², Hiroshi Yamaguchi¹,², Daisaku Toyoshima¹, Azusa Maruyama¹, Hiroshi Kurosawa³, Hiroko Tada¹, Hiroshi Sakuma¹, Kazuomo Iijima¹
(1.Department of Pediatrics, Kobe University Graduate School of Medicine, Kobe, Japan, 2.Department of Neurology, Hyogo Prefectural Kobe Children’s Hospital, Kobe, Japan, 3.Department of Pediatric Critical Care Medicine, Hyogo Prefectural Kobe Children’s Hospital, Kobe, Japan, 4.Department of Developmental Neuroimmunology Project, Tokyo Metropolitan Institute of Medical Science, Tokyo, Japan)

O-100 Dynamics of cytokines in acute encephalopathy: the second report
Masahiro Nishiyama¹, Kazumi Tomioka¹, Hiroaki Nagase¹, Yusuke Ishida¹, Tukasa Tanaka¹, Shoich Tokumoto¹,², Hiroshi Yamaguchi¹,², Daisaku Toyoshima¹, Azusa Maruyama¹, Yo Okizuka¹, Yoshinobu Oyazato¹, Yuichi Takami¹, Hiroko Tada¹, Kei Sakuma¹, Kazuomo Iijima¹
(1.Department of Pediatrics, Kobe University Graduate School of Medicine, Kobe, Japan, 2.Department of Neurology, Hyogo Prefectural Kobe Children’s Hospital, Kobe, Japan, 3.Department of Pediatric Institute, Hyogo Prefectural Kobe Children’s Hospital, Kobe, Japan, 4.Department of Brain Development and Neural Regeneration, Tokyo Metropolitan Institute of Medical Science, Tokyo, Japan)

O-101 Does the aggressive use of anticonvulsant drug for the status epilepticus exacerbate the sequela?
Keisuke Nakajima¹,², Hiroshi Shiraku², Shinobu Hirai¹, Haruo Okado¹
(1.Tokyo Metropolitan Institute for Medical Science, Tokyo, Japan, 2.JA Toride Medical Center)

O-102 EEG changes by video-EEG monitoring in two cases of acute encephalopathy with acute brain swelling
Mitsuru Kashiwagi¹, Takuya Tanabe², Chizu Oba¹, Shohei Nomura¹, Sosuke Yoshikawa³, Shuichi Shimakawa¹, Kouji Azumakawa¹, Junichio Ishikawa¹, Kiyoko Ama³, Hiroshi Tamaï¹
(1.Department of Pediatrics, Hirakata City Hospital, 2.Department of Pediatric Neurology, Tanabe Pediatric Clinic, 3.Department of Pediatrics, Daitchitouwakai Hospital, 4.Department of Pediatrics, Hirakata City Hospital, 5.Department of Pediatric, AZUMAGAWA Pediatric Clinic, 6.Department of Pediatric Emergency, Osaka City General Hospital)

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**Oral Presentation 18**

**Chair:** Kazuya Itomi (Aichi Children’s Health and Medical Center), Hiroyuki Torisu (Section of Pediatrics, Department of Medicine, Fukuoka Dental College)

**Autoimmune encephalitis**

O-103 A girl with Rasmussen encephalitis absent of epileptic seizure
Takao Komatsubara, Yumi Nakayama, Moemi Hojo, Shin-ichi Magara, Yu Kobayashi, Jun Tohyama (Department of Child Neurology, Epilepsy Center, Nishi-Niigata Chuo National
O-104  Three cases of autoimmune encephalopathy.
Takehiko Inui¹, Moriei Shibuya¹, Takuya Miyabayashi¹, Yusuke Takezawa¹, Ryo Sato¹, Yukimune Okubo¹, Noriko Togashi¹, Yukitoshi Takahashi¹, Kazuhiro Haginoya¹ (1.Department of Pediatric Neurology, Miyagi Children Hospital, Miyagi, Japan, 2.Shizuoka Institute of Epilepsy and Neurological Disorders)

O-105  Refractory status epilepticus may predict poor prognosis in autoimmune-mediated encephalitis
Atsuro Daida¹,², Shin-Ichiro Hamano¹, Hazuki Nonoyama¹, Satoru Ikemoto¹, Yoko Hirata¹, Ryuki Matsuura¹, Reiko Koichihara², Gaku Yamanaka², Kei Sakuma², Yukitoshi Takahashi² (1.Division of Neurology, Saitama Children’s Medical Center, Saitama, Japan, 2.Division of Pediatrics, Tokyo Medical University, Tokyo, Japan, 3.Department for Child Health and Human Development, Saitama Children’s Medical Center, Saitama, Japan, 4.Department of Brain Development and Neural Regeneration, Tokyo Metropolitan Institute of Medical Science, Setagaya, Tokyo, Japan, 5.National Epilepsy Center, Shizuoka Institute of Epilepsy and Neurological Disorders, Shizuoka, Japan)

O-106  Diversity of cerebrospinal fluid cytokine profiles in autoantibody-mediated brain diseases
Hiroko Tada¹,², Hiroshi Sakuma¹, Takako Matsuoka¹, Kuniko Kohyama¹, Jun-Ichi Takanashi³ (1.Department of Development Neuroimmunology Project, Tokyo Metropolitan Institute of Medical Science, Tokyo, Japan, 2.Division of Pediatrics, Chibaken Saiseikai Narashino Hospital, Narashino, Japan, 3.Tokyo Women’s Medical University Yachiyo Medical Center, Department of Pediatrics, Yachiyo, Japan)

O-107  Longterm outcome of children of MOG-encephalomyelitis without preventative immunosuppressive therapy
Naomi Hino-Fukuyo¹, Kazuhiro Haginoya¹, Toshiyuki Takahashi², Ichiro Nakashima², Kazuo Hujihara², Yoshiki Takai², Manami Akasaka², Shigeo Kure¹ (1.The Department of Medicine, Tohoku University, Sendai, Japan, 2.Department of Neurology, Tohoku University School of Medicine, Sendai, Japan, 3.Department of Pediatrics, Keio University, Tokyo, Japan)

O-108  The outcome of eleven children with acute disseminated encephalomyelitis:A retrospective evaluation
Ayumi Horiguchi¹, Atsuro Daida¹, Shinichiro Hamano¹, Hazuki Nonoyama¹, Satoru Ikemoto¹, Yoko Hirata¹, Ryuki Matsuura¹, Reiko Koichihara² (1.Division of Neurology, Saitama Children’s Medical center, Saitama, Japan, 2.department for Child Health and Development, Saitama Children’s Medical Center, Saitama, Japan)

Oral Presentation 19
Chair: Toshiyuki Iwasaki (Department of Pediatrics, Kitasato University School of Medicine), Atsushi Imamura (Department of Pediatrics, Gifu Prefectural General Medical Center)

Epilepsy: Treatment 1

O-109  Clinical evidence of direct effect of ACTH under defective endogenous corticosteroids production.
Marie Sasaki¹, Yuri Sakaguchi¹,², Toshihito Takenouchi¹, Takao Takahashi¹ (1.Department of Pediatrics, School of Medicine, Keio University, Tokyo, Japan, 2.Center for Medical Genetics, Keio University School of Medicine, Tokyo, Japan)

O-110  Effect of new antiepileptic drugs in intractable epilepsy comorbid with neurodevelopmental disorder
Eiji Nakagawa (Department of Child Neurology, National Center Hospital, National Center of Neurology and Psychiatry, Tokyo, Japan)

O-111  A case of Lennox-Gastaut syndrome successfully controlled by cannabidiol
Madoka Hoshide, Ippei Hidaka, Fumitaka Kohno, Hirofumi Inoue, Momoko Oka, Takeshi Matsushige, Shunji Hasegawa (Department of Pediatrics, Yamaguchi University Graduate School of Medicine, Ube, Japan)

O-112  Comparison of the experience of using perampanel and lacosamide to patient with intractable epilepsy
Shin Okazaki, Ichiro Kuki, Hisashi Kawawaki, Naohiro Yamamoto, Shizuka Nagase, Megumi Nukui, Takeshi Inoue (Department of Pediatric Neurology, Osaka City General Hospital, Niigata, Japan)
The 61st Annual Meeting of the Japanese Society of Child Neurology

O-113 Effect of Perampanel on intractable epilepsy of individuals with SMID
Tomohiro Nakayama¹,², Haruka Oguro¹, Naoko Nakayama², Kayo Tokaji¹, Junko Nakayama¹, Hiroshi Maruyama², Nobuaki Iwasaki¹
(1.Department of Pediatrics, Ibaraki Prefectural University of Health Sciences, Ami, Japan, 2.Department of Pediatrics, Matsudo Clinic, Matsudo, Japan)

O-114 Therapeutic effect and side effect of perampanel
Hirokazu Yamagishi, Hitoshi Osaka, Masahide Gotou, Mari Kuwajima, Takahiro Ikeda, Karin Kojima, Kazuhiro Muramatsu, Takanori Yamagata (Department of pediatrics, Jichi Medical University)

Oral Presentation 20

Chair: Ryoko Honda (Department of Pediatrics, National Hospital Organization Nagasaki Medical Center), Nobuhito Morota (Department of Neurosurgery, Kitasato University School of Medicine)

Epilepsy: Treatment 2

O-115 Hemispherotomy can cause post-operative strabismus
Ayataka Fujimoto, Tohru Okanishi, Shimpei Baba, Shinji Itamura, Hideo Enoki (The comprehensive epilepsy center, Seirei Hamamatsu General Hospital)

O-116 Long-term prognosis after the epilepsy surgery in refractory child-onset epilepsy
Kuriko Shimono¹,²,³, Yoshiko Iwatani¹,²,³, Masaya Tachibana¹,², Koji Tominaga¹,²,³, Satoru Oshino⁴, Shin Nabatame²,³, Haruhiko Kishima³,⁴, Masako Tanikawa³,², Kiichi Ozono²,³
(1.United Graduate School of Child Development Osaka University Graduate School of Medicine, Osaka, Japan, 2.Department of Pediatrics, Osaka University Graduate School of Medicine, Osaka, Japan, 3.Epilepsy Center, Osaka University Hospital, Osaka, Japan, 4.Department of Neurosurgery, Osaka University Graduate School of Medicine, Osaka, Japan)

O-117 Effect and complications of stereotactic radiofrequency thermocoagulation for hypothalamic hamartoma
Hiroshi Shirozu¹,², Hiroshi Masuda³,², Takefumi Higashijima¹, Yosuke Ito¹, Masafumi Fukuda¹, Shigeki Kameyama²
(1.Department of Functional Neurosurgery, Nishi-Niigata Chuo National Hospital, Niigata, Japan, 2.Hypothalamic Hamartoma Center, Nish-Niigata Chuo National Hospital, Niigata, Japan)

O-118 Clinical study of epilepsy surgery in patients with drug-resistant PEE
Ichiro Kuki¹, Hisashi Kawawaki¹, Naohiro Yamamoto¹, Shizuka Nagase¹, Takeshi Inoue¹, Megumi Nukui¹, Shin Okazaki¹, Kiyoko Amo¹, Masao Togawa¹, Masashi Shimi¹, Noritsugu Kunihiro¹, Takehiro Uda¹,², Masuhiro Matsusaka¹, Hiroaki Sakamoto¹
(1.The Department of Child Neurology, Osaka City General Hospital, Osaka, Japan, 2.The Department of Child Infectious Disease, Osaka City General Hospital, Osaka, Japan, 3.The Department of Pediatrics, Aizenbashi Hospital, Osaka, Japan, 4.The Department of Child Neurosurgery, Osaka City General Hospital, Osaka, Japan, 5.The Department of Neurosurgery, Osaka University University, Osaka, Japan)

O-119 Efficacy of corpus callosotomy for epileptic spasms after acute encephalopathy andencephalitis.
Yoshiaki Watanabe¹,²,³, Ryoko Honda¹,², Tomonori Ono¹, Keisuke Toda², Tadateru Yasu³, Shigeki Tanaka³, Hiroshi Baba³
(1.Epilepsy Center, National Nagasaki Medical Center, Omura, Japan, 2.Department of Neurosurgery, National Nagasaki Kawatana Medical Center, Kawatana, 3.Pediatrics, National Nagasaki Medical Center, 4.Epilepsy Center, Nishi-Isahaya Hospital, Isahaya, Japan)

O-120 A study on the change of Developmental Quotient after corpus callosotomy
Ryoko Honda¹, Yoshiaki Watanabe¹, Tomonori Ono², Tadateru Yasu³, Shigeki Tanaka¹, Keisuke Toda³, Hiroshi Baba³
(1.Department of Pediatrics, National Hospital Organization Nagasaki Medical Center, Nagasaki, Japan, 2.Department of Neurosurgery, National Hospital Organization Nagasaki Medical Center, Nagasaki, Japan, 3.Department of Neurosurgery, National Hospital Organization Nagasaki Kawatana Medical Center, Nagasaki, Japan, 4.Department of Neurosurgery, Nishi-Isahaya Hospital, Nagasaki, Japan)
Oral Presentation 21
Chair: Toru Kato (Department of Pediatrics Neurology, Okazaki City Hospital), Mitsugu Uematsu (Department of Pediatrics, Tohoku University Hospital)

Newborn / Preterm baby / Perinatal brain damage
O-121 The impact of changes in cooling methods for neonates with hypoxic ischemic encephalopathy
Akihito Takahashi, Shinnici Watabe (Department of Pediatrics, Kurashiki Central Hospital, Kurashiki, Japan)

O-122 Late-onset circulatory collapse increases the risk of cerebral palsy in extremely preterm infants
Hirosuke Inoue1,2, Yuki Matsushita1,2, Masayuki Ochiai1,2, Yoshito Ishizaki1, Masafumi Sanefuji1, Yasunari Sakai1, Shouichi Ooga1
(1. Department of Pediatrics, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan, 2. Comprehensive Maternity and Perinatal Care Center, Kyushu University, Fukuoka, Japan)

O-123 Functional connectivity on resting state fMRI at term and developmental outcome in preterm infants
Yoko Sakaguchi1, Hiroyuki Kidokoro1, Takeshi Suzuki1, Masahiro Kawaguchi1, Yuki Maki1, Masaharu Tanaka1, Yu Okai1, Yuji Ito1, Hiroyuki Yamamoto1, Tomohiko Nakata1, Miharu Ito1,2, Yoshiaki Sato1,2, Masahiro Hayakawa1,2, Jun Natsume1,3
(1. Department of Pediatrics, Nagoya University Graduate School of Medicine, Nagoya, Japan, 2. Division of Neonatology, Center for Maternal-Neonatal Care, Nagoya University Hospital, Nagoya, Japan, 3. Department of Developmental Disability Medicine, Nagoya University Graduate School of Medicine, Nagoya, Japan)

O-124 The clinical issues about the neurodevelopmental disorders in the very low birth weight babies
Kyouko Hirasawa, Akiko Takeshita, Satoru Nagata
(The Department of Pediatrics, Tokyo Women’s Medical University, Tokyo, Japan)

O-125 Management and outcomes of apnea in trisomy 18 infants
Ryoji Taira1, Hirosuke Inoue2, Saori Kawakami1, Yuri Sonoda1, Yoko Ichimiya1, Michiko Torio1, Yoshito Ishizaki1, Masayuki Ochiai1, Masafumi Sanefuji1, Yasunari Sakai1, Shouichi Ooga1
(1. The department of pediatrics, Kyushu University Hospital, Fukuoka, Japan, 2. General Perinatal Medical Center, Kyushu University Hospital, Fukuoka, Japan)

O-126 The background and symptom of neonate born from mother taking psychotropic drug
Shiori Moriyama, Sachiko Shimozato, Madoka Kazio, Kotaro Umezawa, Sou Uchida, Kyoko Takamura, Shizuka Hirano, Hiroshi Yoneyama (Tachikawa Hospital, Tokyo, Japan)

Oral Presentation 22
Chair: Akira Sudo (Nire-no-kai Children’s Clinic), Hiroshi Ozawa (Shimada-Ryoiku Center Hachioji)

Developmental disorder
O-127 The first visit patients whose chief complaints are learning disability
Hikaru Kitahara1, Miho Fukui1,2, Motoko Ogino1, Shuichi Shimakawa1, Mari Toshikawa2,4, Eiji Wakamiya2,3, Hiroshi Tama1
(1. Department of Pediatrics, Osaka Medical College, Osaka, Japan, 2. LD Center, Osaka Medical College, Osaka, Japan, 3. Department of Nursing, Faculty of Nursing and Rehabilitation, Aino University, Osaka, Japan, 4. Department of Pediatrics, Seikeikai Hospital, Osaka, Japan)

O-128 Soft Neurological Sign and M-ABC2 in children at risk for DCD using new DCD Checklist
Keitaro Sueda1, Ryusaku Hashimoto2, Toshihko Ueda3
(1. Sapporo Child Physical & Mental Health Care Center, Child Psychiatry, Sapporo, Japan, 2. Department of Communication Disorders, School of Rehabilitation Sciences, Health Sciences University of Hokkaido, Ishikari-gun, Japan)

O-129 Relation of Sensory Feature and Autistic Feature.
Toshisasurou Nagai1, Tetsuzo Tagawa2, Yuhta Kotoh3
(1. St. Andrew’s University of Education, Osaka, Japan, 2. Osaka Maternal and Children Hospital, Osaka, Japan, 3. Osaka Developmental Rehabilitation Center)

O-130 Efficacy of Early Interventional Parent Training in Autistic Spectrum Disorders
Keiko Maeda1, Atsuko Matsuizaki2, Jun-Ichi Yamamoto3
O-131 The proposal of new short time ABA (Applied Behavior Analysis) for autistic spectrum disorders (ASD)

Takako Maruyama
Genkichi Izumi
Kyoko Hoshino
Ryuji Fujisaka

O-132 Specificity of infantile sleep disorder at Autism Spectrum disorder

Maki Nozaki, Kyoko Hoshino, Yuri Nagao, Kazue Kimura, Michio Fukumizu, Masaharu Hayashi

Oral Presentation 23

Chair: Nobutsune Ishikawa (Department of Pediatrics, Hiroshima University Hospital), Shuichi Shimakawa (Department of Pediatrics, Osaka Medical College)

Development

O-133 Obstructive sleep apnea in children with Down syndrome

Masaya Tachibana, Ikuko Hirata, Rie Nakai, Ryoko Hayashi, Junpei Tanigawa, Shin Nabatame, Kumi Katoh, Kuriko Shimono, Ikuko Mohri, Keichi Ozono, Masako Taniike

O-134 Assessment of adaptive functioning in persons with Down syndrome - a preliminary report

Mariko Yagi, Yoko Matsumoto, Mio Nishimura, Yoko Kawasaki

O-135 A study on developmental of children with West syndrome associated with tuberous sclerosis complex

Fumika Endoh, Hiroki Tsuchiya, Yuki Hyodo, Mutsumi Mizuno, Kiyohiro Kim, Yoshiyuki Hanaoka, Takashi Shibata, Mari Akiyama, Katsuhiko Kobayashi

O-136 Safety and efficacy of everolimus for SEGA or renal AML with tuberous sclerosis complex

Kazuaki Yamaguchi, Ryohi Kurihara, Aiko Katsura, Fumiko Matsuoka, Masataka Yonemura

O-137 Spina bifida with autism spectrum disorder and intellectual disability

Keiko Koterazawa, Eriko Inoue, Shinji Kitayama

O-138 Sensorimotor developmental prognosis of children with congenital heart disease after cardiac surgery

Yuichiro Matsuoka, Yukiko Nakamura, Hiroshi Ozawa, Yuri Ozawa, Maki Ohsawa, Chika Kono, Ai Ito

Oral Presentation 24

Chair: Soichiro Tanaka (Home Care Clinic for Children, Hokkori Sendai), Naoyuki Tanuma (Department of Pediatrics, Tokyo Metropolitan Fuchu Medical Center for the Disabled)

Home care / Welfare / Support

O-139 Seminars for Designated Doctors under Article 15th of Act on Welfare of Physically Disabled Persons

Koichi Aizaki, Yuri Ujiie, Fuyumi Aizaki, Michiko Fukuhara, Kiyoshi Kikumoto
O-140 An assignment of pediatric home care as seen from the survey of Nagoya City pediatrician Mihoko Mizuno1,2
   (1.Nagoya City pediatrician Bord, Nagoya, Japan, 2.Daido Hospital Children’s Medical Center, Nagoya, Japan)

O-141 Care burden of dyskinetic cerebral palsy due to chronic bilirubin encephalopathy in preterm infants
   Satoshi Mizutani, Yukihiro Kitai, Naomi Okuyama, Mika Hirotsune, Kaeko Ogura, Satori Hirai, Hiroshi Arai (Bobath Memorial Hospital, Osaka, Japan)

O-142 Two cases of ambulant cerebral palsy who developed psychosomatic symptoms
   Naomi Okuyama, Satoshi Mizutani, Mika Hirotsune, Kaeko Ogura, Satori Hirai, Yukihiro Kitai, Hiroshi Arai (Bobath Memorial Hospital, Osaka, Japan)

O-143 Questionnaire survey on disaster countermeasures of medical care children in Kurashiki
   Hiroto Akaike1, Michiko Inoue2, Shinichi Watabe3, Nobuyoshi Mimaki4, Fumi Nakagawa5
   (1.The Department of Pediatrics, Kawasaki Medikal School, 2.Department of Pediatric Neurology, National Hospital Organization Minami-Okayama Medical Center, 3.Department of Pediatrics, Kurashiki Central Hospital, 4.Department of Pediatrics, Kurashiki Medical Center, 5.Tsubasa clinic)

O-144 Case report: End-of-life care at home with Advance Care Planning for SMID
   Hiroshi Wada, Masahisa Funato, Yoshitaka Iijima (Department of Home Medical Treatment & Pediatrics of Osaka Developmental Rehabilitation Center)

Oral Presentation 25

Chair: Koichi Maruyama (Aichi Developmental Disability Center), Noriyuki Akasaka (Niigata Prefecture Hamagumi Medical Rehabilitation Center for Disabled Children)

Cerebral palsy 2

O-145 Single session of robot training using of Hybrid Assistive Limb for children with motor disabilities
   Mayumi Matsuda1, Shogo Nakagawa2, Nobuaki Iwasaki1,2, Tomohiro Nakayama3, Junko Nakayama4, Aritp Youzu5, Haruka Ohguro3, Kayo Tokeji1, Renichi Yoshikawa1, Kazushi Takahashi1, Keiko Enomoto1, Kumiko Sano1, Aoi Kubota1, Hirota Mutsuzaki6
   (1.Department of Physical Therapy, Ibaraki Prefectural University of Health Sciences Hospital, 2.Department of Orthopaedic Surgery, Ibaraki Prefectural University of Health Sciences Hospital, 3.Department of Pediatrics, Ibaraki Prefectural University of Health Sciences Hospital, 4.Center for Medical Science, Ibaraki Prefectural University of Health Sciences)

O-146 Pediatric constraint-induced movement therapy: Report of 2 cases
   Ryo Tanabe, Kentaro Sano, Kana Kojima, Kaoru Uchiyama, Atsuko Waku, Mitsuko Ishii
   (Department of Child Neurology, Chiba Rehabilitation Center, Chiba, Japan)

O-147 A report of seven children cases performed Constraint-induced movement therapy
   Manaka Matsunaga1, Hisashi Tsuru2, Chihiro Yonee3, Nozomi Sano4
   (1.Minami Kyushu National Hospital, Kagoshima, Japan, 2.Kagoshima Prefectural Hokusatsu Hospital, Kagoshima, Japan)

O-148 The effect of spinal surgery on 6 patients with physical and intellectual disabilities
   Yoko Matsumoto, Mariko Yagi, Mio Nishimura, Yoko Kawasaki (NikoNiko House Medical and Welfare Center)

O-149 Paroxysmal sympathetic hyperactivity in pediatric patients with severe brain damage.
   Kazuhiro Haginoya1, Wakaba Endo1, Takehiko Inui1, Yukimune Okubo1, Ryo Sato1, Takuya Miyabayashi1, Morie Shibuya1, Yusuke Takezawa1, Noriko Togashi1
   (1.Department of Pediatric Neurology, Miyagi Children’s Hospital, 2.Department of Pediatrics, Tohoku University)

O-150 Risk factor of colon cancer among persons with profound multiple learning disabilities
   Satoshi Honjo1, Yoichiro Ohno1,2
   (1.Department of Paediatrics, National Hospital Organization Fukuoka Hospital, Fukuoka, Japan, 2.Ohno Paediatrics and Internal Medicine Clinic, Nogata, Japan)
Oral Presentation 26

Chair: Naomi Hino-Fukuyo (Department of Pediatrics, Tohoku University School of Medicine), Ryutaro Kira (Department of Pediatric Neurology, Fukuoka Children’s Hospital)

Immunity / Infection

O-151 Multiple sclerosis diagnosed by brain biopsy
Takaaki Sawada, Shiro Ozasa, Keiko Nomura, Ken Momosaki, Tomoko Kashiki, Shiro Matsumoto (Pediatrics, Kumamoto University, Kumamoto, Japan)

O-152 Cut-off levels of measles antibodies in cerebrospinal fluid for diagnosis of SSPE
Takeshi Matsushige, Ippei Hidaka, Hikaru Kobayashi, Fumitaka Kouno, Momoko Oka, Hirofumi Inoue, Madoka Hoshide, Shunji Hasegawa (Department of Pediatrics, Yamaguchi University Graduate School of Medicine, Yamaguchi, Japan)

O-153 The relationship between cerebral herniation and elevated C-reactive protein

O-154 Survey on indication of cerebrospinal fluid examination
Gen Furukawa¹, Soichiro Ishimaru¹, Satoru Kisohara¹, Yoshihiko Kawamura², Naoko Ishihara¹, Tetsushi Yoshikawa²
(1.Department of Pediatrics, Toyokawa City Hospital, Toyokawa, Japan, 2.Department of Pediatrics, Fujita Health University School of Medicine, Toyoake, Japan)

O-155 Three cases of opsoclonus-myoclonus syndrome
Tomokazu Kimizu, Shodo Hirano, Ken Nakajima, Taikan Oboshi, Taie Ikeda, Yukico Mogami, Keiko Yanagihara, Yasuhiro Suzuki (Department of Pediatric Neurology, Osaka Women’s and Children’s Hospital, Osaka, Japan)

O-156 Three cases of recurrent cerebellar ataxia treated with mPSL pulse therapy to maintain remission.
Hikari Kaba¹, Tatsuro Kumaki¹, Ayako Yamamot¹, Azusa Ikeda¹, Yu Tsuyusaki¹, Megumi Tsuji¹, Mizue Iai¹, Sumimasa Yamashita¹, Tomohide Goto¹, Yuki Tsuchi Takahashi²
(1.Division of Neurology, Kanagawa Children’s Medical Center, Yokohama, Japan, 2.Shizuoka Institute of Epilepsy and Neurological Disorders)

Oral Presentation 27

Chair: Terumi Murakami (Department of Pediatrics, Tokyo Women’s Medical University/Department of Neurology, National Hospital Organization Higashisaitama Hospital), Tatsuya Fujii (Department of Pediatrics, Shiga Medical Center for Children; Shiga Prefectural Hospital Operation Agency)

Spinal muscular atrophy

O-157 Long term efficacy of nusinersen for SMA type1 in monovular twins from three months after birth
Takahiro Motoki¹, Kaori Aibara¹, Jogamoto Toshihiro¹, Kozo Nagai¹, Kei Makino², Eiichi Ishii¹
(1.Department of Pediatrics, Ehime University Graduate School of Medicine, Toon, Ehime, Japan, 2.Department of Pediatrics, Ehime Prefectural Niihama Hospital)

O-158 A case of spinal atrophy type 1 with nusinersen therapy extubated by NPPV and MI-E
Kentarou Kawanuma¹, Akiyo Yamamot², Shinsuke Kato², Kouhei Ishida², Tomoyuki Dobata¹, Shinnosuke Fukumura²
(1.Life-Long Care Clinic for Disabled people, Toseikai Healthcare Corporation, Sapporo, Japan, 2.Department of Pediatrics, Sapporo Medical University, Sapporo, Japan)

O-159 Hydrocephalus related to nusinersen treatment in a patient with spinal muscular atrophy type 1
Naoko Takase, Mizuho Hujita, Yuka Murofushi, Kentaro Sato, Katuhiko Abe, Takuya Matsui, Nozomi Hirai, Kumi Yasukawa, Takaharu Honda, Hiromichi Hamada, Junichi Takenashi (Tokyo Woman’s Medical University Yachiyo Medical Center)

O-160 Three patients with spinal muscular atrophy type 1 who started nusinelsen treatment after 1-year-old
Masashi Nagai¹, Hiroyuki Awano², Ryosuke Bo¹, Mariko Murao¹, Yusuke Ishida¹, Kazumi Tomioka¹, Tsukasa Tanaka¹, Masahiro Nishiyama¹, Hiroaki Nagase¹, Hisahide Nishio², Kazumoto Iijima¹
O-161 Effect of nusinersen on gross and fine motor - A case of spinal muscular atrophy type I -
Mikiko Hasegawa¹, Hayato Suzuki², Kaoru Etou³, Reiko Arakawa⁴, Futoshi Wada⁵, Satoru Nagata⁶, Tetsuo Inukai⁷, Kayoko Saito⁸
¹Department of Rehabilitation Medicine, Saitama Medical Center, Dokkyo Medical University, ²Department of Anesthesiology, National Hospital Organization Toneyama National Hospital, ³Department of Pediatrics, Aichi Medical University, ⁴Department of Orthopedics, Aichi Medical University, ⁵Department of Pediatrics, Tokyo Women’s Medical University, ⁶Department of Rehabilitation, Kyushu University, ⁷Department of Pediatrics, Toyonaka, ⁸Department of Occupational Therapy, Kobe Gakuin University, Kobe, Japan)

O-162 Experience of nusinersen treatment to adult patients with spinal muscular atrophy
Toshio Saito¹, Yuriko Matsuoka², Hiroshi Yamamoto³, Yuto Takada⁴, Tsuyoshi Matsumura⁵, Hisahide Nishio⁶
¹Division of Child Neurology, Department of Neurology, National Hospital Organization Toneyama National Hospital, Toyonaka, Japan, ²Department of Rehabilitation, Tokyo Women’s Medical University, ³Department of Neurology, National Hospital Organization Toneyama National Hospital, Toyonaka, Japan, ⁴Department of Neonatology and Pediatrics, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan, ⁵Kuma home medical care clinic, ⁶Department of Rehabilitation, Hyogo Chuo National Hospital, Hyogo, Japan, ⁷Department of Rehabilitation, National Hospital Organization Toneyama National Hospital, Toyonaka, Japan, ⁸Department of Neurology, National Hospital Organization Toneyama National Hospital, Toyonaka, Japan, ⁹Department of Occupational Therapy, Kobe Gakuin University, Kobe, Japan)

Oral Presentation 28
Chair: Hiroyuki Awano (Department of Mental Health for Children and Parents, Kobe University Hospital), Akihiko Ishiyama (National Center Hospital of Neurology and Psychiatry)

Spinal muscular atrophy 2
O-163 Intrathecal nusinersen injection by paramedian approach for adults with spinal muscular atrophy
Hideyuki Iwayama¹, Norimitsu Wakao², Shingo Numoto¹, Hirokazu Kurahashi¹, Norika Kubota³, Ayako Hattori⁴, Toshiyuki Kumagai⁵, Akihisa Okumura¹
¹Department of Pediatrics, Aichi Medical University, Nagakute, Aichi, Japan, ²Department of Orthopedics, Aichi Medical University, Nagakute, Aichi, Japan, ³Department of Pediatrics, National Hospital Organization Toneyama National Hospital, Toyonaka, Japan, ⁴Department of Neurology, National Hospital Organization Toneyama National Hospital, Toyonaka, Japan, ⁵Department of Neonatology and Pediatrics, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan, ⁶Kuma home medical care clinic, Nagoya, Aichi, Japan, ⁷Department of Rehabilitation, National Hospital Organization Toneyama National Hospital, Toyonaka, Japan, ⁸Department of Occupational and Environmental Health Japan, Kitakyushu, Japan, ⁹Kuma home medical care clinic, Nagoya, Aichi, Japan)

O-164 Two cases of spinal muscular atrophy administered Nusinersen after spinal fusion surgery.
Tomofumi Fukuda¹, Masahiro Ishii², Ryota Igarashi¹, Yumeko Matsuda¹, Ayako Senju¹, Shiho Takano¹, Naoki Shiotai¹, Masayuki Shimono¹, Koichi Kusuhara¹, Takeshi Saito³
¹University of Occupational and Environmental Health Japan, Kitakyushu, Japan, ²University of Occupational and Environmental Health Japan, Kitakyushu, Japan)

O-165 Evaluation of efficacy of Nusinersen in patients with spinal muscular atrophy using cumulative jerk
Tatsuya Fuji¹,², Akihito Nozaki¹, Kenji Inoue¹, Saeko Sasaki¹, Minoru Shibata¹, Mioko Mori¹, Anri Hayashi¹, Atsushi Mori¹, Tomohiro Kumada¹
¹Department of Pediatrics, Shiga Medical Center for Children, Moriyama, Japan, ²Shiga Prefectural Hospital Operation Agency

O-166 Experience of rehabilitation using small model HAL for children with spinal muscular atrophy type II
Kazuki Kodera¹, Takashi Nakajima², Taiki Nakabayashi¹, Satoru Kinoshita¹, Toshiaki Suzuki¹, Hidehiko Fujinaka¹, Shuichi Tomizawa¹
¹The Department of Pediatrics, Niigata National Hospital, Niigata, Japan, ²The Department of Neurology, Niigata National Hospital, Niigata, Japan

O-167 Early Diagnosis and Speed to Effect in Spinal Muscular Atrophy Type 1 (SMA1)
Omar Dabbous, Marcus Drooge, Douglas E. Feltner, Aaron Novack, Melissa Menier, Douglas M. Sproule (AveXis, Inc., Bannockburn, Illinois, USA)

Meredith Schultz, Kathryn Swoboda, Michelle Farrar, Hugh Mcmillan, Julie Parsons, Kayoko Saito, Mari Matsuo, Tamaki Kato, Courtney Wells, Francis G. Ogrinc, Bryan E. McGill, Douglas E. Feltner, James Litalien, Douglas M. Sproule, Kevin A. Strauss

(1.University of Wisconsin School of Medicine and Public Health, Madison, WI, USA, 2.Massachusetts General Hospital, Boston, MA, USA, 3.Sydney Childrens Hospital, Randwick, Australia, 4.Childrens Hospital of Eastern Ontario, Ottawa, Canada, 5.Childrens Hospital Colorado, Aurora, CO, USA, 6.Tokyo Womens Medical University, Tokyo, Japan, 7.AveXis Inc., Bannockburn, IL, USA, 8.Clinic for Special Children, Strasburg, PA, USA)

Oral Presentation 29

Chair: Hiromichi Ito (Department of Special Needs Education, Graduate School of Education, Naruto University of Education), Satoru Takahashi (Department of Pediatrics, Asahikawa Medical University)

Genetics / Genetic abnormality 2

O-169 Renal dysfunction and CSA mutation of Cockayne syndrome in Japan

Risa Hashimoto, Masaya Kubota

(1.Center for Postgraduate Education and Training, National Center for Child Health and Development, Tokyo, Japan, 2.Division of Neurology, National Center for Child Health and Development, Tokyo, Japan)

O-170 Sensorineural deafness in Takenouchi-Kosaki syndrome

Toshiki Takenouchi, Takao Takahashi, Kenjiro Kosaki

(1.Department of Pediatrics, Keio University School of Medicine, Tokyo, Japan, 2.Center for Medical Genetics, Keio University School of Medicine, Tokyo, Japan)

O-171 Clinical evaluation of Rett syndrome using four major severity scales.

Yuki Anzai, Kyoko Hoshino, Yuri Nagao, Michio Fukumizu, Kazue Kimura, Masaharu Hayashi, Koutaro Yugo, Tomoko Saikusa, Masayuki Ito, Toyojiro Matsuishi

(1.Segawa Memorial Neurological Clinic for Children, Tokyo, Japan, 2.Tokyo Bay Urayasu Ichiwaka Medical Center, 3.Department of Pediatrics and Child Health, Kurume University School of Medicine, Fukuoka, Japan, 4.National Center of Neurology and Psychiatry, Tokyo, Japan, 5.Cognitive and Molecular Research Institute of Brain Diseases)

O-172 Familial Hemiplegic migraine of Japanese cases with PRRT2 mutation.

Sato Suzuki-Muromoto, Masaya Kubota

(National Center for Child Health and Development, Tokyo, Japan)

O-173 Genetic testing of fragile X syndrome and related disorders covered by public health insurance.

Eiji Nanba, Karoi Adachi, Tetuya Okazaki, Tomomi Inoue, Kenich Tadokoro

(1.Research Strategy Division, Organization for Research Initiative and Promotion, Tottori University, Yonago, Japan, 2.Clinical Genetics, Tottori University Hospital, Yonago, Japan, 3.Center for Research Initiative, Organization for Research Initiative and Promotion, Tottori University, Yonago, Japan, 4.Division of Child Neurology, Tottori University Hospital, Yonago, Japan, 5.Bio Medical Laboratory, BML, Inc., Tokyo, Japan)

O-174 How could we support for individuals and families with Fragile-X syndrome after diagnosis in Japan

Miyuki Torii, David Hessl, Randi Hagerman

(1.Graduate School of Human Development and Environment, Kobe University, Kobe, Japan, 2.Medical Investigation of Neurodevelopmental Disorders (MIND) Institute, University of California Davis, CA/ U.S.)

Oral Presentation 30

Chair: Yuichi Abe (National Center for Child Health and Development Division of Neurology), Shin Nabatame (Department of Pediatrics, Graduate School of Medicine, Osaka University)

Neurodegenerative disease / Peripheral nerve
O-175 Clinical data on childhood-onset Alexander disease
Tomokatsu Yoshida 1, Ikuko Mizuta 1, Rei Yasuda 1, Jun Matsuura 1, Kozo Saito 1, Masanori Nakagawa 1, Toshihiko Mizuno 1
(1.Department of Neurology, Graduate School of Medical Science, Kyoto Prefectural University of Medicine, Kyoto, Japan, 2.Department of Neurology, North Medical Center, Kyoto Prefectural University of Medicine, Kyoto, Japan)

O-176 High risk screening and pathological analysis of Neuronal ceroid lipofuscinosis (NCL) 1 and 2
Rina Itagaki 1, Takeo Iwamoto 3, Mohammad Arif Hossain 1, Hiroko Yanagisawa 1, Takashi Miyajima 1,2, Chen Wu 1,2, Keiko Akiyama 1, Haruo Shintaku 1, Yoshikatsu Eto 1
(1.Advanced Clinical Research Center, Kanagawa, Japan, 2.Institute of Rare disease, AnGes Co., Kanagawa, Japan, 3.Core Laboratory, Institute of Medical Science, Tokyo Jikei University School of Medicine, Tokyo, Japan, 4.Department of Pediatrics, Osaka City University Graduate School of Medicine, Osaka, Japan)

O-177 A sibling case of CMT type4b1 with vocal cord paralysis associated with a mutation in the MTMR2 gene
Shinsuke Katou 1, Akiyo Yamamoto 1, Shinobu Fukumura 1, Yuuji Higuchi 2, Akihiro Hashiguchi 1, Hiroshi Takashima 2
(1.Department of Pediatrics, Sapporo medical university, Sapporo, Japan, 2.Department of Neurology and Geriatrics, Kagoshima University Graduate School of Medical and Dental Sciences, 3.Hokkaidou Chitose college of Rehabilitation)

O-178 A 12-year-old boy with cervical spondylotic amyotrophy
Mayumi Iwama, Shota Yuasa, Shugo Misato, Soichiro Toda (Department of Pediatrics, Kameda Medical Center, Chiba, Japan)

O-179 A 12-year-old boy with cervical spondylotic amyotrophy
Mayumi Iwama, Shota Yuasa, Shugo Misato, Soichiro Toda

O-180 Clinical and genetic analysis of 91 patients with childhood onset spastic paraplegia
Kazuhiro Haginoya 1, Yusuke Takezawa 1, Takehiko Inui 1, Yukimune Okubo 1, Ryo Sato 1, Noriko Togashi 1, Tomoyo Matsubara 1, Aya Narita 1
(1.Department of Pediatric Neurology, Miyagi Children’s Hospital, 2.Department of Human Genetics, Yokohama City University Graduate School of Medicine, 3.Department of Pediatrics, Tohoku University, 4.Department of Biochemistry, Hamamatsu University School of Medicine)

Oral Presentation 31
Chair: Yuji Inaba (Division of Neurology, Nagano Children’s Hospital), Yukio Sawaishi (Akita Prefectural Center on Development and Disability)

Cerebrovascular disease / Surgery
O-181 Nation-wide survey in Japan for childhood spinal cord infarction
Shou Hagiwara, Katsunori Fujii, Kensuke Fujisiro, Daisuke Sawada, Hajime Ikehara, Hiromi Aoyama, Tomoko Uchida, Tadashi Siohama, Hidenori Uchikawa, Naoki Simojyou
(Department of Pediatrics, Chiba University Graduate School of Medicine, Chiba, Japan)

O-182 Nation-wide survey in Japan for childhood spinal cord infarction
Kensuke Fujisiro, Katsunori Fujii, Syo Hagiwara, Daisuke Sawada, Hajime Ikehara, Hiromi Aoyama, Tomoko Uchida, Tadashi Siohama, Hideki Uchikawa, Naoki Simojyou
(Department of Pediatrics, Chiba University Graduate School of Medicine)

O-183 Neurological complications after hematopoietic stem cell transplantation in children
Eri Ohashi, Atsushi Satou, Mitduteru Hiwatari, Konomi Shimoda, Akira Takenaka, Yuichi Mitani, Yu Kakimoto, Takayuki Mori (Department of pediatrics, The University of Tokyo Hospital, Tokyo, Japan)

O-184 L-arginine therapy at super-acute phase improved clinical symptoms, MRI abnormality and GDF15.
Yasutoshi Koga, Miyuki Kitamura, Shuichi Yatsuga (Department of Pediatrics and Child Health, Kurume University School of Medicine, Fukuoka, Japan)

O-185 Subdural hemorrhage in Japanese medical literature: No witnessed low energetic severe case
was found
Ryo Sugitate, Fumitake Mizoguchi, Atsushi Matsui (Department of Pediatrics, Japanese
Red Cross Maebashi Hospital, Maebashi, Japan)
O-186 Retrospective study of 100 children with sacral dimples at health check-up
Haruka Okada, Manami Honda (Micri Kids Clinic, Tokyo, Japan)

Oral Presentation 32
Chair: Gaku Yamanaka (Department of Pediatrics, Tokyo Medical University),
Masao Kawatani (Department of Pediatrics, University of Fukui Hospital)
Mental disorders / Headache / Autonomic system
O-187 Clinical characteristics of boys with eating disorder
Ryoko Otani1, Naho Matsushima1, Tasuku Kitajima1, Akari Arakawa1, Takeshi Inoue1,
Yuki Koshino2, Hisashi Itabashi2, Keiichi Shimamura2, Nobuyuki Murakai2, Ryoichi
Sakuta1
(1.Cgild Development and Psychosomatic Medicine Center, Dokkyo Medical University
Saitama Medical Center, Saitama, Japan, 2.Pediatrics, Dokkyo Medical University
Saitama Medical Center, Saitama, Japan)
O-188 Early detection of children with eating disorders: notification over the past five years.
Naho Matsushima, Ryoko Otani, Yuki Koshino, Akari Arakawa, Tasuku Kitajima, Takeshi
Inoue, Keiichi Shimamura, Hisashi Itabashi, Nobuyuki Murakami, Ryoichi Sakuta (Child
Development and Psychosomatic Medicine Center, Dokkyo Medical University Saitama
Medical Center, Saitama, Japan)
O-189 Care for children who showed stress symptoms after West Japan heavy rain around Kurashiki
city
Mina Kono, Hirotaka Akaike, Atsushi Kato, Eisuke Kondo (Department of Pediatrics,
Kawasaki Medical School Hospital, Kurashiki, Japan)
O-190 A girl overlapping paroxysmal extreme pain disorder and erythromelalgia with SCN9A mutation
Kazuki Tsukamoto1, Mizuki Akiyoshi1, Ryotakegawa1, Misaki Matsumura1, Mako Ago1,
Naoaki Shibata1, Yasuhiro Haneda1, Shigei Nakashima1, Kenji Yasuda1, Jun Mine2,
Hiroshi Takashima3, Takeshi Taketani1
(1.Department of Pediatrics, Shime University Faculty of Medicine, Shimane, Japan,
2.Shizuoka Institute of Epilepsy and Neurological Disorders, 3.Division of Neurology
and Geriatrics, Kagoshima University Graduate School of Medical and Dental Sciences,
Kagoshima, Japan)
O-191 Six cases of sporadic hemiplegic migraine
Ayako Fujiwara, Chie Sakata, Taku Nakagawa, Yuichi Takami (Department of Pediatrics,
Himeji Red Cross Hospital, Himeji City, Hyogo, Japan)
O-192 A Study of the Headache Patients who Consulted Our Department
Ikuho Ohashi, Yoshinori Tsuji, Yoshihiro Terrautci, Tsuyoshi Sasaki, Yasuhiro
Shimanouchi (Department of Pediatrics, Mitoyo General Hospital, Kagawa, Japan)

Oral Presentation 33
Chair: Takahiro Yonekawa (Department of Pediatrics, Mie University Graduate School of
Medicine),
Yuko Motohashi (National Center Hospital of Neurology and Psychiatry)
Muscular disease 3
O-193 A case of juvenile myasthenia gravis with 18p deletions.
Jun Kubota1,2,3,4, Shin-Ichiro Hamano2, Atsou Daida2, Satoru Ikemoto3,4, Yuko Hirata2,3,
Ryuki Matsuura2, Reiko Koichihara1
(1.Department of Pediatrics, Atsugi City Hospital, Atsugi, Japan, 2.Division of Neurology,
Saitama Children’s Medical Center, Saitama, Japan, 3.Division of Neurology, The Jikei
University School of Medicine, Tokyo, Japan, 4.Division of Neurology, Saitama Children’s Medical Center, Saitama, Japan)
O-194 Antisynthetase syndrome and dermatomyositis are pathomechanistically different diseases
Michio Inoue1,2, Luh Ari Indrawati1,2, Masashi Ogasawara1,2, Kumutpongpanich
Theerawat1,2, Yoshihiko Saito1,2, Jantima Tanboon1,2, Mariko Okubo1,2, Akinori Uruha3,
Shigeaki Suzuki¹, Ichizo Nishino¹
(1.Department of Neuromuscular Research, National Institute of Neuroscience, National Center of Neurology and Psychiatry, Tokyo, Japan, 2.Department of Genome Medicine Development, Medical Genome Center, National Center of Neurology and Psychiatry, Tokyo, Japan, 3.Department of Neurology, Tokyo Metropolitan Neurological Hospital, Tokyo, Japan, 4.Department of Neurology, Keio University School of Medicine, Tokyo, Japan)

O-195 Characteristic findings of skeletal muscle MRI in childhood-onset Caveolinopathy
Kumiko Ishiguro¹, Keiko Ishigaki¹, Takahiro Nakayama², Takatoshi Sato², Minobu Shichiji¹, Terumi Murakami¹,³, Sachiko Kajino¹, Nobuyuki Murakami¹, Mariko Okubo⁵, Yukiko Hayashi⁶, Ichizo Nishino⁶, Satoru Nagata¹
(1.Department of Pediatrics, Tokyo Women's Medical University, School of Medicine, Tokyo, Japan, 2.Department of Neurology, Yokohama Rosai Hospital, Yokohama, Japan, 3.Department of Neurology, Higashisaitama National Hospital, Japan, 4.Department of Neuromuscular Research, Dokkyo Medical University, Saitama Medical Center, 5.Department of Neuromuscular Research, National Institute of Neuroscience, National Center of Neurology and Psychiatry (NCNP), Tokyo, Japan, 6.Department of Pathophysiology, Tokyo Medical University, Tokyo, Japan.)

O-196 Research study on the prognosis of glycogen storage disease type 3: Analysis of adult cases
Tokiko Fukuda¹, Rei Urushibata¹, Taiju Hayashi¹, Hidetoshi Ishigaki¹, Takuya Hirade¹, Masanori Takahashi¹, Yume Suzuki¹, Mika Ishige¹, Hideo Sugie¹
(1.Pediatric Department, Hamamatsu Medical University, Hamamatsu, Japan, 2.Department of Neurology, Osaka University, Osaka, Japan, 3.Department of General Internal Medicine, Yokohama City University Medical Center, Yokohama, Japan, 4.Department of Pediatrics, Nihon University Hospital, Tokyo, Japan, 5.Faculty of Health and Science, Tokoha University, Hamamatsu, Japan)

O-197 Two cases of myotonic dystrophy with atrial flutter in the young
Kosuke Tsuchida¹, Shinobu Fukumura², Shinsuke Kato², Akiyo Yamamoto², Kentaro Kawamura³, Toshio Ohara¹, Masato Yokozawa³
(1.Department of Pediatrics, Hakodate Municipal Hospital, Hakodate, Japan, 2.Department of Pediatrics, School of Medicine, Sapporo Medical University, Sapporo, Japan, 3.Syogaiiryo clinic sapporo, Sapporo, Japan, 4.Department of Pediatrics, Tomakomai City Hospital, Tomakomai, Japan, 5.Department of Pediatrics, Betsukai Town Hospital, Betsukai, Japan)

O-198 A case of paramyotonia congenita that had difficulty in differentiation with myotonia congenita
Masaru Nasuno¹, Takenori Natsume¹, Toshimitsu Yanagisawa¹, Mitsuo Motobayashi¹,², Sachiko Nagaharu³, Tetsuhiro Fukuyama¹,⁴
(1.Department of Pediatrics, Shinsu University School of Medicine, Matsumoto, Japan, 2.Department of Neurology, Nagano Children's Hospital, Azumino, Japan, 3.Ina central hospital, Ina, Japan, 4.Department of Neonatology and Developmental Medicine, Shinsu University School)

Poster Presentation 1
Poster session Award
P-001 Aberrant molecular signaling in EFTUD2-associated microcephaly
Sayaka Okuzono¹, Hiroyuki Yamamoto¹, Satoshi Akamine¹,³, Noriko Miyake², Yasunari Sakai¹, Naomichi Matsumoto², Shouichi Ooga¹
(1.Department of Pediatrics, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan, 2.Department of Human Genetics, Yokohama City University, Yokohama, Japan, 3.Fukuoka Children's Hospital, Fukuoka, Japan)

P-002 Usefulness of the Genetic Testing of Spinal Muscular Atrophy
Syuhei Ohnuma, Tsunenoi Shimizu, Kazumi Kenmochi, Hiroyuki Hirai, Makoto Nagano, Toshikazu Yamaguchi (BML,INC., Saitama, Japan)

P-003 Establishment of the therapeutic approach for pediatric neurological diseases utilizing juvenility.
Takao Morimune¹,², Masaki Mori¹
(1.Neurological and Developmental Medicine, Shiga University of Medical Science, Shiga, Japan, 2.The Department of Pediatrics, Shiga University of Medical Science, Shiga, Japan)
P-004  Ictal SPECT findings of startle epilepsy
Kei Iwata¹, Takashi Saito¹, Eri Takeshita¹, Yuko Motohashi¹, Akihiko Ishiyama¹, Hirohumi Komaki¹, Eiji Nakagawa¹, Noriko Sato², Masayuki Sasaki¹
(1.Department of Child Neurology, National Center Hospital, National Center of Neurology and Psychiatry, Tokyo, Japan, 2.Department of Radiology, National Center Hospital, National Center of Neurology and Psychiatry, Tokyo, Japan)

P-005  Brain morphological analysis in PTEN hamartoma tumor syndrome
Tadashi Shiohama¹, Jacob Levman², Lana Vasung², Eri Takahashi²
(1.Department of Pediatrics, Chiba University Graduate School of Medicine, Chiba, Japan, 2.Division of Newborn Medicine, Department of Medicine, Boston Children’s Hospital, Harvard Medical School, Boston, MA, United States)

P-006  Alteration of structural brain network in patients with epilepsy after successful corpus callosotomy
Riyo Ueda¹, Hiroshi Matsuda², Noriko Sato³, Masaki Iwasaki⁴, Eri Takeshita⁵, Yuko Motohashi⁶, Akihiko Ishiyama⁷, Takashi Saito⁵, Eiji Nakagawa⁵, Kenji Sugai⁵, Masayuki Sasaki⁶, Yoshimi Kaga¹, Hiroshige Takeichi¹, Minami Inagaki¹
(1.Department of Developmental Disorders, National Institute of Mental Health, National Center of Neurology and Psychiatry, Tokyo, Japan, 2.Integrative Brain Imaging Center, National Center of Neurology and Psychiatry, Tokyo, Japan, 3.Department of Radiology, National Center of Neurology and Psychiatry Hospital, Tokyo, Japan, 4.Department of Neurosurgery, National Center of Neurology and Psychiatry Hospital, Tokyo, Japan, 5.Department of Child Neurology, National Center of Neurology and Psychiatry Hospital, Tokyo, Japan, 6.Industrial Cooperation Team, Nishina Center for Accelerator-Based Science, RIKEN, Wako, Japan)

P-007  Usefulness of MRI and MRS in bone marrow transplantation for adrenoleukodystrophy
Naoko Yano, Takeshi Yoshida, Kanako Maizuru, Atsushi Yokoyama, Junko Takita (The department of pediatrics, Kyoto University Hospital, Kyoto, Japan)

P-008  The pathogenesis of peripheral neuropathy in congenital cerebral hypomyelination
Numata-Uematsu Yurika¹, Uematsu Mitsugu¹, Inoue Ken², Kure Shigeo¹
(1.Department of Pediatrics, Tohoku University School of Medicine, Sendai, Japan, 2.Department of mental retardation and birth defect research, national center of neurology and psychiatry, Kodaira, Japan)

P-009  Fibrosis in injured muscle is regulated by macrophages in Msr1 and Dystrophin double knock-out mouse
Yoshitaka Mizobe, Shouta Miyatake, Yuko Hara, Hotake Takizawa, Maria Tsoumpra, Joel Nordin, Yasumasa Hashimoto, Taisuke Ohno, Shin'Ichi Takeda, Yoshihisa Aoki
(Department of Molecular Therapy, National Institute of Neuroscience, National Center of Neurology and Psychiatry, Tokyo, Japan)

P-010  Peripheral neuropathy of acute flaccid myelitis clustering during autumn 2015 in Japan
Marie Noda¹, Pin Fee Chong², Sawa Yasumoto³, Akihisa Okumura¹, Harushi Mori³, Ryutarou Kira², Keiko Taya², Hiroyuki Torisu²
(1.Section of Pediatrics, Department of Medicine, Fukuoka Dental College, Fukuoka, Japan, 2.Department of Pediatric Neurology, Fukuoka Children’s Hospital, Fukuoka, Japan, 3.Medical Education Center, Fukuoka University School of Medicine, Fukuoka, Japan, 4.Department of Pediatrics, Aichi Medical University, Nagakute, Aichi, Japan, 5.Department of Radiology, Graduate School and Faculty of Medicine, The University of Tokyo, Tokyo, Japan, 6.Infectious Disease Surveillance Center, National Institute of Infectious Diseases, Tokyo, Japan)

Poster Presentation 2
Genetics (Case reports)
P-011  Genitopatellar syndrome: don’t forget agenesis of patellae
Atsushi Mori¹, Humihito Nozaki¹, Tomohiro Kuma³, Minoru Shibata¹, Anri Hayashi¹, Saeko Sasaki¹, Mioko Mori¹, Kenzi Inoue¹, Tatsuya Huzii², Toshiki Takenouchi², Tomoko Uehara², Kenzirou Kosaki²
(1.Shiga Medical Center for Children, Shiga, Japan, 2.Center for Medical Genetics, Keio University School of Medicine, Tokyo, Japan)
P-012  A case of Freeman-Sheldon syndrome with MYH3 mutation.
P-013 A Case of Aicardi Goutieres syndrome with Moyamoya disease caused by a IFIH1 mutation
Yu Tsuyusaki1, Mizue Iai1, Yoshinori Tsurusaki2, Hiroaki Murakami3, Kenji Kurosawa3, Haruo Shintaku4, Ryuta Nishikomori5, Noriko Aida5, Hikari Kuba1, Tatsuro Kumaki1, Ayako Yamamoto6, Azusa Ikeda7, Megumi Tsuji7, Sumimasa Yamashita8, Tomohide Goto9 (1.Division of Neurology, Kanagawa Children’s Medical Center, Yokohama, Japan, 2.Division of Genetics, Kanagawa Children’s Medical Center, Yokohama, Japan, 3.Center for Medical Genetics, Keio University School of Medicine, Tokyo, Japan, 4.Division of Radiology, Kanagawa Children’s Medical Center, Yokohama, Japan, 5.Department of Pediatrics, Osaka City University Graduate School of Medicine, Osaka, Japan, 6.Department of Pediatrics, Graduate School of Medicine, Kyoto University, Kyoto, Japan)

P-014 Two cases of the Oculocerebrorenal Lowe Syndrome
Ryota Igarashi, Masahiro Ishii, Junpei Shibahara, Mari Saimiya, Tomofumi Fukuda, Masayuki Shimono, Koichi Kusuhara (Department of Pediatrics, University of Occupational Environmental Health, Kitakyushu, Japan)

P-015 A case of Hereditary spastic paraplegia with thin corpus callosum accompanied by Respiratory arrest
Masumi Seki1, Mika Hayakawa1, Naoko Koseki1, Susumu Sugihara1, Yoshiko Suzuki1, Motoyuki Minamitani1, Yukikatsu Ochiai1, Chisen Takeuchi1, Tomoko Uehara1, Toshiki Takenouchi1, Kenjiro Kosaki3, Masayuki Imai1 (1.Department of Pediatrics, Tokyo Metropolitan Kita Medical and Rehabilitation Center for The Disabled, Tokyo, Japan, 2.Department of Neurology, Tokyo Metropolitan Kita Medical and Rehabilitation Center for The Disabled, Tokyo, Japan, 3.Center for Medical Genetics, Keio University School of Medicine, Tokyo, Japan, 4.Department of Pediatrics, Keio University School of Medicine, Tokyo, Japan)

P-016 A case of congenital central hypoventilation syndrome presenting sinus pause
Susumu Sugihara, Masumi Seki, Naoko Koseki, Yoshiko Suzuki, Mika Hayakawa, Motoyuki Minamitani, Yukikatsu Ochiai, Masayuki Imai (Department of Pediatrics, Tokyo Metropolitan, Kita Medical and Rehabilitation Center for Handicapped, Tokyo, Japan)

Poster Presentation 3
Genetics (Chromosome)
P-017 The evaluation of prognosis and discharge in 21 cases of trisomy 18 in our hospital
Kento Ota, Tomotsune Domoto, Masami Togawa (Department of Pediatrics, Tottori Prefectural Central Hospital, Tottori, Japan)

P-018 Different epileptic features in two aged Down syndrome patients with dementia
Yumi Okoshi1, Michio Fukumizu1,2, Jinrou Nagata1 (1.Department of Pediatrics, Tokyo Metropolitan Fuchu Medical Center for the Disabled, Tokyo, Japan, 2.Segawa Memorial Neurological Clinic for Children)

P-019 A boy of isodicentric chromosome 15 syndrome which was diagnosed with his frequent myoclonic seizure
Minako Ide, Takeo Kato, Takako Matumoto, Toshiro Maihara (Department of Pediatrics, Hyogo Prefectural Amagasaki General Medical Center, Hyogo, Japan)

P-020 A new case of 19q13.32 deletion with psychomotor delay, characteristic face, cardiac malformation
Tomoe Yanagishita1, Keiko Yamamoto1, Umiko Ondo1, Nobuhiko Okamoto3, Satoru Nagata2, Toshiyuki Yamamoto1 (1.Department of Pediatrics, Tokyo Women’s Medical University, Tokyo, Japan, 2.Department of Pediatrics, Tokyo Women’s Medical University, Tokyo, Japan, 3.Department of Medical Genetics, Osaka Medical Center and Research Institute for Maternal and Child Health, Osaka, Japan)
P-021 A case of mosaic variegated aneuploidy syndrome in a 2-year-old girl
Satomi Okano¹, Mika Nakajima², Yoshio Makita³, Kayano Kimura¹, Ikue Fukuda¹, Akie Miyamoto¹, Hajime Tanaka¹
(1.Hokkaido Asahikawa Habilitation Center for Disabled Children, Asahikawa, Japan, 2.Department of Pediatrics, Hakodate Chuo Hospital, Hakodate, Japan, 3.Education Center, Asahikawa Medical University)

P-022 Six patients with subtelomeric deletions of 10q
Taichi Imaizumi¹,², Keiko Yamamoto¹, Takashi Shiihara³, Nobuhiko Okamoto⁴, Toshiyuki Yamamoto⁴
(1.Institute of Medical Genetics, Tokyo Women’s Medical University, Tokyo, Japan, 2.Department of Pediatrics, St. Marianna University school of Medicine, Kawasaki, Japan, 3.Department of Neurology, Gunma Children’s Medical Center, Gunma, Japan, 4.Department of Medical Genetics, Osaka Women’s and Children’s Hospital, Osaka, Japan)

Poster Presentation 4
Genetics (Research)
P-023 Establishment of PCR decontamination laboratory for clinical sequence using dUTP-UDG system
Yo Niida, Sumihito Togi, Daiki Ura, Mamoru Ozaki (Center for Clinical Genomics, Kanazawa Medical University Hospital, Ishikawa, Japan)
P-024 Transgenic mice with a tandem duplication of the Neddin gene overexpress Neddin
Tatsuya Kishino (Division of Functional Genomics, Center for Frontier Life Sciences, Nagasaki University, Nagasaki, Japan)
P-025 Elucidation of a mechanism of a female with Pelizaeus-Merzbacher disease and treatment strategy
Keiko Yamamoto¹, Yuusuke Aoki², Ken Inoue³, Toshiyuki Yamamoto¹⁴
(1.Institute of Medical Genetics, Tokyo Women’s Medical University, Tokyo, Japan, 2.Dept. of Neurology, Aichi Children’s Health and Medical Center, Aichi, Japan, 3.Dept. of Mental Retardation and Birth Defect Research, National Institute of Neuroscience, National Center of Neurology and Psychiatry, Tokyo, Japan, 4.Course of Gene Medicine, Graduate school of medical science, Tokyo Women’s Medical University, Tokyo, Japan)

Poster Presentation 5
Genetics (Involuntary movement)
P-026 A case of monocarboxylate transporter 8 deficiency with atrophy of cerebral hemisphere and dystonia.
Kei Wakabayashi¹, Hitoshi Osaka¹, Karin Kojima¹, Taichi Imaizumi², Toshiyuki Yamamoto², Takanori Yamagata³
(1.Department of Pediatrics, Jichi Medical University, Tochigi, Japan, 2.Institute of Medical Genetics, Tokyo Women’s Medical University, Tokyo, Japan)
P-027 Familial patients with PNKD due to MR-1 gene mutation treated effectively with clonazepam
Keiko Hirano¹, Masataka Ito²
(1.Department of Pediatrics, Iwata City Hospital, Iwata, Shizuoka, 2.Aoba Pediatrics, Fukuroi, Japan)
P-028 A case of severe involuntary movements with GNAO1 mutation
Chihiro Yonee¹, Kenji Watanabe², Hisashi Tsuru¹, Manaka Matsunaga¹, Kiyoko Sameshima¹, Toshiki Takeuchi³, Tomoko Uehara³, Kenjirou Kosaki³, Nozomi Sano¹
(1.Pediatrics, Minami Kyusyu National Hospital, Kagoshima, Japan, 2.LaLaLa Children Clinic, Kagoshima, Japan, 3.Center for Medical Genetics, Keio University School of Medicine, Tokyo, Japan)

Poster Presentation 6
Neurocutaneous syndrome / Congenital anomaly
P-029 2 cases of Sturge-Weber syndrome with bilateral intracranial leptomeningeal angiomata
Yu Abe, Wakaba Endo, Yurika Uematsu, Mitsugu Uematsu, Shigeo Kure (Department of Pediatrics, Tohoku University School of Medicine, Sendai, Japan)

P-030 The effect of mTOR inhibitor for epilepsy and psychiatric symptoms of tuberous sclerosis
Rie Nakai1, Kuriko Shimono1,2, Ryoko Hayashi1, Jyunpei Tanigawa1, Yosiko Iwatani1,2, Kouji Tomonaga1,2, Shin Nabatame1, Keiichi Ozono1
(1.Department of Pediatrics, Osaka University, Osaka, Tokyo, 2.United Graduate School of Child Development, Osaka, Japan)

P-031 A case of tuberous sclerosis complex with cerebral infarction
Tatsuya Kawaguchi1, Takafuli Sakakibara1, Yuki Nishikawa2, Kentarou Tamura3, Yasushi Motoyama3, Tomoko Ochi1, Toshiteru Miyasaka1, Midori Shima1
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P-032 Effects of the multidisciplinary team on follow-ups of the patients with tuberous sclerosis.
Atsushi Sato1, Yusuke Sato2, Shunsaku Takayanagi3, Masahiro Shinn3, Shota Tanaka3, Naoto Kunii3, Tomimitsu Miyagakii, Hiromasa Sawamura5, Hirokazu Urushiyama6, Go Taniguchi1, Kumiho Oseto7, Hyangri Chang8, Akira Oka1, Masashi Mizuguchi9
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P-033 Promoting comprehensive medical cooperation for tuberous sclerosis in Gunma University Hospital
Tomomi Ogata1, Noriko Sawaura1,2, Kyoko Hazama1, Kuniko Ida1, Hirokazu Arakawa1
(1.Department for Pediatrics, Gunma University Graduate School of Medicine, Maebashi, Japan, 2.Fukuoka Children’s Hospital, Fukuoka, Japan)

P-034 Investigation of association between sacroccocygeal dermal sinuses and spina bifida occulta.
Tatsuharu Sato, Nanako Nishiguti, Takuya Hayashida, Hirokazu Moriuchi
(The Department of Pediatrics, Nagasaki University Hospital, Nagasaki, Japan)

Poster Presentation 7
Child development (Treatment)

P-035 Effects of Second-Generation Antipsychotic Treatment on Body Weight of Children with ASD
Yuko Hayashi1, Akemi Torobu1, Kayo Kamoshita2
(1.Department of Pediatrics, Medical Center, Faculty of Health and Welfare, Prefectural University of Hiroshima, Mihara, Japan, 2.Department of Nursing, Faculty of Health and Welfare, Prefectural University of Hiroshima, Mihara, Japan)

P-036 The Efficacy of Yokukansan on the language and communication in Autism Spectrum Disorder
Shigeru Hanaoka (Matsudo Municipal Center for Child Development, Matsudo City, Japan)

P-037 Effectiveness of music therapy in children with neurological disorder and developmental disorder.
Yukiko Ichida1,2, Emiko Shiba2, Simpei Masyuda2, Shinich Niijima2, Toshiaki Shimizu1
(1.Department of Pediatrics, Juntendo University Faculty of Medicine, Tokyo, Japan, 2.Juntendo nerima hospitall, Tokyo, Japan)

Poster Presentation 8
Child development (Evaluation Method / Others)

P-038 Clinical meaning of a new criterion, social communication disorder
Satoshi Sumi, Taishi Miyachi, Shinji Saitoh
1 (The Department of Clinical Psycholgy, Faculty of Child Development, Nihon Fukushi
University, Nagoya, Japan, 2.Nagoya West District Care Center for Disabled Children,
Nagoya, Japan, 3.Nagoya City University Graduate School of Medicine, Nagoya, Japan)

P-039 Vineland Adaptive Behavior Scales: II in developmental counseling clinical practice
Chizu Oba, Mitsuru Kashiwagi, Syohei Nomura, Motoko Ogino, Mari Yoshikawa, Atsushi Mori, Hiromi Toashikawa, Miho Hukui, Sosuke Yoshikawa, Eiji Wakamiya
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Japan, 3.Osaka Medical College, Pediatrics, Osaka, Japan, 4.Seikeikaiyoubuin, Osaka,
Japan, 5.Daiichitouwakaiyouinn, Osaka, Japan, 6.Aino College Iryoukenngakubu
Kangogakka, Osaka, Japan)

P-040 A novel assessment with MSPA for children and adolescents with circadian rhythm sleep-wake
Makiko Toyoura, Yuuko Toyota, Shigemi Kimura, Teruhisa Miike, Yukuo Konishi, Kiyoishi Kikuchi, Kyouichi Amaga, Yasuko Funabiki
1 (Hyogo Rehabilitation Center Hospital, Hyogo Children's Sleep and Development
Medical Research Center, Hyogo, Japan, 2.Graduate School of Human and Environmental
Studies, Kyoto University, Kyoto)

P-041 Experience of MSPA for development disorders in our hospital
Yuko Tomonoh, Hiroyuki Fujita, Seiko Suzuki, Naoki Shiotani, Shiho Takano, Masahiro Ishii, Tomofumi Fukuda, Toru Yoneda, Nobuko Kanai, Chie Murakami, Noriko Okamoto, Mihoko Arikaso, Yoshiyasu Kono
1 (The Department of Pediatrics, Kitakyushu Rehabilitation Center for Children
with Disabilities, Kitakyushu, Japan, 2.The Department of Pediatrics, Kitakyushu
Rehabilitation Center for Children with Disabilities, West, Kitakyushu, Japan, 3.The
Department of Pediatrics, University of Occupational and Environmental Health,
Kitakyushu, Japan, 4.The Department of Pediatrics, Kitakyushu General Hospital,
Kitakyushu, Japan, 5.Pediatric Department, JCHO Kyushu Hospital, Kitakyushu, Japan,
Health and Welfare Bureau, Kitakyushu, Japan)

P-042 Assessment of coordination skills in school children with neurodevelopmental disorder using
Yukiko Nakamura, Chika Kouno, Maki Ohsawa, Nobuko Sugiiura, Yuri Ozawa, Hiroshi
Ozawa, Akio Nakai, Yasuji Okita
1 (The Department of Neupediatrics, Shimada ryoku center Hachioji, Tokyo, Japan,
2.Institute for Education, Mukogawa Women's University, Nishinomiya, Japan, 3.National
Institute of Mental Health, National Center of Neurology and Psychiatry, Tokyo, Japan)

P-043 Electrophysiological evaluation of sympathy with pleasant/ unpleasant in autistic spectrum
Kakurou Aoyagi, Yuusuke Gotou, Sayaka Ishii, Tetsuo Ooyama, Masao Aihara
1 (Department of Pediatrics, University of Yamashani, Chuo, Japan, 2.Akebono Medical
Welfare Center, Nirasaki, Japan, 3.Interdisciplinary Graduate School, University of
Yamashani, Chuo, Japan)

P-044 Noninvasive intracranial pressure estimate method for autism spectrum disorder
Shuichi Yamada, Young-So Park, Ichiro Nakagawa, Fumihiko Nishimura, Yasushi
Motoyama, Hiroyuki Nakase, Jiro Okada
1 (Department of Neurosurgery, Nara Medical University, Nara, Japan, 2.Yamanobe
Hospital, Nara, Japan)

Poster Presentation 9

P-045 The effectiveness of the repetition of short-term intensive rehabilitation intervention
Daishi Inoue, Mituhiro Matsuo, Kazunori Motoyama
1 (Department of Pediatrics, University of Yamashani, Chuo, Japan, 2.Akebono Medical
Welfare Center, Nirasaki, Japan, 3.Interdisciplinary Graduate School, University of
Yamashani, Chuo, Japan)

P-046 Using Daunshoujino-Akachantaiso of early intervention with Down syndrome in Kagoshima
Kiyoko Sameshima, Aika Mathunaga, Chihiro Yonee, Nozomi Sano
1 (Department of Pediatrics, Minamikyushu National Hospital, Aira, Japan)

P-047 Experience in end-of-life care on the institute for severe motor & intellectual disorders
Miyuki Toyono, Tomoko Sakamoto, Yukio Sawaishi (Akita Prefectural Center on Development and Disability, Akita, Japan)
P-048 Medical care for Adult daycare users in our severely disabled
Yoshiko Hirano, Hitoshi Yoneyama (YOTsUGI Medical Center for the Severely Disabled, Tokyo, Japan)
P-049 Medical care for SMID with tracheal cannula-free in a day care center
Ai Ito, Yukiko Nakamura, Yuichiro Matsuoka, Chika Kono, Maki Osawa, Kaoru Amemiya, Yuri Ozawa, Hiroshi Ozawa (Shimada Ryoiku Center Hachioji, Tokyo, Japan)
P-050 Dietary intake situations and characteristics of children with tracheotomy in our childcare
Naoko Koseki, Mika Hayakawa, Motoyuki Minamitani, Susumu Sugihara, Yoshiko Suzuki, Yukikatsu Ochiai, Koichi Maruyama (Tokyo Metropolitan Kita Medical and Rehabilitation Center for the Disabled, Tokyo; Department of Pediatrics, Tokyo Jikei Medical University)
P-051 Study on education of menstruation for intellectual disabled female students
Satoko Tsuda, Chie Kondo, Satoshi Takada (School of Nursing, Seirei Christopher University, Japan; Kobe University Graduate School of Health Sciences, Kobe City Pediatric and General Rehabilitation Center for the Challenged, Japan)
P-052 Impaired hiragana decoding suspected in a child with neonatal encephalopathy in posterior region
Naoko Kurahashi, Shunsuke Ogaya, Yuki Maki, Norie Nonobe, Sumire Kumai, Yosuke Hosokawa, Chikako Ogawa, Keitaro Yamada, Koichi Maruyama, Miho Nakamura (Department of Pediatric Neurology, Aichi Developmental Disability Center, Aichi Human Service Center, Kasugai, Japan; Department of Pediatrics, Japanese Red Cross Nagoya Daichi Hospital, Nagoya, Japan; Department of Pediatrics, Nagoya University Graduate School of Medicine, Nagoya, Japan; Division of Neonatology, Center for Maternal-Neonatal Care Nagoya University Hospital, Nagoya, Japan; Department of Functioning Science, Institute for Developmental Research, Aichi Human Service Center, Kasugai, Japan; Okayaki Medical Center for Child Development, Okayaki, Japan)
P-053 Visual information processing in very low birth weight children with reading disability.
Miho Fukui, Shuichi Shimakawa, Mari Toshikawa, Mekumi Mizuta, Naoko Kurimoto, Takashi Takeshita, Tomohito Okumura, Makoto Nakanishi, Eiji Wakamiya, Hiroshi Tamai (Department of Pediatrics, Osaka Medical College, Osaka, Japan; 2.LD Center, Osaka Medical College, Osaka, Japan; Department of Pediatrics, Seikeikai Hospital, Osaka, Japan; Department of Nursing, Faculty of Nursing and Rehabilitation, Aino University, Osaka, Japan)

Poster Presentation 10
Epilepsy (Pharmacotherapy)
P-054 Safety, tolerability and efficacy of adjunctive perampanel in pediatric patients: Study 311
Kaeko Ishiba, Shinsaku Yoshitomi, Robert Flamini, Andras Fogarasi, Mathieu Milh, Steven Phillips, Leock Y Ngo, Anna Patten, Takao Takase, Antonio Laurenza (Eisai Co Ltd, Tokyo, Japan; Department of Pediatrics, National Epilepsy Center, Shizuoka Institute of Epilepsy and Neurological Disorders, NHO, Shizuoka, Japan; Pediatric and Adolescent Neurodevelopmental Associates, Atlanta, GA, USA; Epilepsy Center, Bethesda Children's Hospital, Budapest, Hungary; Pediatric Neurology Unit, La Timone Enfants Hospital, Marseille, France; Mary Bridge Children's Neurology Clinic, Tacoma, WA, USA; Eisai Inc., Woodcliff Lake, NJ, USA; Eisai Ltd., Hatfield, Hertfordshire, UK)
P-055 Assessment of the long-term efficacy and safety of adjunctive perampanel in adolescent patients
Harumi Yoshinaga, J Eric Pina-Garza, Vicente Villanueva, William Rosenfeld, Hidetaka Hiramatsu, Francesco Bibbiani, Anna Patten, Betsy Williams, Antonio Laurenza (Pediatrics, National Hospital Organization Minami-Okayama Medical Center, Okayama, Japan; Department of Child Neurology, Okayama University Hospital, Okayama, Japan)

P-056 Clinical efficacy and tolerability of Perampanel in our hospital
Yukako Yae, Kotaro Yuge, Ryuta Ishii, Shinichiro Nagamitsu, Yushiro Yamashita (Department of Pediatrics and Child Health, Kurume University School of Medicine)

P-057 Study on optimal administration method of Perampanel
Yukio Sawaishi, Miyuki Toyono (Akita Prefectural Center on Development and Disability, Akita, Japan)

P-058 Efficacy of Perampanel in pediatric patients with severe developmental disabilities
Noriko Togashi, Takehiko Inui, Yukimune Ohkubo, Takuya Miyabayashi, Ryo Sato, Morie Shibuya, Kazuhiro Hагinoya (The Department of Neurology, Miyagi Children's Hospital, Sendai, Japan)

P-059 Efficacy of perampanel in patients with severe motor and intellectual disabilities
Masahiro Ishii1, Tomofumi Fukuda1, Jyunpei Shibahara1, Ryota Igarashi1, Ayako Senju1, Masayuki Shimono1, Koichi Kusuhara1, Yuko Tomonou2, Hiroyuki Fujita2 (1. The Department of Pediatrics, University of Occupational Environmental Health, Kitakyushu, Japan, 2. Kitakyushu Rehabilitation Center for Children with Disabilities)

P-060 Efficacy of perampanel for refractory childhood onset epilepsy
Masahiro Kawaguchi, Takeshi Suzuki, Yuki Maki, Masaharu Tanaka, Yu Okai, Yoko Sakaguchi, Yuji Ito, Hiroyuki Yamamoto, Tomohiko Nakata, Hiroyuki Kidokoro, Tamiko Negoro, Kazuyoshi Watanabe, Jun Natsume (Department of Pediatrics, Nagoya University, Nagoya, Japan)

P-061 The efficacy of perampanel in patients with epileptic spasms
Shuichi Shimakawa, Motoko Ogino, Hikaru Kitahara, Miho Fukui, Hiroshi Tamai (Department of Pediatrics, Osaka Medical College, Osaka, Japan)

P-062 Efficacy of ketogenic diets and perampanel in a boy with intractable epilepsy and cortical dysplasia
Mai Yoshida1, Akira Kumakura1, Atsushi Ara1, Rie Ishimine1, Kouta Sasaki1, Kuriko Shimono2, Daisuke Hata1 (1. Department of Pediatrics, Kitano Hospital, Taduke Kofukai Medical Research Institute, 2. Department of Pediatrics, Graduate School of Medicine, Osaka University)

P-063 Efficacy of perampanel for controlling seizures in a patient with DRPLA
Kyoko Nakamura, Kunihiro Tamashiro, Kyomi Hirayasu (Nago Ryouiku Medical Center, Nago, Okinawa, Japan)

P-064 Efficacy of perampanel in 2 patients with progressive myoclonus epilepsy due to DRPLA
Yukihiko Konishi1, Kaori Koyano1, Tomoko Nishida1, Tsuyoshi Sasaki1, Sizuka Matsuoka1, Masanori Namba1, Katuhiro Kobayashi2, Takashi Kusaka1 (1. Department of Pediatrics, Faculty of Medicine, Kagawa University, Kagawa, Japan, 2. Department of Education for Children with Special Needs, Faculty of Education, Kagawa University, Kagawa, Japan, 3. Mitoyo General Hospital, Kagawa, Japan, 4. Kagawa Rehabilitation Hospital, Kagawa, Japan, 5. Department of Child Neurology, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama, Japan)

Poster Presentation 11
Epilepsy (Diagnosis / Geneitics)

P-065 Clinical characteristics of three cases with PCDH19 female epilepsy
Tanabe Masahiko1, Takuya Hayashida2, Masami Togawa1, Youko Nishimura1, Akihiko Miura1, Atsushi Ishii1, Yoshihiro Maegaki1 (1. Division of Child Neurology, Institute of Neurological Science, Faculty of Medicine, Tottori University, 2. Department of Pediatrics, Nagasaki University School of Medicine, Nagasaki, Japan, 3. Department of Pediatrics, Tottori Prefectural Central Hospital, Tottori, Japan, 4. Department of Psychiatry, Tottori University School of Medicine, Tottori, Japan, 5. Department of Pediatrics, Fukuoka University, Fukuoka, Japan)

P-066 Two cases of Christianson syndrome with Lennox-Gastaut syndrome
Azusa Ikeda1, Ayako Yamamoto1, Kazushi Ichikawa1, Tatsuro Kumaki1, Hikari Kaba1, Yu...

P-067 A case of early infantile epileptic encephalopathy of HCN1 gene variant
Hiroki Kubota, Tamami Yano, Tutomu Takahashi, Atushi Ishii, Mami Shibata, Shinichi Hirose

P-068 A case of IRF2BPL mutation transformed from MMPSI to West syndrome
Chizuru Ikeda, Takumi Okada, Hirohumi Kurata, Hiro Ueno, Tomoyuki Shimazu, Hoseki Imamura, Mitsuhiro Kato, Kazuhiro Iwama, Yuri Uchiyama, Takeshi Mizuguchi, Naomichi Matsumoto

P-069 Investigation of 10 cases of CDKL5, characteristics of development
Keiko Morioka, Yukitoshi Takahashi, Daisuke Usui, Kazuki Tsukamoto, Taikan Oboshi, Tomoshiro Ito, Yosuke Kimura, Yuki Ueda, Tokito Yamaguchi, Hideyuki Otani, Katsumi Imai, Hideo Shigematsu, Yushi Inoue, Mitsuhiko Kato, Toshiyuki Yamamoto

P-070 De novo SETD1B mutations in three cases with intellectual disability, autism and epilepsy
Takuya Hiraide, Mitsuko Nakashima, Ayako Hattori, Daisuke Ieda, Kaori Yamoto, Tokiko Fukuda, Mitsuhiro Kato, Hiroki Ikeda, Yoko Sugie, Tadashi Kamane, Kazuhiro Nakabayashi, Shinji Saitoh, Tsutomu Ogata, Naomichi Matsumoto, Hirotomo Saito

P-071 Clinical characteristics of developmental and epileptic encephalopathy with YWHAG mutations
Atsuko Arisaka, Takeshi Mizuguchi, Ikuko Shirai, Hiroya Nishida, Hideaki Mashimo, Kenji Inoue, Mitsuhiro Kato, Naomichi Matsumoto, Satoko Kumada, Mitsumasa Fukuda

P-072 The efficacy of Levetiracetam in two cases of ring chromosome 14 syndrome with intractable epilepsy
Mari Asakura, Yoji Ikuta, Shota Endo, Daichi Suzuki, Satoko Akiyama, Kenta Hayashi, Takahiro Kawai, Kunihiro Oba, Tomoko Sumita, Masayuki Kokaji, Tatsuo Katori

P-073 A case of ring 20 syndrome diagnosed with nonconvulsive status epilepticus on continuous EEG
Tomohiro Wakabayashi¹, Akiyo Yamamoto¹, Shinsuke Kato¹, Shinobu Fukumura¹, Shuji Wakai²
(1. The Department of Pediatrics, Sapporo Medical University, Hokkaido, Japan, 2. Nakanoshima Clinic, Hokkaido, Japan)

P-074 De novo microdeletions of chromosome 6q14.1 in a female patient with West syndrome.
Miho Adachi¹, Hiroshi Ninomiya¹, Yoriko Matsuzawa¹, Takuya Hiraide², Kazuo Kubota¹, Takahiro Yamamoto¹, Takeshi Kimura¹, Norio Kawamoto¹, Mitsuko Nakashima¹, Minako Kawamoto¹, Hidenori Onishi¹, Hirotomo Saitsu², Toshiki Fukao¹
(1. Department of Pediatrics, Graduate School of Medicine, Gifu University, Gifu, Japan, 2. Department of Biochemistry, Hamamatsu University School of Medicine, Shizuoka, Japan)

P-075 BCECTS-like epilepsy in a patient with Worster-Drought syndrome
Tomohiko Nakata¹, Atsuko Ohno², Masahiro Kawaguchi¹, Takeshi Suzuki¹, Yuki Makî¹, Masaharu Tanaka¹, Yu Okai¹, Yoko Sakaguchi¹, Yuji Ito³, Hiroyuki Yamamoto¹, Hiroyuki Kidokoro¹, Kazuyoshi Watanabe¹, Jun Natsume³
(1. Department of Pediatrics, Nagoya University Graduate School of Medicine, Nagoya, Japan, 2. Department of Child Neurology, Toyota Municipal Child Development Center, Toyota, Japan, 3. Department of Pediatrics, Aichi Prefectural Mikawa Aoiomedical and Rehabilitation Center for Developmental Disabilities, Okazaki, Japan)

P-076 Identification of epileptogenic astrocyte mediated by astrocytic Ca²⁺ signals via IP₃ receptor type 2
Fumikazu Sano¹,², Eiji Shigetomi¹, Koizumi Schuichi¹, Hideaki Kanemura², Katsuhiko Mikoshiba¹,², Takeshi Inukai², Masao Aihara²
(1. Department of Neuropharmacology, Interdisciplinary Graduate School of Medicine, University of Yamanashi, Yamanashi, Japan, 2. Department of Pediatrics, Faculty of Medicine, University of Yamanashi, Yamanashi, Japan, 3. Laboratory for Developmental Neurobiology, RIKEN Brain Science Institute, Saitama, Japan)

P-077 Clinical characteristics of epilepsy in three patients with Mowat-Wilson Syndrome.
Ken Ito, Norimichi Higurashi, Kenjirou Kikuchi (Pediatrics, The Jikei University, Tokyo, Japan)

Poster Presentation 12

Imaging / Seizure manifestation

P-078 Post-ictal brain perfusion of febrile status epilepticus measured by arterial spin labeling
Sora Okita, Atuko Kanagawa, Tomosi Nakajiri, Atusi Nisiyama, Yosinobu Oyazato (The department of Pediatrics, Kakogawa Central City Hospital)

P-079 Two cases of clinically MERS complicated with cerebellitis: diagnostic value of ASL
Keisuke Ootsuka¹, Takuya Hayashida², Nanako Nishiguchi³, Tatsuharu Sato³, Hiroyuki Moriuchi³
(1. Medical Education Development Center, 2. Department of Pediatrics, Nagasaki University, Nagasaki, Japan)

P-080 A case of 4p-syndrome with MRI abnormal signal after seizures
Reina Ogata, Yukie Yasunaga, Kyouko Watanabe (National Hospital Organization Kokura Medical Center, Fukuoka, Japan)

P-081 Relapse of convulsion during CT scanning after cessation of febrile status epilepticus in infancy
Yuji Sugawara, Takeshi Hasegawa (Department of Pediatrics, Soka Municipal Hospital, Soka, Japan)

P-082 Features of breath holding spell (BHS) cases who visited Sendai City Hospital ER between 2014-2018.
Taro Kitamura, Mitsui Moriya (Division of Pediatrics, Sendai City Hospital, Sendai, Japan)

P-083 How to differentiate benign sleep myoclonus in infancy mimicking myoclonic epilepsy
Masharu Ohfu, Misaki Sugai (Division of Pediatrics, Nanbu Tokusyukai Hospital, OKINAWA, JAPAN)

Poster Presentation 13

Spinal muscular atrophy

P-084 A case of spinal muscular atrophy treated by nusinersen from immediately after the diagnosis.
Atsushi Shimasaki (Pediatrics, University of Nagasaki, Nagasaki, Japan)

P-085 Alteration in respiratory function after administration of Nusinersen to SMA type 1.
Naoko Ishihara, Soichiro Ishimaru, Yoshiki Kawamura, Tetsushi Yoshikawa (Department of Pediatrics, Fujita Health University School of Medicine, Toyoake, Japan)

P-086 A case of 14-year-old girl with spinal muscular atrophy type 1 who started Nusinersen treatment
Mio Watanabe¹, Yuki Shimizu¹, Eriko Suzuki¹, Yuri Douwa¹, Takashi Shiihara¹, Atsuko Roppongi², Yumiko Usuda²
(1.Gunma Children’s Medical Center, Department of Neurology, Gunma, Japan, 2.Gunma Children’s Medical Center, Department of Rehabilitation, Gunma, Japan)

P-087 Problems and solutions in administering nusinersen for 2 patients with SMA(type1, 3)at our hospital
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P-088 A case of spinal muscular atrophy type2 successfully treated with nusinersen soon after onset.
Yu Kakimoto¹, Takayuki Mori¹, Satoshi Takenaka¹, Konomi Shimoda¹, Atsushi Sato¹, Akira Oka¹, Masashi Mizuguchi²
(1.Department of Pediatrics, The University of Tokyo Hospital, Tokyo, Japan, 2.Department of Developmental Medical Sciences, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan)

P-089 Explore evaluation methods of nusinersen efficacy on severe SMA patients with limited motor function
Kotaro Yuge¹, Toshie Devereaux², Kimimasa Tobita², Yushiro Yamashita¹
(1.Department of pediatrics and child health kurume university school of medicine, Kurume, Japan, 2.Rare disease (SMA), medical, Biogen Japan Ltd., Tokyo, Japan)

P-090 Change of autonomic function by Nusinersen using heart rate variability analysis in SMA type 2 and 3
Noriko Sumitomo, Akihiko Ishiyama, Eri Takeshita, Yuko Motohashi, Takashi Saito, Hirofumi Komaki, Eiji Nakagawa, Masayuki Sasaki (Department of Child Neurology, National Center of Neurology and Psychiatry, Tokyo, Japan)

P-091 Changes in electrophysiological findings by Nusinersen administration in SMA type 2 or type 3
Yukie Arahata, Akihiko Ishiyama, Eri Takeshita, Yuko Motohashi, Takashi Saito, Hirofumi Komaki, Eiji Nakagawa, Masayuki Sasaki (Department of Child Neurology, National Center Hospital, National Center of Neurology and Psychiatry, Tokyo, Japan)

P-092 The use of nusinersen to treat spinal muscular atrophy
Nobutsune Ishikawa, Yuichi Tateishi, Hiroo Tani, Yoshiyuki Kobayashi¹, Masao Kobayashi (Department of Pediatrics, Hiroshima University Hospital)

P-093 Current status of Nusinersen therapy for SMA in our hospital
Michiko Makino, Yumiko Ohono, Keiko Akahoshi, Shuji Matsui, Keiko Wada, Masuko Funahashi, Toshihide Shikita (Department of Pediatrics, Tokyo Children’s Rehabilitation Hospital, Tokyo, Japan)

P-094 All cases of spinal muscular atrophy with nusinersen treatment on Shikoku island
Risako Urata¹, Kaori Aibara², Takahiro Motoki³, Satoshi Maniwa¹, Yoshihiro Touda⁴, Tatsuo Mori¹, Tomohiro Soga⁵, Yukihiko Konishi⁶, Shigehiro Nagai⁷, Chiho Tokorodani⁸, Ritsu Nishiuchi⁹, Rina Ando¹⁰, Satoshi Tada¹, Yuki Yamanishi¹, Masahiro Nagai⁹
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P-095 Analysis of intrathecal administration of nusinersen for SMA type1 in Kagoshima
Yusei Baba¹, Shinsuke Maruyama¹, Manaka Matsunaga², Chihiro Yonee², Nozomi Sano², Kenji Watanabe³, Kazuyuki Yotsumata³, Yoshifumi Kawano³
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Hospital Organization, Minamikyushu Hospital, Kagoshima, Japan, 3.Lalala Children’s Clinic, Kagoshima, Japan, 4.Kagoshima City Hospital, Kagoshima, Japan)

P-096 The RESTORE Registry: A Resource for Measuring and Improving Spinal Muscular Atrophy (SMA) Outcomes
Richard S. Finkel¹, John W. Day², Darryl C. De Vivo³, Janbernd Kirschner⁴, Eugenio Mercuri⁵, Marcus Droege⁶, author list truncated ⁷, Laurent Servais⁸
(1.Nemours Children’s Hospital, 2.Stanford University Medical Center, 3.Columbia University Irving Medical Center, 4.University Medical Center Freiburg, 5.Catholic University, 6.AveXis, Inc., 7.Truncated list, 8.Institut de Myologie, Hopital La Pitié Salpêtrière)

Poster Presentation 14

Acute flaccid paralysis

P-097 Early diagnosis of infant botulism with electromyography
Konomi Shimoda¹, You Kakimoto¹, Takayuki Mori¹, Akatsuki Takenaka¹, Atsushi Satou¹, Akira Oka¹, Masashi Mizuguchi²
(1.The Department of Pediatrics, University of Tokyo, Tokyo, Japan, 2.Department of Developmental Medical Sciences, School of International Health, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan)

P-098 A case of acute flaccid myelitis with infection of Coxsackie virus A4 detected from blood sample
Fumihiko Fujii, Satoshi Akamine, Fumiya Yamashita, Kenichi Maeda, Pin Fee Chong, Ryutaro Kira (Pediatric Neurology, Fukuoka Children’s Hospital, Fukuoka, Japan)

P-099 A case of severe acute flaccid myelitis associated with Enterovirus D68
Yasuhiro Rokushika, Kosuke Yamamoto, Yukie Matsunaga, Aya Yoshida, Kei Ohashi, Rika Nagasaki, Miho Hamada, Minoru Kokubo (The Aichi Prefectural Federation of Agricultural Cooperatives for Health and Welfare Kainan Hospital, Aichi, Japan)

P-100 Two cases of acute flaccid myelitis.
Shodo Hirano, Ken Nakajima, Taikan Oboshi, Tomokazu Kimizu, Tae Ikeda, Yukiko Mogami, Keiko Yanagihara, Yasuhiro Suzuki (Osaka Women’s and Children’s Hospital, Osaka, Japan)

P-101 Neurophysiological findings in two cases with acute flaccid myelitis due to enterovirus D68
Satoru Kobayashi (Department of Pediatrics, Nagoya City West Medical Center, Nagoya, Japan)

P-102 A case of acute flaccid myelitis in which two courses of immunoglobulin mass therapy was effective
Masao Suda¹, Go Kawano¹, Kensuke Sakata¹, Takaoki Yokochi¹, Toyoojiro Matsuishi², Toshiyuki Takahashi³, Keiko Taya³
(1.St. Mary Hospital Pediatrics Department, Kurume, Japan, 2.St. Mary’s Hospital Pediatric Integrated Research Center Rett syndrome research center, Kurume, Japan, 3.Tohoku University Graduate School of Medicine Department of Neurology, Sendai, Japan, 4.National Institute of Infectious Diseases Infectious Disease Surveillance Center, Tokyo, Japan)

Poster Presentation 15

Acute encephalopathy (Status epilepticus type)

P-103 Three cases of AESD: Accompanied with acute encephalitis and central nervous system vasculitis
Naohiro Yamamoto¹,², Hisashi Kawawaki¹,², Shizuka Nagase¹,², Takeshi Inoue¹,², Megumi Nukui¹,², Ichiro Kuki¹,², Shin Okazaki¹,²
(1.Department of Pediatric Neurology, Pediatric Medical Care Center, Osaka City General Hospital, Osaka, Japan, 2.Child and Adolescent Epilepsy Center, Osaka City General Hospital, Osaka, Japan)

P-104 Predicted score of acute encephalopathy with biphasic seizure and late reduced diffusion
Mitsuji Moriya, Taro Kitamura, Toshihiro Ohura (The Pediatrics of Sendai City Hospital, Miyagi, Japan)

P-105 Post-encephalopathic epilepsy in 6 cases with AESD in our hospital
Hidetoshi Ishigaki, Takuya Hiraide, Taiju Hayashi, Rei Urushibata, Tokiko Fukuda
Poster Presentation 16

Acute encephalopathy (Others)

P-107 A case of Leukoencephalopathy caused by Hematopoietic stem cell transfusion
Saori Kawakami¹, Moeri Tsuji¹, Ai Yamada², Hiroaki Ono¹, Yuko Ichimiya¹, Noriyuki Kaku¹, Yoshito Ishizaki¹, Masafumi Sanefuji¹, Utako Ohba¹, Yuhki Koga¹, Yasunari Sakai¹, Hiroshi Moritake², Shouichi Ohga¹
(1.The Department of Pediatrics, University of Kyushu, Fukuoka, Japan, 2.The Department of Pediatrics, Kyushu University, Japan)

P-108 A lethal case of hemophagocytic lymphohistiocytosis with acute encephalopathy
Koichi Tanda, Atsuna Kotani, Hidehito Kondoh, Akira Nishimura (Department of Pediatrics, Japanese Red Cross Kyoto Daichi Hospital, Kyoto, Japan)

P-109 A Case of Acute Focal Bacterial Nephritis (AFBN) with Acute Encephalopathy
Eisuke Kondo, Hiroto Akaide, Mina Kounou, Atsushi Kato (Department of Pediatrics, Kawasaki Medical School, Okayama, Japan)

P-110 Two cases of acute encephalopathy in suspected IgA vasculitis
Shinpei Abe¹, Mika Nakazawa¹, Ayuko Igarashi¹-², Mitsuru Ikeno¹, Toshiaki Shimizu¹
(1.The Department of Pediatrics, Juntendo University, Tokyo, Japan, 2.Tokyo Rinkai Hospital, Tokyo, Japan)

P-111 Acute encephalopathy in a 2-year-old boy with periodic fever
Yuko Ichimiya¹-², Saori Kawakami¹, Noriyuki Kaku¹-², Tamami Tanaka¹, Atsushi Sato¹, Masashi Mizuguchi², Akira Oka¹
(1.Department of Pediatrics, The University of Tokyo Hospital, Tokyo, Japan, 2.Department of Developmental Medical Sciences, School of International Health, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan)

Poster Presentation 17

Virus infection / Cerebellitis

P-112 Nationwide surveillance census of patients with subacute sclerosing panencephalitis in 2018.
Satoshi Takenaka¹, Yu Kakimoto¹, Takayuki Mori¹, Konomi Shimoda¹, Atsushi Sato¹, Masashi Mizuguchi¹, Akira Oka¹
(1.Department of Pediatrics, The University of Tokyo Hospital, Tokyo, Japan, 2.Department of Developmental Medical Sciences, School of International Health, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan)

P-113 A case of acute necrotizing encephalopathy by the influenza virus that enforced hypothermia therapy.
Shino Uchihara, Sadao Nakamura (Department of Child Health and Welfare (Pediatrics), Graduate School of Medicine, University of the Ryukyus, Nishihara, Okinawa, Japan)

P-114 A case of recurrent encephalopathy, human parechovirus encephalopathy and AESD
Akiko Koyama, Anzu Noda (Saitama Citizen Medical Center, Saitama, Japan)

P-115 A boy with transient extensive white matter lesions during herpes simplex encephalitis
Hiroko Matsushita¹, Hiroyuki Ishida¹, Sozo Okano¹, Naoki Satogami², Tatsuya Nakamichi³, Katsumi Hayakawa¹
(1.Department of Pediatrics, Kyoto City Hospital, Kyoto, Japan, 2.Department of Radiology, Kyoto City Hospital, Kyoto, Japan, 3.Deptartment of Pediatrics, Kashiwa Hospital, Nara, Japan, 4.Department of Radiology, Kyoto First Red Cross Hospital, Kyoto, Japan)

P-116 Case study; Focal epilepsy as a long term sequela of Parvovirus B19 encephalitis
Takako Matsumoto, Toshirou Maihara (Hyogo Prefectural Amagasaki General Medical Center)

P-117 A case of acute encephalopathy and thyroid crisis
Hiroko Iwamatsu, Takuya Hara, Yuka Hanaki, Takurou Oono (Oita prefectural Hospital, Oita, Japan)
P-118 A case of rotavirus cerebellitis with prolonged consciousness disturbance and mutism
Hiromi Aoyama, Yoshimi Watanabe, Kazuo Kodama, Taku Omata (Neurology, Chiba Children Hospital, Chiba, Japan)
P-119 TRH therapy for the persistent disturbance of consciousness caused by an encephalitis.
Kanako Morita, Kosuke Kohashi, Masato Mori (Pediatrics, Matsudo City General Hospital)
P-120 4 cases of acute cerebellar ataxia, whose treatment were decided by general condition at admission.
Yuki Naito, Tadaki Oomae, Toshio Osamura, Noriko Hujii (Japanese Red Cross Society Kyoto Daini Hospital)

Poster Presentation 18
Cerebrovascular disease
P-121 A toddler case of dural arteriovenous fistula developed spinal infarction
Koji Takahashi¹, Akiko Haibara¹, Kentarou Shirai¹, Yumie Tamura¹, Akimitsu Watanabe¹,
Masatake Yoshimura², Susumu Hirota², Shinji Yamamoto²
(1.The Department of Pediatrics, Tsuchiura Kyodo General Hospital, Ibaraki, Japan, 2.The Department of Neurosurgery, Tsuchiura Kyodo General Hospital, Ibaraki, Japan)
P-122 Correlation between Moyamoya vascular stenotic lesion and the distribution of shear stress
Muneaki Matsuo¹, Kouhei Inoue¹, Syouta Serigaya¹, Kenjiro Shimano³
(1.Department of Pediatrics, Faculty of Medicine, Saga University, Saga, Japan,
2.Department of Neurosurgery. Faculty of Medicine, Saga University, Saga, Japan,
3.Department of Mechanical Systems Engineering, Faculty of Engineering, Tokyo City University, Tokyo, Japan)
P-123 Diagnostic delay of brain infarction in the pediatric population.
Yoshikazu Kitami, Sahoko Miyama (The Department of Neurology, Tokyo Metropolitan Children’s Medical Center, Tokyo, Japan)
P-124 A case of cyclosporine associated encephalopathy with aphasia.
Takao Morimune, Jun Matsui, Noriko Nishikura, Tatsuyuki Sokoda (The Department of Pediatrics, Shiga University of Medical Science, Shiga, Japan)

Poster Presentation 19
Neurosurgery
P-125 A pediatric case of traumatic transverse sinus stenosis due to epidural hematoma
Fumitaka Yoshioka, Shoko Shimokawa, Jun Masuoka, Tatsuya Abe (Department of Neurosurgery, School of medicine, Saga University, Saga, Japan)
P-126 A case of childhood stroke caused by supraventricular tachycardia treated with thrombectomy
Hitomi Hayashi, Takako Fujita, Yukiko Ibara, Takumi Yamaguchi, Atsushi Ishii, Tatuki Miyamoto, Hiroshi Ideguchi, Takahito Inoue, Shinichi Hirose (Department of Pediatrics, School of Medicine, Fukuoka University, Fukuoka, Japan)
P-127 A boy developing repetitive neurological symptoms of unknown pathophysiology
Motoko Oginö¹, Shuichi Shimakawa¹, Miho Fukui¹, Mari Toshikawa¹, Hiroshi Tamai¹, Atsuko Harada²
(1.Osaka Medical College Hospital, Osaka, Japan, 2.Takatsuki Hospital, Osaka, Japan,
3.Seikieikai Hospital, Osaka, Japan)
P-128 Resolution of sleep apnea by surgical decompression in a case with Chiari type I malformation
Masahiro Kikuchi¹, Kiyoshi Hiranki¹, Akihiro Nakamura¹, Naruyoshi Suwabe¹, Tatsuyuki Oyake¹, Yasushi Kimura², Motoko Oginö¹
(1.Department of Pediatrics, Hitachi General Hospital, Hitachi, Japan, 2.Department of Neurosurgery, Hitachi General Hospital, Hitachi, Japan)

Poster Presentation 20
Headache
P-129 A case of recurrent painful ophthalmoplegic neuropathy requiring strabismus surgery.
Mahito Atobe, Yasuko Kojima, Yuusuke Aoki, Motomasa Suzuki, Kazuya Itomi, Junna Horio, Kinichi Tsuzuki
(1.Department of Pediatric Neurology, Aichi Children's Health and Medical Center, Ohbu, Japan, 2.Department of ophthalmology, Aichi Children’s Health and Medical Center, Ohbu, Japan)

P-130 A case in which Kampo medicine was successful in chronic daily headache with ASD coexisting
Hirohiko Ozaki (Department of pediatrics The National Rehabilitation Center for Children with Disabilities)

P-131 A study of lomerizine hydrochloride for chronic daily headache of children
Kaori Mizukawa, Takako Kobayashi, Haruka Takita, Kanau Watabe, Takeshi Suguyama
(Department of Pediatrics Ichinomiyanishi Hospital, Aichi, Japan)

P-132 A pediatric case of primary cough headache
Yuko Omata, Yoshiko Takahashi, Tomoko Nakazawa (Department of Pediatrics, Chiba Medical Center, Chiba, Japan)

**Poster Presentation 21**

**Mental disorders**
P-133 A 14-year-old girl required artificial breathing for impaired consciousness by dissociative disorder
Yasuo Kitagishi, Tatuyuki Sokoda, Kashirou Nishizawa, Shinobu Yoshida, Tamayo Ishikawa
(1.Omihachiman Community Medical Center, Shiga, Japan, 2.Department of Pediatrics, Shiga University of Medical Science, Shiga, Japan)

P-134 Consideration for psychosomatic disease of infant
Yuri Narita, Shin-Ichiro Hamano, Mai Kuroda
(1.Division of Psychology, Center for Child Health and Development, Saitama Children’s Medical Center, Saitama, Japan, 2.Division of Neurology, Saitama Children’s Medical Center, Saitama, Japan)

P-135 Clinical study of psychogenic gait disorders
Hisako Yamamoto, Yusaku Miyamoto, Taichi Imaizumi, Kanako Takeda, Syoutarou Kaku, Syuji Hashimoto, Natsuko Ara, Noriko Udagawa, Hitoshi Yamamoto
(1.Division of Pediatrics, Kawasaki Municipal Tama Hospital, St. Marianna University School of Medicine, Kanagawa, Japan, 2.Division of Pediatrics, St. Marianna University School of Medicine, kanagawa, Japan)

**Poster Presentation 22**

**Newborn / Perinatal brain damage**
P-136 Acute stage cerebral infarction after neonatal asphyxia: Two case reports
Shotaro Kaku, Takashi Mori, Takumi Moriuchi, Emi Okishio, Taichi Imaizumi, Kanako Takeda, Hisako Yamamoto, Syuzi Hashimoto, Natsuko Ara, Noriko Udagawa, Yusaku Miyamoto, Isamu Hokuto, Hitoshi Yamamoto
(1.Division of Neonatology, Department of Pediatrics St. Marianna University, School of Medicine Yokohama City Seibu Hospital, 2.Division of Pediatrics St. Marianna University, School of Medicine, 3.Division of Pediatrics Kawasaki Municipal Tama Hospital, 4.Division of Pediatrics St. Marianna University, School of Medicine Yokohama City Seibu Hospital, 5.Division of Neonatology, St. Marianna University School of Medicine, School of Medicine Perinatal Medical Center)

P-137 A case of neonatal stroke with signal changes in the corticospinal tracts and the corpus callosum
Daisuke Sawada, Kyosuke Ibi, Yuta Ito, Hiroshi Matsumoto, Katsunori Fujii
(1.Division of Neonatology, Asahi General Hospital, Chiba, Japan, 2.Division of Pediatrics, Chiba University Graduate School of Medicine, Chiba, Japan)

P-138 The effect of mild IVH in preterm infants on the cerebellum and neurodevelopment at 3 years of age
Satoshi Sakaue, Tatsuji Hasegawa, Eisuke Ichise, Akari Takai, Yui Zen, Michiko Yoshida, Takenori Tozawa, Tomohiro Chiyonobu, Masafumi Morimoto (The Department of Pediatrics, Kyoto Prefectural University of Medicine, Kyoto, Japan)

P-139 Characteristics of visual cognition of extremely premature infants and their developmental
effects

Kinya Hidaka\textsuperscript{1,2}, Kimiko Deguchi\textsuperscript{1}, Ryoichiro Iwanaga\textsuperscript{2}
(1.Deguchi Pediatric Clinic, Nagasaki, Japan, 2.Nagasaki University Graduate School of Biomedical Sciences)

P-140 Neurodevelopmental outcome of very low birth weight infants at age 9
Michiko Torio\textsuperscript{1}, Mariko Iwayama\textsuperscript{1}, Hirosupe Inoue\textsuperscript{1}, Masayuki Ochiai\textsuperscript{2}, Yuri Sonoda\textsuperscript{3}, Yoshito Ishizaki\textsuperscript{1}, Masafumi Sanefuji\textsuperscript{1}, Yasunari Sakai\textsuperscript{1}, Shouichi Ohga\textsuperscript{1}
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P-141 A case report of simplified gray pattern with neonatal encephalopathy.
Mari Sugimoto\textsuperscript{1}, Hajime Sakuma\textsuperscript{1}, Kaori Aiba\textsuperscript{1}, Yasuko Togawa\textsuperscript{1}, Hirosuke Inoue\textsuperscript{2}, Masayuki Ochiai\textsuperscript{2}, Yuri Sonoda\textsuperscript{3}, Yoshito Ishizaki\textsuperscript{1}, Satomi Mihashi\textsuperscript{3}, Naomichi Matsumoto\textsuperscript{3}
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P-142 A case of congenital toxoplasmosis with favorable prognosis by early intervention.
Sayaka Ishii\textsuperscript{1,2}, Kosuke Nakamura\textsuperscript{1}, Sonoko Mizorogi\textsuperscript{2}, Kei Tamaru\textsuperscript{1}, Yuko Kamiya\textsuperscript{1}, Hideaki Kanemura\textsuperscript{2}, Masao Aihara\textsuperscript{3}
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P-143 Two cases of the Mobius' syndrome that abducens nerve palsy was found in late onset
Atsuko Oba\textsuperscript{1}, Hirokazu Takeuchi\textsuperscript{1}, Shin-Ichiro Hamano\textsuperscript{2}
(1.Department of Pediatrics, The Jikei University Kashiwa Hospital, Chiba, Japan, 2.Division of Neurology, Saitama Children's Medical Center, Saitama, Japan)

Poster Presentation 23

Nutrition

P-144 Postweaning iron deficiency in rats alters the reelin expression in the nucleus accumbens
Noriko Nishikura\textsuperscript{1}, Koudai Hino\textsuperscript{2}, Tomoko Kimura\textsuperscript{2}, Yasuhiro Uchimura\textsuperscript{2}, Takao Morimune\textsuperscript{1}, Jun Matsui\textsuperscript{1}, Tatsuyuki Sokoda\textsuperscript{1}, Chihiro Sawai\textsuperscript{1}, Yuko Sakaue\textsuperscript{1}, Yoshihiro Takeuchi\textsuperscript{1}, Yoshihiro Maruo\textsuperscript{1}, Jun Udagawa\textsuperscript{1}
(1.Department of Pediatrics, Shiga University of Medical Science, Shiga, Japan, 2.Department of Anatomy, Shiga University of Medical Science, Shiga, Japan)

P-145 Carnitine blood concentration and muscle mass correlation of patients with SMIDs taking VPA.
Michi Takahashi\textsuperscript{1}, Ushio Ohtaki\textsuperscript{1}, Kayoko Takahashi\textsuperscript{1}, Akiko Kamiishi\textsuperscript{1}, Kiyoshi Arimoto\textsuperscript{1}, Satoshi Kimiya\textsuperscript{1}, Hiroshi Ozawa\textsuperscript{2}
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P-146 A case of vitamin K deficiency due to long term antibiotics administration and malnutrition
Hiroyuki Fujita\textsuperscript{1}, Yuko Tomonoh\textsuperscript{1}, Seiko Suzuki\textsuperscript{1}, Chie Murakami\textsuperscript{1}, Noriko Okamoto\textsuperscript{1}, Yoshiyasu Kohno\textsuperscript{1}
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Poster Presentation 24

Cerebral palsy

P-147 A case of ulegyria in bilateral paracentral lobule of primary motor cortex
Yuji Takizawa\textsuperscript{1}, Satoko Kumada\textsuperscript{2}, Ikuko Suzuki\textsuperscript{3}
(1.Pediatrics, Nishisaitama-chuo National Hospital, Saitama, Japan, 2.Pediatric Neurology, Tokyo Metropolitan Neurological Hospital, Tokyo, Japan, 3.Pediatrics, Hikarinoie Ryokuchi Center, Saitama, Japan)

P-148 Hypotonic quadriplegia with TBL1XR1 pathogenic variant in a patient
P-149 Constraint-induced movement therapy for children with hemiparesis and unilateral cerebral palsy

Ryo Tanabe, Kentaro Sano, Kana Kojima, Kaoru Uchiyama, Atsuko Waku, Mitsuko Ishii
(Department of Child Neurology, Chiba Rehabilitation Center, Chiba, Japan)

P-150 Botulinum toxin therapy for a case with cerebral palsy contain involuntary movement and spasticity

Hiromi Yamaguchi, Tomomi Ooishi, Eriko Kitahara, Naomi Yoshikawa, Shinpei Abe, Mitsuru Ikeno, Toshiyuki Fujiwara
(1. Department of Rehabilitation, Juntendo University Hospital, Tokyo, Japan, 2. Department of Pediatrics, Juntendo University Hospital, Tokyo, Japan, 3. Department of Rehabilitation Medicine Juntendo University Graduate School of Medicine)

P-151 Heart rate variability in patients with SMIDs who breathe with uncontrolled hiccup-like movements

Kiyotaka Suzuki (Toyohashi Medical Center, Toyohashi, Aichi, Japan)

P-152 Clinical features of severe scoliosis in cerebral palsy

Sachiko Onoe, Tokuji Koda, Makoto Watanabe (Hirakata General Hospital for Developmental Disorders, pediatrics, Osaka, Japan)

P-153 Gut microbiota composition in patients with severe motor and intellectual disabilities.

Naoyuki Tanuma, Keiko Tominaga, Keiko Watanabe, Naho Saito, Ikuko Shirai, Ayaka Koide, Wakan Furushima, Masahiro Ito, Hiroshi Sakuma
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P-154 Health-care transition in patients with SMID who needed medical care in Oita prefecture

Asuka Nagahama, Seigo Korematsu, Keisuke Sato, Mutsumi Akaishi, Koichi Iida
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P-155 Interview survey about home life of patients with complex medical conditions and disabilities

Akihiro Ikeda, Syunsuke Matsumori, Yoshihiro Maegaki, Hiroyuki Yamada, Yoko Nishimura, Akiko Tamasaki
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P-156 Clinical survey of children with cerebral palsy in Tottori Prefecture for 10 years.

Hiroyuki Yamada, Akiko Tamasaki, Madoka Shito, Masami Togawa, Yasushi Utsunomiya, Yoshinori Maekawa, Sakae Narai, Takayoshi Okada, Chitose Sugiura, Yasuki Kobayashi, Yoshihiro Maegaki
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Poster Presentation 25
Severe motor and intellectual disabilities / Home care
P-157 Two case of tracheostomy positive pressure ventilation induced pneumatosis intestinalis
Saeko Sasaki, Fumihito Nozaki, Tomohiro Kumada, Minoru Shibata, Anri Hayashi, Mioko Mori, Kenji Inoue, Atsushi Mori, Tatsuya Fuji (Shiga Medical Center for children, Shiga, Japan)

P-158 Three cases requiring medical care with totally implantable venous access ports.
Takahiro Yamamoto1,2, Kazuo Kubota1, Yoriko Matsuzawa2, Hiroshi Ninomiya2, Takeshi Kimura1, Norio Kawamoto2, Satoko Nishimura1,2, Toshiyuki Fukao2
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P-159 Unsatisfactory end of life consequence of children with severe motor and intellectual disabilities
Yuko Nakamura1, Manabu Tanaka2, Takuya Hayashi1, Takehiro Niitsu1, Ikuya Ueta1
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P-160 Advance care planning for a patient of progressive neurological disease
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P-161 Survey on children and families who need medical care at home in Hamamatsu city
Yusaku Endo, Miki Asahina, Teruhiko Suzuki, Koichi Hirano (Department of Pediatrics (Pediatric Neurology), Hamamatsu City Welfare and Medical Center for Development, Hamamatsu, Japan)

P-162 Survey on welfare facilities for children who need medical care at home in Hamamatsu city
Teruhiko Suzuki, Miki Asahina, Yusaku Endo, Kouiti Hirano (Department of Pediatrics (Pediatric Neurology), Hamamatsu City Welfare and Medical Center for Development, Hamamatsu, Japan)

P-163 Human resource development to build up child home care system in Tottori prefecture
Aki Tamasaki1, Yoshihiro Maegaki2
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P-164 Standardization of medical care in support education school
Mihoko Mizuno, Masami Asahina, Izumi Tamura, Yuutarou Yamauchi
(Daido Hospital Children’s Medical Center, Nagoya, Japan)

P-165 Get ready for emergency! - evacuation drills for outpatients with SMID and supportive stuffs
Youko Kawasaki1, Youko Matsumoto1, Mio Nishimura1, Mariko Yagi1 (Department of Pediatrics, Nikoniko House Medical and Welfare Center, Kobe, Japan)

P-166 A survey of preparedness for disaster to people with disabilities or special requirements
Toru Yoneda
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Poster Presentation 26
Genetics (Cerebral development)

P-167 A case of 5q14.3 microdeletion syndrome
Hiroyuki Wakamoto1, Yuka Suzuki2, Mika Kawabe3, Kenji Kurosawa3
(1. Department of Pediatrics, Ehime Rehabilitation Center for Children, Toon, Japan, 2. Department of Pediatrics, Matsuyama Red Cross Hospital, 3. Department of Genetics, Kanagawa Children’s Medical Center)

P-168 A woman case with ROR2 compound heterozygous mutations and severe central nervous symptoms
Keiko Wada1, Shuji Matsui1, Keiko Akahoshi1, Hidehiro Mizusawa2, Yuji Takahashi2, Masayuki Sasaki2, Naomichi Matsumoto3
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P-169 A boy with macrocephaly, motor developmental delay, abnormal white matter signal and PTEN mutation
Yurika Kuroko1, Kaoru Yamamoto1, Mina Yokoyama1, Atsuro Daida1, Shinsuke
Hirabayashi1, Atsushi Manabe1, Masaaki Ogihara1, Isao Kusakawa1, Yoko Aoki2, Rika Kosaki3
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P-170 Novel biallelic mutations in the PNPT1 gene cause cerebral white matter abnormalities
Ryo Sato1, Natsuko Ichinoi2, Atsuo Kikuchi2, Yukimune Okubo1, Tetsuro Matsuhashi2, Yurika Uematsu1, Mitsugu Uematsu1, Yuji Fujii2, Eriko Koshimizu1, Satoko Miyatake1,4, Naomichi Matsumoto2,4, Kazuhiro Hagiwara1, Shigeo Kure1
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P-171 A case of PNPLA8 mutation with microcephaly, simplified gyral pattern and progressive brain atrophy
Yukimune Okubo1, Takuya Miyabayashi1, Ryo Sato1, Takehiko Inui1, Noriko Togashi1, Kazuhiro Hagiwara1, Eriko Koshimizu2, Satoko Miyatake1,4, Naomichi Matsumoto2,4
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P-172 A case of frontal dominant pachygyria by KIF5C dysfunction-a comparative study with other 6 cases-
Atsushi Imamura1, Naoki Matsuo1, Emiko Kobayashi1, Kuniko Tokoro1, Hidenori Onishi2
(1.Department of Pediatrics, Gifu Prefectural General Medical Center, Gifu, Japan, 2.Department of Pediatrics, Graduate School of Medicine, Gifu University, Gifu, Japan)

P-173 A case of Brain malformation due to TUBB2B gene mutation
Kazuyuki Yotsumata1, Mayumi Matsufuji2, Nozomi Sano2

P-174 Hepatic multiple focal nodular hyperplasia associated with brain tumor with hemimegalencephaly
Yu Kobayashi1, Shinichi Magara1, Takao Komatsubara1, Moemi Hojo1, Yumi Nakayama1, Masafumi Fukuda2, Jun Tohyama1
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Poster Presentation 27
Genetics (Cerebellar development)

P-175 An autopsy case of Arima syndrome: 16 years’ experience with Automated Peritoneal Dialysis
Ayaka Koide1, Keiko Tominaga1, Keiko Watanabe1, Jiro Nagata1, Nobutaka Arai2, Masayuki Itoh1, Toru Igari4
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P-176 A case of pontocerebellar hypoplasia type 7 without external genital abnormality
Takafumi Sakakibara1, Mari Hasegawa1, Tatsuya Kawaguchi1, Kazuhiro Iwama2, Takeshi Mizuguchi1, Naomichi Matsumoto2, Midori Shima1
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P-177 An adult case with mental retardation and microcephaly with pontine and cerebellar hypoplasia
Yosuke Nishio1, Hiroyu Kodokoro1, Tomohiko Nakata2, Shinya Hara1, Kazuyoshi Watanabe1, Jun Natsume1
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P-178 Different onset of Siblings of children with ABCB7 gene mutation
Satori Hirai1, Satoshi Mizutani1, Mika Hirotsune1, Naomi Okuyama1, Kaeko Ogura1,
P-179 KBG syndrome is associated with Dandy-Walker variant

Tomoko Mizuno1, Taisuke Yamauchi1, Tomonori Suzuki1, Ayako Kashimada1, Tsubasa Okano1, Kousuke Imai1, Masatoshi Takagi2, Risa Nomura2, Akimitsu Watanabe3
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P-180 A case of Joubert syndrome with C5ORF42 mutation

Kohei Haraguchi1, Tatsuharu Sato1, Masayuki Itoh2, Hiroyuki Moriuchi1
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Poster Presentation 28

Genetics (Developmental disorder)

P-181 Atypical clinical course in two patients with GNB1 gene mutation developing acute encephalopathy

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P-182 Two boys with epilepsy and autistic spectrum disorder; SZT2 mutation and CHD2 mutation.

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P-183 A case of GRIA3 gene mutation

Toshiyuki Maeda, Fumio Ichinose, Muneaki Matsuo (Department of Pediatrics, Faculty of Medicine, Saga University, Saga, Japan)

P-184 A family of psychomotor delay and developmental disorder boy with NRXN1 mutation

Yukiko Osawa, Toshimasa Obonai, Makoto Fukushima (Department of Pediatrics, Tama-Hokubu Medical Center, Tokyo, Japan)

P-185 A male case of Rett syndrome with somatic mosaicism of MECP2 mutation

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P-186 A male case of classic Rett syndrome with mosaic mutation in exon1 of MECP2

Ryo Takeguchi1, Mami Kuroda1, Ryousuke Tanaka1, Nao Suzuki1, Satoru Takahashi1, Yuko Tomonoh2, Yukiko Ihara2, Nobuyoshi Sugiyama3, Masayuki Itoh4
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P-187 A case of Rett-like phenotype male with novel CACNA1D mutation

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P-188 A case of CAKUTHEED caused by PBX1 mutation

Akiko Kasuga1, Shinji Suzuki1, Mai Yamada1, Kanako Kanou1, Tomoko Takamatsu1, Mika Takeshita1, Natsumi Morishita1, Shinichiro Morichi1, Yu Ishida1, Shingo Oana1,2, Gaku
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P-189 An autopsy case of ATR-X syndrome in the aged
Keiko Watanabe¹, Ayaka Koide¹, Jinro Nagata¹, Naoyuki Tanuma¹, Kenji Kurosawa², Takahito Wada³, Nobutaka Arai³, Touru Igari³
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P-190 Helsmoortel-Van der Aa syndrome with ASD, dysmorphism and premature tooth eruption: A Case Report
Tomoyo Yamashita¹, Tamami Wakahara¹, Tatsuo Koide¹, Yuko Tanaka¹, Nobuhiko Okamoto², Toshiki Takeuchi³, Tomoko Uehara³, Hisato Suzuki³, Kenjiro Kosaki³, Toshinori Nishigaki¹
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Poster Presentation 29
Congenital anomaly
P-191 Currrarino syndrome in neonate revealed by pneumocephalus
Yoshimichi Hirayama (Department of Pediatrics Naha city hospital, Okinawa, Japan)

P-192 A male with Septo-optic dysplasia, appeared hypostature during treatment of epilepsy
Masahiro Ito¹, Ryutaro Yamada², Hisamitsu Tamaki²
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P-193 Improvement of motor function with specific orthoses in a case of hypermobile Ehlers-Danlos syndrome
Sui Sone¹, Tetsuo Kanno¹, Katsuhito Araki¹, Ryuichi Ueno², Takuya Osada², Yosuke Nakai³, Yoshiyuki Shimizu¹, Toyoki Tanaka¹, Osamu Yanase¹
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P-194 Two families of HDR syndrome
Yoshimi Watanabe, Taku Omata, Hiromi Aoyama, Kazuo Kodama (Division of Child Neurology, Chiba Children’s Hospital, Chiba, Japan)

Poster Presentation 30
Epilepsy (Treatment)
P-195 The effect of Lacosamide for children with severe motor and intellectual disabilities
Haruka Ohguro¹, Tomohiro Nakayama¹,², Junko Nakayama¹, Naoko Nakayama², Kayo Tokeji¹, Hiroshi Maruyama², Nobuaki Iwasaki³
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P-196 Lacosamide therapy for epilepsy in our clinic
Yuri Nagao, Kazue Kimura, Michio Fukumizu, Masaharu Hayashi, Kyoko Hoshino (Segawa Memorial Neurological Clinic for Children, Tokyo, Japan)

P-197 A case of Lennox syndrome with forced normalization following use of lacosamide
Yoko Ono, Kazuhiro Muramatsu, Masahide Goto, Naohiro Ikeda, Mari Kuwajima, Jin Kosaka, Takanori Yamagata (Jichi Medical University, Shimotsuke, Japan)

P-198 A case of TSC that combination ACTH and VGB were effective for intractable epileptic spasms.
Chinami Kaiga¹, Mariko Iyegami¹,³, Nobuyoshi Sugiyama², Tokito Yamaguchi⁴
P-199 A case of tuberous sclerosis complex treated with vigabatrin to prevent infantile spasms
Yoshinori Kobayashi, Satoru Tsuruta (Department of Pediatrics, Kobe City Medical Center General Hospital, Hyogo, Japan)

P-200 Clinical features of seizure relapse after ACTH therapy in West syndrome
Aiko Nishikawa, Susumu Ito, Yui Otani, Satoru Nagata (Pediatrics, Tokyo Women’s Medical University, Tokyo, Japan)

P-201 Relationship between hypothyroidism and therapeutic effect in ACTH therapy
Kazuo Kodama¹, Taku Omata¹, Yoshimi Watanabe¹, Hiromi Aoyama¹
(Division of Child Neurology, Chiba Children’s Hospital, Chiba, Japan)

P-202 Four cases of ACTH-induced seizures
Naoko Taniguchi, Aiko Nishikawa, Susumu Ito, Satoru Nagata (Department of Pediatric, Tokyo Women’s Medical University, Tokyo, Japan)

P-203 Reduced immunoglobulin levels in epileptic patients treated with zonisamide
Takamasu Kishi (Department of Pediatrics, KKR Hiroshima Memorial Hospital, Hiroshima, Japan)

P-204 The effect of AEDs on plasma Hcy and serum B-vitamins concentration in Japan
Akiko Nagae, Nozomi Oda, Kumiko Yamashita, Takamori Omae, Yasuyuki Fujita, Masao Kumode (Biwakogakuen Kusatsu Medical and Welfare Center for Disabilities)

P-205 Cranberry juice may affect pharmacokinetics of phenytoin
Michiko Inoue¹, Harumi Yoshinaga¹, Atsue Ubuga², Hirotsugu Mizuguchi², Shotaro Ono³, Shunsaku Kaji³
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P-206 The risk factors for somnolence in patients treated with levetiracetam.
Hideki Shimomura, Kyoko Minagawa, Jyunji Mine, Tomoko Lee, Chikako Mure, Sachiko Tokunaga, Yasuhiro Takeshima (Department of Pediatrics, Hyogo College of Medicine, Hyogo, Japan)

P-207 Clinical feature and therapeutic strategy to rarely repeated status epilepticus
Hideki Hoshino, Marie Nakai, Masakazu Mimaki (Department of Pediatrics, Teikyo University, Tokyo, Japan)

P-208 Can breast milk from a mother on MCT diet induce ketosis in her breastfed infant?
Kenji Inoue, Tomohiro Komada, Minoru Shibata, Fumihito Nozaki, Anri Hayashi, Mioko Mori, Saeko Sasaki, Atsushi Mori, Kenji Inoue, Tomohiro Komada, Minoru Shibata, Fumihito Nozaki, Anri Hayashi, Mioko Mori, Saeko Sasaki, Atsushi Mori (Shiga Medical Center for Children, Shiga, Japan)

P-209 A retrospective analysis of 31 patients with epilepsy after antiepileptic drug withdrawal
Miki Inutsuka (Department of Pediatrics, Sasebo Chuo Hospital, Sasebo, Japan)

P-210 Efficacy of phenobarbital for benign convulsions with mild gastroenteritis
Yuichi Takami, Ayako Fujiwara, Chie Sakata, Taku Nakagawa (Japanese Red Cross Society Himeji Hospital)

P-211 4 cases of focal epilepsy was improved EEG by substitution from CBZ to LEV
Shigeo Nagai, Wataru Jinnai, Tomohiro Fujii, Yumi Dohi, Tomoko Kirino (Department of Child Neurology, Shikoku Medical Center for Children and Adults, Kagawa, Japan)

Poster Presentation 31

Epilepsy (Surgical treatment)

P-212 Two cases of status epilepticus occurred during vagus nerve stimulation
Atsuko Kanagawa, Tomoshi Nakajiria, Sora Okita, Atsushi Nishiyama, Yoshinobu Oyazato
(The department of Pediatrics,Kakogawa Central City Hospital,Hyogo,Japan)

P-213 Two cases of HHE Syndrome with mild malformation of cortical development type 2
Shinji Itamura¹, Tohru Oganishi¹, Shimpei Baba¹, Ayatake Fujimoto², Hideo Enoki¹
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P-214 More than 10-year history pharmaco-resistant MRI negative extra-temporal epilepsy
Takeshi Inoue¹, Hisashi Kawakami¹², Shizuka Nagase¹², Naohiro Yamamoto¹², Megumi
Nukui, Ichiro Kuki, Shin Okazaki, Yoko Nakanishi, Toshiyuki Kawashima, Noritsugu Kunihiro, Takehiro Uda, Yasuhiro Matsusaka, Yasushi Imura, Hiroshi Otsubo
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P-215 Efficacy and adverse reaction of Vagus Nerve Stimulation Therapy for drug resistant epilepsy
Hiroyasu Nakagawa, Mondo Kuroda
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P-216 2 case reports, 10 years after hemispherotomy
Tomoshiro Ito, Kiyoshi Egawa, Hitomi Sano, Nobuaki Kawamura, Akira Sudo, Masaki Iwasaki, Hideaki Shirashii
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P-217 Efficacy of callosotomy for medically resistant epileptic encephalopathy with CSWS
Shiena Watanabe, Eri Takeshita, Takashi Saito, Kenji Sugai, Yuko Motohashi, Akihiko Ishiyama, Hirohumi Komaki, Eiji Nakagawa, Masayuki Sasaki, Keiya Iijima, Yutaro Takayama, Norihiro Muraoka, Yuiko Kimura, Masaki Iwasaki
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P-218 Epilepsy surgery in Hemiconvulsion Hemiplegia Epilepsy syndrome
Masaki Miura, Takashi Saitoh, Masaki Iwasaki, Eri Takeshita, Yuko Motohashi, Akihiko Ishiyama, Hirohumi Komaki, Eiji Nakagawa, Masayuki Sasaki
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P-219 Clinical features and postsurgical outcome of temporal lobe epilepsy in children with focal lesion
Yukimi Oyoshi, Takashi Saitou, Masaki Iwasaki, Eri Takeshita, Yuko Motohashi, Akihiko Ishiyama, Hirohumi Komaki, Eiji Nakagawa, Masayuki Sasaki
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P-220 Novel noninvasive strategy for presurgical evaluation in a pediatric case of focal epilepsy
Yuji Ito, Hiroyuki Yamamoto, Tohru Oканishi, Satoshi Maesawa, Yuki Makii, Masaharu Tanaka, Yoko Sakaguchi, Yu Okai, Tomohiko Nakata, Hiroyuki Kidokoro, Jun Natsume
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Poster Presentation 32

Epilepsy (Case reports)

P-221 Transition of seizure type in severe motor and intellectual disabilities after West syndrome
Nozomi Oda, Masao Kumode, Takanori Omae, Kumiko Yamashita, Akiko Nagae, Yasuyuki Fujita (Biwakogaku Kenkyutsu Medical and Welfare Center for disabilities)

P-222 Seizure free period and developmental outcome in epilepsy of infancy with migrating focal seizures
Toshihiro Nomura, Yuuko Motohashi, Akihiko Ishiyama, Eri Takeshita, Takashi Saito, Hirofumi Komaki, Eiji Nakagawa, Kenji Sugai, Hirotomo Saito, Atsushi Fujita, Naomichi Matsumoto, Atsushi Ishii, Shinichi Hirose, Masayuki Sasaki
P-223 Three cases of atypical childhood epilepsy with centrotemporal spikes
Hirofumi Kashii1, Masakazu Mimaki1,2, Nobutaka Shimizu1
(1.Department of Pediatrics, Teikyo University School of Medicine, Tokyo, Japan)

P-224 Focal cortical dysplasia with focal onset impaired awareness seizure accompanied by urticaria.
Yoji Ikuta, Mari Asakura, Daichi Suzuki, Satoka Akiyama, Kenta Hayashi, Takahiro Kawaguchi, Kunihiro Oba, Tomoko Sumita, Tatsuo Katori (Department of Pediatrics, Showa General Hospital, Tokyo, Japan)

P-225 A case of post-encephalitic epilepsy with various seizure types induced by carbamazepine
Takenori Natsume1, Makoto Nishioka1, Toshimitsu Yanagisawa1, Mitsuo Motobayashi2, Tetsuhiro Fukuyama1,2
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Poster Presentation 33
Epilepsy (Child development / Transition)
P-227 Transition for epilepsy patients to adult medical care: The current situation and problems
Anzu Noda, Akiko Koyama, Yuki Koshino (Department of Pediatrics, Saitama Citizens Medical Center, Saitama, Japan)

P-228 Attention deficit hyperactive disorders in epileptic children
Mariko Maezawa1, Youichi Doumoto2, Kouichi Tamada2, Tetsuro Yamamoto2
(1.Tsurumi University, Department of Dental Hygiene, Yokohama, Japan, 2.Ise keiyu Hospital, Mie, Japan)

P-229 Quality of Life in children with epilepsy and developmental disorder assessed by J-KIDSCREEN-52
Yasuko Furuchi1, Takafumi Sakakibara2, Satoko Nezu3, Norio Kurumatani2, Toru Hoshida1, Naoki Miki3, Toshiaki Doi2, Mariko Seki1, Seiji Kinoshita1, Midori Shima2
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Poster Presentation 34
Electrophysiology
P-230 Magnetoencephalography sometimes shows lateralized rhythmic activity in focal epilepsy
Yuki Ueda, Midori Nakajima, Kiyoshi Egawa, Shinobu Kohsaka, Hideaki Shiraishi (Department of Pediatrics, Hokkaido University Graduate School of Medicine)

P-231 The implication of Posner paradigm for visuospatial attention: an event-related potential study
Masafumi Sanefuji1,2, Yoshiyuki Shiotsuka3, Hiroshi Yamashita1, Yuki Sonoda1,2, Yoshito Ishizaki1, Yasunari Sakai2, Keiko Yoshida1,2, Keiji Iramina3, Shouichi Ohga2
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P-232 Decreased wave V amplitude in auditory brainstem responses of children with cerebellar lesions
Yuka Matsuura1, Masayoshi Oguri1, Yoshiaki Saito2, Shota Akiyama1, Yoshihiro Maegaki2
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Poster Presentation 35
ADHD
P-233 The analysis of report card of schoolchildren having ADHD treatment
Nobuko Sugiura1, Maki Ohsawa2, Yuri Ozawa2, Chika Kono2, Yukiko Nakamura2, Syota Mitsuhashi1,4, Yosuke Kita3, Hiroshi Ozawa2
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P-234 Effectiveness of Atomoxetine for children of ADHD with enuresis
Ayuko Igarashi1,2, Shinpei Abe1, Mitsuru Ikeno1, Toshiaki Shimizu1
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P-235 Attempt of combination therapy of methylphenidate and atomoxetine for ADHD
Mitsuhiro Matsuo, Kazunori Motoyama, Tamao Nagaoka, Mutsuko Miyazaki, Daishi Inoue, Kaoru Moriyama (Nagasaki Prefectural Children’s Medical Welfare Center, Japan)

P-236 Efficacy of guanfacine for aggressive symptoms coexisting with ADHD
Masao Kawatani1,2,4, Takuya Kosaka1,3, Genrei Ohta1,4, Hiroshi KOMETANI2, Akemi Tomoda1, Michio Hiratani4, Yusei Sugio1
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P-237 Efficacy of guanfacine in ADHD for insufficient atomoxetine or methylphenidate effectiveness.
Kaoru Moriyama, Mitsuhiro Matsuo, Kazunori Motoyama, Tamao Nagaoka, Mutsuko Miyazaki, Daishi Inoue (Nagasaki Prefectural Children’s Medical Welfare Center, Japan)

P-238 Clinical evaluation of guanfacine extended release for the patients in our hospital
Fumitaka Kouno1, Takashi Ichiyama1, Naoko Ishikawa1, Hironori Matsufuji1, Hiroshi Isumi1, Yoko Sugio1,2, Yositsugu Sugio1
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Poster Presentation 36
Developmental disorder (Support)
P-239 Consultation and support for Neurodevelopmental disorders at children’s clinic
Manami Honda, Haruka Okada, Yuki Maruyama (Micri Kids Clinic, Tokyo, Japan)

P-240 Outside activity of pediatricians for regional developmental disorders children
Hirosi Katsumori (Department of Pediatrics, Kawakita General Hospital, Tokyo, Japan)

P-241 The study of group rehabilitation evaluation for developmental disabilities.
Mutsuki Shioda1,2, Kyoko Hirasawa2
(1. Department of Pediatric neurology, Fuji Toranomon Orthopedic Hospital, Gotenba, Japan, 2. Department of Pediatrics, Tokyo Women’s Medical University, Tokyo, Japan)

P-242 Young teachers’ awareness of developmental disorders and their expectations for specialist doctors
Kosuke Nakano (Department of Special Education, Faculty of Education, Ehime University, Matsuyama, Japan 790-8577)

P-243 The spread of Parent Program in Fukui prefecture
Asami Kumano, Hisako Hyashi, Akio Fujine, Akemi Tsuda (Fukui Prefectural Rehabilitation Center For Children With Disabilities, Fukui, Japan)

P-244 Relation between social development and gazing behavior by intervention to children with autism
Toko Mori¹, Toshisaburo Nagai²
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Poster Presentation 37
Muscular disease

P-245 Clinical background of females with non-familial hyper CKremia
Tomoko Lee¹, Sachi Tokunaga¹, Chikako Mure¹, Maiko Misaki¹, Hideki Shimomura¹, Ichizo Nishino³, Kyoko Ito³, Yasuhiro Takeshima¹
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P-246 The brothers of distrophinopathy born from same mother show different genetic abnormalities
Yosuke Hosokawa, Sumire Kumai, Chikako Ogawa, Naoko Kurahashi, Keitaro Yamada, Koichi Maruyama (Aichi Developmental Disability Center, kasugai, Japan)

P-247 A case of infection-induced rhabdomyolysis diagnosed as a carrier of Duchenne muscular dystrophy
Hirokazu Takeuchi, Atsuko Oba, Yasuyuki Wada (The Jikei University School of Medicine Department of Pediatrics)

P-248 Respiratory symptoms of neonatal, early and late infantile onset congenital myasthenic syndrome
Haruna Yokoyama¹, Akihiko Ishiyama¹, Yuko Motohashi¹, Eri Takeshita¹, Takashi Saitoh¹, Eiji Nakagawa¹, Hirohumi Komaki¹, Yasushi Ohya², Ichizo Nishino³, Kinji Ono³, Masayuki Sasaki¹
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P-249 A case of PRKAG2 mutations repeating rhabdomyolysis
Tamami Yano, Hiroki Kubota, Tsutomu Takahashi (Department of Pediatrics, Akita University Graduate School of Medicine, Japan)

P-250 A case of subcutaneous immunoglobulin to congenital myotonic dystrophy with hypogammaglobulinemia
Genrei Ohta¹, Takuya Kosaka¹, Hiroshi Kometani¹, Masao Kawatani¹, Yusei Ohshima¹
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P-251 A case of centronuclear myopathy with tongue fasciculation
Nanako Nishiguchi¹, Kaoru Moriyama¹, Kohei Haraguchi¹, Tatsuharu Sato¹, Hiroyuki Moriuchi¹, Michio Inoue², Mariko Okubo², Ichizo Nishino²
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P-252 myotubular myopathy infant of fatal hepatic hemorrhage by rapidly progressive peliosis hepatitis
Ayako Yamamoto¹,², Hikari Kaba¹, Tatuho Kumaki¹, Azusa Ikeda¹, Yu Tsuchiyas¹, Megumi Tsuji¹, Mizue Iai¹, Sumimasa Yamashita¹, Tomohide Goto¹, Yukiichi Tanaka², Mio Tanaka², Kenji Kurosawa³
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**Poster Presentation 38**

Acute encephalopathy (Status epilepticus type)

P-253 Two cases of acute encephalopathy with partial seizure clustering since acute phase treated by bzp

Syuji Hashimoto1,2, Taichi Imaizumi2, Kanako Takeda2,3, Syoutarou Kaku1,2, Hisako Yamamoto2,3, Natsumo Arai2, Yuuasku Miyamoto2,3, Noriko Udagawa2, Hitoshi Yamamoto2

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P-254 A case of 3-year-old boy compatible with the diagnosis of AERRPS

Tsunehiko Kurokami1, Ayumi Nishimura1, Yumi Mutou1, Maki Gau2, Tomoyuki Kiguchi1, Yuichi Miyakawa1, Shohei Ariji1, Dai Kuranobu1, Reiko Takasawa1, Masato Nishioka1, Tatsuya Yokoyama1, Naoto Hirayanagi1, Masayuki Shimohira1

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P-255 Intravenous ketogenic diet therapy for the acute stage of AERRPS.

Eri Ogawa1, Shuhei Fujino1, Yoshikazu Kitami1, Sayaka Oota1, Hiromi Suzuki1, Sunao Tomita1, Naoki Shimizu2, Sahoko Miyama1

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P-256 Three cases of acute encephalitis with refractory, repetitive partial seizures

Yasuhiro Kimoto1, Elina Taniguchi1, Naoki Karasawa2, Akihiko Nakahara2, Toshio Ikeda1, Hiroshi Moritake1

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P-257 Comparison of clinical courses between two children with AERRPS treated by ketogenic diet

Mitsuo Motobayashi1, Shoko Yamauchi1, Kana Atsumi1, Shihoko Takeuchi1, Hideko Nakajima1, Kiminori Sato2, Norimasa Kurosaka2, Yuka Misawa1, Masatomo Kitamura2, Yuji Inaba1

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P-258 Administration of vitamin cocktail drugs to cases with potential for acute encephalopathy

Taku Omata, Yoshimi Watanabe, Kazuo Kodama, Hiromi Aoyama (Division of Child Neurology, Chiba Children’s Hospital, Chiba, Japan)

**Poster Presentation 39**

MOG antibody-related disease

P-259 Parametric analysis of anti-MOG autoantibody.

Kuniko Kohyama1, Takako Matsuoka1, Asako Horino1, Hiroya Nishida1, Hiroshi Sakuma2

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P-260 Monthly IVIg prevent any relapse of anti-MOG antibody-related demyelinating disease: a case report.

Go Takei1,2, Yuichi Abe1, Michiko Kawai1, Nahoko Ueda1, Ryosuke Urabe1, Itaru Hayakawa1, Sato Suzuki1, Masaya Kubota1

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P-261 Acute encephalitis with seizure, hemiplegia and rapidly progressive brain lesion with MOG antibody
Kenji Uematsu, Hiroshi Matsumoto, Yuki Tsujita, Yasuko Nakamura, Shigeaki Nonoyama, Hideo Osada, Toshiyuki Takahashi
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P-262 Two patients of MOGAb positive ADEM, suspected for association of Chlamydial infection
Kohji Azumagawa, Shohei Nomura, Kimihiko Kaneko, Ichiro Nakshima, Hiroshi Tamai
1. The Department of Pediatrics, Seikeikai Hospital, Osaka, Japan, 2. The Department of Pediatrics, Hirakata Municipal Hospital, Osaka, Japan, 3. The Department of Neurology, Tohoku University Graduate School of Medicine, Sendai, Japan

P-263 A case of anti-MOG antibody positive acute encephalitis localized on the cingulate gyrus
Kaori Aiba, Hajime Sakuma, Mari Sugimoto, Norihisa Koyama, Kenji Yokochi, Kimihiko Kaneko, Toshiyuki Takahashi
1. The Department of Pediatrics, Toyohashi Municipal Hospital, Toyohashi, Japan, 2. The Department of Pediatrics, Seirei Mikatahara General Hospital, Hamamatsu, Japan

P-264 A case of encephalitis with optic neuritis, mimicking MELAS, related to anti-MOG/NMDA-R antibodies.
Tetsuharu Kamioka, Nahoko Ueda, Ryosuke Urabe, Itaru Hayakawa, Michiko Kawai, Go Takei, Sato Suzuki, Hiroshi Terashima, Yuichi Abe, Masaya Kubota
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Demyelinating disease / Myelitis

P-265 A case of plasma exchange in central nervous system demyelinating disorders with optic neuritis
Yutarou Yamauchi, Mihoko Mizuno, Masami Asai, Izumi Tamura, Toshiyuki Takahashi, Shiomi Otsuji, Ryuji Yasui
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P-266 A case of pediatric relapsing-remitting MS resistant to Dimethyl fumarate treated with Natalizumab
Fumiya Yamashita, Kenichi Maeda, Satoshi Akamine, Pin Fee Chong, Ryutaro Kira (The Department of Pediatric Neurology, Fukuoka Children's Hospital, Fukuoka, Japan)

P-267 Long-term prognosis of multiple sclerosis and neuromyelitits optica with a pediatric onset
Takashi Saito, Wagiro Sato, Youwei Lin, Manabu Araki, Tomoko Okamoto, Yuko Motohashi, Eiji Nakagawa, Masayuki Sasaki, Takashi Yamamura
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P-268 Two cases of multiple sclerosis treated with disease modifying drugs.
Yoshitaka Oyama, Masamune Sakamoto, Yoshihiro Watanabe, Saoko Takeshita, Kotaro Nakano
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P-269 A case with a history of herpes simplex encephalitis suffering from multiple sclerosis
Koki Nikaido, Toshihide Watanabe (Department of Neurology, Hokkaido Medical Center for Child Health and Rehabilitation, Sapporo, Japan)
P-270 Two cases of acute transverse myelitis.
Norikatsu Hikita, Kenji Fujita, Satoru Sakuma, Toshiyuki Seto, Takashi Hamazaki (The Department of Pediatrics, Osaka City University, Japan)

Poster Presentation 41
Autoimmune disease 1
P-271 Hashimoto’s encephalopathy with consciousness disturbance and muscle weakness in a girl
Yusuke Aoki, Yasuko Kojima, Mahito Atobe, Motomasa Suzuki, Kazuya Itomi (Department of Pediatric Neurology, Aichi Children’s Health and Medical Center, Obu, Japan)
P-272 A case report of Sjogren’s syndrome with AQP-4 IgG negative neuromyelitis optica spectrum disorders
Yumi Kurokawa¹, Kosuke Kohashi¹, Kazuhiro Suzuki¹, Masato Mori¹, Toshiyuki Takahashi², Ryugo Hiramoto¹
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P-273 Early remission induction by methylprednisolone therapy a case of idiopathic abducens nerve palsy
Nobuyoshi Sugiyama¹, Chinami Kaiga¹,², Mariko Ikegami¹,², Shin-Ichi Matsuda¹, Yoshihiro Miyashita¹
1. The Department of Pediatrics, Tokai University School of Medicine, Kanagawa, Japan, 2. The Department of Pediatrics, Tokai University School of Medicine Hachioji Hospital, Tokyo, Japan
P-274 A case of Guillain-Barré syndrome with facial diplegia and paresthesia
Wakaba Endo, Yu Abe, Yurika Uematsu, Mitsugu Uematsu, Shigeo Kure (Department of Pediatrics, Tohoku University School of Medicine, Sendai, Japan)
P-275 A case of autoimmune autonomic ganglionopathy with severe orthopedic hypotension.
Kenichi Torii¹,², Masashi Miharu¹, Momoko Kawazu¹, Atsuko Amemiya², Eri Suzuki², Kazuki Yamazawa², Hiroyasu Fujita², Ryutaro Kohira³, Osamu Higuchi⁴, Shunnya Nakane⁵, Osamu Komiyama², Takao Takahashi³
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P-276 Myasthenia gravis with serum AChR antibodies and LRP4 antibodies masquerading motor delay
Takayuki Mori¹, Yu Kakimoto¹, Satoshi Takenaka¹, Konomi Shimoda¹, Atsushi Sato¹, Akira Oka¹, Masashi Mizuguchi², Osamu Higuchi²
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P-277 A case of CLIPPERS syndrome successfully treated with azathioprine
Eri Koshino, Iku Ikeno, Ayano Yokoi, Hiroyasu Nakagawa, Akiko Mizukami, Rie Kuroda, Yusuke Mitani, Mondo Kuroda, Akihiro Yachie (Department of Pediatrics, Institute of Medical, Pharmaceutical and Health Sciences, Kanazawa University, Ishikawa, Japan)
P-278 A case of developmental regression associated with anti-GluD2 antibody
Yoshino Oyazato¹, Shizuka Nagase¹,², Yukitoshi Takahashi³, Atsuko Kanagawa¹, Tomoshi Nakajiri¹, Sora Okita¹, Atsushi Nishiyama¹
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P-279 Recurrent N-methyl-d-aspartate receptor encephalitis soon after a good response to first therapy.
Masamune Sakamoto, Saoko Takeshita, Yoshihiro Watanabe, Yoshitaka Oyama
(Yokohama city university medical center, Kanagawa, Japan)
P-280 A case of opsoclonus-myoclonus syndrome with neuroblastoma
Kimiaki Uetake (Obihiro Kosei General Hospital, Obihiro, Japan)
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Infection
P-281 A case of Sphenoid Sinusitis with photophobia, headache and fever
Yuki Inami, Kazushi Ichikawa (The Children’s Medical Center, Fujisawa City Hospital)

P-282 A case of tuberculosis meningitis with cerebral infarction
Tatsuya Ito, Arisa Asari, Megumi Isizawa, Tatsuya Yamamoto, Etsouru Ito (Department of Pediatrics, University of Hirosaki, Hirosaki, Japan)

P-283 A case of subdural abscess with venous sinus thrombosis secondary to acute sinusitis
Toshiaki Tanaka¹, Daisuke Fuzimori², Masahiko Tanabe¹, Youko Nishimura¹, Yoshiro Saitou¹, Yoshihiro Maegaki¹, Hiroki Yoshioka³, Yousuke Nakamura⁴, Shibeki Nakamoto⁵
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Metabolism
P-284 Challenges in dietary therapy in patients with ECHS1 deficiency
Ikuco Shirai¹, Ikuko Shirai¹-², Atsuko Arisaka², Erika Ogawa³, Keiko Ichimoto¹, Kei Murayama⁴, Mari Kuwajima⁵, Hitoshi Osaka⁵, Yusuke Hamada⁶, Akira Ohtake³, Satoko Kuma²
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P-285 A patient of neonatal onset Leigh syndrome with a novel mutation (m.3955G>A) in the MT-ND1 gene
Tatsuro Kumaki¹, Yoko Shinbo², Yu Tsuyusaki¹, Ayako Yamamoto¹, Kenji Sei⁵, Kazushi Ichikawa², Megumi Tsuji¹, Mizue Iai¹, Sumimasa Yamashita³, Noriko Aida¹, Kenji Kurosawa², Kei Murayama³, Ichizo Nishino³, Yuichi Goto³, Tomohide Goto³
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P-286 Infantile mitochondrial disease presenting with hemorrhagic subependymal cyst
Yuki Kasuga¹, Erika Ogawa¹, Jun-Ichi Suzuki¹, Mika Ishige², Masaru Shimura², Kei Murayama², Akira Ohtake³, Tatsuo Fuchigami¹, Ichiro Morioka¹
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P-287 Intestinal pseudo-obstruction and superior mesenteric artery syndrome in a patient with MELAS
Yoshitaka Mitsu¹, Hitoshi Sato¹, Kaoi Taga¹, Reiko Fujisawa¹, Yo Shimizu¹, Shin Toki¹, Yoshitomo Yasui², Chisato Akita¹, Kanju Ikeno¹, Yo Niida¹, Yutaka Saikawa¹
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P-288 A case of classical Menkes adult patient treated with weekly intravenous copper supplementation
Pin Fee Chong¹-², Reina Ogata³, Kenichi Maeda¹, Ryoko Nakamura¹, Toru Imagi¹, Fumiya Yamashita¹, Satoshi Akamine¹, Ryutaro Kira¹
P-289 A case of Menkes disease with refractory diarrhea and bloody stools
Taiju Hayashi1, Rei Urushibata1, Hidetoshi Ishigaki1, Takuya Hiraide1, Tomoko Matsubayashi2, Tokiko Fukuda1
(1.Department of Pediatrics Hamamatsu University School of Medicine, Hamamatsu, Japan, 2.Department of Pediatrics, JA Shizuoka Kohseiren Enshu Hospital, Hamamatsu, Japan)

P-290 Acute exacerbation in a case of nonketotic hyperglycinemia
Kozue Ohkuma1, Yohane Miyata1, Makiko Kanazawa1,2, Miwa Nakagawa1, Kunimasa Yan1
(1.The Department of Pediatrics, Kyorin University, Tokyo, Japan, 2.The Department of Pediatrics, Toyama Prefectural Rehabilitation Hospital and Support Center for Children with Disabilities, Toyama, Japan)

P-291 Long-term survival of a case of neonatal nonketotic hyperglycinemia
Kazushi Ichikawa, Yuki Inami, Hitoshi Kitagata, Kaori Kaneko (Department of Pediatrics, Fujisawa City Hospital, Fujisawa, Japan)

P-292 Long-term follow-up of a patient with Gaucher disease type 3c
Rika Hiraiwa1, Aya Narita2, Yoshihiro Maegaki2, Kaori Adachi3, Eiji Nanba4,5, Kousaku Ohno1
(1.Department of Pediatrics, Eastern Shimane Rehabilitation Hospital, Matsue, Japan, 2.Division of Child Neurology, Faculty of Medicine, Tottori University, Yonago, Japan, 3.Research Initiative Center, Organization for Research Initiative and Promotion, Tottori University, Yonago, Japan, 4.Research Strategy Division, Organization for Research Initiative and Promotion, Tottori University, Yonago, Japan, 5.Division of Clinical Genetics, Tottori University Hospital, Yonago, Japan, 6.Sanin Rosai Hospital, Yonago, Japan)

P-293 The case of PIGN related inherited GPI deficiency with mitochondrial respiratory-chain deficiency
Toshino Motojima1,2, Mio Watanabe2,3, Takashi Shiihara3, Yuuichi Suzuki4, Kei Murayama3, Hirokazu Arakawa2
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P-294 Compound heterozygous mutations in HSD17B4 cause childhood leukodystrophy.
Akiyo Yamamoto1, Shinsuke Katou1, Kentaro Kawamura1, Shinobu Fukumura1, Yumi Habata2, Nobuyuki Shimozawa3, Shoko Miyamoto1, Mitsuko Nakashima4, Hirotomo Saito1
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P-295 An extremely mild case of Molybdenum Cofactor Deficiency
Shizuka Nagase1,2, Megumi Nukui1,2, Naohiro Yamamoto1,2, Takeshi Inoue1,2, Ichiro Kuki1,2, Shin Okazaki1,2, Hiroyuki Miwa3, Kimiyoshi Ichida3, Hisashi Kawakami1,2
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P-296 11 years old boy diagnosed as Fabry disease with plantar pain and facial hypohidrosis
Takuya Miyabayashi1, Kazuhiro Haginoya1, Ryo Sato1, Yukimune Okubo1, Takehiko Inui1, Noriko Togashi1, Yoshikatsu Eto1
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**Poster Presentation 44**

**Neurodegenerative disease**

**P-297** A case of infantile type dentatorubral-pallidoluysian atrophy (DRPLA) diagnosed by MRI findings  
Kuniko Tokoro, Miyuki Hoshi, Emiko Kobayashi, Kanami Akaza, Tatsuya Sakashita, Sotaro Yuzawa, Kazuhiro Hirata, Kunihiro Matsunami, Eiji Matsukuma, Kaori Kumazaki, Jun Imamura (Department of Pediatrics, Gifu Prefectural General Medical Center, Gifu, Japan)

**P-298** A boy with vanishing white matter disease, presenting seizure, hepatosplenomegaly  
Masato Hiyane¹, Tsuyoshi Matsuoka¹, Toshiyuki Yamamoto², Ken Inoue³  
(1.Department of child neurology, Okinawa prefectural southern medical center and children medical center, Haebaru town, Japan, 2.Department of genetic medical center, Tokyo Women's medical university, Tokyo, Japan, 3.Department of mental retardation and birth defect research, National center of neurology and psychiatry, Tokyo, Japan)

**P-299** Inflammatory neuropathology of infantile Alexander disease: A case report  
Kengo Kora¹, Mariko Shinohara¹, Shu Hamada¹, Minako Ide¹, Takayuki Tanaka², Tomokatsu Yoshida¹, Takeo Kato¹  
(1.Department of Pediatric neurology, Hyogo Prefectural Amagasaki Medical Center, Hyogo, Japan, 2.Department of Pediatrics, Graduate School of Medicine, Kyoto University, Kyoto, Japan, 3.Department of Neurology, Kyoto Prefectural University of Medicine, Kyoto, Japan)

**Poster Presentation 45**

**Peripheral nerve**

**P-300** Muscle US was useful in the diagnosis and treatment of myokymia. A case report of Isaacs syndrome  
Hiromi Yamaguchi¹, Atsushi Ishii¹, Yukiko Ihara¹, Hitomi Hayashi¹, Takako Fujita¹, Hiroshi Ideguchi¹, Takahito Inoue¹, Sawa Yasumoto², Shinichi Hirose³  
(1.Department of Pediatrics, Fukuoka University, 2.Fukuoka University Medical Education Center)

**P-301** A case of Guillain-Barre syndrome with fever and neck stiffness  
Asami Ito (The Department of Pediatrics, Hiratsuka City Hospital, Kanagawa, Japan)

**P-302** A case of childhood onset multifocal motor neuropathy with GM2 and GalNac-GD1a IgM antibodies  
Hiroshi Maeda¹, Ryotaro Ishii², Susumu Kusunoki³, Tomohiro Chiyonobu⁴  
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**P-303** A case of DYNC1H1 gene mutation with symptoms of Charcot-Marie-Tooth disease and SMA-LED  
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**P-304** Ultrasonographic examination for peripheral nerves and nerve roots in children.  
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**P-305** Peripheral nerve ultrasonography evaluation in a patient with Dejerine-Sottas syndrome.  
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Matsubayashi¹, Keiko Hirano², Hiroshi Takashima³, Tokiko Fukuda¹
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P-306 Some cases of peripheral neuron diseases may be due to Allgrove syndrome.
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Poster Presentation 46

Involuntary movement / Basal ganglia disease

P-307 Evaluation of the score of YGTSS-J, age and the first medicine in Tourette syndrome
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P-308 The effect of levetiracetam with Tic syndrome.
Hiroshi Ozawa¹, Kenichiro Tsunematsu¹
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P-309 A case of intrathecal baclofen to malnutrition by secondary dystonia.
Yuiko Hamada¹, Sadao Nakamura¹, Noriko Nakayama¹, Kazuya Hamada¹, Takuya Kaneshi¹, Noriko Kinjo¹, Yasutsugu Chinen¹, Koichi Nakanishi¹, Takeshi Kamiya², Takeshi Kinjo¹, Tsy Yoshi Omí¹, Kunihito Tamashiro⁵
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P-310 A case of a 15-year-old girl with SLE with positive antiphospholipid antibody presenting hemichorea
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P-311 Clinical experience of postpump chorea
Tsukasa Ohashi (Department of Pediatrics, Niigata University Medical and Dental Hospital)

P-312 A father's case of ICCA syndrome diagnosed and treated for daughter's benign infantile epilepsy
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Poster Presentation 47

Sleep disorder

P-313 Efficacy of Yokukansan for Restless Legs Syndrome in Children
Eiji Kurihara (Department of Neuropediatrics, Tokyo Metropolitan Neurological Hospital, Tokyo, Japan)

P-314 Sleep disorders with decreased ferritin levels in the patients of neurological clinic for children
Michio Fukumizu¹,¹, Kyoko Hoshino¹, Yuri Nagao¹, Kazue Kimura¹, Masaharu Hayashi¹, Ayumi Tsuru², Eiji Nakagawa²
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P-315 Appropriate time of taking ramelteon and improvement of bed time for neurodevelopmental
disorders
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P-316 2 Cases of Keine-Levin syndrome
Tomoko Uchida, Shinya Hattori, Setsuo Ohta, Ryosuke Suzuki, Tadashi Shiohama, Hajime Ikehara, Katsunori Fujii, Naoki Shimojo
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P-317 A case of Kleine-Levin syndrome followed by influenza type B infection
Takuji Nakamura, Muneaki Matsuo
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P-318 Polysomnographic analysis of a 13-year-old girl with epileptic seizure and arms rising during sleep
Kumi Kato-Nishimura, Nobuko Moriyama
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P-319 A case of LO-CCHS revealed by febrile status epilepticus.
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