The 60th Annual Meeting of the Japanese Society of Child Neurology

May 31st–June 2nd, 2018
Makuhari Messe

PROGRAM
Presidential Lecture
Chair: SHINJI SAITOH
(Department of Pediatrics and Neonatology, Nagoya City University Graduate School of Medical Sciences)
The role of Child Neurology in the society
Akira Oka (Department of Pediatrics, Graduate School of Medicine, The University of Tokyo)

Special Lecture 1
Chair: Takao Takahashi (Department of Pediatrics, University of Keio)
KINDLING KNOWLEDGE IN DEVELOPMENTAL ASPECTS OF EPILEPSY
Solomon L. Moshé (Saul R.Korey Department of Neurology, Dominick P.Purpura Department Neuroscience and Department of Pediatrics, Albert Einstein College of Medicine and Montefiore Medical Center, Bronx, New York, USA)

Special Lecture 2
Chair: Kyoko Ito (Department of Pathology and Applied Neurobiology, Graduate School of Medicine, Faculty of Medicine, Kyoto University)
Systematic elucidation of disorders due to defective synthesis of O-Mannose type sugar chains including Fukuyama-type muscular dystrophy, and toward their therapy
Tatsushi Toda (Department of Neurology, Graduate School of Medicine, University of Tokyo)

Invited Lecture 1
Chair: Hitoshi Yamamoto (Department of Pediatrics, St.Marianna-University of Medicine)
The immune system and the brain: autoimmune encephalitis, autoimmune demyelination and other emerging diseases
Russell C. Dale (Pediatric Neurology, the Children’s Hospital at Westmead, University of Sydney, Australia)

Invited Lecture 2
Chair: MIMAKI MASAKAZU (Department of Pediatrics, Teikyo University School of Medicine, Tokyo, Japan)
From Pontocerebellar Hypoplasia to Leigh Syndrome and beyond: an update on mitochondrial encephalopathies
David R. Thorburn (Murdoch Childrens Research Institute and Victorian Clinical Genetics Services, Royal Children’s Hospital, Melbourne, VIC, Australia, Department of Paediatrics, University of Melbourne, VIC, Australia)

Invited Lecture 3
Chair: Ken Inoue (Dept. Mental Retardation & Birth Defect Research, National Institute of Neuroscience, NCNP)
Undiagnosed Disease Program in Korea: Lessons & Learned from 1 year pilot project
Jong-Hee Chae (Division of Pediatric Neurology, Department of Pediatric Seoul National University Children’s Hospital, Seoul National University College of Medicine, Seoul, Korea)

Education Lecture 1
Chair: TAKADA SATOSHI (Kobe City Pediatric and General Rehabilitation Center for the Challenged, Kobe, Japan)
Understanding and support for neurodevelopmental disorder in adolescence
Hideo Matsumoto (Department of Psychiatry, Tokai University School of Medicine, Japan)
Education Lecture 2
Chair: Satoko Kumada (Department of Neuropediatrics, Tokyo Metropolitan Neurological Hospital, Tokyo, Japan)
Neuromuscular electrodiagnosis including clinical application for children
Masahiro Sonoo (Department of Neurology, Teikyo University School of Medicine, Tokyo, Japan)

Education Lecture 3
Chair: Hideo Yamanouchi (Department of Pediatrics, Saitama Medical University, Saitama, Japan)
Surgical treatment for children with drug-resistant epilepsy: update
Kensuke Kawai (Department of Neurosurgery, Jichi Medical University, Shimotsuke, Japan)

Education Lecture 4
Chair: Eiji Nanba (Research Center for Bioscience and Technology, Tottori University)
The current status of elucidation of molecular pathophysiology starting from genome analysis of autistic spectrum disorders
Norio Ozaki (Department of Psychiatry & Department of Child and Adolescent Psychiatry, Nagoya, Japan)

Education Lecture 5
Chair: Kazuhiro Muramatsu (Department of Pediatrics, Jichi Medical University, Tochigi, Japan)
Top ten important rules for successful presentations in conference
Yoshinobu Watanabe (Department of Orthopaedic Surgery, Teikyo University School of Medicine, Tokyo, Japan)

Public Forum
Chair: Satoshi Takada (Kobe City Pediatric and General Rehabilitation Center for the Challenged, Kobe, Japan),
Shigemi Kimura (Kumamoto City Child Development Support Center, Kumamoto, Japan)
Support for the children in the disaster situations - focusing on the children with disabilities-
1) Support in daily life for severely handicapped children who need medical care
Kiyokuni Miura (Department of Pediatric Neurology, Toyota Municipal Child Development Center, Toyota, Japan)
2) Support for disabled children in affected areas
Soichiro Tanaka (Home Care Clinic for children Aozora Hokkori Sendai)
3) Construction of the disaster emergency network for handicapped children using the respirator
Shigemi Kimura (Kumamoto City Child Development Support Center, Kumamoto, Japan)
4) How we should support children with developmental disability in emergency shelter
Naru Fukuchi (Miyagi Disaster Mental Health Care Center, Miyagi, Japan)
5) Shelters for the children with disabilities Effective use of the existing school buildings for the disabled children
Satoshi Takada (Kobe City Pediatric and General Rehabilitation Center for the Challenged, Kobe, Japan)

Symposium 1
Chair: Jun-ichi Takanashi (Department of Pediatrics, Tokyo Women's Medical University Yachiyo Medical Center, Yachiyo, Japan),
Masashi Mizuguchi (Department of Developmental Medical Sciences, the University of Tokyo, Tokyo, Japan)
Acute encephalopathy 2018 up-to-date
1) Overview of acute encephalopathy, with reference to latest epidemiological survey
Masashi Mizuguchi, Ai Hoshino (Department of Developmental Medical Sciences, the University of Tokyo, Tokyo, Japan)
2) The fundamentals of clinical guideline for acute encephalopathy 2016
The 60th Annual Meeting of the Japanese Society of Child Neurology

Akihisa Oumura (Department of Pediatrics, Aichi Medical University, Nagakute, Japan)

3) Widening spectrum of encephalopathy with excitotoxicity
   Jun-ichi Takanashi (Department of Pediatrics, Tokyo Women's Medical University Yachiyo Medical Center, Yachiyo, Japan)

4) Therapeutic strategy against acute encephalopathy in children
   Hideo Yamanouchi (Department of Pediatrics, Saitama Medical University, Saitama, Japan, Comprehensive Epilepsy Center, Saitama Medical University Hospital, Saitama, Japan)

5) Genetic risk factors of acute encephalopathy in Japanese patients
   Ai Hoshino1, HIROKAZU KURAHASHI2
   (1.Department of Developmental Medical Sciences, University of Tokyo, Japan, 2.Department of Pediatrics, Aichi Medical University)

6) Neuroinflammation in febrile infection-related epilepsy syndrome and virus-associated acute encephalopathy
   Hiroshi Sakuma1, HIROKO TADA1,2, TOMONORI SUZUKI1,3, SETSUKO HASEGAWA1,3, TAKAKO MATSUOKA1,4
   (1.Department of Brain Development and Neural Regeneration, Tokyo Metropolitan Institute of Medical Science, Tokyo, Japan, 2.Devision of Pediatrics, Chibaken Saiseikai Narashino Hospital, Narashino, Japan, 3.Department of Pediatrics and Developmental Biology, Tokyo Medical and Dental University, Tokyo, Japan, 4.Department of Immunology, National Institute of Neuroscience, National Center of Neurology and Psychiatry, Tokyo, Japan.)

Symposium 2
Chair: Osuke Iwata (Department of Pediatrics and Neonatology, Nagoya City University Graduate School of Medical Sciences), Naoto Takahashi (Department of Pediatric and Neonatal Intensive Care The University of Tokyo Hospital)

Influence of light environment on the development of biological rhythm, cerebral function and diseases
1) Regulation of behavioral rhythm by environmental factors
   Satoru Masubuchi (Department of Physiology, Aichi Medical University, Nagakute, Aichi, Japan)

2) Circadian rhythm of preterm infants
   Masahiro Kinoshita (Department of Pediatrics and Child Health, Kurume University School of Medicine, Fukuoka, Japan)

3) Child sleep and physical and mental health: results from large epidemiological studies on social determinants of health
   Michikazu Sekine (Department of Epidemiology and Health Policy, University of Toyama, Toyama, Japan)

4) Mutual relationship between circadian rhythm and sleep homeostasis
   Kazuhiko Kume (Nagoya City University, Graduate School of Pharmaceutical Sciences)

Symposium 3
Chair: Hiroyuki Moriuchi (Department of Pediatrics, Nagasaki University Graduate School of Biomedical Sciences)

Progress in the clinical management of congenital cytomegalovirus infection
1) The need of updated management of congenital cytomegalovirus infection
   Akira Oka (Department of Pediatrics, Graduate School of Medicine, The University of Tokyo)

2) Progress in diagnostics
   Hiroyuki Moriuchi (Department of Pediatrics, Nagasaki University Graduate School of Biomedical Sciences)

3) Perspective of antiviral treatment
   Ichiro Morioka (Department of Pediatrics, Kobe University Graduate School of Medicine)

4) Cooperation with multi-department and neurodevelopmental aspects in congenital cytomegalovirus infection
   Yuji Inaba (1.Division of Neurology, Nagano Children's Hospital, Azumino, JAPAN, 2.Center for Perinatal, Pediatrics and Environmental Epidemiology, Shinshu University School of Medicine, Matsumoto, Japan)

5) Public awareness-raising activities for Prevention of mother-to-child Infections by a patient's
The 60th Annual Meeting of the Japanese Society of Child Neurology

Symposium 4
Chair: Yuich Goto (Medical genome center, National Center of Neurology and Psychiatry), Masakazu Mimaki (Department of Pediatrics, Teikyo University School of Medicine, Tokyo, Japan)

Diagnosis and management of mitochondrial disorders: current status and future perspectives
1) Diagnostic pitfalls in mitochondrial diseases
   Masakazu Mimaki (Department of Pediatrics, Teikyo University School of Medicine, Tokyo, Japan)

2) Biomarkers of mitochondrial disorders
   Shuichi Yatsuga (Department of Pediatrics and Child Health, Kurume University School of Medicine)

3) Genetic counseling of mitochondrial disease
   Eri Takeshita, Haruka Sugimoto, Yuichi Goto
   (1. Department of Child Neurology, National Center Hospital, National Center of Neurology and Psychiatry, Tokyo, Japan, 2. Department of Genetic Counseling National Center Hospital, National Center of Neurology and Psychiatry, Tokyo, Japan)

4) Approach from assisted reproductive technology for mitochondrial diseases
   Kou Sueoka (Department of Obstetrics and Gynecology, Keio University School of Medicine, Tokyo, Japan)

5) Mitochondrial DDS opens an innovative mitochondrial disease therapy
   Yuma Yamada, Hideyoshi Harashima (Faculty of Pharmaceutical Sciences, Hokkaido University, Sapporo, Japan)

Symposium 5
Chair: Akihisa Oumura (Department of Pediatrics, Aichi Medical University, Nagakute, Japan), Harushi Mori (Department of Radiology, Graduate School and Faculty of Medicine, the University of Tokyo, Tokyo, Japan)

Innovative neuroradiology for pediatric neurological disorders
1) Recent advances of brain MR imaging for children: silent techniques and synthetic MRI
   Shigeki Aoki, Christina Andica, Akifumi Hagiwara
   (1. Department of Radiology, Juntendo University, Tokyo, Japan, 2. Department of Radiology, University of Tokyo, Tokyo, Japan)

2) Pediatric clinical applications of susceptibility–weighted imaging
   Masahiro Ida (Department of Radiology, Tokyo Metropolitan Ebara Hospital)

3) Signal characteristics of the brain MRI after birth
   Toshiaki Taoka (Department of Radiology, Nagoya University, Nagoya, Japan)

4) Brain metabolism evaluated by MR spectroscopy
   Jun-ichi Takanashi (Department of Pediatrics, Tokyo Women's Medical University Yachiyo Medical Center, Yachiyo, Japan)

5) Chemical exchange saturation transfer (CEST) imaging: application to neuroimaging
   Osamu Togao, Akio Hiwatashi, Koji Yamashita, Daichi Momosaka, Hiroshi Honda (Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan)

Symposium 6
Chair: Shinji Saitoh (Department of Pediatrics and Neonatology, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan), Takanori Yamagata (Department of Pediatrics, Jichi Medical University)

Toward clinical application of gene and cell therapy for child neurological diseases
1) New era on pediatric neurological diseases using viral and cellular therapy
   Hitoshi Osaka (Dept. of Pediatrics, Jichi Medical School, Shimotsuke, Japan)

2) Gene therapy approaches for treatment of Angelman syndrome
   Kee-Hong Kim, Jennifer Daily, Anthony Arulanandam, Mark J. Pykett, Kevin Nash, Edwin J Weeber
   (1. Agilis Biotherapeutics, USA, 2. University of South Florida, USA)
3) Gene therapy for AADC deficiency  
   Karin Kojima, TAKANORI YAMAGATA (The Department of Pediatrics, Jichi Medical University, Tochigi, Japan)

4) Genome-editing gene therapy targeting liver for hemophilia B  
   Tsukasa Ohmori (Department of Biochemistry, Jichi Medical University)

5) Regenerative medicine using mesenchymal stem cells  
   Takeshi Taketani (Department of Pediatrics, Shimane University Faculty of Medicine)

6) No English Title  
   Mariko Ikeda (Department of Pediatrics, Kobe University, Shindai)

Symposium 7  
Chair: Norimichi Higurashi (Department of Pediatrics, Jikei University School of Medicine, Tokyo, Japan), Tomoyuki Akiyama (Department of Child Neurology, Okayama University)

ILAE 2017 classification of the epilepsies and seizure types  
1) 2017 Classifications of the seizures and epilepsy with a future classification road map  
   Solomon L. Moshé (Saul R.Korey Department of Neurology, Dominick Purpura Department of Neuroscience and Department of Pediatrics, Albert Einstein College of Medicine and Montefiore Medical Center, Bronx, New York, USA)

2) 2017 classification of seizure types —a practical guide  
   Norimichi Higurashi (Department of Pediatrics, Jikei University School of Medicine, Tokyo, Japan)

3) Translation of ILAE 2017 Classification into Japanese, problems of the classification, and domestic measures of the Japan Epilepsy Society to it from now on  
   Kenji Sugai (1. Department of Child Neurology, National Center of Neurology and Psychiatry, 2. Ex-Chairperson, The Committee of Classification and Terminology, The Japan Epilepsy Society)

Symposium 8  
Chair: Ryoichi Sakuta (Child Development and Psychosomatic Medicine Center, Dokkyo Medical University Saitama Medical Center, Saitama, Japan), Hideo Matsumoto (Department of Psychiatry, Tokai University School of Medicine, Japan)

Adolescent neurodevelopmental disorders and psychosomatic medicine for pediatric neurologists  
1) Psychosomatic and psychosocial problems in children  
   Yuko Ishizaki (Department of Pediatrics, Kansai Medical University)

2) Eating disorder in childhood and young adults: treatment and prevention  
   Ryoichi Sakuta (Child Development and Psychosomatic Medicine Center, Dokkyo Medical University Saitama Medical Center, Saitama, Japan)

3) Bio-psycho-social management for children with school refusal  
   Shinichiro Nagamitsu, Yushiro Yamashita (Department of Pediatrics and Child Health, Kurume University School of Medicine)

4) Beneficial Psychology in Out-patient Care: The Meaning of Psychological Examination and the Knowledge of Stress Coping  
   Mami Tazoe (Japan Lutheran College, Tokyo, Japan)

Symposium 9  
Chair: Katsunori Fujii (Department of Pediatrics, Chiba University Graduate School of Medicine, Chiba, Japan), Akihiko Ishiyama (Department of Child Neurology, National Center Hospital, National Center of Neurology and Psychiatry, Tokyo, Japan)

Seminar of the peripheral neuropathy in children  
1) Clinical manifestations of peripheral nervous system disorders in children  
   Katsunori Fujii (Department of Pediatrics, Chiba University Graduate School of Medicine, Chiba, Japan)

2) Chronic inflammatory demyelinating polyradiculoneuropathy  
   Saoko Takeshita (Department of Pediatrics, Yokohama City University Medical Center, Yokohama, Japan)

3) Clinical aspects of peripheral nervous disorders: Hereditary neuropathy
The 60th Annual Meeting of the Japanese Society of Child Neurology

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

Symposium 10

Chair: Yuka Ishikawa (Department of Pediatrics, National Organization Yakumo Hospital, Hokkaido, Japan), Tatsuya Fujii (Department of Pediatrics, Shiga Medical Center for Children, Moriyama, Japan)

Regional management of children with intractable neuromuscular and neurological disease

1) Support for patients with neuromuscular disorders in the transition from pediatric to adult care
   Keiko Ishigaki (Department of Pediatrics, Tokyo Women's Medical University, School of Medicine, Tokyo, Japan)

2) The coordination of clinical cooperation with other departments.
   Tatsuharu Sato (The Department of Pediatrics, Nagasaki University Hospital, Nagasaki, Japan)

3) Cooperation among 3 bodies: hospitals with specialists, home doctors and community hospitals
   Tatsuya Fujii (Department of Pediatrics, Shiga Medical Center for Children, Moriyama, Japan)

4) Home-visit medical care provided by a pediatric neurologist
   Toshiyuki Kumagai (Kuma home medical care clinic, Nagoya, Japan)

5) Multidisciplinary care in children with intractable neuromuscular disease
   Yuka Ishikawa, YUKITOSHI ISHIKAWA (Department of Pediatrics, National Organization Yakumo Hospital, Hokkaido, Japan)

Symposium 11

Chair: Hirotoshi Maeda (Medical Incorporated Foundation Harutaka kai), Hiroshi Ozawa (Shimada Ryoiku Center Hachioji)

To Provide Support System for School Life of Children Who Need Medical Care for Everyday Life.

1) Supports for children with medical care at school
   Tetsuya Kashihara (The Ministry of Education, Culture, Sports, Science, and Technology, Tokyo, Japan)

2) The history and future prospects of medical care in special support education
   Nobuyuki Tazoe (Tokyo Metropolitan Kodaira School for the Physically Disabled, Tokyo, Japan)

3) The legality of medical practice in communities and schools
   Nobuhiko Horioka (Ministry of Health, Labor and Welfare Health Policy Bureau)

4) The nursing care in the school for children requiring artificial breathing management
   Masanori Tamura (Department of Pediatrics, Saitama Medical Center, Saitama Medical University, Kawagoe, Japan)

5) School life support for children who need medical care at Toyonaka Municipal Elementary/Junior High School
   Yoko Ueda (Toyonaka City Board of Education Secretariat Child Student Division Support Education Section)

6) Support for the children who need medical care at school
   Satoshi Takada (Kobe City Pediatric and General Rehabilitation Center for the Challenged, Kobe, Japan)

Symposium 12

Chair: Eiji Nakagawa (Department of Child Neurology, National Center Hospital, National Center of Neurology and Psychiatry), Jun Tohyama (Department of Pediatrics, Nishi-Niigata Chuo National Hospital, Niigata, Japan)

Update on the newer antiepileptic drugs in child neurology: Expert opinion

1) New antiepileptic drugs advance in Japan and adaptation to children
   Eiji Nakagawa (Department of Child Neurology, National Center Hospital, National Center of Neurology and Psychiatry)

2) The way to use antiepileptic drugs based on recommendation by ILAE and NICE guideline
   Jun Tohyama (1. Department of Pediatrics, Nishi-Niigata Chuo National Hospital, Niigata, Japan, 2. Niigata University Medical and Dental Hospital, Niigata, Japan)

3) How to use new antiepileptic drugs in epilepsy syndromes
   Tomoyuki Akiyama (Department of Child Neurology, Okayama University)
4) How to use the new antiepileptic drugs for refractory epilepsy in measure of the mechanism of the drugs
Hideaki Shiraishi (Department of Pediatrics, Hokkaido University Hospital)

**Symposium 13**
Chair: Kyoko Tanaka (Department of Psychosocial Medicine National Center for Child Health and Developmen),
Osuke Iwata (Department of Pediatrics and Neonatology, Nagoya City University Graduate School of Medical Sciences)

The needs of bio-psycho-social assessment and appropriate support for variety of child development with chronic diseases.
1) Diversity in the development of foetus and newborn infants
Osuke Iwata (Nagoya, Japan)
2) Mother-child interaction and influence on development -From a Psychological point of view-
Masako Nagata (Psychological Support1 &Research Center for Human Development, NAGOYA UNIVERSITY, Nagoya, Japan)
3) Social Determinants of Child Development
Kaeko Ogura (Morinomiya Hospital, Department of Pediatric Neurology, Osaka, Japan)
4) Understanding and support for diversity of child development based on biopsychosocial assessment
Kyoko Tanaka (Department of Psychosocial Medicine National Center for Child Health and Developmen)

**Symposium 14**
Chair: Shinji Saitoh (Department of Pediatrics and Neonatology, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan.),
Kazuhiro Muramatsu (Department of Pediatrics, Jichi Medical University, Tochigi, Japan)

Autophagy disease in child neurology: from bench to bedside
1) Molecular mechanism and function of autophagy–related factors in model animals
Hideaki Morishita (Department of Biochemistry and Molecular Biology, Graduate School and Faculty of Medicine, The University of Tokyo)
2) Pathophysiology of lysosomal storage diseases and autophagic disorders
Takanobu Otomo (Department of Pathophysiology and Metabolism, Kawasaki Medical School, Kurashiki, Japan)
3) Pediatric neurological disorder caused by defects in autophagy: Vici syndrome
Shinji Saitoh (Department of Pediatrics and Neonatology, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan.)
4) SENDA/BPAN Pediatric neurological disease induced by impaired autophagy
Kazuhiro Muramatsu (Department of Pediatrics, Jichi Medical University, Tochigi, Japan)

**Symposium 15**
Chair: Masaya Kubota (National Center foe Child Health and Development, Tokyo, Japan),
Masashi Mizuguchi (Department of Developmental Medical Sciences, the University of Tokyo, Tokyo, Japan)

Update on the clinical management of tuberous sclerosis complex
1) Problems and significance of genetic diagnosis of tuberous sclerosis complex
Yo Niida (Center for Medical Genomics, Kanazawa Medical University)
2) Update on treatment of tuberous sclerosis complex: from the child neurologists' point of view
Tohru Okanishi, Ayataka Fujimoto (1.Department of Child Neurology, Comprehensive Epilepsy Center, Seirei-Hamamatsu General Hospital, 2.Department of epilepsy & surgery, Comprehensive epilepsy center, Seirei-Hamamatsu General Hospital, Hamamatsu, Japan)
3) Surgical treatment of drug-resistant epilepsy associated with tuberous sclerosis
Kensuke Kawai (Department of Neurosurgery, Jichi Medical University, Shimotsuke, Japan)
4) Perspective of autism spectrumdisorder and TAND
Atsushi Sato (Department of Pediatrics, The University of Tokyo Hospital, Tokyo, Japan)
5) Tuberous Sclerosis-transition issues
Harumi Yoshinaga², FUMIKI ENDOH² (1.Minami-Okayama Medical Hospital,Tsukubo,Japan, 2.Department of Child Neurology, Okayama Universtiy Hospital, Okayama, Japan)
Symposium 16

Chair: Russell C. Dale (Paediatric Neurology, the Children’s Hospital at Westmead, University of Sydney, Australia), Hiroshi Sakuma (Department of Brain Development and Neural Regeneration, Tokyo Metropolitan Institute of Medical Science, Tokyo, Japan)

Neuroinflammation in Pediatric Neuropsychiatric Disorders
1) Immune mechanisms in movement and neuropsychiatric disorders
   Russell C. Dale (Paediatric Neurology, the Children’s Hospital at Westmead, University of Sydney, Australia)
2) Febrile seizures and nervous system inflammation
   Mitsumasa Fukuda (1. Ehime Prefectural Niihama Hospital, Ehime, Japan, 2. Department of Pediatrics, Ehime University Graduate School of Medicine)
3) Epilepsy and Neuroinflammation
   Gaku Yamanaka (Department of Pediatrics, Tokyo Medical University, Tokyo, Japan)
4) Paraneoplastic neuropsychiatric syndrome in childhood
   Hiroya Nishida (Department of Neuropediatrics, Tokyo Metropolitan Neurological Hospital, Tokyo, Japan)

Symposium 17

Chair: Hirofumi Komaki (Department of Clinical Research Promotion, National Center Hospital, National Center of Neurology and Psychiatry, Tokyo, Japan), Yasuhiro Takeshima (Department of Pediatrics, Hyogo College of Medicine)

The latest knowledge and understanding of muscular diseases
1) Treatment of Duchenne muscular dystrophy: past, present, and future
   Hirofumi Komaki (Department of Clinical Research Promotion, National Center Hospital, National Center of Neurology and Psychiatry, Tokyo, Japan)
2) Recent progress in congenital muscular dystrophy
   Keiko Ishigaki (Department of Pediatrics, Tokyo Women’s Medical University, School of Medicine, Tokyo, Japan)
3) Recent progress on inflammatory myopathy
   Ichizo Nishino (Department of Neuromuscular Research, National Institute of Neuroscience, National Center of Neurology and Psychiatry)
4) Development of new therapeutic approaches for treating intractable muscular diseases by using iPS cell technology
   Hidetoshi Sakurai (Department of Clinical Application, Center for iPS Cell Research and Application, Kyoto University, Kyoto, Japan)

Symposium 18

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, Tokyo, Japan)

Advance care planning for children with life-threatening neurological condition
1) A long-term course of MELAS syndrome
   Hiroshi Terashima (Division of Neurology, National Center for Child Health and Development, Tokyo, Japan)
2) Considering and sharing plans along the trajectory of disease
   Shin Okazaki (Department of Pediatric Neurology, Osaka City General Hospital, Osaka, Japan)
3) Advance care planning for children with neurological conditions
   Nobuyuki Yotani (Division of Palliative Medicine, National Center for Child Health and Development, Tokyo, Japan)
4) Reconsidering shared—decision—making to act in the best interest of children
   Momoko Sasazuki (1. Division of Bio-medical Ethics, Department of Social Medicine, Faculty of Medicine, University of Miyazaki, Japan, 2. Training Course for Bioethics Coordinator, Interdisciplinary Graduate School of Medicine and Veterinary Medicine, University of Miyazaki, 3. Division of Clinical Ethics, Central Clinical Facilities, University of Miyazaki Hospital)
5) Aporia of ethical reasoning in severe pediatric neurological disorders
The 60th Annual Meeting of the Japanese Society of Child Neurology

Koichiro Itai (1. Faculty of Health and Welfare, Seinan Jogakuin University, Fukuoka, Japan, 2. Department of Pediatrics, Kyushu University Hospital, Fukuoka, Japan)

**Symposium 19**

Chair: Hiroyuki Hirose (Center for Developmental Disorders of Yokosuka), Mitsunori Shibata (Kawasaki-West Rehabilitation Center for Children with Disabilities)

Advance care planning for children with life-threatening neurological condition
1) The problems and future development of diagnosis at autism spectrum disorders for DSM—5.
   Hirokazu Kumazaki (Research Center for Child Mental Development, Kanazawa University, Kanazawa, Japan)
2) Future assessment from diagnosis to formulation
   Tsuyoshi Harada (The Park Side kokoro hattatu Clinic, Fukuoka, Japan)
3) The role of psychological specialists in developmental support and empowerment
   Kumiko Matsuzaki (Faculty of Psychology, Department of Clinical Psychology, Atomi University, Tokyo, Japan)
4) Novel support system for developmental disorders
   Yuki Inoue (Yokohama City South Area Habilitation Center for Children)

**Symposium 20**

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

Recent insights about genetic causes of neurodevelopmental and muscular disorders
1) Collaboration between neuroradiology and molecular genetics; SNORD118, POLR3A/3B, TUBB4A associated leukoencephalopathies
   Jun-ichi Takanashi (Department of Pediatrics, Tokyo Women’s Medical University Yachiyo Medical Center, Yachiyo, Japan)
2) Molecular mechanism of developmental and epileptic encephalopathy: update
   Mitsuhiro Kato (Department of Pediatrics, Showa University School of Medicine, Tokyo, Japan)
3) MYPN-related nemaline myopathy
   Satoko Miyatake (Clinical Genetics Department, Yokohama City University Hospital, Yokohama, Japan)
4) PI3K-AKT-mTOR pathway-associated megalencephaly
   Shinji Saitho (Department of Pediatrics and Neonatology, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan)

**Symposium 21**

Chair: Sui Sone (Tokyo Metropolitan Higashiyamato Medical Center for Developmental/Multiple Disabilities), Akiko Nagae (Biwako Gakuen Kusatsu Medical and Welfare Center for Children and Persons with Severe Motor and Intellectual Disabilities)

The essential knowledge on dysphagia rehabilitation for child neurologists
1) The rehabilitation and the intermittent oral catheter feeding (IOC) for dysphagic patients in infant stage
   Toshiro Kisa¹, YASUO SAKAI², TAKU TADENUMA², SOUKICHI MANIWA² (1. Izumoshimin-rehabilitation hospital, Izumo, Japan, 2. Department of Rehabilitation Medicine, Shimane University Hospital, Faculty of Medicine, Izumo, Japan)
2) Dysphagia habitation after weaning period and how to use the eating development period adjustment food classification
   Yoshiharu Mukai (School of Dentistry, Showa University, Tokyo, Japan)
3) Eating dysphagia rehabilitation in adulthood from adolescence in Disabilities
   Sou Atsumi (Department of Pediatrics, Tokyo Metropolitan Fuchu Medical Center for the Disabled, Fuchu, Tokyo, Japan)
4) Support for selective eating habits of children with autism
   Nozomi Hijikata (Hiroshima city center for children’s treatment and guidance)
Symposium 22
Chair: Toshihiko Yanagawa (School of Health and Nursing Science, Wakayama Medical University), Atsushi Ogawa (Fukuoka University Chikushi Hospital)
Update of head trauma and child abuse for pediatric neurologists
1) Imaging diagnosis for child abuse
Noriko Aida (Department of Radiology, Kanagawa Children's Medical Center)
2) Treatment strategies for head injuries suspected of involvement in physical abuse -from the viewpoint of neurosurgery-
Takashi Araki (Department of Critical Care and Emergency, Saitama Medical University)
3) Clinical knowledge of child abuse with head injuries for pediatric neurologist
George Imataka (Department of Pediatrics, Dokkyo Medical University, Tochigi, Japan)

Symposium 23
Chair: Norio Sakai (Child Healthcare and Genetic Science Laboratory, Division of Health Science, Osaka University Graduate School of Medicine, Osaka, Japan), Torayuki Okuyama (National Center for Child Health and Development)
Outlook of therapeutic strategy for neurometabolic disorders
1) Enzyme replacement therapy for CNS lesions of lysosomal storage diseases
Torayuki Okuyama (National Center for Child Health and Development)
2) Treatment strategy for Niemann-Pick disease type C
Muneaki Matsuo1, TAKAFUMI SAKASIBARA2, YOSHIO SAKIYAMA3, TETSUMI IRIE4
1.Department of Pediatrics, Faculty of Medicine, Saga University, Saga, Japan, 2.Department of Pediatrics, Nara Medical University, 3.Department of Neurology, Jichi Medical University Saitama Medical Center, 4.Department of Clinical Chemistry and Informatics, Kumamoto University
3) Strategy for treatment of leukodystrophy
Toya Ohashi (1.Division of Gene Therapy, Research Center for Medical Sciences, The Jikei University School of Medicine, Tokyo, Japan, 2.Division of Pediatrics, The Jikei University School of Medicine, Tokyo, Japan)
4) Outlook for medical care system including early diagnosis
Norio Sakai (Child Healthcare and Genetic Science Laboratory, Division of Health Science, Osaka University Graduate School of Medicine, Osaka, Japan)
5) Overview of CLN2 disease: early diagnosis and management
Christoph Schwering (Universitätsklinikum Hamburg-Eppendorf Children’s Hospital, Hamburg, Germany)

Sponsored Symposium
Chair: Takao Takahashi (Department of Pediatrics, University of Keio), Shinji Saitoh (Department of Pediatrics and Neonatology, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan)
Sponsored Symposium
1) Evolution and value of comprehensive treatment collaboration for tuberous sclerosis complex
Takashi Hatano (Department of Urology, JR Tokyo General Hospital, Tokyo, Japan)
2) The role of the tertiary epilepsy center in hospital cooperation for tuberous sclerosis
Katsumi Imai (National Epilepsy Center, NHO Shizuoka Institute of Epilepsy and Neurological Disorders)
3) For the collaboration of TSC clinics between university hospital and children’s hospital
Hiroaki Nagase (Department of Mental Health for Children and Parents, Kobe University Hospital, Kobe, Japan)
4) Treatment and comprehensive medical care of TSC patients in children’s clinic
Masao Adachi (Adachi Children’s Clinic, Hyogo, Japan)
Debate discussion

Chair: Shinichiro Hamano (Division of Neurology, Saitama Children's Medical Center, Saitama, Japan), Hideaki Shiraishi (Department of Pediatrics, Hokkaido University Hospital)

Treatment of West syndrome: What should we select before and after ACTH therapy?
1) Treatment for patients of West syndrome before ACTH therapy
   Ryuki Matsuura (1.Division of Neurology, Saitama Children's Medical Center, Saitama, Japan, 2.Department of Pediatrics, The Jikei University School of Medicine, Tokyo, Japan)
2) Treatment strategy of seizure recurrence in West syndrome, focused on repeated ACTH therapy and ketogenic diets
   Katsumi Imai (National Epilepsy Center, NHO Shizuoka Institute of Epilepsy and Neurological Disorders)
3) Positioning of vigabatrin for the treatment of West syndrome
   Tomoyuki Akiyama (Department of Child Neurology, Okayama University)

Guideline Seminar1

Chair: Kitami Hayashi (Tokyo Women's Medical University Yachiyo Medical Center), Tomoyuki Akiyama (Department of Child Neurology, Okayama University)

How to apply the Guideline 2017 for Pediatric Convulsive Status Epilepticus in clinical practice? - We need more evidence and debate -
1) Which is the initial drug of choice for convulsive status epilepticus; diazepam or midazolam?
   Masahiro Nishiyama¹, HIROAKI NAGASE¹, AZUSA MARUYAMA² (1.Department of Pediatrics, Kobe University Graduate School of Medicine, Kobe, Japan, 2.Department of Neurology, Hyogo Prefectural Kobe Children's Hospital, Kobe, Japan)
2) The second-line treatment for status epilepticus: The choice of phenobarbital
   Kenjiro Kikuchi (Department of Pediatrics, The Jikei University School of Medicine, Tokyo, Japan)
3) Fos-phenytoin for convulsivestatus epilepticus as second line treatment
   Ryuki Matsuura¹,², SHIN-ICHIRO HAMANO¹ (1.Division of Neurology, Saitama Children's Medical Center, Saitama, Japan, 2.Department of Pediatrics, The Jikei University School of Medicine, Tokyo, Japan)
4) Efficacy and tolerability of intravenous levetiracetam in status epilepticus
   Kenji Inoue, TOMOHIRO KUMADA, TATSUYA FUJII (Shiga Medical Center for Children, Shiga, Japan)
5) Continuous EEG monitoring intreatment of status epilepti
   Azusa Maruyama¹, HIROAKI NAGASE² (1.Department of Neurology, Hyogo Prefectural Kobe Children's Hospital, Kobe, Japan, 2.Department of Pediatrics, Kobe University Hospital, Kobe, Japan)
6) Guideline, product labeling information and requirement for the guideline
   Shinichiro Hamano (Division of Neurology, Saitama Children's Medical Center, Saitama, Japan)

Guideline Seminar2

Chair: Yushiro Yamashita (Department of Pediatrics & Child Health, Kurume University School of Medicine), Ryoichi Sakuta (Child Development and Psychosomatic Medicine Center, Dokkyo Medical University Saitama Medical Center, Saitama, Japan)

Preparation of guideline for the management of tic disorders
1) Overview of Tic disorders
   Tasuku Miyajima (1.Department of Education for Childcare, Faculty of Child Studies, Kasei University, Saitama, Japan, 2.Department of Pediatrics, Tokyo Medical University, Tokyo, Japan)
2) Tic disorder and Tourette syndrome in young children
   Kyoko Hoshino (Segawa Memorial Neurological Clinic for Children, Tokyo, Japan)
3) Assessment and treatment of tic disorders with comorbidities
   Yukiko Kano (Department of Child Neuropsychiatry, Graduate School of Medicine, the
The 60th Annual Meeting of the Japanese Society of Child Neurology

University of Tokyo, Tokyo, Japan)

4) Important topics for making guideline for tic disorders
Ryuta Ishii (The Development of Pediatrics and Child Health Kurume University School of Medicine)

Committee's Seminar 1
Chair: Kyoko Ito (Department of Pathology and Applied Neurobiology Graduate School of Medical Science Kyoto Prefectural University of Medicine)
Lessons from case studies of research misconduct on clinical trials
Towards understanding the research integrity in clinical trials
Shinji Fushiki (1.Center for Quality Assurance in Research and Development, Kyoto Prefectural University of Medicine, Kyoto, Japan, 2.Kyoto Chubu Medical Center, Kyoto, Japan)

Committee's Seminar 2
Chair: Jun Kohyama (Tokyo Bay Urayasu/Ichikawa Medical Center), Akemi Tomoda (Research Center for Child Mental Development, University of Fukui)
child neurologists in 2035
1) The Japanese Society of Child Neurology (JSCN) and our society
Kaeko Ogura¹, TAKEO KUBOTA², YOSHIKI KAGA³, YUKA SUZUKI⁴, TASUKU MIYAJIMA⁵
(1.Morinomiya Hospital, 2.Faculty of Child Studies, Seitoku University, Chiba, Japan,
3.Department of Developmental Disorders, National Institute of Mental Health, National Center of Neurology and Psychiatry, Tokyo, Japan, 4.Department of Pediatrics, Matsuyama Red Cross Hospital, Matsuyama, Japan, 5.Department of Education for Childcare, Faculty of Child Studies, Tokyo Kasei University, Tokyo, Japan)
2) Transitional care in children with severe motor and intellectual disabilities
Sahoko Miyama¹, AKIE MIYAMOTO², MASAO KUMODE, NOBUAKI IWASAKI
(1.Department of Neurology, Tokyo Metropolitan Children's Medical Center, Tokyo, Japan,
2.Department of Pediatrics, Biwakogakuen Kusatsu Medical and Welfare Center, Shiga, Japan, 4.Department of Pediatrics, Ibaraki Prefectural University of Health Science, Ibaraki, Japan)
3) Society and research ((international) joint research, interdisciplinary research etc)
Hiroko Tada¹, NAOMI FUKUYO⁴, MITSUHIRO KATO, AKEMI TOMODA
(1.Chibaken Saiseikai Hospital, division of Pediatrics, Narashino, Japan, 2.Department of Pediatrics, Showa University School of Medicine, Tokyo, Japan, 3.Research Center for Child Mental Development, University of Fukui, Fukuoka, Fukuoka, Japan, 4.Department of Pediatrics, University of Tohoku, Sendai, Japan)
4) Conducting Academic Conferences
Reimi Tsurusawa¹, TOKIKO FUKUDA², Akio Nakai, Yasuhiko Kawakami
(1.Department of Pediatrics Chikushi Hospital Fukuoka University, Fukuoka, Japan, 2.Hamamatsu University School of Medicine, 3.Hyogo Children’s Sleep and Development Medical Research Center, 4.Department of Pediatrics Nippon Medical School Musashi Kosugi Hospital)

Committee's Seminar 3
Chair: Hideo Yamanouchi (Department of Pediatrics, Saitama Medical University, Saitama, Japan), Seigo Korematsu (Nakatsu Municipal Hospital)
Further explore medical safety in child neurology
1) Multidisciplinary team reduced the cases necessitating sedation by the preparation undergoing pediatric MR imaging
Shoko Shimokawa¹, FUMITAKA YOSHIOKA¹, TATSUYA ABE, KUMIKO JINNOUCHI, TAKASHI KUMAMOTO, HISAYUKI MAEDA, YOSHIASI OGATA, MAI KOIKE, YURI YAMADA, NAGISA OGAWA, YOSHIKO IWAHASHI, YOSHIHIRO AKIYAMA
(1.Department of Neurosurgery, Faculty of Medicine, Saga University, Saga, Japan, 2.Department of Pediatric,
Faculty of Medicine, Saga University, Saga, Japan, 3. Department of Institute of Nursing, Faculty of Medicine, Saga University, Saga, Japan, 4. Department of Radiology, Faculty of Medicine, Saga University, Saga, Japan

2) What is the best appropriate management methods for pediatric head injury? risk of radiation exposure and abusive Head Trauma.

Shunsuke Hayano (Pediatric Emergency Center of Kitakyusyu Municipal Yahata Hospital)

3) Standardized ACTH therapy safety management

Hideo Yamanouchi (Department of Pediatrics, Saitama Medical University, Saitama, Japan)

4) How to provide safety sedation - NPO before sedation and the risk of multiple drugs

Hiroshi Otake (Showa University School of Medicine, Tokyo, Japan)

Committee's Seminar 4

Chair: Masafumi Morimoto (Kyoto Prefectural University of Medicine School of Nursing), Kazuhiro Haginoya (Department of Pediatric Neurology, Miyagi Children's Hospital)

Seminars held by the Joint Research Support Committee, Part 1: The reports of the collaborative studies supported by the Japanese Society of Child Neurology

1) Metabolome analysis in acuteencephalitis/encephalopathy in children

Tomoyuki Akiyama (Department of Child Neurology, Okayama University)

2) A nationwide survey of pediatric anti-MOG antibody-associated diseases in Japan

Kohji Azumagawa, ICHIRO NAKASHIMA, KIMIHIKO KANISHO, HIROYUKI TORISU, YASUNARI SAKAI, RYUTARO KIRA, HIROYUKI TAMAI (1. The Department of Pediatrics, Seikai General Hospital, Osaka, Japan, 2. Department of Neurology, Tohoku Medical and Pharmaceutical University, Sendai, Japan, 3. Department of Neurology, Tohoku University School of Medicine, Sendai, Japan, 4. Department of Pediatrics, Fukuoka Dental College, Fukuoka, Japan, 5. Department of Pediatrics, Kyushu University, Fukuoka, Japan, 6. Department of Pediatric Neurology, Fukuoka Children's Hospital, Fukuoka, Japan, 7. Department of Pediatric Neurology, Fukuoka Children's Hospital, Fukuoka, Japan, 8. Brain Research Institute, Niigata University, Niigata, Japan, 9. Department of Internal Medicine, Osaka Medical College, Osaka, Japan, 10. Department of Pediatrics, Osaka Medical College, Osaka, Japan)

3) A novel drug development by ghrelin in patients with Rett syndrome

Toyohiro Matsuishi, KOTARO YUGE, TOMOYUKI TAKAHASHI, SHINICHIRO NAGAMITSU, YUSHIRO YAMASHITA (1. Research Center for Children, Research Center for Rett Syndrome, St. Mary's Hospital, 2. Department of Pediatrics, Kurume University School of Medicine, Kurume Japan)

Committee's Seminar 5

Chair: Masafumi Morimoto (Kyoto Prefectural University of Medicine School of Nursing), Satoru Takahashi (Department of Pediatrics, Asahikawa Medical University)

Seminars held by the Joint Research Support Committee, Part 2: Meet the experts, Advances in clinical trials and studies using a patient registration system

1) Promotion of clinical research for muscular disease utilizing patient registry

Hirofumi Komaki (Department of Clinical Research Promotion, National Center Hospital, National Center of Neurology and Psychiatry, Tokyo, Japan)

2) Rett syndrome data base for clinical trials and survey

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

Committee's Seminar 6

Chair: Akio Nakai (The Center for the Study of Child Development, Graduate School of Clinical Education, Research Institute for Education, Mukogawa Women's University), Mitsuhiro Kato (Department of Pediatrics, Showa University School of Medicine, Tokyo, Japan)

Oh, yes! Let's go abroad - Encouragement of studying abroad

1) Result of overseas study abroad questionnaire survey
The 60th Annual Meeting of the Japanese Society of Child Neurology

Naoko Ishihara (Department of Pediatrics, Fujita Health University School of Medicine)

2) Go for it, and things will work out
   Atsushi Ishii (Department of Pediatrics, School of Medicine, Fukuoka University, Japan)

3) What I learned from studying abroad in the United States
   Toshiki Takenouchi (Department of Pediatrics, Keio University School of Medicine, Tokyo, Japan)

4) How to be successful in postdoctoral research abroad: From the perspective of a principal investigator
   Ganeshwaran Hitoshi Mochida (Children's Hospital Boston)

Committee's Seminar 7
Chair: Tasuku Miyajima (Department of Education for Childcare, Faculty of Child Studies, Tokyo Kasei University, Saitama, Japan), Michio Fukumizu (Segawa Memorial Neurological Clinic for Children)
How to use and significance of approval drugs for neurodevelopmental disorders of children
1) The history and horizons of medication and total support for the children with ADHD in Japan
   Taishi Miyachi (Nagoya west district care center for disabled children, Nagoya, Japan)
2) Solution of the off—label use and future's view of psychotropics for children with irritability associated with autism
   Yuko Ishizaki (Department of Pediatrics, Kansai Medical University)
3) Problems of drugs before, during and just after clinical trials
   Masaharu Hayashi (The School of Nursing, College of Nursing and Nutrition, Shukutoku University, Chiba, Tokyo)
4) On Japanese guideline of assessment and treatment for children and adolescents with ADHD
   Kazuhiko Saito (Aiiku Research Institute, Imperial Gift Foundation, Tokyo, Japan)

Committee's Seminar 8
Chair: Atsuo Nezu (Yokohama Medical and Welfare Centre, Konan)
For advance in the uptake of the Japan Obstetric Compensation System
1) The current situation of The Japan Obstetric Compensation System
   Hideaki Suzuki (Japan Council for Quality Health Care, Tokyo, Japan)
2) Can the Japan Obstetric Compensation System be applied to severe cerebral palsy due to periventricular leukomalacia?
   Kiyoshi Matsui, Koji Tanoue (The Division of General medicine, Kanagawa Children's Medical Center, Yokohama, Japan)

Practical Education Seminar 1
Chair: Masaya Kubota (National Center for Child Health and Development, Tokyo, Japan)
New insights from the established symptomatology in child neurology
1) Neurological examination in the newborn
   Hiroyuki Kidokoro (Department of Pediatrics, Nagoya University Graduate School of Medicine, Nagoya, Japan)
2) The motor system examination in pediatric neurology
   Shin Nabatame (1. Department of Pediatrics, Graduate School of Medicine, Osaka University, Suita, Japan, 2. Epilepsy Center, Osaka University Hospital, Suita, Japan)
3) Extremely private neurological symptomatology from a single case
   Masaya Kubota (National Center for Child Health and Development, Tokyo, Japan)

Practical Education Seminar 2
Chair: Jun-ichi Takanashi (Department of Pediatrics, Tokyo Women's Medical University Yachiyo Medical Center, Yachiyo, Japan), Hiroshi Oba (Department of Radiology, Teikyo University Hospital, Tokyo, Japan)
Neuroimaging for pediatrician 2018: MRI revisited
1) T1, T2-weighted image, FLAIR revisited
Jun-ichi Takanashi (Department of Pediatrics, Tokyo Women’s Medical University Yachiyo Medical Center, Yachiyo, Japan)
2) Diffusion-weighted imaging (DWI) revisited
Harushi Mori (Department of Radiology, Graduate School and Faculty of Medicine, the University of Tokyo, Tokyo, Japan)
3) Magnetic resonance angiography
Hiroshi Oba (Department of Radiology, Teikyo University Hospital, Tokyo, Japan)
4) Mass and pit: Imaging of spinal dysraphism
Kumiko Ando1, REIICHI ISHIKURA2 (1.Department of Radiology, Hyogo College of Medicine, Nishinomiya, Japan, 2.Department of Radiology, Hyogo College of Medicine, Nishinomiya, Japan)
5) Normal development of neonatal and infant brain and skull
Kazutoshi Fujita (Department of Radiology, Kanagawa Children’s Medical Center, Kanagawa, Japan)

Practical Education Seminar3
Chair: Masao Aihara (Graduate Faculty of Interdisciplinary Research, Graduate School, University of Yamanashi),
Tatsuo Fuchigami (Department of Pediatrics and Child Health, Nihon University School of Medicine)
Clinical Neurophysiology in Child Neurology
1) Diagnosis and treatment guidelines for encephalitis and encephalopathy
Hideaki Shirashi (Department of Pediatrics, Hokkaido University Hospital)
2) The neuropsychological roles of EEG in children with epilepsy
Hideaki Kanemura1, MASAO AIHARA2 (1.Department of Pediatrics, Faculty of Medicine, University of Yamanashi, Yamanashi, Japan, 2.Graduate Faculty of Interdisciplinary Research, Graduate School, University of Yamanashi, Yamanashi, Japan)
3) Non-invasive electrophysiologic evaluation of brain function in children with developmental disorders
Yoshimi Kaga (Department of Developmental Disorders, National Institute of Mental Health, NCNP, Tokyo, Japan)
4) Electrophysiologic diagnosis and treatment evaluation of peripheral neuropathy
Sawa Yasumoto (Medical Education Center, Fukuoka University, Fukuoka, Japan)

Practical Education Seminar4
Chair: Akira Yoneyama (The Department of Pediatrics, National Rehabilitation Center for Children with Disabilities, Tokyo, Japan)
How To Manage Medical Care of Children with Disabilities at Home and School.
1) Medical support for children in home care in Japan
Akira Yoneyama (The Department of Pediatrics, National Rehabilitation Center for Children with Disabilities, Tokyo, Japan)
2) Knowledge and issues required for home care of children
Makoto Funatsuuka (1.Makoto Shounishinkei Clinic, Tokyo, Japan, 2.Department of Pediatrics, Tokyo Women’s Medical University, Tokyo, Japan)
3) Evaluating and coping with dysphagia
Katsutoshi Nakatani (Department of Pediatrics, National Rehabilitation Center for Children with Disabilities, Tokyo, Japan)

Practical Education Seminar5
Chair: Katsutoshi Nakatani (Department of Pediatrics, National Rehabilitation Center for Children with Disabilities, Tokyo, Japan),
Akira Yoneyama (The Department of Pediatrics, National Rehabilitation Center for Children with Disabilities, Tokyo, Japan)
How To Manage Medical Care of Children with Disabilities at Home and School.
1) Respiratory care (tracheostomy, home mechanical ventilation)
The 60th Annual Meeting of the Japanese Society of Child Neurology

Naoto Yamaguchi (The Department of Pediatrics, The Department of Rehabilitation, National Rehabilitation Center for Children with Disabilities)
2) Enteral tube nutrition for severe motor and intellectual disabilities
   Nagahisa Takahashi (National Rehabilitation Center for Children with Disabilities)

Practical Education Seminar 6
Chair: Katsuo Sugita (Division of Child Health & Paediatrics, Faculty of Education Chiba University)
Diagnostic reasoning for paediatric neurologists
1) Developmental symptomatology in child neurology
   Masumi Inagaki (Department of Developmental Disorders, National Institute of Mental Health, National Center of Neurology and Psychiatry (NCNP))
2) Clinical symptomatology and neurophysiology as a diagnostic tool in pediatric neurology
   Satoko Kumada (Department of Neuropediatrics, Tokyo Metropolitan Neurological Hospital, Tokyo, Japan)
3) Educational strategy for neurologists training
   Shoichi Ito (1. Office of Medical Education, Chiba University Graduate School of Medicine, Chiba, Japan, 2. Health Professional Development Center, Chiba University Hospital, Chiba, Japan, 3. Department of Neurology, Chiba University Hospital, Chiba, Japan)

Practical Education Seminar 7
Chair: Kiyoshi Araki (Tokyo Saiseikai Central Hospital), Gaku Yamanaka (Department of Pediatrics, Tokyo Medical University, Tokyo, Japan)
Pediatric Headache Master School
1) Diagnosis of pediatric headache based on the international classification of headache disorders, 3rd edition (beta version)
   Naoki Ando (Josai Kids Clinic, Nagoya, Japan)
2) Treatment of headache in children and adolescence based on the guideline for medical examination and treatment in chronic headache
   Kentaro Kuwabara (Department of Pediatrics, Hiroshima City Hiroshima Citizens Hospital)
3) Episodic syndromes that may be associated with migraine
   Toshiyuki Hikita (1. Department of Pediatrics, Teikyo University School of Medicine, Tokyo, Japan, 2. Hikita Pediatric Clinic, Kiryu, Gunma, Japan)
4) Characteristics and interventions against headaches in adolescence
   Akira Nishimura (1. Department of Neonatology, Japanese Red Cross Kyoto Daiichi Hospital, Comprehensive Perinatal Center for Perinatal Care, Kyoto, Japan, 2. Department of Pediatrics, Kyoto Prefectural University of Medicine, Kyoto, Japan)

Practical Education Seminar 8
Chair: Tetsuo Kubota (Department of Pediatrics, Anjo Kosei Hospital), Hiroyuki Kidokoro (Department of Pediatrics, Nagoya University Graduate School of Medicine, Nagoya, Japan)
Tutorial of neonatal EEG evaluation
1) Evaluation of conventional EEG in neonate
   Toru Kato (The Department of Pediatrics, Okazaki City Hospital, Aichi, Japan)
2) Abnormal EEG findings in neonates
   Tatsuya Fukasawa (Department of Pediatrics, Anjo Kosei Hospital, Aichi, Japan)

Practical Education Seminar 9
Chair: Katsunori Fujii (Department of Pediatrics, Chiba University Graduate School of Medicine, Chiba, Japan), Hitoshi Osaka (Dept. of Pediatrics, Jichi Medical School, Shimotsuke, Japan)
Primary child neurology: physical findings, brain imaging, epilepsy, and genetic testing
1) Neurological examinations in infants
The 60th Annual Meeting of the Japanese Society of Child Neurology

Hitoshi Osaka (Dept. of Pediatrics, Jichi Medical School, Shimotsuke, Japan)

2) How to make sure of the nature of EEG
   Hideo Enoki (Department of Child Neurology, Comprehensive Epilepsy Center, Seirei Hamamatsu General Hospital)

3) Tips for interpretation of brain CT and MRI
   Tadashi Shiohama (Department of Pediatrics, Chiba University Hospital, Chiba, Japan)

4) Procedure of genetic testing in child neurological disorders
   Toshiyuki Yamamoto (Institute of Medical Genetics, Tokyo Womens Medical University, Tokyo, Japan)

Practical Education Seminar 10

Chair: Akira Oka (Professor, Department of Pediatrics, Graduate School of Medicine, The University of Tokyo),
   Hiroyuki Hirose (Director, Center for Developmental Disorders in Yokosuka)

1) Interrelation to childhood autism spectrum disorder: its trend between past and future
   Mikio Hiraawa (Rabbit developmental research, Saitama, Japan)

2) Applied Behavior Analysis (ABA) as treatment for autism spectrum disorders and other developmental disabilities
   Kozue Matsuda (1. Tokyo, Japan/Chicago, The United States, 2. The Chicago School of Professional Psychology, Chicago, The United States)

3) Practice in parent training -Building a warm relationship between children and adults-
   Mika Nagase (National Rehabilitation Center for Children with Disabilities, Tokyo, Japan)

Practical Education Seminar 11

Chair: Ryutaro Kira (Department of Pediatric Neurology, Fukuoka Children’s Hospital),
   Nobuyuki Yotani (Division of Palliative Medicine, National Center for Child Health and Development, Tokyo, Japan)

Tips for pediatric neurologists about palliative care

1) The principle and practice of pediatric palliative care
   Momoko Sasazuki (1. Faculty of Health and Welfare, Seinan Jogakuin University, Fukuoka, Japan, 2. Department of Pediatrics, Kyushu University Hospital, Fukuoka, Japan)

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

3) The concept and practice of end of life discussion
   Nobuyuki Yotani (Division of Palliative Medicine, National Center for Child Health and Development, Tokyo, Japan)

4) Family support and bereavement care in Pediatric Palliative Care
   Mari Matsuoka (Kochi University Medical School Nursing Course, Kochi, Japan)

Practical Education Seminar 12

Chair: Shinji Saitoh (Department of Pediatrics and Neonatology, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan),
   Takanori Yamagata (Department of Pediatrics, Jichi Medical University)

5th genetics practical education seminar

Luncheon Seminar 1

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

Recent Development of Treatment for ADHD
   Yoichi Sakakihara (Ochanomizu University, Tokyo, Japan)

Luncheon Seminar 2
The 60th Annual Meeting of the Japanese Society of Child Neurology

Chair: Masaki Takayanagi (Professor, Department of Nursing, Faculty of Health Care and Medical Sport, Teikyo Heisei University)
Carnitine deficiency lurking behind clinical practice
Akira Otake (Department of Pediatrics, Faculty of Medicine, Saitama Medical University; Center for Intractable Diseases, Saitama Medical University Hospital)

Luncheon Seminar 3
Chair: Kousaku Ohno (Director, Sanin Rosai Hospital, Japan Organization of Occupational Health and Safety)
New therapeutic strategies for skin lesions associated with tuberous sclerosis
Hideaki Shiraishi (Department of Pediatrics, Hokkaido University Hospital)

Luncheon Seminar 4
Chair: Kazuhiro Haginoya (Department of Pediatric Neurology, Miyagi Children’s Hospital)
Role of Gut Microbiota in Brain-Gut Interactions
Shin Fukudo (1. Department of Behavioral Medicine, Tohoku University Graduate School of Medicine, Sendai, Japan, 2. Department of Psychosomatic Medicine, Tohoku University Hospital, Sendai, Japan)

Luncheon Seminar 5
Chair: Makiko Osawa (Tokyo Women's Medical University, Emeritus Professor)
Recent advances of the diagnosis and their treatment in neuronal ceroid lipofuscinosis (NCL)
Yoshikatsu Eto (Advanced Clinical Research Center & Institute of the Treatment of Genetic Diseases, Kanagawa, Japan)

Luncheon Seminar 6
Chair: Katsumi Imai (National Epilepsy Center, National Hospital Organization Shizuoka Institute of Epilepsy and Neurological Disorders)
Transition of epilepsy care from childhood to adulthood: a viewpoint of child neurologists
Harumi Yoshinaga (National Hospital Organization Minami-Okayama Medical Center, Okayama, Japan)

Luncheon Seminar 7
Chair: Hideo Shigematsu (National Epilepsy Center Shizuoka Institute of Epilepsy and Neurological Disorders)
Gaucher disease among child neurology disorders
1) Treatment of acute neuronopathic Gaucher disease
   Manabu Tanaka (Division of Pediatric Hospital Medicine, Saitama Children's Medical Center, Saitama, Japan)
2) Key signs and symptoms for early clinical diagnosis of Gaucher disease
   Toshiyuki Seto (The Department of Pediatrics, Graduate School of Medicine, Osaka City University, Osaka, Japan)

Luncheon Seminar 8
Chair: Kayoko Saito (Institute of Medical Genetics, Tokyo Women's Medical University)
Theme: Spinal Muscular Atrophy (SMA) – how the new treatment has changed
1) SMA treatment experiences “current challenge and future perspective”
   Kotaro Yuge (Department of pediatrics and child health, Kurume university school of medicine)
2) Clinical practice in the treatment for spinal muscular atrophy using Nusinersen in Kobe University Hospital
   Hiroyuki Awano (Department of Pediatrics, Kobe University Hospital, Japan)
Luncheon Seminar 9
Chair: Takanori Yamagata (Jichi Medical University Dept. of Pediatrics)
Development of Monoaminergic Neuron and Treatment of ADHD
Kyoko Hoshino (Segawa Memorial Neurological Clinic for Children, Tokyo, Japan)

Luncheon Seminar 10
Chair: Ishizaki Asayo (Oji Clinic Division of Medicine, Association of Remedial Teaching for Mentally Developmental Disorder's INC)
A comprehensive understanding of neurodevelopmental disorders including ASD, from the viewpoint of endophenotypes
Akemi Tomoda (Research Center for Child Mental Development, University of Fukui, Fukui, Japan)

Luncheon Seminar 11
Chair: Akiko Tamasaki (Children Home Care Support Center, Tottori University Hospital)
Theme: Treatment of Spasticity in Children with Cerebral Palsy - trans-disciplinary and trans-institutional team approach in Okinawa
1) Management of spasticity in children with cerebral palsy
   Takeshi Kinjo¹, ATSUO AGUNI¹, TAKASHI ASATO² (1. Department of Orthopedic Surgery, Okinawa Prefectural Nanbu Medical Center and Childrens Medical Center, 2. Department of Rehabilitation medicine, Okinawa Prefectural Nanbu Medical Center and Childrens Medical Center)
2) Treatment of children with spasticity at our hospital focused on intrathecal baclofen therapy (ITB)
   Takashi Asato (Okinawa prefectural Nanbu Medical Center & Children's Medical Center, Haebaru, Japan)

Luncheon Seminar 12
Chair: Torayuki Okuyama (Department of Clinical Laboratory Medicine, National Center for Child Health and Development Center for Lysosomal Storage Diseases)
Theme: When, How to suspect!? Treatable muscle disorder
1) Muscle pathology of glycogenoses manifesting muscle symptoms
   Ikuya Nonaka (Department of Child Neurology, National Center of Neurology and Psychiatry, Tokyo, Japan)
2) Early diagnosis and prompt initiation of enzyme replacement therapy in a 1–year–old girl with Pompe disease
   Minobu Shichiji¹, KEIKO ISHIGAKI¹, TAKATOSHI SATO¹, KUMIKO ISHIGURO¹, NAOTO SHIMURA², SATORU NAGATA¹ (1. The Department of Pediatrics, Tokyo Women's Medical University, Tokyo, Japan, 2. Department of Pediatrics, Tokyo Rinkai Hospital, Tokyo, Japan)

Luncheon Seminar 13
Chair: Ichiro Morioka (Department of Pediatrics and Child Health, Nihon University School of Medicine)
Screening, in vitro diagnostics, and vaccine development for congenital cytomegalovirus infection.
Naoki Inoue (Microbiology and Immunology, Gifu Pharmaceutical University, Gifu, Japan)
**Luncheon Seminar 14**

Chair: Takao Takahashi (Department of Pediatrics, Keio University School of Medicine, Tokyo, Japan.)

Pharmacological action of Glutamate receptor antagonists -Translatability from the basic to the clinical fields-
1) Paroxysmal depolarization shift (PDS) and antiepileptic drug: from the clinical point of view
   Akio Ikeda (Department of Epilepsy, Movement Disorders and Physiology Kyoto University Graduate School of Medicine, Kyoto, Japan)
2) Unsung function of AMPA/glutamate receptor in neurology, psychiatry and neuroscience
   Motohiro Okada (Department of Neuropsychiatry, Mie University Graduate School of Medicine, Tsu, Japan.)

**Luncheon Seminar 15**

Chair: Eiji Nakagawa (Epilepsy Center Director, National Center Hospital, National Center of Neurology and Psychiatry (NCNP))

Up to date treatment of infantile spasms
1) Vigabatrin in the treatment of infantile spasms; a single-center experience
   Satoru Ikemoto, SHIN-ICHIRO HAMANO (Division of Neurology, Saitama Children’s Medical Center, Saitama, Japan)
2) Clinical elecroretinogram recording in vigabatrin-exposed patients
   Tomoka Kanbe (Division of Ophthalmology, Saitama Children's Medical Center, Saitama, Japan)

**Luncheon Seminar 16**

Chair: Makiko Osawa (Tokyo Women's Medical University An Emeritia Professor)

Pharmacotherapy of ADHD looking into the future
Akiko Araki (Ujiie Memorial Clinic for Children, Sapporo, Japan)

**Luncheon Seminar 17**

Chair: Hirokazu Oguni (Adviser, Stroke and Epilepsy Center, TMG Asaka Medical Center)

Latest Insight of Therapeutic Drug Monitoring for Perampanel
Toshiyuki Iwasaki (Department of Pediatrics, Kitasato University School of Medicine, Kanagawa, Japan)

**Luncheon Seminar 18**

Chair: Akihisa Okumura (Department of Pediatrics, Aichi Medical University)

Treatment of intractable childhood epilepsy: the experiences of local, secondary, epilepsy medical facilities
Chizuru Ikeda (Kumamoto Saishunso National Hospital, Kumamoto, Japan)

**Luncheon Seminar 19**

Chair: Torayuki Okuyama (Center for Lysosomal Strage Diseases, National Center for Child Health and Development)

Challenge of Undiagnosed Niemann-Pick type C ----- Be aware of Abnormal Eye Movements, Ataxia, Dystonia, and Psychiatric Symptoms
1) Overview of Niemann–Pick disease type C (NPC): clinical features and management
   Aya Narita (Division of Child Neurology, Tottori University, Tottori, Japan)
2) A treatable neuro–metabolic disorder: Niemann–Pick disease type C
   Toshiki Takenouchi (Department of Pediatrics, Keio University School of Medicine, Tokyo, Japan)
Luncheon Seminar 20
Chair: Atsuo Nezu (Yokohama Medical and Welfare Centre, Konan)
For advance in the uptake of the Japan Obstetric Compensation System

Luncheon Seminar 21
Chair: Taiichi Katayama (United Graduate School of Child Development, Osaka University)
Sensory properties and behaviors in children with ASD
Toshisaburo Nagai (St. Andrew's University of Education)

Evening Seminar
Chair: Kayoko Saito (Institute of Medical Genetics, Tokyo Women's Medical University)
AVXS-101 single-dose gene-replacement therapy for spinal muscular atrophy
Douglas M. Sproule1, Jerry R. Mendell2-3-4, Samiah Al-Zaidy2-3, Richard Shell4, W. Dave Arnold4, Louise Rodino-Klapac2-4, Thomas W. Prior5, Linda Lowes2-3, Lindsay Alfano2-3, Katherine Berry2-3, Kathleen Church2-3, John T. Kisse1, Sukumar Nagendran1, James L'Italian1, Courtney Wells1, Arthur H.M. Burghes4-6, Kevin D. Foust1, Kathrin Meyer2, Shibi Likhite2, Brian K. Kaspar2-3-4-1
AveXis, Inc., Bannockburn, IL, USA1, Center for Gene Therapy Nationwide Children's Hospital, Columbus, OH, USA2, Department of Pediatrics, Ohio State University, Columbus, OH, USA3, Department of Neurology, Ohio State University, Columbus, OH, USA4, Department of Pathology, Ohio State University, Columbus, OH, USA5, Department of Molecular and Cellular Biochemistry, Ohio State University, Columbus, OH, USA6

Patient and Family Association Forum

English Session 1
Chair: Yo Niida (Center for Clinical Genomics, Kanazawa Medical University Hospital), Nobuyuki Shimozawa (Division of Genomics Research Life Science Research Center, Gifu University)

E-001 Drug screening for mitochondrial disease using fibroblasts from patients with mitochondrial disease
Akihiko Miyauchi1, Takeshi Kouga1, Eriko Jimbo1, Tetsuro Matsushashi2, Takaaki Abe2, Takanori Yamagata1, Hitoshi Osaka1
(Department of Pediatrics, Jichi Medical University, Tochigi, Japan1, Department of Clinical Biology and Hormonal Regulation, Tohoku University Graduate School of Medicine, Sendai, Japan2)

E-002 Plasma biomarkers for the diagnosis of Niemann Pick C
Yoshikatsu Eto1, Chen Wu1-3, Hiroko Yanagisawa1, Keiko Akiyama1, Takashi Miyajima1-3, Junko Igarashi3, Hossain Mohammad1, Takeo Iwamoto2
(Advanced Clinical Research Center, Southern Tohoku Brain Research Institute, Kanagawa, Japan1, Core Central Laboratory, Tokyo Jikei University School of Medicine, Tokyo, Japan2, AnGes Rare Disease Research Center, Tokyo, Japan3)

E-003 Acceleration of coagulation process during the enzyme infusion in a patient with Morquio A syndrome
Tatsuro Izumi (Department of Pediatrics and Child Neurology, Nanao National Hospital, Ishikawa, Japan)

E-004 A skeletal muscle model of infantile—onset Pompe disease using patient—specific iPS cells
Takeshi Yoshida1-2, Tomonari Awaya3, Tatsuya Jonouchi2, Ryo Kimura3, Shigemi Kimura4, Kanako Maizuru1, Masatoshi Nakata1-3, Atsushi Yokoyama1, Takumi Era5, Hidetoshi Sakurai2, Toshio Heike1,6
(Department of pediatrics, Kyoto University Hospital, Kyoto, Japan1, Center for iPS Cell Research and Application (CiRA), Kyoto University, Kyoto, Japan2, Department of Anatomy and Developmental Biology, Graduate School of Medicine, Kyoto University, Kyoto, Japan3,
Kumamoto City Child Development Support Center, Kumamoto, Japan, Department of Cell Modulation, Institute of Molecular Embryology and Genetics (IMEG), Kumamoto University, Kumamoto, Japan, Department of Pediatrics, Hyogo Prefectural Amagasaki General Medical Center, Hyogo, Japan

E-005 Assessment of exon skipping for Duchenne muscular dystrophy by systematic review and meta-analysis

Yuko Motohashi1, Terumi Murakami2, En Kimura3, Hirofumi Komaki1, Norio Watanabe4

(Department of Child Neurology, National Center Hospital, National Center of Neurology and Psychiatry, Tokyo, Japan1, Department of Neurology, Higashisaitama National Hospital, Saitama, Japan2, Extra Early Exploratory Clinical Trial Unit, Translational Medical Center, National Institute of Neuroscience, National Center of Neurology and Psychiatry, Tokyo, Japan3, Department of Health Promotion and Human Behavior, Graduate School of Medicine/School of Public Health, Kyoto University, Kyoto, Japan4)

E-006 CNS therapy for Fukuyama muscular dystrophy

Mariko Taniguchi-ikeda1, Ichiro Morioka1, Kazumoto Iijima1, Tatsushi Toda2

(Department of Pediatrics, Kobe University Graduate School of Medicine, Hyogo, Japan1, Department of Neuroradiology, The University of Tokyo, Tokyo, Japan2)

English Session 2

Chair: Yukitoshi Takahashi, MD, PhD, (Pediatrician Vice-director National Epilepsy Center, Shizuoka Institute of Epilepsy and Neurological Disorders, NHO, NAGASAWA TETSURO (Raffles Japanese Clinic, Pediatrics)

E-007 Chromosomally integrated human herpesvirus 6 (HHV-6) may cause misdiagnosis as HHV-6 encephalopathy

Erika Hiwatari1, Shin-ichiro Hamano1,2, Atsuro Daida2, Jun Kubota2, Satoru Ikemoto1, Ryuki Matsuura2, Reiko Koichihara1, Motoyuki Minamitani2

(Department for Child Health and Human Development, Saitama Children’s Medical Center, Saitama, Japan1, Division of Neuroradiology, Saitama Children’s Medical Center, Saitama, Japan2)

E-008 A pediatric case of autoimmune encephalitis of the basal ganglia subsequent to mycoplasma infection

Hiroya Nishida1, Takahiro Takanaga3, Riku Hamada3, Asami Ito4, Yuki Matsuyama5,6, Eiji Kurihara1, Hideaki Mashimo1, Yohane Miyata1, Ikuko Shirai1, Kuniko Kohyama1, Hiroshi Sakuma1, Yasuhiro Nakata2, Satoko Kumada1

(Department of Neuroradiology, Tokyo Metropolitan Neurological Hospital, Tokyo, Japan1, Department of Neuroradiology, Tokyo Metropolitan Neurological Hospital, Tokyo, Japan2, Department of Nephrology, Tokyo Metropolitan Children’s Medical Center, Tokyo, Japan3, Department of Neurology, Tokyo Metropolitan Children’s Medical Center, Tokyo, Japan4, Department of Pediatrics, Koshigaya Municipal Hospital, Saitama, Japan5, Department of Pediatrics and Adolescence, Juntendo University, Tokyo, Japan6, Department of Brain Development and Neural Regeneration, Tokyo Metropolitan Institute of Medical Science, Tokyo, Japan7)

E-009 Transition from steroid to tacrolimus monotherapy for myasthenia gravis in children

Yuichi Abe, Kaori Sassa, Hideo Yamanouchi (Department of Pediatrics, Saitama Medical University, Saitama, Japan)

E-010 Studies on cerebrospinal fluid examination in children who were suspected with CNS infection

Hisako Yamamoto1,2, Yusaku Miyamoto1,2, Kanako Takeda1,2, Hitoshi Yamamoto2

(Division of Pediatrics, Kawasaki Municipal Tama Hospital, St. Marianna University School of Medicine, Kanagawa, Japan1, Department of Pediatrics, St. Marianna University School of Medicine, kanagawa, Japan2)

English Session 3

Chair: Mitsuhiro Kato (Department of Pediatrics, Showa University School of Medicine, Tokyo, Japan), Toshiyuki Yamamoto (Institute of Medical Genetics, Tokyo Womens Medical University, Tokyo, Japan)

E-011 HECW2 mutation causes peculiar periodic attacks of paralysis, intellectual disability and hypotonia
A sporadic case of CAPOS syndrome
Hirofumi Kashi1, 2, Itaru Hayakawa2, Hiroshi Terashima2, Rika Kosaki3, Kenjiro Kosaki4, Hiroshi Watanabe1, Masaya Kubota2
(1) Department of Pediatrics, Teikyo University Hospital, Mizonokuchi, Kawasaki, Japan
(2) Division of Neurology, National Center for Child Health and Development, Tokyo, Japan
(3) Division of Medical Genetics, National Center for Child Health and Development, Tokyo, Japan
(4) Center for Medical Genetics, Keio University School of Medicine, Tokyo, Japan

Specific mutations in ATP1A3 cause distinct phenotypes: Analysis of cases with CAPOS, RECA, and AHC
Yuji Nakamura1, Ayako Hattori1, Masataka Fukuoka2, Mitsuko Nakashima3, Atsushi Ishii4, Daisuke Ieda1, Ikumi Horii1, Yutaka Negishi1, Naoki Ando1, 2, Ichiro Kuki2, Naomichi Matsumoto3, Shinichi Hirose4, Shinji Saitoh1
(1) Department of Pediatrics and Neonatology, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan
(2) Department of Pediatrics, Teikyo University Hospital, Mizonokuchi, Kawasaki, Japan
(3) Department of Pediatric Neurology, Osaka City General Hospital, Osaka, Japan
(4) Department of Human Genetics, Yokohama City University Graduate School of Medicine, Yokohama, Japan

Paroxysmal dyskinetic disorders diagnosed by comprehensive genetic analysis.
Naoko Ishihara1, Misa Miyake1, Yoshiaki Kawamura1, Hidehito Inagaki2, Takema Kato2, Makiko Tsutsumi2, Tadayoshi Hata3, Tetsushi Yoshikawa1, Hiroki Kurahashi1
(1) Department of Pediatrics, Jichi Medical University, Tochigi, Japan
(2) Department of Human Genetics, Graduate School of Medicine, Yokohama City University, Yokohama, Japan
(3) Department of Biochemistry, Hamamatsu University School of Medicine, Hamamatsu, Japan

Utility of single-fiber electromyography in patients with CACNA1A mutation
Ayaka Hirasawa1, Akihiko Ishiyama1, Eri Takeshita1, Yuki Shimizu-motohashi1, Takashi Saito1, Hirofumi Komaki1, Eiji Nakagawa1, Kenji Sugai2, Shota Yuasa2, Kohei Hamanaka3, Satoko Miyatake3, Naomichi Matsumoto3, Masayuki Sasaki1
(1) Department of Child Neurology, National Center Hospital, National Center of Neurology and Psychiatry (NCNP), Tokyo, Japan
(2) Department of Pediatrics, Kameda Medical Center, Chiba, Japan
(3) Department of Human Genetics, Yokohama City University Graduate School of Medicine, Yokohama, Japan

Prenatal Zika virus infection in mice dysregulates cortical development and causes microcephaly
Kimino Fujimura1, 2, 3, Tojo Nakayama1, 4, Dylan Vaughan1, 4, Andrew Kodani1, 4, Ann Durbin5, Irene Bosch7, Mauro Teixeira3, Lee Gehrke5, 7, 9, Ganeshwaran Hitoshi Mochida1, 4, 10
(1) Division of Genetics and Genomics, Department of Medicine, Boston Children's Hospital, MA, USA
(2) Department of Pediatrics, Keio University School of Medicine, Tokyo, Japan
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The 60th Annual Meeting of the Japanese Society of Child Neurology

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Department of Microbiology and Immunobiology, Harvard Medical School, Boston, MA, USA;
Pediatric Neurology Unit, Department of Neurology, Massachusetts General Hospital, Boston, MA, USA.

E-018 Dysregulation of gene expression underlies microcephaly due to Zika virus infection in mice
Ganeshwaran Hitoshi Mochida, Tojo Nakayama, Amanda Guise, Kimino Fujimura, Dylan Vaughan, Andrew Kodani, Ann Durbin, Irene Bosch, Mauro Teixeira, Lee Gehrke.
(Division of Genetics and Genomics, Boston Children's Hospital, Boston, MA, USA; Department of Pediatrics, Harvard Medical School, Boston, MA, USA; Pediatric Neurology Unit, Massachusetts General Hospital, Boston, MA, USA; F. M. Kirby Neurobiology Center, Boston Children's Hospital, Boston, MA, USA; Department of Pediatrics, Keio University School of Medicine, Tokyo, Japan; Department of Pediatrics, Shin-yurigaoka General Hospital, Kanagawa, Japan; Program in Virology, Division of Medical Sciences, Harvard Medical School, Boston, MA, USA; Institute for Medical Engineering and Science, Massachusetts Institute of Technology, Cambridge, MA, USA; Departamento de Bioquímica e Imunologia, Instituto de Ciencias Biológicas, Universidade Federal de Minas Gerais, Minas Gerais, Brazil; Department of Microbiology and Immunobiology, Harvard Medical School, Boston, MA, USA)

E-019 The effect of missense mutation site on the phenotype of glucose transporter-1 deficiency syndrome.
Shin Nabatame, Hidehito Kondo, Ryoko Hayashi, Mika Hirotsune, Junpei Tanigawa, Yoshiko Iwatan, Koji Tominaga, Kuriko Shimono, Keiichi Ozono.
(Department of Pediatrics, Graduate School of Medicine, Osaka University, Suita, Japan; Epilepsy Center, Osaka University Hospital, Suita, Japan; Division of Developmental Neuroscience, United Graduate School of Child Development, Osaka University, Suita, Japan)

E-020 Brain MRI findings of the best correlation with neurological outcomes in tuberous sclerosis complex
Tohru Okanishi, Ayata Fumimoto, Sotaro Kanai, Shinji Itamura, Shinpei Baba, Hideo Enoki.
(Department of Child Neurology, Seirei-Hamamatsu General Hospital, Shizuoka, Japan; Comprehensive Epilepsy Center, Seirei-Hamamatsu General Hospital, Shizuoka, Japan)

E-021 Combination of topiramate and lacosamide is effective for Paramyotonia congenita
Yoshie Kurokawa, Akihiko Miyachi, Hirokazu Yamagishi, Kazuhiro Muramatsu, Hitoshi Osaka, Takanori Yamagata.
(Department of Pediatrics, Jichi Medical University, Tochigi, Japan)

E-022 A case of ephedrine-responsive congenital myasthenia syndrome due to novel mutations in COLQ
Hiroyuki Wakamoto, Mika Kawabe, Yoshiaki Yano, Satoko Miyatake, Naomichi Matsumoto, Kinji Ohno.
(Department of Pediatrics, Ehime Rehabilitation Center for Children, Toon, Japan; Department of Human Genetics, Yokohama City University Graduate School of Medicine, Yokohama, Japan; Division of Neurogenetics, Nagoya University Graduate School of Medicine, Nagoya, Japan)

English Session

Chair: Takanori Yamagata (Department of Pediatrics, Jichi Medical University, Tochigi, Japan), Tatsuya Koeda (Department of Psychosocial Medicine, National Center for Child Health and Development, Tokyo, Japan)

E-023 Effects of intranasal oxytocin on reward processing in reactive attachment disorder
Shinichiro Takiguchi, Takashi X Fujisawa, Koji Shimada, Kai Makita, Yoshifumi Mizuno, Hirotaka Kosaka, Akemi Tomoda.
(Department of Child and Adolescent Psychological Medicine, University of Fukui Hospital, Fukui, Japan; Research Center for Child Mental Development, University of Fukui, Fukui, Japan)

E-024 Effects of medical music-care therapy for children with neurodevelopmental disorders
Naomitsu Suzuki, Emiko Shiba, Tetsuro Sakai.
The 60th Annual Meeting of the Japanese Society of Child Neurology

E-025 Clinical futures of sluggish cognitive tempo, an another attention disorder
Shuhei Suzuki, Tomika Kondo, Yasunori Oka
(Suzuki Clinic, Osaka, Japan, Center for Sleep Medicine, Ehime, Japan)

E-026 MPH-induced hemodynamic responses in medication-naive ADHD with and without ASD: an fNIRS study
Takahiro Ikeda, Yukifumi Monden, Tatsuya Tokuda, Masako Nagashima, Hideo Shimoizumi, Ippeita Dan, Takanori Yamagata
(Graduate School of Medicine, Chuo University, Tokyo, Japan, International University of Health and Welfare Rehabilitation Center, Tokyo, Japan, Applied Cognitive Neuroscience Laboratory, Chuo University, Tokyo, Japan, Nasu Institute for Developmental Disabilities, International University of Health and Welfare Rehabilitation Center, Tokyo, Japan)

E-027 Is congenital cytomegalovirus infection associated with autism spectrum disorder?
(Graduate School of Medicine, Kobe University Graduate School of Medicine, Kobe, Japan, Kobe City Pediatric and General Rehabilitation Center for the Challenged, Kobe, Japan, Western Kobe City Pediatric and General Rehabilitation Center for the Challenged, Kobe, Japan, Department of Developmental Pediatrics, Shizuoka Children's Hospital, Shizuoka, Japan, Himeji City Center for the Disabled, Himeji, Japan, Kobe University Graduate School of Health Science, Kobe, Japan)

E-028 Decrease in the frequency of each angle of memory guided saccade in Tourette syndrome and ADHD
Kyoko Hoshino, Hideki Fukuda, Yusuke Sugiyama, Yuri Nagao, Kazue Kimura, Masaharu Hayashi, Shinichi Tsuchi, Yasuo Terao
(Segawa Memorial Neurological Clinic for Children, Tokyo, Japan, Department of Neurology, Tokyo University, Tokyo, Japan, Department of Neurology, Kyorin University, Tokyo, Japan, Department of Cell-Physiology, Kyorin University, Tokyo, Japan)

E-029 Hiragana decoding impairment in three Japanese children with periventricular leukomalacia
Naoko Kurahashi, Shunsuke Ogaya, Yuki Maki, Takeshi Suzuki, Yosuke Hosokawa, Keitaro Yamada, Koichi Maruyama, Kosaburo Aso, Mio Nakamura
(Department of Pediatric Neurology, Aichi Prefectural Colony Central Hospital, Aichi Human Service Center, Kasugai, Japan, Department of Pediatrics, Japanese Red Cross Nagoya Daiichi Hospital, Nagoya, Japan, Department of Pediatrics, Nagoya University Graduate School of Medicine, Nagoya, Japan, Department of Functioning Science, Institute for Developmental Research, Aichi Human Service Center, Kasugai, Japan, Okazaki Medical Center for Child Development, Okazaki, Japan)

English Session 6
Chair: Hiroshi Arai (Bobath Memorial Hospital, Osaka, Japan), Akihito Takeuchi (Division of Neonatology and Neuropediatrics, National Hospital Organization Okayama Medical Center, Okayama, Japan)

E-030 The association between general movements assessment and brain morphology
Tomoki Maeda, Kazuhiro Sekiguchi, Mizuho Takahashi
(Department of Pediatrics, Oita University, Oita, Japan)

E-031 Radial glial fibers promote neuronal migration and functional recovery after neonatal brain injury
Hideo Jinnou, Masato Sawada, Koya Kawase, Naoko Kaneko, Takuya Miyamoto, Itsuki Ajio, Shinji Saitoh, Kazunobu Sawamoto
(Department of Pediatrics and Neonatology, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan, Department of Developmental and Regenerative Biology, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan, Center for Brain Integration Research, Tokyo Medical and Dental University, Tokyo, Japan)

E-032 Pathophysiology of neuronal network damage in the mouse model of extremely preterm infants
Kimiko Deguchi, Ken-ichiro Kubo, Ken Inoue, Kazunori Nakajima
(Department of Anatomy Keio University School of Medicine, Tokyo, Japan, Deguchi Pediatric Clinic, Nagasaki, Japan, National Institute of Neuroscience, NCNP, Dept. of Mental Retardation and Birth Defect Research, Tokyo, Japan)
English Session

Chair: Hirofumi Komaki (Department of Clinical Research Promotion, National Center Hospital, National Center of Neurology and Psychiatry, Tokyo, Japan)

Tatsuya Fujii (Department of Pediatrics, Shiga Medical Center for Children, Moriyama, Japan)

E-036 Pneumothorax in Ulrich congenital muscular dystrophy
Yukie Arahata1, Akihiko Ishiyama1, Ryuta Tanaka2, Shohei Kusabiraki1, Eri Takeshita1, Yuko Shimizu—motohashi1, Takashi Saito1, Hirofumi Komaki1, Eiji Nakagawa1, Kenji Sugai1, Yuko Saito1, Masayuki Sasaki1

(Department of Child Neurology, National Center Hospital, National Center of Neurology and Psychiatry, Tokyo, Japan)

The Department of Pediatrics, Ibaraki Children's Hospital, Mito, Japan

E-037 Analysis of respiratory function of Duchenne muscular dystrophy with Chilaiditi syndrome
Masashi Ogasawara, Akihiko Ishiyama, Eri Takeshita, Yuuko Motohashi, Hirofumi Komaki, Masayuki Sasaki

(National Center Hospital, National Center of Neurology and Psychiatry (NCNP), Tokyo, Japan)

E-038 Incidence of spinal muscular atrophy type I: a population-based study on Shikoku island, Japan
Kentaro Okamoto1, 2, Mitsumasa Fukuda1, 3, Risako Urate1, 4, Isao Saito1, 3, Takahiro Motoki1, Toshihiro Jogamoto1, Kaori Hino1, Takatoshi Hosokawa2, 3, Kenji Mori2, Yukihiko Konishi3, Eiichi Ishii1

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Department of Child Health & Nursing, Institute of Biomedical Sciences, Tokushima University Graduate School, Tokushima, Japan

Department of Pediatrics, Faculty of Medicine, Kagawa University, Kagawa, Japan

E-039 When does SMN shortage become evident in spinal muscular atrophy patients?
Noriyuki Nishimura1, Sota Iwata1, Keiji Yamana1, Masashi Nagai1, Ryosuke Bou1, Hiroyuki Awano1, Kaori Maeyama1, Masahiro Nishiyama1, Hiroaki Nagase1, Masami Mizobuchi2, Kazumichi Fijoka1, Ichiro Morioka1, Kazumoto Iijima1, Hisahide Nishio3

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Department of Epidemiology, Kobe University Graduate School of Medicine, Kobe, Japan

E-040 Autosomal dominant spinal muscular atrophy due to a novel mutation in the motor adaptor BICD2
Mieko Yoshioka1, Naoya Morisada2, Daisaku Toyoshima1, Hisahide Nishio4, Kazumoto Iijima5, Yasuhiro Takeshima6, Tomoko Uehara7, Kenjiro Kosaki7

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Department of Pediatrics, Hyogo College of Medicine, Nishinomiya, Japan
Center for Medical Genetics, Keio University School of Medicine, Tokyo, Japan

E-041 Microinfarction in juvenile dermatomyositis
Michio Inoue1, 2, Akinori Uruha3, Jean-Luc Charuel4, Lucile Musset1, Shigeaki Suzuki5, Masataka Kuwana6, Tsuneyo Mimori2, Ichizo Nishino1, 2
(Department of Neuromuscular Research, National Institute of Neuroscience, National Center of Neurology and Psychiatry, Tokyo, Japan
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Pierre and Marie Curie University-Paris VI, National Institute of Health and Medical Research (INSERM), Mixed Research Unit 974, Center of Research in Myology, Institute of Myology, Pitîé-Salpêtrière University Hospital, Paris, France
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Department of Allergy and Rheumatology, Nippon Medical School Graduate School of Medicine, Tokyo, Japan
Department of Rheumatology and Clinical Immunology, Graduate School of Medicine, Kyoto University, Kyoto, Japan

English Session 8
Chair: Shinichi Hirose (Department of Pediatrics, School of Medicine, Fukuoka University, Fukuoka, Japan)
Motomasa Suzuki (Department of Pediatric Neurology, Aichi Children's Health and Medical Center, Aichi, Japan)

E-042 EEG-fMRI analysis of hypsarrhythmia in West syndrome
Yu Oka1, Yuji Ito1, 2, Satoshi Maesawa3, Epifanio Bagarinao2, Yuki Maki1, Masaharu Tanaka1, Yoko Sakaguchi1, Atsuko Ohno2, Hiroyuki Yamamoto1, Tomohiko Nakata1, Hiroyuki Kidokoro1, Tamiko Negoro1, Kazuyoshi Watanabe1, Jun Natsume2
(Department of Pediatrics, Nagoya University Graduate School of Medicine, Nagoya, Japan
Aichi Prefecture Mikawa Aotitor Medical Treatment and Habilitation Center2, Brain and Mind Research Center, Nagoya University, Nagoya, Japan)

E-043 EEG-fMRI in children with ECSWS: difference between the electroclinical stages of ECSWS
Yuji Ito1, 2, Yu Oka1, 2, Satoshi Maesawa2, Epifanio Bagarinao2, Hiroyuki Kidokoro1, 2, Hiroyuki Yamamoto1, 2, Yuki Maki1, Masaharu Tanaka1, Yoko Sakaguchi1, Atsuko Ohno1, Tomohiko Nakata1, Tamiko Negoro1, Kazuyoshi Watanabe1, Jun Natsume1, 2
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E-044 Epileptogenic high-frequency oscillations skip the motor area in drug-resistant multilobar epilepsy
Yasushi Iimura1, 2, Hiroshi Otsubo1
(Division of Neurology, The Hospital for Sick Children, Toronto, Ontario, Canada
Department of Neurosurgery, University of Juntendo, Tokyo, Japan)

E-045 The Wada test might predict postoperative fine finger motor deficit after hemispherotomy
Ayataca Fujimoto, Tohru Okanishi, Sotaro Kanai, Shinji Itamura, Shimpei Baba, Hideo Enoki
(Seirei Hamamatsu General Hospital, Comprehensive Epilepsy Center, Hamamatsu, Japan)

E-046 Intravenous infusion of mesenchymal stem cells inhibits epileptogenesis in an epilepsy rat model
Shinobu Fukumura1, Masanori Sasaki2, Hiroyuki Tsutsumi1, Osamu Honmou2
(The Department of Pediatrics, Sapporo Medical University School of Medicine, Sapporo, Japan
Department of Neural Regenerative Medicine, Research Institute for Frontier Medicine, Sapporo Medical University School of Medicine, Sapporo, Japan)

E-047 Cognitive development after epilepsy surgery of the posterior cortex in patients with West syndrome
Tomonori Ono1, Ryoko Honda1, Yoshiaki Watanabe1, Rika Koshimoto2, Miwako Wada2, Koaru Ishida2, Kohei Adachi3, Shiro Baba1, Keisuke Toda2, Hiroshi Baba3
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The 60th Annual Meeting of the Japanese Society of Child Neurology
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Neurosurgery, Nagasaki University School of Medicine, Nagasaki, Japan
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Epilepsy Center, Nishi-Isahaya Hospital, Isahaya, Japan

E:048 CDKL5 controls synaptic localization of GluN2B-NMDA receptors and regulates seizure susceptibility
Teruyuki Tanaka, Kosuke Okuda, Shizuka Kobayashi, Masahiro Fukaya, Aya Watanabe, Takuto Murakami, Mai Hagiwara, Hiroyuki Sakagami, Toshiya Manabe, Masashi Mizuguchi
Department of Developmental Medical Sciences, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan, Division of Neuronal Network, The Institute of Medical Science, The University of Tokyo, Tokyo, Japan, Department of Anatomy, Kitasato University School of Medicine, Sagamihara, Japan

Oral Presentation01
Epilepsy/Convulsion West syndrome
O-001 Long-term weekly ACTH therapy may prevent recurrence of West syndrome: Report of 6 cases
Shimpei Baba, TOHRU OKANISHI, MITSUO NISHIMURA, SOTARO KANAI, SHINJI ITAMURA, YOSUKE MASUDA, AYATAKA FUJIMOTO, HIDEO ENOKI
(1.Department of Child Neurology, Seirei-Hamamatsu General Hospital, Shizuoka, Japan, 2.Comprehensive Epilepsy Center, Seirei-Hamamatsu General Hospital, Shizuoka, Japan, 3.Laboratory of Neurophysiology, Seirei-Hamamatsu General Hospital, Shizuoka, Japan)

O-002 Efficacy of vitamin B6 therapy as first line treatment for West syndrome
Ryuki Matsuura, SHIN-ICHIRO HAMANO, ATSURO DAIDA, JUN KUBOTA, ERIKA HIWATARI, SATORU IKEMOTO, REIKO KOICHIHARA, MOYUKO MINAMITANI
(1.Division of Neurology, Saitama Children's Medical, Saitama, Japan, 2.Department of Pediatrics, The Jikei University School of Medicine, Tokyo, Japan, 3.Division of Child Health and Human Development, Saitama Children's Medical Center, Saitama, Japan)

O-003 Efficacy of vigabatrin for West syndrome
Takashi Shibata, MARI AKIYAMA, NAOKO MATSUDA, YUKI HYODO, HIROKI TSUCHIYA, YOSHIYUKI HANAOKA, FUMIKA ENDOH, TOMOYUKI AKIYAMA, KATSUHIRO KOYABASHI
(Department of Child Neurology, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences and Okayama University Hospital, Okayama, Japan)

O-004 Assessment of Vigabatrin therapy for infantile spasms
Kuriko Shimono, RYOKO HAYASHI, MIKA HIROTSUNE, YOSHIKO IWATANI, KOUJI TOMINAGA, SHIN NABATAME, MASAKI TANIKE, KEICHI OZONO
(1.Division of Developmental Neuroscience, United Graduate School of Child Development, 2.Department of Pediatrics, Graduate School of Medicine, Osaka University, Suita, Japan, 3.Epilepsy Center, Osaka University Hospital, Suita, Japan)

O-005 Symmetrical indices in ictal EEG can predict the outcomes of corpus callosotomy for epileptic spasms
Sotaro Kanai, Tohru Okanishi, Masayoshi Oguri, Shinji Itamura, Shimpei Baba, Mitsuyo Nishimura, Ayataka Fujimoto, Hideo Enoki
(1.Department of Child Neurology, Seirei Hamamatsu General Hospital, Hamamatsu, Japan, 2.Department of Pathobiological Science and Technology, School of Health Sciences, Faculty of Medicine Tottori University, Yonago, Japan, 3.Division of Clinical Laboratory, Seirei Hamamatsu General Hospital, Hamamatsu, Japan, 4.Comprehensive Epilepsy Center, Seirei Hamamatsu General Hospital, Hamamatsu, Japan)

O-006 Efficacy of rufinamide for patients with intractable epilepsy including tonic seizure
Motoyuki Minamitani, Shin-ichiro Hamano, Ryuki Matsuura, Satoru Ikemoto, Erika Hiwatari, Jun Kubota, Atsuro Daita (1.Saitama Children Medical Center, Div. of Neurology, Saitama, Japan, 2.the Jikei Medical School of Medicine, Dep. of Pediatrics, Tokyo, Japan)

Oral Presentation02
Epilepsy/Convulsion New anti-epileptic drugs
O-007 Clinical experience with lacosamide in patients with refractory epilepsy
Shin Okazaki, ICHIRO KUKI, HISASHI KAWAWAKI, MASATAKA FUKUOKA, KIYOHIRO KIN, MEGUMI NUKUI, TAKEKI INOUUE
(Department of Pediatric Neurology, Osaka City General Hospital, Osaka, Japan)

O-008 Effect of lacosamide on intractable epilepsy
Haruka Oguro1, Tomohiro Nakayama1,2, Junko Nakayama1, Naoko Nakayama2, Kayo Tokeji1, Hiroshi Maruyama2, Nobuaki Iwasaki1
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O-009 Add-on therapy of perampanel in the patients with intractable epilepsy
Chiizu Oba1, MITSURU KASHIWAGI1, TAKUYA TANABE2, SYOHEI NOMURA1, MOTOKO OGINO4, MARI HATANAKA3, ATSUSHI MORI1, HIROMI TOSHIKAWA3, MIHO FUKUI3, SOSUKE YOSHIKAWA5, SHUICHI SHIMAKAWA3, Yukitsugu Azumakawa4, EIJII WAKAMIYA6, HIROSHI TAMAI8
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O-010 Effects of perampanel on secondary bilateral synchrony in children with epilepsy
Hideaki Kanemura1, FUMIKAZU SANO1, TETSUO OHYAMA1, MASAO AIHARA2
(1. Department of Pediatrics, Faculty of Medicine, University of Yamanashi, Yamanashi, Japan, 2. Graduate Faculty of Interdisciplinary Research, Graduate School, University of Yamanashi, Yamanashi, Japan)

O-011 Prescription of antiepileptic drugs before and after the use of new-generation antiepileptic drugs
Toshihide Watanabe, NIKAIKOU KOUKI, TAKAYAMA RUMIKO
(Department of Pediatrics, Hokkaido, Hokkaido Medical Center for Child Health and Rehabilitation, Sapporo, Japan)

O-012 Effect of perampanel on intractable epilepsy
Tomohiro Nakayama1,2, HARUKA OOGURO1, NAOKO NAKAYAMA2, KAYO TOKEJI1, JUNKO NAKAYAMA1, HIROSHI MARUYAMA2, NOBUAKI IWASAKI1
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Oral Presentation
Epilepsy/Convulsion

O-013 Pathophysiological significance of Munc18-1 gene abnormalities
Koh-ichi Nagata, Nanako Hamada, Ikuko Iwamoto, Hidenori Tabata
(Department of Molecular Neurobiology, Institute for Developmental Research, Aichi Human Service Center, Kasugai, Japan)

O-014 Epilepsy of Trisomy 18
Ryoji Taira1,2, Yuri Sonoda, Yuko Ichimiya, Satoshi Akamine, Michiko Torio, Yoshito Ishizaki, Masayuki Sanefuji, Masayuki Ochiai, Yasunari Sakai, Shouichi Ohga
(Department of Pediatrics, Kyushu University, Fukuoka, Japan)

O-015 Factors associated with treatment lag in children with infantile spasms
Yuko Hirata1,2,3, Shin-ichiro Hamano4, Ryuki Matsuura2,3, Atsuko Oba4, Yuji Kumagai4, Satoru Ikemoto2,3, Erika Hiwatari4
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O-016 Recognition about epilepsy in nursing teacher in comparison with non-nursing teacher
Ken Takada1,2,3, Hideaki Kanemura1, Fumikazu Sano1, Masao Aihara4
(1. Pediatrics, University of Yamanashi, Yamanashi, Japan, 2. Pediatrics, Yamanashi Kosei Hospital, Yamanashi, Japan, 3. Pediatrics, Yamanashi Prefectural Medical Welfare Center, Yamanashi, Japan, 4. Graduate Faculty of Interdisciplinary Research, Graduate School, University of Yamanashi, Yamanashi, Japan)

O-017 Two cases of eye movement abnormalities induced by new antiepileptic drugs
Yuka Masuda1, ATSUO NEZU1, KUMIKO KARASAWA2, HIDEE ARAI3, MAKIKO KUROSAWA1, JIU YUGUCHI1, TAKEYA AWASHIMA1, NAOKO MIURA1, MAIKO KITA1
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O-018 Clinical features of 5 PNES (psychogenic non-epileptic seizures) cases diagnosed by VTR-EEG
Kaori Sassa, Yuichi Abe, Hideo Yamanouchi
(Saitama Medical University Hospital, Saitama, Japan)

Oral Presentation04

Hereditary disorder/Chromosomal aberration

O-019 Intrinsic property of iPS cells-derived neurons in patients with Angelman syndrome
Kiyoshi Egawa1, YOSHIRO HIRATA1, HIDEAKI SHIRAISHI1, DAISUKE SATO1, SHINJI SAITO1, YUKITOSHI TAKAHASHI1, HIROKAZU OKUNO1, MITSURO ISHIKAWA1, HIDEYUKI OKANO1
(1.Department of Pediatrics, Hokkaido University Graduate School of Medicine, Hokkaido, Japan, 2.Department of Pediatrics and Neonatology, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan, 3.Center for Integrative Medical Sciences, RIKEN, Yokohama, Japan, 4.Division of Regenerative Medicine, Keio University School of Medicine, Tokyo, Japan)

O-020 Clinical, genetic, and biochemical analyses for PI3K-AKT-mTOR pathway-associated megalencephaly
Ikumi Hori1, Fuyuki Miya2,3, YUJI NAKAMURA1, DAISUKE IEDA1, YUTAKA NEGISHI1, AYAKO HATTORI1, TATSUHIKO TSUNODA2,3, YONEHIRO KUSUMOTO1,5, KENJIRO KOSAKI1,5, SHINJI SAITO1
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O-021 Truncating mutations in MAGEL2 cause Schaaf-Yang syndrome through toxic effects in fetal development
Yutaka Negishi1, DAISUKE IEDA1, YUJI NAKAMURA1, IKUMI HORI1, AYAKO HATTORI1, YASUYUKI NOZAKI2, HIROFUMI KOMAKI3, JUN TOHYAMA4, KEISUKE NAGASAKI5, HIROKO TADA6, HISASHI OISHI7, SHINJI SAITO1
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O-022 Phenotypic and genomic analysis of bilateral lambdoid and sagittal synostosis
Yuri Sakaguchi1,2, TOSHIKI TAKENOUCHI1, KENJIRO KOSAKI1, TAKAO TAKAHASHI1, YASUYUKI NOZAKI2, HIROFUMI KOMAKI3, JUN TOHYAMA4, KEISUKE NAGASAKI5, HIROKO TADA6, HISASHI OISHI7, SHINJI SAITO1
(1.Department of Pediatrics and Genetics, Keio University School of Medicine, Tokyo, Japan, 2.Center for Functional Genomics, Keio University School of Medicine, Tokyo, Japan)

O-023 The central precocious puberty gene, Mkrn3 shows development-specific imprinting in mouse testis
Tatsuya Kishino (Division of Functional Genomics, Center for Frontier Science, Nagasaki University, Nagasaki, Japan)

O-024 Diagnostic consultation board for supporting clinical diagnosis of hypomyelinating leukodystrophies
Ken Inoue1, Kenji Kurosawa2, HIROTOMO SAITOU3, Toshiyuki Yamamoto4, Hitoshi Osako5, Jun-ichi Takanashi6
(1.Dept. Mental Retardation & Birth Defect Research, National Institute of Neuroscience, NCNP, Tokyo, Japan, 2.Division of Genetics, Kanagawa Children's Medical Center, Yokohama, Japan, 3.Department of Biochemistry, Hamamatsu University School of Medicine, Hamamatsu, Japan, 4.Tokyo Women's Medical University, Tokyo, Japan, 5.Division of Pediatrics, Niigata University Graduate School of Medical and Dental Sciences, Niigata, Japan, 6.Pediatrics, Yachiyo Medical Center, Tokyo Women's Medical University, Yachiyo, Japan)

Oral Presentation05

Involuntary movement

O-025 Congenital paramyotonia associated with epilepsy
O-026 Involuntary movement presenting with concomitant use of risperidone and methylphenidate
Asuka Taneoka, TATSUHARU SATO, KAZUHIKO HASHIMOTO, NANAKO NISHIGUCHI, HIROYUKI MORIUCHI
(Department of Pediatrics, Nagasaki University Hospital, Nagasaki, Japan)

O-027 Paraneoplastic neurological syndrome with neuroblastoma: clinical manifestations and autoantibodies
Hiroo Omatsu, Yukitoshi Takahashi, Seiko Nishimura, Emiko Takao, Risa Kasai, Kaoru Enokida, Yushi Inoue
(Shizuoka Institute of Epilepsy and Neurological Disorders, Shizuoka, Japan)

O-028 Study of non-paraneoplastic opsoclonus myoclonus syndrome: clinical manifestation & autoantibodies
Jun Mine, Yukitoshi Takahashi, Seiko Nishimura, Emiko Takao, Risa Kasai, Kaoru Enokida, Yushi Inoue
(Shizuoka Institute of Epilepsy and Neurological Disorders)

O-029 The efficacy of GPi-DBS in two KMT2B mutation cases using the quantitative evaluation system
Yohane Miyata1,2, HIROTA JOSHIDA3, TAKERU HONDA3, SATOKO KUMADA3, HIDEAKI MASUMI3, HIROYA NISHIDA3, IKUKO SHIRA1, FUSAKO YOKOCHI3, SHINJII KAKEI3, KOHEI HAMANAKA3, SATOKO MIYATAKE3, Naomichi Matsumoto4, YAKO HATTORI3, TOSITAKA KAWARAI6, MAKOTO TANIGUCHI3
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Oral Presentation 06
Congenital abnormality/Neurocutaneous syndrome

O-030 Examination of lumbosacral cutaneous abnormalities
Toshiyuki Maeda1, KUMIKO JINNOUCHI1, FUMIO ICHINOSE1, KEIKO HIRABARU2, MANABU IWANAGA1, SHOKO SHIMOKAWA1, MUNEAKI MATSUO1
(1.Department of Pediatrics, Faculty of Medicine, Saga University, Saga, Japan, 2.Saga Prefectural Hospital Koseikan, Saga, Japan, 3.Deptartment of Neurosurgery, Faculty of Medicine, Saga University, Saga, Japan)

O-031 Treatment strategy for subependymal giant astrocytoma in patients with tuberous sclerosis complex
Ichiro Kuki1, HISASHI KAWAKAI1, SHIN OKAZAKI1, KIYOHIRO KIM1, MASATAKA FUKUOKA1, TAKESHI INOUE1, MEGUMI NUKUI1, NORITSUGU KUNIHIRO1, TAKEHIRO UDA2, YASUHIRO MATSUSAKA2, HIROYA NISHIDA3, IKUKO SHIRA1, FUSAKO YOKOCHI3, SHINJI KAKEI3, KOHEI HAMANAKA3, SATOKO MIYATAKE3, Naomichi Matsumoto4, YAKO HATTORI3, TOSITAKA KAWARAI6, MAKOTO TANIGUCHI3
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O-032 A study on development of children with tuberous sclerosis and epilepsy
Fumika Endoh1, HIROKI TSUCHIYA1, YUKI HYODO1, MARI AKIYAMA1, MAKIRO OKA1, TOMOYUKI AKIYAMA1, HARUMI YOSHINAGA1-2, KATSUHIKO ROBAYASHI1
(1.Department of Child Neurology, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama, Japan, 2.Minami-Okayama Medical Center, Severely Disabled Children Center, Okayama, Japan)

O-033 Immunodeficiency in two female patients with incontinentia pigmenti
Hidenori Ohnishi, NORIO KAWAMOTO, Kenji Ori, TOSHIYUKI FUKAO (Department of Pediatrics, Graduate school of medicine, Gifu University, Gifu, Japan)

O-034 Prognosis of neuropsychiatric symptoms (TAND) in TSC patients who had been treated with vigabatrin
Mitsugu Uematsu1, YURIKA UEMATSU1, YUU AIHARA1, MAYU FUJIKAWA2, NORIKO TOGASHI3, TAKASHI SHIIHARA4, KEI OHASHI5, FUMIKO HATTORI3, SHIGEO KURE1
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**Oral Presentation 07**

**Developmental disorder**

**Autism spectrum disorder**

O-035  **Tympanic deep body temperature as a biomarker of autism spectrum disorders; The second report**

Tomohiro Nakayama1,2, HARUKA OOGURO3, NAOKO NAKAYAMA4, JUNKO NAKAYAMA1, NOBUAKI IWASAKI1

(1.Department of Pediatrics, Ibaraki Prefectural University of Health Sciences Hospital, Ibaraki, Japan, 2.Department of Pediatrics, Matsudo Clinic, Chiba, Japan)

O-036  **Cohort Study for early detection of ASD: Trajectory of Prefarential looking in 2-3 years-olds**

Tatsuya Koeda1, Sawako Ohba2, Yoshihiro Maegaki3

(1.Department of Psychosocial Medicine, National Center for Child Health and Development, Tokyo, Japan, 2.Graduate School of Medicine, Tottori University, Yonago, Japan, 3.Division of Child Neurology, Faculty of Medicine, Tottori University, Yonago, Japan)

O-037  **Evaluation of expression recognition function using near infrared spectroscopy**

Kenji Mori1, AYA GOJI2, TATSUO MORI2, YOSHIHIRO TODA3, HIROMICHI ITO2, MASAHITO MIYAZAKI2, SHOJI KAGAMI2

(1.Department of Child Health & Nursing, Tokushima University Graduate School, Tokushima, Japan, 2.Department of Pediatrics, Tokushima University Graduate School, Tokushima, Japan)

O-038  **Preliminary study of oxidative stress in children with autism spectrum disorders**

Toshiaki Hashimoto1, MASAHITO MORIMOTO2, YOSHIHIRO TSUDA1, TAISUKE KITAOKA3, SHOJIRO KYOTANI3

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O-039  **Early weight gain effects of second-generation antipsychotic treatment in autism spectrum disorder**

Yuko Hayashi1, AKEMI TOROBU2, 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)

O-040  **Assessment of anterior cingulate cortex and left cerebellum in autism spectrum disorder using 1H-MRS**

Hiromichi Ito1,2, KENJI MORI3, MASAFUMI HARADA4, SONOKA HISAOKA4, YOSHIHIRO TODA3, TATSUO MORI2, AYA GOJI2, YOKO TAKAMI2, MASAHITO MIYAZAKI2, SHOJI KAGAMI2

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O-041  **In utero exposure to valproic acid throughout pregnancy cause autistic phenotype in offspring mice**

Takayuki Mitsuhashi1, Satoko Hattori2, Kimino Fujimura1, Shinsuke Shibata2, Tsuyoshi Miyakawa2, Takao Takahashi1

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**Oral Presentation 08**

**Developmental disorder**
O-042 Pathophysiology of Kanji writing disability in Japanese children
Mari Hatanaka1, EIJI WAKAMIYA2, MIHO FUKUI1, MAKOTO NAKANISHI3, TAKASHI TAKESHITA4, TOMOKO MIURA4, TOMOHITO OKUMURA3, MEKUMI Mizuta2, NAOKO KURIMOTO1, SHUICHI SHIMAKAWA1, HIROSHI TAMAI1
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O-043 Typical development of cube copying in toddlers: a prospective cohort study in Japan, 2015-2017
Itaru Hayakawa, AKI ANDOU, HIROSHI TERASHIMA, MASAYA KUBOTA
(Analysis of Neurology, Department of Medical Subspecialties, National Center for Child Health and Development, Tokyo, Japan)
O-044 Treatment with risperidone and aripiprazole in neurodevelopmental disorders
Kei Ohashi, SATOMI FUKUHARA, TAISHI MIYACHI, TOMOKO ASAI, MASAYUKI IMAEDA, SHINJI SAITO
(Department of Pediatrics and Neonatology, Graduate School of Medical Sciences, Nagoya City University, Nagoya, Japan)
O-045 Development of checklist for movement skills adapted for Japanese culture
Ryusaku Hashimoto1,2,3, Keitaro Sueda2, Kazuyori Yagyu2,3
1.Dept. of Communication Disorders, School of Rehabilitation Sciences, Health Sciences University of Hokkaido, Ishikari-gun, Japan, 2.Sapporo Child Physical & Mental Health Care Center, Child Psychiatry, Sapporo, Japan, 3.Dept. of Child and Adolescent Psychiatry, Hokkaido University Graduate School of Medicine, Sapporo, Japan
O-046 Are DCD symptoms related to ADHD symptoms?: A study using the new DCD checklist
Keitaro Sueda1, KAZUYORI YAGYU1,2, RYUSAKU HASHIMO1,2,3
1.Sapporo Child Physical & Mental Health Care Center, Child Psychiatry, Sapporo, Japan, 2.Dept. of Child and Adolescent Psychiatry, Hokkaido University Graduate School of Medicine, Sapporo, Japan, 3.Dept. of Communication Disorders, School of Rehabilitation Sciences, Health Sciences University of Hokkaido, Ishikari-gun, Japan

Oral Presentation09
Acute encephalopathy AESD

O-047 Cerebral blood supply and lesion formation in pediatric acute encephalopathy (AESD)
Masafumi Sanefuji1,2, YUKO ICHIMIYA1,2,3, NORIYUKI KAKU1,2,3, MICHIKO TORIO2, SOOYOUNG LEE1, YURI SONODA2, SATOSHI AKAMINE2, YOSHITO ISHIZAKI2, YASUNARI SAKAI2, SHOUICHI OHGA2
1.Research Center for Environment and Developmental Medical Sciences, Kyushu University, Fukuoka, Japan, 2.Dept. of Pediatrics, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan, 3.Dept. of Pediatrics, Nagoya City University, Aichi, Japan, 4.Dept. of Critical Care, Fukuioka Children’s Hospital, Fukuioka, Japan
O-048 A validation study of predictive scores for early diagnosis of AESD
Sho Narahara1, TATSUYA FUKASAWA1, TETSUO KUBOTA1, YUTAKA NEGISHI2, HIROYUKI YAMAMOTO1, SHINJI SAITO2, AKIHISA OKUMURA4, JUN NATSUME3
O-049 Epilepsy after pediatric acute encephalopathy (AESD): a quantitative MRI study
Yuko Ichimiy1,2, Masafumi Sanefuji1,3, Yuri Sonoda1, Michiko Torio1, Noriyuki Kaku1,2, Sooyoung Lee1, Yoshito Ishizaki1, Yasunari Sakai1, Shouichi Ohga1
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O-050 Analysis of 130 children with prolonged febrile seizure based on AESD prediction score
Kenji Uematsu, Kiyotaka Zaha, Yasuko Nakamura, Hiroshi Matsumoto
(The Department of Pediatrics, National Defense Medical College, Saitama, Japan)
O-051 Trends in incidence of acute encephalopathy with bright tree appearance in nine years
The 60th Annual Meeting of the Japanese Society of Child Neurology

Yuki Maki1, Masaharu Tanaka1, Yu Okai1, Yoko Sakaguchi1, Hiroyuki Yamamoto1, Atsuko Ohno2, Tomohiko Nakata1, Tatsuya Fukasawa2, Takeshi Tsuji1, Hiroyuki Kidokoro1, Tetsuo Kubota1, Akihisa Okumura1, Shinji Saitoh5, Jun Natsume3
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O-052 Analysis of calpain-dependent neuronal cell death in AESD
Takeshi Matsushige, Fumitaka Kouno, Hirofumi Inoue, Madoka Hoshide, Momoko Oka, Kazumasa Takahashi, Shunji Hasegawa
(Department of Pediatrics, Yamaguchi University Graduate School of Medicine)

Oral Presentation 10
Infection/Immunity

O-053 Efficacy of serial monitoring of serum levels of neurofilament in hematopoietic cell transplantation
Yoshiiro Osawa1, Mitsuo Motobayashi1,2, Masaru Nasuno1, Manami Morikawa3, Takenori Natsume1, Toshimitsu Yanagisawa1, Yuji Inaba4
(1.Department of Pediatrics, Shinshu University School of Medicine, Nagano, Japan, 2.Division of Neurology, Shinshu University School of Medicine, Nagano, Japan, 3.Department of Pediatrics, Nagano Red Cross Hospital, Nagano, Japan, 4.Division of Neurology, Nagano Childrens Hospital, Nagano, Japan)

O-054 Effectiveness of intravenous immunoglobulin therapy in childhood myasthenia gravis
Atsuko Oba1,2, SHIN-ICHIRO HAMANO2, Ryuuki Matsuura2
(1.Department of Pediatrics, The Jikei University Kashiwa Hospital, 2.Division of Neurology, Saitama Children's Medical Center)

O-055 Analysis of BAPF/APRIL system in childhood—onset ocular myasthenia gravis
Mitsuo Motobayashi1, TAKAFUMI NISHIMURA2, Yoshihiro Osawa3, Masaru Nasuno3, Manami Morikawa4, Takenori Natsume5, Toshimitsu Yanagisawa1, Tomoko Mizuno6, Yasuo Hachiya7, Manami Akasaka8, Yuji Inaba8,9
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O-056 Results of PCR diagnosis by central laboratory for symptomatic congenital cytomegalovirus infection
Yoshinori Ito1, YUKA TORII1, ICHIRO MORIOKA2, SHIN KOYANO3, TETSUSHI YOSHIKAWA4, HIROYUKI MORIZUCHI5, TOMOYUKI FUJII6, AKIRA OKA7, HIROSHI KIMURA8
(1.Department of Pediatrics, Nagoya University Graduate School of Medicine, Aichi, Japan, 2.Department of Pediatrics, Kobe University Graduate School of Medicine, Hyogo, Japan, 3.Department of Pediatrics, Asahikawa Medical University, Hokkaido, Japan, 4.Department of Pediatrics, Fujita Health University, Aichi, Japan)

Oral Presentation 11
Cerebral palsy

O-057 Outbreak of human metapneumovirus infection in inpatients with profound multiple disabilities
Takashi Ichiyama, HIKARU KOBAYASHI, HIRONORI MATSUFUJI, HIROSHI ISUMI, YOSHITSUGU SUGIO
(Department of Pediatrics, Tsudumigaura Medical Center for Children with Disabilities, Yamaguchi, Japan)

O-058 Human metapneumovirus outbreak in a ward for patients with severe motor and mental disabilities
Keiko Wada, Shuji MATSUI, MICHIKO MAKINO, YUMIKO OONO, KYOKO SHIRAKI, KUNIKO UNO, TAKAKO TAMURA, MITSUNOBU MATSUDA, MASAKO FUNAHASHI, KEIKO AKAHOSHI, TOSHIHIDE SHIIKI
(Department of Pediatrics Tokyo Children’s Rehabilitation Hospital, Tokyo, Japan)
O-059 Investigation of cycling antibiotic therapy for patients with profound multiple disabilities
Hironori Matsufuji¹, SAKIE OKAZAKI², TAMAKI NAKUMARA³, NAOKO ISHIKAWA¹-³, HIROSHI ISUMI¹, TAKASHI ICHIYAMA¹, YOSHIHISUKE SUGIO¹
(1.Department of Pediatrics, Tsudumigaura medical center for children with disabilities, Syunan, Japan, 2.Dept of Pediatrics, Yamaguchi Roussai Hospital, Sanyo Onoda, Japan, 3.Dept of Pediatrics, Tokuyama Central Hospital, Syunan, Japan)

O-060 Developmental course of cerebral palsy with periventricular leukomalacia
Keiko Koterazawa¹, HIROKO MIYAUCHI¹, SINNJI KITAYAMA¹, HIROYOSHI MIYATA²
(1.Himeji City Center for the Disabled, 2.Department of Pediatrics, Himeji Saint Mary Hospital, Himeji, Hyogo)

O-061 Thoracic and tracheal deformations in patients with severe motor and intellectual disabilities
Takeshi Suzuki, YOUSUKE HOSOKAWA, NAOKO KURAHASHI, KEITAROU YAMADA, KOUCHI MARUYAMA, KOUSABURO ASOU
(Department of Pediatric Neurology, Aichi Prefectural Colony Central Hospital, Aichi Human Service Center, Aichi, Japan)

O-062 A study of relation of selenium to thyroid hormone on severe motor and intellectual disabilities
Shinsuke Maruyama¹, Chihiro Yonee², Yusei Baba¹, Yoshifumi Kawano¹
(1.Department of Pediatrics, Kagoshima University, Kagoshima, Japan, 2.Department of Pediatrics, Minami Kyusyu National Hospital, Japan)

Oral Presentation 12
Muscular disease
O-063 Long-term course of Laminopathy patients
Masaki Miura¹, Hirohumi Komaki¹, Eri Takeshita¹, Yuko Motohashi¹, Akihiko Ishiyama¹, Takashi Saitoh¹, Eiji Nakagawa¹, Kenji Sugai², Masayuki Sasaki¹, Ichizo Nishino²
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O-064 Clinical features in 4 cases of pediatric onset FHL1 gene mutation
Shohei Kusabiraki¹, Michio Inoue¹, Akihiko Ishiyama², Nei Ohya³, Hiroaki Miyahara¹, Eri Takeshita¹, Yuko Motohashi¹, Takashi Saito¹, Hirohumi Komaki¹, Eiji Nakagawa¹, Kenji Sugai¹, Masayuki Sasaki¹, Ichizo Nishino²
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O-065 A report of four children cases performed single fiber electromyography
Kentaro Kawamura¹, Akiyo Yamamoto¹, Kousoke Tsuchida¹, Shinobu Fukumura¹, Tomihiro Imai¹, Hirohiko Tsutsumi¹
(1.The Department of Pediatrics, Sapporo Medical University, Sapporo, Japan, 2.Sapporo Medical University School of Health Sciences, Sapporo, Japan)

O-066 Practice sessions for rehabilitation with robot suit
Toshio Saito¹, MISA MATSUI², YUTO TAKADA², YUMIKO IWATA², MASAYUKI NAKAGAWA¹, TSUYOSHI MATSUMURA², KIMIKO INOUE³
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Oral Presentation 13
Muscular disease
O-067 The questionnaire survey about the process and the notice of diagnosis for the FCMD patient’s family
Minobu Shichiji¹, KEIKO ISHIHAKI¹, TAKATOSHI SATO¹, MIZUSA MATSUDA², SATORU NAGATA¹
O-068 Management of patients with FCMD on respiratory dysfunction and dysphagia
Michiko Makino, SHUJJ MATUI, KEIRO WADA, MASUKO FUNAHASHI, TOSHIHIDE SHIHIKI (Department of Pediatrics, Tokyo Children's Rehabilitation Hospital, Tokyo, Japan)

O-069 Modified gross motor function measure for Fukuyama congenital muscular dystrophy
Takatoshi Sato1, MICHIRU ADACHI2, MEGUMI HIROSE2, MASAYA ZUSHI2, KEISUKE GOTO2, MOTOMICHI MASUYAMA2, AYA MATSUO2, KUMIKO ISHGURO3, MINOBU SHICHIH1, TERUMI MURAKAMI1, HUTOSHI WADA1, TETSUO IKAI3, IZUMI KONDO4, KEIKO ISHIKAGI1, SATORU NAGATA1
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O-070 A Phase I, single- and repeated-dose study of TAS-205 in patients with Duchenne muscular dystrophy
Eri Takeshita1, HIROFUMI KOMAKI1,2, YUKO MOTOHASHI1, AKIHIKO ISHIYAMA1, KAZUHISA MIYOSHI1, IKURO YAMAMIYA2, NOBUKO YAMADA2, NAOKO MINAMI3
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O-071 Urinary titin is an accurate biomarker for Duchenne muscular dystrophy detection
Hiroyuki Awano1, Masaaki Matsumoto1, Masashi Nagai1, Taku Shirakawa2, Nobuhiro Maruyama1, Yoichi Nabeshima4, Masafumi Matsuo2, Kazuomo Iijima1
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O-072 Single-institutional study of cardiac involvement in non—Duchenne/Becker muscular dystrophy
Hirokuni Yamazawa, Atsuhiro Takeda, Gaku Izumi, Osamu Sasaki, Jiro Abe, Takanori Fujimoto
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O-073 Cardiac dysfunction is later in DMD patients with mutations in the dystrophin Dp116 coding region
Tetsushi Yamamoto1, hiroyuki awano2, masaaki matsumoto2, masashi nagai2, takamitsu imanishi1, yuji nakamachi1, masafumi matsuo2, kazutomo matsumoto2, jun saegusa1
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Oral Presentation 14
Cerebral Palsy

O-074 Effect of robot—assisted gait training using Hybrid Assistive Limb (HAL) for cerebral palsy
Mayumi Matsuda1, Nobuaki Iwasaki2, Kazuhide Tomita3, Tomohiro Nakayama2, Jyunke Nakayama2, Arito Youz1, Haruka Ohguro2, Kayo Tokeji1, Kenichi Yoshikawa1, Kazushi Takahashi1, Keiko Enomoto1, Kumiko Sano1, Aoi Kubota1, Masafumi Mizukami1
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O-075 New-type cerebral palsy in extremely preterm with basal ganglia atrophy
Satoru Hirai, YUKIHIRO KITA1, KAEO OGURA, KAYO OOMURA, HIROSHI ARAI
(Morinomiya Hospital, Osaka, Japan)

O-076 Introduction of CPCHILD, a measurement of health related QOL in children with disabilities
Yoko Matsumoto, MARIKO YAGI, MIO NISHIMURA, YOKO KAWASAKI
(NikoNiko House Medicaal and Welfare Center, Kobe Japan)
O-077 Summary and consideration of VF to SMID•the utility of lateral position and supine position
Masao Morita (Funabashi Hutawa Hospital, Funabashisi, Chibaken, Japan)

O-078 Etiological characteristics in communication and swallowing function among dyskinetic cerebral palsy
Yukihiro Kitai, Kaeko Ogura, Kayo Ohmura, Satori Hirai, Hiroshi Arai (The Department of Pediatric Neurology, Morinomiya Hospital, Osaka, Japan)

Oral Presentation 15
Developmental disorder/Rehabilitation/Support
O-079 Long term outcome of developmental disorders children without mental retardation
Kanjii Yasuda (Donguri Clinic, Fuji, Japan)

O-080 How does the care of children with disorders affect the socio-economic problems of families?
Ayumi Seki1, KOJIRO UYEAMA1, KAZUHIRO OHTANI1, MADOKA TORIYAMA1, MANABU KAWATA2, HIROMICHI KATO1, SHINPEI OSAWA3, ICHIRO MATSUMOTO1
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O-081 Telemedicine in clinic of pediatric neurology in Japan
Kyoko Hoshino1, YURI NAGAO1, KAZUE KIMURA1, MASAHARU HAYASHI1, KEI HACHIMORI1, HIROAKI DOE2
(1.Segawa Memorial Neurological Clinic for Children, Tokyo, Japan, 2.Medley, Icn., Tokyo, Japan)

O-082 Study on motor and process skills of children with autism spectrum disorder
Seiya Shishido, Kenji Kihara, Satoshi Takada
(Graduate School of Health Sciences, Kobe University, Japan)

O-083 Characteristics in 3 years checkups diagnosed with developmental disorders •a retrospective study
Akiko Minekawa1, HITOMI TSUJI2
(1.Osaka City Rehabilitation Center with Disabilities, Osaka, Japan, 2.Osaka City Public Health Center, Osaka, Japan)

O-084 A survey of measures for the prevention of abuses adopted at special needs schools
Toshihiro Horiguchi (Department of Mental Health Policy and Statistics, National Institute of Mental Health, National Center of Neurology and Psychiatry, Tokyo, Japan)

Oral Presentation 16
Mental disorder/Sleep disorder
O-085 Strategy of inpatient treatment for children with eating disorder
Ryoko Otani1, AKARI ARAKAWA1,2, TAKESHI INOUE1,2, YUKI KOISHINO1, HISASHI ITABASHI2, KEIICHI SHIMAMURA1,2, NOBUYUKI MURAKAMI2, RYOICHI SAKUTA1
(1.Child Development and Psychosomatic Medicine Center, Dokkyo Medical University Saitama Medical Center, Saitama, Japan, 2.Pediatrics, Dokkyo Medical University Saitama Medical Center, Saitama, Japan)

O-086 Sleep disorder in neonates and infants are an efficient predictor of developmental disorder
Teruhisa Miike1, YUKURO KONISHI1, MAKIKO YTOOURA1, AKIO NAKAI1, SEIKI TAJIMA1,2
(1.Hyogo Children’s Sleep & Developmental Medical Research Cebter, 2.National Rehabilitation Center for Persons with Disabilities)

O-087 Effect of VPA treatment for sleep disturbance in developmental disorders
Hiroshi Shiraku1,2, Eiji Nakagawa1, Yoshimi Kaga2, Yosuke Kita2, Masumi Inagaki2
(1.Department of Child Neurology, National Center Hospital, National Center of Neurology and Psychiatry, Tokyo, Japan, 2.Department of Developmental Disorder, National Institute of Mental Health, National Center of Neurology and Psychiatry, Tokyo, Japan)

O-088 Usefulness of Kandabashi prescription for the emotional and behavioral problems of autism
Asayo Ishizaki, MICHIKO SUGAMA, NORIKO TAKEUCHI
(Oji Clinic: Division of Medicine The Japanese Association on intellectual and Developmental Disorders)
Oral Presentation 17

Acute encephalopathy

O-089 Extracellular ADP augments microglial inflammasome activation via the P2Y12 receptor
Tonomori Suzuki1,2, Kuniko Kohyama1, Setsuko Hasegawa1, Masaharu Hayashi1, Hiroshi Sakura1
(1.Department of Brain Development and Neural Regeneration, Tokyo Metropolitan Institute of Medical Science, 2.Pediatric Department, Tokyo Medical Dental University)

O-090 MYRF is associated with mild encephalopathy with a reversible splenial lesion
Hirokazu Kurahashi1, Yoshiteru Azuma2,3, Akio Masuda4, Tatsuya Okuno4, Eri Nakahara6, Takuji Imamura6, Makiko Saitoh7, Masashi Mizuguchi8, Kinji Ohno3, Akihisa Okumura1,5
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O-091 Relationship between EEG findings and neurological sequelae in pediatric acute encephalopathies
Mari Akiyama, MAKIRO OKA, Fumika Endo, TOMOYUKI AKIYAMA, KATSUHIRO KOBAYASHI
(Department of Child Neurology, Okayama University Hospital, Okayama, Japan)

O-092 Steroid pulse therapy for children predicted to develop acute encephalopathy due to cytokine storm
Yusuke Ishida1,2, HIROSHI YAMAGUCHI1,2, KAZUMI TOMIOKA2, TSUKASA TANAKA1,2, MASAIRO NISHIYAMA2, KYOKO FUJITA2, DAISAKU TOYOSHIMA1, AZUSA MARUYAMA1, HIROAKI NAGASE2, HIROSHI KUROSABA4, YOSHIYUKI UETANI3, SATOSHI TAKADA2, KAZUMOTO IJIMA2
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O-093 A nationwide survey of norovirus-associated encephalitis/encephalopathy in Japan
Taiki Shima1, Akihisa Okumura2, Shinpei Abe1, Mitsuru Ikeno2, Toshiaki Shimizu1
(1.The Department of Pediatrics, Juntendo University Hospital, Tokyo, Japan, 2.Aichi Medical University, Aichi, Japan)

O-094 Three cases of acute encephalopathy with elevated serum CRP
Gen Furukawa1, souichiro ishimaru1, naoko ishihara1, misa miyake2, hidetaka nakai1, satoru kisohara1, tetsushi yoshikawa2
(1.Toyokawa City Hospital, Aichi, Japan, 2.Fujita Health University, Aichi, Japan)

Oral Presentation 18

Autoimmune encephalopathy

O-095 The possibility of epilepsy prevention with cyclosporin A in acute encephalopathy
Tetsuhiro Fukuyama1, Shouko Yamauchi1, Yuko Hattori1, Hideko Nakajima1, Yuuji Inaba1, Shinichu Hirabayashi1, Yuka Misawa2
(1.Division of Neurology, Nagano Children's Hospital, Azumino, Japan, 2.Division of Rehabilitation, Nagano Children's Hospital)

O-096 NSE as a biomarker of neurological prognosis in children with acute encephalitis/encephalopathy
Tomokazu Kimizu, Takeshi Nakajima, Rie Nakai, Taikan Oboshi, Tae Ikeda, Yukiko Mogami, Keiko Yanagihara, Yasuhiro Suzuki
(Department of Pediatric Neurology, Osaka Women's and Children's Hospital)

O-097 Study in non-herpetic acute limbic encephalitis: evolution of activated complement in CSF
Yukitoshi Takahashi, SHIGEKO NISHIMURA, EMIKO TAKAO, RISA KASAI, KAORU ENOKIDA, YUUSHI INOUE
(National Hospital Organization Network Study West syndrome, Japan)

O-098 The clinical features and outcome of 8 patients diagnosed with autoimmune limbic encephalitis
Atsuro Daida1,2, Shin-ichiro Hamano1, Jun Kubota1, Erika Hiwatari1, Satoru Ikemoto2, Ryuki Matsuura1, Reiko Koichihiara2, Gaku Yamanaka2, Motoyuki Minamitani1, Yukitoshi Takahashi1
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The 60th Annual Meeting of the Japanese Society of Child Neurology

Development, Saitama Children's Medical Center, Saitama, Japan, 4.National Epilepsy Center, Shizuoka Institute of Epilepsy and Neurological Disorders, Shizuoka, Japan

O-099 Detailed clinical time course of acute disseminated encephalomyelitis
Masahiro Nishiyama1, Hiroaki Nagase1, Kazumi Tomioka1, Tsukasa Tanaka1, Kaori Sasaki2, Yoshinobu Oyazato2, Taku Nakagawa3, Yuichi Takami3, Hiroshi Yamaguchi1,4, Yusuke Ishida1,4, Daitsu Toyoshima4, Azusa Maruyama4, Satoshi Takada5, Kazumoto Iijima1
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O-100 Estimate pathology from cytokine analysis of cases diagnosed as “limbic encephalitis”
Hiroko Tada1,2, HIROSHI SAKUMA1, TOMONORI SUZUKI1, KUNIKO KOHYAMA1, MASAHARU HAYASHI1,3
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Oral Presentation 19
Hereditary disorder/Chromosomal aberration

O-101 Two boys of episodic ataxia type 2 with epilepsy due to a mutation in CACNA1A
Ken Nakajima1, RIE NAKAI1, taikan Oboshi1, YUICHI KIMIZU1, TAE IKEDA1, YUKIKO MIZUGUCHI1, KEIKO YANAGIHARA1, NOBUHIKO OKAMOTO2, YASUHIRO SUZUKI1
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O-102 Biallelic mutations in NALCN: Expanding the genotypic and phenotypic spectra of IHPRF1
Toshiki Takenouchi1, Mie Inaba2, Seiji Mizuno2, Takao Takahashi1, Kenjiro Kosaki2
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O-103 Familial cases with MECP2 microdeletion and gastroesophageal reflux, apnea and sick sinus syndrome
Takehiko Inui1, TAKUYA MIYABAYASHI1, RYO SATO1, YUKIMUNE OHKUBO1, NORIKO TOGASHI1, KAZUHIRO IWAMA2, TSUYOSHI MIZUGUCHI2, NAOMICHI MATSUMOTO2, KAZUHIRO HAGINOYA1
(1.Dept of Pediatric Neurology, Miyagi Children's Hospital, Miyagi, Japan, 2.Dept of Human Genetics, Yokohama City University Graduate School of Medicine, Yokohama, Japan)

O-104 A genotype-phenotype correlation study for 10 patients with 4p monosomy syndrome
Toshiyuki Yamamoto1, KEIKO YAMAMOTO-SHIMOJIMA1, MASANORI KOUWAKI2, YUKI KAWASHIMA2, KAZUYA ITOMI3, KEN MOMOSAKI3, SHIRO OZASA5, NOBUHIKO OKAMOTO6, KENJI YOKOCHI7
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O-105 MicroRNA with copy-number variation in Japanese autism spectrum disorder patients
Masahide Goto1, AYUMI MATSUMOTO1, KARIN KOJIMA1, ERIKO JIMBO1, HITOSHI OSAKA1, KEI OOHASHI1, SHINJI SAITO1, Takanori Yamagata1
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Oral Presentation 20
Epilepsy/Convulsion Diagnosis/Gene

O-106 Characteristics of epileptic seizures with CDKL5 mutation
Oral Presentation

Electrophysiology

O-112 High-amplitude fast waves during childhood provide a diagnostic clue for SENDA
Hiroyuki Kidokoro¹, Mitsuo Motobayashi², Tetsuo Kubota³, Ryoko Takano¹, Naoko Shiba², Yoko Sakaguchi¹, Yu Okai², Masaharu Tanaka¹, Yuki Maki¹, Hiroyuki Yamamoto¹, Atuko Ohno¹, Tomohiko Nakata¹, Kazuhiro Muramatsu¹, Kenji Yokochi¹, Jun Natsume¹
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O-113 Investigation of performing reasons and abnormality detection rate in pediatric EEG
Soichiro Ishimaru¹, SATORU KISOHARA¹, MISA MIYAKE², NAOKO ISIHARA²
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O-114 Central apnea due to bronchiolitis in early infancy is non-epileptic: a point-of-care EEG study

O-107 Two intractable epilepsy cases with truncating mutation in IQSEC2
Tomoko Nagase¹, Yukitoshi Takahashi¹, Tokito Yamaguchi¹, Yushi Inoue¹, Toshimitsu Suzuki², Kazuhiro Yamakawa², Mitsuhiro Kato³
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O-108 Two Japanese cases of epileptic encephalopathy with FGF12 mutation
Ryo Takeguchi¹, TAKEHIKO INUI², KAZUHIRO HAGINOYA², MICHIAKI NAGURA³, ERI TAKESHITA¹, TAKASHI SAITO¹, EJII NAKAGAWA¹, KENJI SUGAI¹, MASAYUKI SASAKI¹, YURI UCHIYAMA⁴, ATSUSHI FUJITA⁴, MITSUO NAKASHIMA⁴, HIROTONO SAITSU⁴, NAOMICHI MATSUMOTO⁴
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O-109 Three patients with excessive X-chromosomes complicated with focal epilepsy
Mayuko Shirakura¹, Yasushi Ito¹-², Eriko Mizoguchi¹, Kaori Kawano¹, Nozomi Ishii¹, Kazuhiro Kabe², Hirokazu Ogumi², Satoru Nagata³
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O-110 The efficacy of gabapentin in a girl with early-onset epilepsy demonstrating severe hypertonus
Yugo Tsukada¹, RYUTA TANAKA¹, FUJIKO FUKUSHIMA¹, RYUTARO SUZUKI¹, TAKURO SATO¹, ISHO IZUMI¹, SHOHEI KUSABIRAKI², TAKASHI SAITO², GAKU MINASE³, SATOKO MIYATAKE³, NAOMICHI MATSUMOTO³, MITSUHIRO KATO⁴
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Oral Presentation21

The 60th Annual Meeting of the Japanese Society of Child Neurology

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Comparison of clinical features between Panayiotopoulos syndrome and acute encephalopathy
Saori Kawakami¹, Hiroshi Terashima², Akira Ishiguro¹, Masaya Kubota²
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O-115 Reduced-lead electroencephalography among children with altered mental status in the ER
Hiroshi Yamaguchi¹,², YUSUKE ISHIDA¹,², KAZUMI TOMIOKA², TSUKASA TANAKA¹,², MASAHIRO NISHIYAMA², DAISUKE TOYOSHIMA¹, AZUSA MARUYAMA¹, HIROAKI NAGASE³, SATOSHI TAKADA³, YOSHIYUKI UETANI³, KAZUMOTO IIJIMA³
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O-116 A study on high frequency oscillations associated with spikes in scalp sleep EEG in childhood
Yuji Ohuchi¹,² Tomoyuki Akiyama¹, Yuki Hyoudou¹, Hiroki Tsuchiya¹, Yoshiyuki Hanaoka¹, Takashi Shibata¹, Mari Akiyama¹, Fumika Endo¹, Makio Oka¹, Katsuhiko Kobayashi¹
(1.Department of Child Neurology, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences and Okayama University Hospital, Okayama, Japan, 2.Department of Pediatrics, Tohoku University School of Medicine, Sendai, Japan)

O-117 Laterality of the frontal lobe function in empathy: an EEG frequency analysis study
Tetsuo Ohyama¹, Yusuke Goto¹, Kakuro Aoyagi¹, Sayaka Ishii¹, Hideaki Kanemura¹, Masao Aihara²
(1.Department of Pediatrics, University of Yamanashi, Yamanashi, Japan, 2.Graduate Faculty of Interdisciplinary Research Graduate School Yamanashi University)

O-118 Study of high frequency oscillations in the cases of absence status epilepticus in childhood
Satoru Ikemoto¹,² Shin-ichiro Hamano¹, Ryuki Matsuura¹,², Atsuro Daida¹, Jun Kubota¹,², Erika Hiwatari¹, Motoyuki Minamitani¹
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Oral Presentation

Epilepsy/Convulsion Epilepsy surgery

O-119 How to select callosotomy or VNS
Kentaro Tamura¹, Takafumi Sakakibara²
(1.The Department of Neurosurgery, Nara Medical University, Kashihara, JAPAN, 2.The Department of Pediatrics, Nara Medical University, Kashihara, JAPAN)

O-120 Corpus callosotomy for intractable epilepsy- Clinical outcome and complications- Kenichi Usami¹, Hiroshi Terashima², Masaya Kubota²
(1.Division of Neurosurgery, National Center for Child Health and Development, Tokyo, Japan, 2.Division of Neurology, National Center for Child Health and Development, Tokyo, Japan)

O-121 Features of children reached epileptic focal resection by MRI-negative but functional brain imaging
Yoshihiko Saito¹, KENJI SUGAI¹, ERI TAKESHITA¹, YUKO MOTOHASHI¹, AKIHIKO ISHIYAMA¹, TAKASHI SAITO¹, HIROFUMI KOMAKI¹, EIJJI NAKAGAWA¹, NORIKO SATO², AKIYOSHI KAKITA³, YUKO SAITO⁴, TAI SUKE OTSUKI⁵,⁶, MASAKI IWASAKI⁶, MASAYUKI SASAKI¹
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O-122 Prognostic factors for seizure control after corpus callosotomy for pediatric intractable epilepsy
Ryoko Honda¹, YOSHIAKI WATANABE¹, TOMONORI ONO², KEISUKE TODA³, TADATERU YASU¹, SHIGEKI TANAKA¹, HIROSHI BABA⁴
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O-123  Resective surgery for epileptic foci overlapping motor and sensory language areas in a case with TSC
Tohru Okanishi1, AYATAKA FUJIMOTO2, SOTARO KANAI3, SHINJI ITAMURA3, SHINPEI BABA1, HIDEO EOKI1
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Oral Presentation 23

Image
O-124  Efficacy of callosotomy in 3 cases of intractable epilepsy with subcortical band heterotopia
Yoshiaki Watanabe1, RYOKO HONDA1, TOMONORI ONO1, TOSHIRO IKEDA2, KEISUKE TODA3, HIROSHI BABA4
(1.Epilepsy Center, National Nagasaki Medical Center, Omura, Japan, 2.Division of Pediatrics, Department of Urological-Reproductive and Developmental Medicine, Faculty of Medicine, University of Miyazaki, 3.Department of Neurosurgery, National Nagasaki Kawatana Medical Center, Kawatana, 4.Epilepsy Center, Nishi-Isahaya Hospital, Isahaya, Japan, 5.Bethel Epilepsy Center, Miyagi, Japan)

O-125  Analysis of patients with focal cortical dysplasia presenting high intensity on T1-weighted images
Yoshiki Oitani1, YUKIO KIMURA2, KENJI SUGAI1, YUKO SAITO3, NAOKI IKEGAYA4, MASAKI IWASAKI4, ERI TAKESHI4, YUKO MOTOHASHI1, TAKASHI SATO1, HIROFUMI KOMAKI1, EJI NAKAGAWA1, AKIYOSHI KAKITA5, NORIKO SATO2, MASAYUKI SASAKI1
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O-126  Curved planar reformation for the evaluation of the hydromyelia
Fumitaka Yoshioka, Shoko Shimokawa, Yukinori Takase, Tomihiro Wakamiya, Atsushi Ogata, Yukiko Nakahara, Jun Masuoka, Tatsuya Abe
(Department of Neurosurgery, Saga University, Saga, Japan)

O-127  Assessment of language neuroplasticity mechanisms in childhood using fMRI and dMRI
Takumi Mitsuhashi1, Hidenori Sugano1, Madoka Nakajima1, Takuma Higo1, Yasushi Iimura1, Hiroharu Suzuki1, Hajime Arai1, Keiko Asano2, Takayuki Nakajima3, Toshihisa Tanaka3
(1.Department of Neurosurgery, Juntendo University, Tokyo, Japan, 2.Department of General Education, Juntendo University, Tokyo, Japan, 3.Department of Electrical and Electronic Engineering, Tokyo University of Agriculture and Technology, Tokyo, Japan)

O-128  Safety and potency of sedative drug in infants and young children undergoing MRI
Shotaro Kaku1,2, Koichi Mizuguchi4, Hirokazu Sakai5, Hitoshi Yamamoto1
(1.St. Marianna University School of Medicine, Department of Pediatrics, Kanagawa, Japan, 2.National Center for Child Health and Development, Interdisciplinary Medicine, Tokyo, Japan, 3.Saitama Medical Center, Department of Pediatrics, Saitama, Japan, 4.Social welfare service corporation Minatosha Life YU, Kanagawa, Japan, 5.Department of Pathology, Brain Research Institute, University of Niigata, Niigata, Japan)

Oral Presentation 24

Developmental disorder ADHD
O-129  Effective combination therapy of methylphenidate and atomoxetine for AD/HD
Mituhiro Matsuo1, AKIKO FJII1, KAZUNORI MOTYOMAI1, TAMAO NAGAO1, MUTSURO MIYAZAKI1, KOARU MORIYAMA1, TETSUO MATSUZAKA2
(1.Nagasaki Prefectural Children's Medical Welfare Center, Japan, 2.Support Center for Children, Women and People with Disabilities)

O-130  Effect of guanfacine in the patients of ADHD with comorbid disorders
Eiji Nakagawa
(Department of Child Neurology, National Center Hospital, National Center of Neurology and Psychiatry, Tokyo, Japan)
O-131 Clinical experience of guanfacine therapy for 42 ADHD cases
Michiko Sugama, ASAYO ISHIZAKI
(Oji Clinic: Division of Medicine, The Japanese Association on Intellectual and Developmental Disorders, Tokyo, Japan)

O-132 Clinical course of Guanfacine on 67 patients with ADHD
(38 patients with TS): Effectiveness
Yuki Nago, YURI NAGAO, KAZUE KIMURA, MASAHARU HAYASHI, KEI HACHIMORI
(Segawa Memorial Neurological Clinic for Children, Tokyo, Japan)

O-133 Clinical course of Guanfacine on 67 patients with ADHD (38 patients with TS): Adverse effect
Yumi Nago, KYOKO HOSHINO, KAZUE KIMURA, JUN UCHINO, MASAHARU HAYASHI, KEI HACHIMORI
(Segawa Memorial Neurological Clinic for Children, Tokyo, Japan)

O-134 The altered structural network in children with ADHD
Yoshifumi Mizuno, MINGYOUNG JUNG, SHINICHIRO TAKIGUCHI, AKEMI TOMODA
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O-135 Acute flaccid myelitis: Results of surgical reconstruction
Kazuteru Doi
(Department of Orthopedic Surgery, Ogori Daiichi General Hospital, Yamaguchi, Japan)

O-136 A case of familial episodic pain syndrome with SCN11A mutation
Fumie Tanaka, Tomohide Goto, Eri Ogawa, Shiomi Tanaka, Asami Ito, Kenji Kurosawa, Kenjiro Kosaki
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O-137 Kampo therapy for chronic headache in children
Eiji Kurihara
(Department of Neuropediatrics, Tokyo Metropolitan Neurological Hospital, Tokyo, Japan)

O-138 Effectiveness of riboflavin in pediatric migraine prevention
Mika Takeshita, Gaku Yamanaka, Soken Go, Tomoko Mori, Yu Ishida, Shinichirou Morichi, Natsumi Morishita, Shingo Oana, Hisashi Kawashima
(Department of Pediatrics, Tokyo Medical University, Tokyo, Japan)

O-139 A Wilson disease patient with acute onset of neurologic symptoms treated by trientine
Norikazu Shimizu, AYUMI HAYASI, AKIKO NISHIHRA, TSUGUTOSHI AOKI
(Department of Pediatrics, Toho University School of Medicine, Ohashi Medical Center)

O-140 Correlations between Brain image and molecular and biochemistry findings in female Fabry patients
Kaoru Eto, Arif Hossein, Hiroko Yanagisawa, Ninji Miyazawa, Wu Chen, Yoshikatsu Eto, Satoru Nagata
(1. Tokyo Women’s Medical University, Department of Pediatrics, 2. Advanced clinical research center and Asian LSD center, Institute of Neurological disorders)

O-141 Four cases of Mucolipidosis type II/III with neurological symptoms due to spinal cord compression
Hidehito Kondo, Yusuke Hamada, Takanobu Otomo, Kenichi Sakamoto, Sachiko Nakaoka, Toko Shibuya, Norio Sakai, Keiichi Ozono
(1. Department of Pediatrics, Osaka University Graduate School of Medicine, Osaka, Japan, 2. Department of Pediatrics, Japan Community Health case Organization Osaka Hospital, Osaka, Japan, 3. Department of Pathophysiology and Metabolism, Kawasaki Medical School, Osaka, Japan)
Development of the second generation chaperon compound for GM1-gangliosidosis
Eiji Nanba, Katsumi Higaki
(Division of Functional Genomics, Research Center for Bioscience and Technology, Tottori University)

Can we treat Leigh syndrome due to ECHS1 deficiency?
Ikuko Shirai1, ERIKA OGAWA2, KEI MURAYAMA3, AKIRA OHTAKE1, HIDEAKI MASHIMO1, HIROYA NISHIDA1, YOHANE MIYATA1, EJJI KURIHARA2, SATOKO KUMADA1
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2 patients of MELAS with Hyperosmolar hyperglycemic state
Masahiro Ito, HISAMITSU TAMAKI, RYUTAROU YAMADA
(Tokyo Metropolitan Bokuto Hospital, Tokyo Japan)

Therapeutic regimen of L-arginine for patients with MELAS
Yasutoshi Koga1, EISUKE INOUE2, HIDEFUMI NAKAMURA2, YASUHIRO SUZUKI5, MASAYA KUBOTA3, katsunori FUJII4
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Oral Presentation 27
Neonatal/Perinatal injury

Multimodality MR imaging and analysis in preterm infants
Mitsuru Ikeno1, shinpei abe1, taiki shima1, masaaki hori2, shinichi nijima3, shigeki aoki2, toshiaki shimizu1
(1.Department of Pediatrics Juntendo University Faculty of Medicine, Tokyo, Japan, 2.Department of Radiology Juntendo University Faculty of Medicine, Tokyo, Japan, 3.Deportment of Pediatrics, Juntendo University Nerima Hospital, Tokyo, Japan)

The neonatal disseminated cerebral hemorrhage
Kensuke Fujishiro1, Katsunori Fujii1, Tomoko Uchida1, Tadashi Shiohama1, Katsuki Sugita2, rie Sakamoto3, Eiji Katou1, Naoki Shimojyou1
(1.Pediatrics, University of Chiba, Chiba, Japan, 2.Department of Education, University of Chiba, Chiba, Japan, 3.Neurology, Funabashi Central Hospital, Funabashi, Japan)

Relationships between DWI/MRS at acute phase and development of West syndrome among HIE patients
Akihito Takeuchi1,2, Motoharu Ochi1,3, Mariko Hattori1, Takushi Inoue2,3
(1.Division of Neonatology, NHO Okayama Medical Center, 2.Division of Neuropediatrics, NHO Okayama Medical Center, 3.Department of Pediatrics, NHO Okayama Medical Center)

Correlation between maturational delay on aEEG and DQ at 18 months of corrected age
Toru Kato, Ryosuke Suzui, Takeshi Tsuji, Fumio Hayakawa
(Department of Pediatrics, Okayama City Hospital)

The clinical study for the very low birth weight babies with posthemorrhagic hydrocephalus
Yuya Sato1, Kyoko Hirase1, akiko Takeshita1, ken imai2, satoru nagata1
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Developmental outcomes of very low birth weight babies with intraventricular hemorrhage
Kyouko Hirase1, Akiko Takeshita1,2, Yuya Sato1, Ken Imai2, Satoru Nagata1
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Neurodevelopmental outcomes at 3 years of age in infants born with a birth weight of 500g or less
Hirosuke Inoue1,2, YUKI MATSUSHITA1,2, MASAYUKI OCHIAI1,2, YOSHITO ISHIZAKI1, MASAYUKI SANEFUJI1, YASUNARI SAKAI1, SHOUICHI OHGA1,2
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**Oral Presentation 28**

Neurodegenerative disease

O-153 MR spectroscopy in seven patients with TUBB4A—associated hypomyelinating leukoencephalopathies

Kentaro Sano1, Yuka MUROFUSHI2, YOKO MORIYAMA2, NAOKI ANDOU3, MITSURU IKENO1, KEN INOUE3, HITOSHI OSAKA4, TOMOHIDE GOTO5, MASAYUKI SASAKI6, KAZUHIRO HAGINOYA8, MASAFUMI MORIMOTO9, TAKAHIITO WADA10, JUN-ICHI TANAKASHI12

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O-154 Childhood-onset cerebellar atrophy In Japan: Questionnaire survey of pediatric neurologists

Hiroya Ono1, YUUKO MOTOHASHI1, KAZUSHI MARUO2, ERI TAKESHITA1, TAKASHI SAITO1, AKIHİKO ISHIYAMA1, HIROFUMI KOMAKİ1, EIJI NAKAGAWA1, KENJI SUGAI1, MASAYUKI SASAKI1

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O-155 Functional analysis of neuronal disease by direct conversion from fibroblasts to nerve cells

Yurika Uematsu1, MITSUGU UEMATSU1, RYOU SATO1,2, KEN INOUE1, SHIGEO KURE1

(1. The Department of Pediatrics, Tohoku University School of medicine, Sendai, Japan, 2. Miyagi children’s Hospital, Sendai, Japan, 3. Department of mental retardation and birth defect research, national center of neurology and psychiatry, Kodaira, Japan)

O-156 Transient hyperintensity and swelling in globus pallidus and substantia nigra suggests SENDA/BPAN

Akihiko Ishiyama1,2, Yoshihiko Saito1, Yusaku Miyamoto4, Eri Takeshita1, Yuko Motohashi1, Takashi Saito1, Hirofumi Komaki1, Eiji Nakagawa1, Kenji Sugai1, Noriko Sato1, Ichizo Nishino2, Masayuki Sasaki1

(1. Department of Child Neurology, 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, 3. Department of Radiology, National Center Hospital, National Center of Neurology and Psychiatry, Tokyo, Japan, 4. Division of Pediatrics, Kawasaki Municipal Tama Hospital, St. Marianna University School of Medicine, Kanagawa, Japan, 5. The division of pediatric neurology, National Center of Neurology and Psychiatry hospital, Tokyo, Japan)

O-157 Siblings of acyl CoA oxidase deficiency caused by a novel ACOX1 gene mutation

Takashi Enokizono1, Nobuyuki Shimosawa2, Atsushi Morita1, Shiena Watanabe1, Mai Tanaka1, Tatsuyuki Ohto1, Kazuhiro Iwama1, Takeshi Mizuguchi3, Naomichi Matsumoto1

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**Oral Presentation 29**

Cerebrovascular disease/Neurosurgery

O-158 The analysis of intracranial hemorrhage cases with continuous EEG monitoring

Masataka Fukuoka1, Hisashi Kawakami2, Kiyohiro Kim3, Takeshi Inoue4, Megumi Nukui1, Ichiro Kuki1, Shin Ozakazi1, Noritsugu Kunihiro2, Yasuhiro Matsuzaka2, Junichi Ishikawa2, Kiyoko Amo3, Masao Togaya3, Atsushi Ujiiro1, Hiroshi Rinka9

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O-159 Seven cases of childhood cerebrovascular disease entering our intensive care unit: A case series

Yuko Nakamura1, TAKEHIRO NIITSU1, RYOUSUKI HUKUSHIMA2, IKUYA UETA1, Motoyuki MINAMITANI3, SHINICHIRO HAMANO3

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O-160 Current status and problems of regional medical relationship in pediatric neurosurgery
Yasuhiro Matsusaka, Noritsugu Kunihiro, Hiroaki Sakamoto
(The Department of pediatric neurosurgery, Osaka City General Hospital)

O-161 Radiographic feature and pathogenesis of subdural hematoma in shaken baby syndrome
Takumi Yamanaka1,2, ATSUKO HARADA2, DAISUKE SAKAMOTO2,4, HIDETSUNA UTSUNOMIYA3
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Oral Presentation 30
Epilepsy/Convulsion
O-162 Clinical usefulness of [11C] -DPA-713 PET-CT in identifying epileptogenic regions
Ryoko Hayashi1,2, KURIKO SHIMONO1,2,3, MIKA HIROTSUNE1,2, YOSHIKO IWATANI1,2,3, MASAYA TACHIBANA1,2, KOJI TOMINAGA1,2, SHIN NABATAME1,2, IKUKO MORII2, SATORU OSHINO1, HIROKI KATO3, HARUHIKO KISHIMA2,4, Keiichi Ozono1,2, MASAKO TANIKE1,2
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O-163 Two cases of ring chromosome 20 syndrome with non—convulsive status epilepticus
Hirokazu Yamagishi1, MASAHIDE GOTO1, HITOSHI OSAKA1, MARI KUWASHIMA1, KAZUHIRO MURAMATSU1, KEN SUKE WAKAI1, TAKANORI YAMAGATA1
(1.Department of pediatrics, Jichi Medical University, Shimotsuke, Japan, 2.Department of neurological surgery, Jichi Medical University, Shimotsuke, Japan)

O-164 New ketogenic diet without calculation and weighing of foods (NY method)
Keiko Yanagihara, TAIKAN OBISHI, RIE NAKAI, YUUICHI KIMIZU, TAE IKEDA, YUKIKO MOGAMI, YASUHIRO SUZUKI
(Graduate School of Pediatrics, Osaka Women’s and Children’s Hospital)

O-165 Switching from CBZ to LCM improved hypernatremia in 6 patients with SMID
Tomohiro Fujii, Tomoko Kirino, Yumi Fujihara, Shigeihiro Nagai (National Hospital Organization Shikoku Medical Center for Children and Adult s, Kagawa, Japan)

O-166 Significance of Midazolam during a concomitant administration of Carbapenem and Valproate
Satoko Koga, ATSUSHI ARAKI, KAZUNARI KANEKO
(The Department of Pediatrics, Kansai Medical University, Osaka, Japan)

O-167 Efficacy of antiepileptic drugs for focal cortical dysplasia type IIb patients with MTOR mutations
Takao Komatsubara1, moemi houjou1, shinichi magara1, yuu kobayashi1, jun tooyama1, naoya hasegawa2, hiroshi shirozu3, hiroshi masuda3, masashi fukuda3
(1.Nishi-Niigata Chuo National Hospital, Niigata, Japan, 2.Nishi-Niigata Chuo National Hospital, Niigata, Japan, 3.Nishi-Niigata Chuo National Hospital, Niigata, Japan)

Oral Presentation 31
Febrile seizure
O-168 Adherence among pediatricians to the Guidelines for Management of Febrile Seizures 2015
Masaharu Tanaka1, Jun Natsume1,2,3, Kuniai Iyoda4, Hideaki Kanemura3, Masaya Kubota3, Noriko Kojimahara3, Takuya Tanabe3, Harumi Yoshinaga3, Shinichi Nijima3, Shinichiro Hamano3, Masakazu Mimaki3, Hideo Sugie3, Tokiko Fukuda3, Yoshihiro Maegaki3
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O-169 Prevalence of epilepsy after febrile seizure including older child
Motoko Ogino1,2, Mitsuru Kashigai2, Takuya Tenabe1, Chizuh Ooba2, Shohei Nomura2, Sosuke Yoshikawa1, Shuichi Shimakawa1, Koji Azumakawa4, Hiroshi Tamai1
(1.Department of Pediatrics, Osaka Medical College Hospital, Osaka, Japan, 2.Division of Pediatrics, Hirakata City Hospital, Osaka, Japan, 3.Department of Pediatric Neurology, Tanabe Pediatric Clinic, Osaka, Japan, 4.Department of Pediatrics, First Towakai Hospital, Osaka, Japan)

O-170 Clinical complex of febrile seizure
Mitsuru Kashigai1, TAKUYA TANABE2, MOTOKO OGINO13, Chizuh Oba4, SHOHEI NOMURA4, SOSUKE YOSHIKAWA4, SYUICHI SHIMAKAWA4, KOUJI AZUMAKAWA4, HIROSHI TAMI4
(1.Department of Pediatrics, Hirakata City Hospital, 2.Division of Pediatric Neurology, Tanabe Pediatric clinic, 3.Department of Pediatrics, Osaka Medical College, 4.Department of Pediatrics, Dainichitowakai Hospital)

O-171 Clinical manifestation and treatment in patients with frequent febrile seizures
Nobusuke Kimura, YOSHIHISA HIGUCHI, IDUMI NAKAMORI, TAKAHIRO HAYASHI
(Department of Pediatrics, Red Cross Otsu Hospital, Shiga, Japan)

O-172 Case reports of febrile seizures with atonic seizures
Taro Kitamura, MITSUJI MORIYA, RIKIO SUZUKI, TOSHIYUKI NISHIO, MASARU TAKAYANAGI, TOSHIHO OHURA
(Division of Pediatrics, Sendai City Hospital, Sendai, Japan)

Oral Presentation

32 Spinal muscular atrophy
O-173 Nusinersen therapy for SMA under the cooperation between pediatrician and anesthesiologist
Masashi Nagami1, Hiroyuki Awano2, Masaaki Matsumoto3, ryousuke Bo4, Kazumi Tomioka1, Tsukasa Tanaka1, Masahiro Nishiyama4, Kaori Maeyama2, Hiroaki Nagase2, Norihiko Obata1, Satoshi Mizobuchi1, Hisahide Nishio2, Kadomoto Iijima1
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Oral Presentation

33 Palliative medicine/Home care

O-179 Advance care planning for adolescent patients with life-threatening neurological conditions
Nobuyuki Yotani1, Yoshiyuki Kizawa1, Haruo Shintaku2
(1.Department of Palliative Care, National Center for Child Health and Development, 2.Kobe, Japan, 3.Osaka, Japan)

O-180 Care for 3 severe disabled patients in end of life supported by home medical care
Keitaro Yamada1, Takeshi Suzuki1, Yosuke Hosokawa1, Naoko Kurahashi1, Koichi Maruyama1, Kozaburo Aso2
(1.Department of Pediatric Neurology, Aichi Prefectural Colony Central Hospital, Kasugai, Aichi, 2.Aichi Prefectural Colony Koboto institution, Kasugai, Aichi)

O-181 Think about the current state of adult transitional medicine for pediatric neurological diseases
Sunao Tomita1, ASAMI ITOH1,2
(1.The Department of Neurology ,Tokyo Metropolitan Children’s Medical Center,Tokyo,Japan, 2.The Department of Pediatrics,Hiratsuka City Hospital ,Kanagawa,Japan)

O-182 Analysis of psychological change to disabled child by experience-based training to medical student
Ryo Tanabe, ATSUKO WAKUI, MITSUKO ISHII
(Department of Child Neurology, Chiba Rehabilitation Center, Chiba, Japan)

O-183 Respite service for severely disabled children who need respiratory support at home
Yukiko Mizutani, makoto Nabetani, Michiru Sasaki, Satoshi Mizutani
(Yodogawa Christian Hospital,Osaka,Japan)

O-184 Transition to adult medical care from pediatric neurology in the same facility of general hospital
Kaori Miyana1, Setjiro Aso1,2
(1.Japanese Red Cross Medical Center, Tokyo, Japan, 2.Aso Child Clinic, Tokyo, Japan)

Poster Presentation

P-001 Usability of the specific chronic diseases in childhood database using TSC data
Tetsuya Okazaki1,2, TOMONARI AWAYA2, MASAHARU HAYASHI3, HIROFUMI KOMAKI4, AKINORI MORICHI5, NAOKO KAKEE5
(1.Division of Child Neurology, Department of Brain and Neurosciences, Faculty of Medicine, Tottori University, Yonago, Japan, 2.Department of Anatomy and Developmental Biology, Kyoto University Graduate School of Medicine, Kyoto, Japan., 3.College of Nursing and Nutrition, Shukutoku University, Tokyo, Japan, 4.Department of Child Neurology, National Center Hospital, National Center of Neurology and Psychiatry, Tokyo, Japan.)

P-002 Development of Web registration system for Neurofibromatosis type 1 in childhood
Keiko Uda1, muneaki matsuo2, yuichi yoshida3, chikako nishikori1 1.Saga-Ken Medical Centre Kouseikan ,Saga,Japan, 2.Saga University Hospital,Saga,Japan, 3.Tottori University Hospital,Tottori,Japan, 4.Kobe University Hospital,Hyogo,Japan)

P-003 A case of infantile hemangiomia mimicking to Sturge-Weber syndrome
Chihiro Oba, Katsunori Fujii, Kote Nagaoa, Hironobu Kobayashi, Naoki Saitou, Tomoko Uchida, Tadashi Shiohama, Naoki Shimjo (Department of Pediatrics, Chiba University Graduate School of Medicine, Chiba, Japan)

P-004 The gastrointenstinal complications of 2 patients with xeroderma pigmentosum type A
Rie Miyata1, Asuka Yamaguchi1, Atsuko Arisaka1, Satoshi Araki2, Masaharu Hayashi3
(1.The Department of Pediatrics, Tokyo-kita Medical Center, Tokyo, Japan, 2.The Department of Pediatrics, Nerima Hikarigaoka Hospital, Tokyo, Japan, 3.School of Nursing, Shukutoku University)

P-005 Multimodality MR imaging analysis in the case of hemimegalencephaly caused by mutation of PIK3CA
Mika Nakazawa1,2, MITSURU IKENO1, SHINPEI ABE1, TAIKI SHIMA1, SHINICHI NIJIMA3, TOSHIKI SHIMIZU3, MADOKA NAKAJIMA1, HIDENORI SUGANO4
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Poster Presentation02

P-007 Tuberous sclerosis complex: our experience in 9 cases
Hitoshi Kashiki, CHIDURU IKEDA, HIDEKAZU TACHIBANA, MAMI FUKUMA, TAKUMI OKADA, TOMOYUKI SHIMADU, HIROE UENO, HOSEKI IMAMURA
(Kumamoto Saishunso National Hospital, Kumamoto, Japan)

P-008 The characteristics of Tuberous Sclerosis Complex diagnosed at prenatal or neonatal period
Go Takei, ITARU HAYAKAWA, NAHOKO UEDA, RYOSUKE URABE, TETSUHARU KAMIOKA, SATO SUZUKI, HIROSHI TERASHIMA, MASAYA KUBOTA
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P-009 Team approach for Tuberous Sclerosis in Tokyo Medical University Hospital
Yu Ishida1, GAKU YAMANAKA1, MIKA TAKESHITA1, NATSUMI MORISHITA1, TOMOKO MORI1, SHINICHIRO MORIchI1, SOKEN GO1, YASUYUKI MORISHIMA1,2, SHINGO OANA1, HIRONAO NUMABE1,2, HISASHI KAWASHIMA1
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P-010 Gene expression profile corresponding to autism-like behaviors in mouse models of tuberous sclerosis
Hiroyumi Kashii1,2,3, ATSUSHI SATO2,4, SHINYA KASAp, YOKO HAGINOp, HIROKO KOTAJIMA1, MIHO TANAKA3, TOSHIYUKI KOBAYASHI1, OKIO HINOp, KAZUTAKA IKEDA2, AKIRA OKA1,4, MASASHI MIZUGUCHI1
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P-011 A case of TSC and hemihypertrophy caused by somatic mutation and successfully treated with sirolimus
Konomi Shimoda1, HIROYUKI IWASAKI2, TAKAYUKI MORI1, YU KAKIMOTO1, AKATSUKI TANAKA1, ATSUSHI SATO1, AKIRA OKA1, MASASHI MIZUGUCHI1
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P-012 Importance of the comprehensive medical care for patients with tuberous sclerosis complex in TWMU
Aiko Nishikawa, Susumu Ito, Yui Otani, Hirokazu Oguni, Satoru Nagata
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P-013 Glioblastoma secondary to tuberous sclerosis: a case who required emergent surgery
Hiromitsu Miura1, Takahiro Motoki1, Kaoiri Hino1, Toshihiro Jogamoto1, Akira Makino2, Mitsumasa Fukuda2, Eiichi Ishii1
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Poster Presentation03

P-014 A case of PHACE syndrome
Effectiveness of inhaled tobramycin for refractory pneumonia in severely-retarded children
Yoshimichi Hirayama (Department of Pediatrics, Naha City Hospital, Okinawa, Japan)
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Poster Presentation

P-021 The method to estimate stature from tibial length on the adults with severe cerebral palsy
Kenji Kihara1,2, Mariko Yagi3, Yoko Kawasaki3, Yoko Matsumoto3, Mio Nishimura3, Satoshi Takada2
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P-022 Age-related swallowing disorders in persons with severe motor and intellectual disabilities
Naoyuki Tanuma1, SO ATSUMI1, KEIKO TOMINAGA2 (1)Department of Pediatrics, Tokyo Metropolitan Fuchu Medical Center for the Disabled, Tokyo, Japan, 2.Department of Internal Medicine, Tokyo Metropolitan Fuchu Medical Center for the Disabled, Tokyo, Japan

P-023 Qing-fei-tang (Seihai-to) could improve the respiration of children with disabilities
Yuri Dowa, Mio Watanabe, Kyoko Hazama, Takashi Shiihara (Department of Neurology, Gunma Children's Medical Center, Shibukawa, Japan)
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P-024 Effectiveness of inhaled tobramycin for refractory pneumonia in severely-retarded children
Yoshimichi Hirayama (Department of Pediatrics, Naha City Hospital, Okinawa, Japan)
(1)Department of Pediatrics, Naha City Hospital, Okinawa, Japan
P-025 Evaluating the effect of intrathecal baclofen therapy on a cerebral palsy patient using Actigraphy
Nahoko Katayama-ueda, RYOSUKE URABE, TETSUHARU KAMIOKA, YU KAKIMOTO, GO TAKEI, HIROSHI TERASHIMA, MASAYA KUBOTA (Division of Neurology, National Center for Child Health and Development, Tokyo, Japan)
(Division of Neurology, National Center for Child Health and Development, Tokyo, Japan)

P-026 The management for dyspnea in 2 cases of SMIDs with NPPV and BTX
Takanori Ezoe, HARUMI SAIJOU, KATSUHITO ARAKI, SUI SONE (Tokyo Metropolitan Medical Center for severly Disabled and Handicapped)

Poster Presentation05

P-027 The role of Respiratory Care Team
Shiho Honzawa1, ERIKO NAKANO2, SAIKO TANAKA2, MASAMICHI OOKI3, KUNIKO KOYAMA1, TATSUO MASUYAMA1, YUJI IWASAKI1, MAKIKO KAGA1 (1.Tokyo Metropolitan Tobu Medical Center for persons with developmental/multiple disabilities,Tokyo,Japan, 2.Tokyo,Japan, 3.Tokyo,Japan)

P-028 Long-term prognosis of epilepsy in patients with cerebral palsy
Yoshiko Tsubouchi1,2, AYAKO TANABE3, YOSHIHIRO MAEGAKI2 (1.Department of Pediatrics, National Hospital Organization Yonago Medical Center, Yonago, Japan, 2.Division of Child Neurology, Faculty of Medicine, Tottori University, Yonago, Japan, 3.Department of Pediatrics, Tottori Prefectural Rehabilitation Center for Children with Disabilities, Yonago, Japan)

P-029 Constraint-induced movement therapy for 4 children aged 1 to 3 years with hemiplegia
Hisashi Tsuru1, Nozomi Sano1, Tomoe Samesima2, Chihiro Yonee2 (1.Dept of Pediatrics, Kagoshima Prefectural Hokusatsu Hospital, Kagosima, Japan, 2.Dept of Pediatrics, Minamikyusyu Hospital, Kagosima, Japan)

P-030 The utility of parent-child hospitalization for rehabilitation from the viewpoint of family support
Megumi Shiota, NAOTO YAMAGUCHI, JUNKO OHINATA (National Rehabilitation Center for Children with Disabilities)

P-031 Infection control at hospital-homes for persons with severe motor and intellectual disabilities
Hidee Arai1, Sumio Kai2, Atsuo Nezu1, Maiko Kita1, Takeya Awasima1, Makiko Kurosawa1, Hiroshi Take1, Yuka Masuda1, Naoko Miura1, Jii Yaguchi1, Ayaka Kouno1, Noboru Ogahara1 (1.Yokohama Medical and Welfare Centre, Konan, Yokohama, Japan, 2.Yokohama Residential Care and Medical Centre for Developmentally Disabled Person, Yokohama, Japan)

P-032 Mechanical ventilator seminar for home-visit nursing
Shigenori Yamamoto1, YUKIKO KAWAGUCHI2, HOSHO TSUCHIYA3 (1.Department of Pediatrics, NHO Shimoshizu National Hospital, Yotsukaido, Japan, 2.NHO Shimoshizu National Hospital, Yotsukaido, Japan, 3.NHO Shimoshizu National Hospital, Yotsukaido, Japan)

Poster Presentation06

P-034 Home health service in children with chronic neurologic disease
Mariko Maezawa1, Kayo Fukuoka1, Rumiko Sueoka1, Terumasa Tsushima1 (1.Tsurumi University, Department of Dental Hygiene, Yokohama, Kanagawa, Japan, 2.Azabu Kouki clinic, Tokyo, Japan)

P-035 Survey results of acceptence of emergency patients in hospitals for persons with SMID
Yoko Kawasaki, YOKO MATUMOTO, MIO NISHIMURA, MARIKO YAGI (Nikinikohouse medical and welfare center, Hyogo, Japan)

P-036 The questionnaire of home medical treatment in Akita
Tamami Yano1, MIYUKI TOYONO2, TSUTOMU TAKAHASHI1 (1.Department of Pediatrics, Akita University Graduate School of Medicine, Japan, 2.Akita Prefectural Center on Development and Disability)

P-037 Our comprehensive promotion of support for home-care patients' discharge from our hospital
The 60th Annual Meeting of the Japanese Society of Child Neurology

Kyoko Fujita, YOSHIAKI CHOU, YUKIYA KURAHASHI, MASAYO TSUDA, KATSUNORI KAMIMURA, AZUSA MARUYAMA, RYOJIRO TANAKA, TERUKO TAKUMI, YOSHIYUKI UETANI
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P-038 True needs revealed from questionnaires to families using short-term residential facility for child
Sato Suzuki—muromoto, NAHOKO KATAYAMA-UEDA, RYOSUKE URABE, ITARU HAYAKAWA, TETSUHARU KAMIOKA, GO TAKEI, HIROSHI TERASHIMA, NOBUYUKI YOTANI, MASAYA KUBOTA
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P-039 Current status of medical care children at our hospital outpatient clinic
Minako Kihara, YOHSUKE KOSUGI
(Department of Pediatrics, Tomakomai city hospital, Tomakomai, Japan)

P-040 Life support of 3 cases with long-term survival Fukuyama type congenital muscular dystrophy
Miyuki Toyono, TOMOKO SAKAMOTO, YUKIO SAWAISHI
(Akita Prefectural Center on Development and Disability, Akita, Japan)

Poster Presentation07

P-041 Tryptophan-free diet recovers autism-like behaviors in serotonin transporter knockout mice
Atsushi Sato1-2, MIHO TANAKA2-3-4, SHINYA KASAI2, YOKO HAGINO3, HIROKO KOTOJIMA4, HIROFUMI KASHII5-6, YASUMASA NISHITO2-3, MASUMI INAGAKI4, ICHIRO SORA2, MASASHI MIZUGUCHI6, KAZUTAKA IKEDA1-2
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P-042 Neural correlates for judging and sensing of auditory information in ASD individuals: An fMRI study
Keisuke Wakusawa1-2-3, TAKAHIRO NARA3, CHIEKO NARA4, YUKI KUBOTA4, SHIGEO KURE4, HIROYUKI YOKOYAMA5
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P-043 Evaluation of social development in children with autism spectrum disorders whom we intervened early
Kaoru Moriyama1-2, AKIKO FUJII1, MITSUHIRO MATSUO1, MUTSUKO MIYAZAKI1, TAMAO NAGAOKA1, KAZUNORI MOTUYAMA1, HIROYUKI MORIUCHI1 (1.Nagasaki Prefectural Children's Medical Welfare Center, Japan, 2.Nagasaki University Hospital, Japan)

P-044 Unbalanced diet in autism spectrum disorder, its characters and treatment
Shigeru Hanaoka (Matsudo Municipal Center for Child Development, Matsudo-city Japan)

P-045 Deviated food habit in children with autism spectrum disorder
Saeko Sasaki, TOMOHIRO KUMADA, MINORU SHIBATA, FUMIHIITO NOZAKI, IKUKO HIEJIMA, ANRI HAYASHI, MIKO MORI, KENJI INOUE, TATSUYA FUJII
(Shiga Medical Center for Children,Shiga,Japan)

P-046 Two cases of autism spectrum disorder who withdrew from the long-term truancy
Takeshi Miyamoto
(Department of Pediatrics, Hamamatsu Medical Center, Shizuoka, Japan)

P-047 Assessment by Japanese Sensory Profile on the autistic children supported for selective eating
Kiyoko Yamane1, Yoko Fujii2, Nozomi Hijikata2, Ayumi Ochiai2, Mana Matsuoka1, Mari Yamasaki1, Yuko Ogawa1
The 60th Annual Meeting of the Japanese Society of Child Neurology

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Poster Presentation 08

P-048 Medical utilization of multidimensional scale for PDD and ADHD of children
Hiroshi Katsumori, RYO KOZAWA, KYOKO KASHIMA, YOSHIKI UEMURA
(Department of Pediatrics, Kawakita General Hospital, Tokyo, Japan)

P-049 Difference of assessment between parents and children with ASD, ADHD using QCD
Yusaku Endo, MIKI ASAHINA, TERUHIKO SUZUKI, KOICHI HIRANO
(Department of Pediatrics (Pediatric Neurology), Hamamatsu City Welfare and Medical Center for Development, Hamamatsu, Japan)

P-050 Birth cohort study of relative life style factors for developmental disorder in 5-aged children
Sonoko Mizorogi1,2, MIRI SATO3, YUKA AKIYAMA2, HIROSHI YOKOMICHI2, ZENTARO YAMAGATA2,3, HIDEAKI KANEMURA1, MASAO AIHARA4
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P-051 An assessment scale to measure social and behavioral development of preschool children
Hideyo Goma1, Shun Tanaka2, Michio Ushiyama2, Tomomi Ikeda3, Kazuhiro Inoue3, Hiromi Kotani2, Satomi Shimizu3, Rika Ochiai4, Yoko Muto5, Toshihiro Kato6, Takashi Otani6, Natsumi Maruo7, Keiko Okubo7
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Poster Presentation 09

P-052 Counseling project for pre-school developmental disorder children in Fukui prefecture
Asami Kumano, AKIO FUJINE, AKEMI TSUDA (Fukui Prefectural Rehabilitation Center for Children with disabilities, Fukui, Japan)

P-053 Study on childcare counseling cases where the problem of nursing ability of families became apparent
Yuki Suzuki1,2, YASUSHI ITO1,2,3, ERIKO MIZOGUCHI1, KAORI KAWANO1, NOZOMI ISHII1, YUKA AIHARA2, SATORU NAGATA3
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P-054 Evidence-based mental health support project -Practice of CARE program-
Kazue Takagi
(Yokohama Central Area Habilitation Center for Children, Yokohama, Japan)

P-055 Examination for corporation with medical and school model in Tottori prefecture
Sawako Ooba, YOSHIHIRO MAEGAKI
(Tottori University Hospital Department of Child Neurolgy, Tottori, Japan)

P-056 What kind of activities do teachers expect pediatric neurologists to do when visiting schools?
Kosuke Nakano
(The Department of Special Support Education, Faculty of education, Ehime University, Matsuyama, Japan)

P-057 The effectiveness of Behavior Rating Inventory of Executive Function in Japanese children
Fumiyo Nagatani1, Eriko Suwa2, Hiroyuki Uemishi3, Ikuko Mohri1,2,4, Masako Taniike1,2,4
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Poster Presentation 10

P-058 DYNC1H1 novel mutation: a case presenting with cortical dysplasia, epilepsy and microcephaly
Tatsuyuki Sokoda¹, TAKAO MORIMUNE¹, JUN MATSUI¹, NORIKO NISHIKURA¹,
MITSUHIRO KATO², SATOKO MIYATAKE³, NAOMICHI MATSUMOTO³
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P-059 A case of cortical dysplasia and microcephaly with a TUBG1 mutation
Mika Kawabe¹, Mitsumasa Fukuda¹, Tomoko Hamada², Hiroyuki Wakamoto¹, Eiichi Ishii²,
Shiro Oaza³, Mitsuhiro Kato¹
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P-060 De novo CCND2 mutation causes megalencephaly-polymicrogyria-polydactyly-hydrocephalus syndrome
Ryo Sato¹, Takuya Miyabayashi¹, Yukimune Okubo¹, Takehiko Inui¹, Noriko Togashi¹, Satoko Miyatake², Naomichi Matsumoto³, Kazuhiro Hagonoya³
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P-061 A case with mucolipidosis complicated with cerebral dysplasia and cerebral infarction
Koji Morita¹, KENTARO HANAOKA¹, KOZUE KOBAYASHI², AKIRA HOJO², MITSUHIRO KATO², KATSUMI MIZUNO³, MASARU TATSUNO³, SATOKO MIYATAKE³, NAOMICHI MATSUMOTO³
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P-062 A case of MEHMO syndrome with leukodystrophy and diabetes
Mioko Mori¹, Tomohiro Kumada¹, Toshihiko Takeuchi¹, Tomoko Uehara¹, Hisato Suzuki¹, Kenjiro Kosaki¹, Katsuyuki Matsui¹, Yoshihiro Maruo¹, Minoru Shibata¹, Fumihito Nozaki¹, Ikuko Hiejima¹, Anri Hayashi¹, Kenji Inoue¹, Saeko Sasaki¹, Tatsuya Fujii¹
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P-063 A case of Leukoencephalopathy with calcifications and cysts caused by mutations in SNORD118
Kazuo Kodama¹, TAKU OMATA¹, YOSHIKI WATANABE¹, HIROMI AYOYAMA¹, JUN-ICHI TAKANASHI², KAZUHIRO IWAMA³, TAKESHI MIZUGUCHI³, NAOMICHI MATSUMOTO³
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P-064 A case of mild intellectual disability and epilepsy arising from a novel PPP2R1A mutation
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Poster Presentation 11

P-065 Novel case of ZTTK syndrome including a case overlapping with inherited GPI deficiency
Junpei Tanigawa¹,², NOBUHIRO OKAMOTO³, KOJI TOMINAGA¹,²,³, MASAHIRO KITAI⁵, SHIN NABATAME¹,², SATOKO MIYATAKE⁶, NORIKO MIYAKE⁶, NAOMICHI MATSUMOTO⁶, TAKO KINOSHITA⁷, YOSHIKO MURAKAMI⁷, KEIICHI OZONO¹,²
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Developmental Neuroscience, United Graduate School of Child Development, Osaka University, Suita, Japan)

**P-066** A case of Okur Chung neurodevelopment syndrome
Kohei Haraguchi1,2, Nanako Nishiguchi1, Tatsuharu Sato1, Hiroyuki Moriuchi1
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**P-067** A case with intellectual disability possibly caused by NACC1 mutation
Motomasa Suzuki, YASUKO KOJIMA, MAHITO ATOBE, YUSUKE AOKI, KAZUYA ITOMI
(Defense of Pediatric Neurology, Aichi Children’s Health and Medical Center, Aichi, Japan)

**P-068** Rett-like features and cortical visual impairment in a Japanese patient with HECW2 mutation
Haruhiko Nakamura1, MITSUGU UEMATSU2, YURIKA UEMATSU2, YU ABE2, WAKABA ENDO2, ATSUO KIKUCHI2, YUSUKE TAKEZAWA2, KAZUHIRO HAGINOYA3, SHIGEO KURE2
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**P-069** A case of creatine transporter deficiency diagnosed by a family request
Anzu Noda1, Akiko KOYAMA1, YUICHI ABE2, HIROKO SHIMBO3, NORIKO AIDA4, TOMOHIDE GOTO5
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**P-070** Complete response to corpus callosotomy for epileptic spasm in Lennox-Gastaut syndrome
Yuta Eguchi1,2, Nobutosune Ishikawa1, Hiroo Tani1, Yoshiyuki Kobayashi1, Koji Iida2,3, Masao Kobayashi1
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**Poster Presentation 12**

**P-071** Clinical analysis of three cases with vagus nerve stimulation against epileptic encephalopathy
Kengo Moriyama1, Toshihiro Nomura1, Tomoko Mizuno1, Motoki Inaji2, Taketoshi Maehara2
(1.Department of Pediatrics Tokyo Medical and Dental University, 2.Department of Neurosurgery Tokyo Medical and Dental University)

**P-072** Successful corpus callosotomy for refractory epilepsy in 3 girls with diffuse polymicrogyria
Shinpei Baba1, TOHRU OKANISHI1, MITSUYO NISHIMURA1, SOTARO KANAI1, SHINJI ITAMURA1, YUSUKE MASUDA2, HIDEO ENOKI2, AYATAKA FUJIMOTO2
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**P-073** Relationship between cross—sectional area of corpus callosum and outcome of callosotomy
Shinji Itamura1, TOHRU OKANISHI1, sotaro kanai1, SINPEI BABA1, YOSUKE MASUDA2, mitsuoy nishimura2, ayataka fujimoto2, hideo enoki1
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**P-074** Sturge—Weber syndrome after hemispherotomy in infancy being good development prognosis
Kosuke Tsuchida1, SHINOBU FUKUMURA1, AKIYO YAMAMOTO1, KENTARO KAWAMURA1, HIROYUKI TSUTSUMI1, HIDENORI SUGANO2
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**Poster Presentation 13**

**P-075** Successful treatment of West syndrome by high-dose vitamin B6 in a boy with Klinefelter’s syndrome
The 60th Annual Meeting of the Japanese Society of Child Neurology

Yoshitaka Oyama1, Kotaro Nakano1, Moe Ito1, Tomoyuki Akiyama2, Saoko Takeshita3, Michihiro Hatano1, Mari Iwamoto1
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P-076 A case of West syndrome with shunted hydrocephalus treated by ACTH therapy
Takao Morimune, Jun Matsui, Noriko Nishikura, Tatsuyuki Sokoda, Yoshihiro Maruo
(The Department of Pediatrics, Shiga university of medical science, Shiga, Japan)

P-077 記述なし

P-078 A case of Kabuki syndrome with intractable epilepsy that responded to long term weekly ACTH therapy
Ryosuke Urabe, Hiroshi Terashima, Nahoko Katayama-Ueda, Itaru Hayakawa, Go Takei, Sato Suzuki-Muromoto, Tetsuharu Kamio, Masaya Kubota
(National Center for Child Health and Development, Tokyo, Japan)

P-079 Two cases of West syndrome who treated ACTH in combination with vigabatrin
Tomofumi Fukuda, Masayuki Shimono, Ryota Igarashi, Yumeko Matsuda, Masahiro Ishii, Ayako Senju, Koichi Kusuhara
(University of Occupational and Environmental Health Japan, Kitakyushu, Japan)

P-080 Three cases of West syndrome with nephrocalcinosis during Zonisamide and ACTH therapy
Yuriko Ueda1, MIKA NAGAO1, ATSUSHI SATO2, YOSHIYUKI NAMAI1
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Poster Presentation 14

P-081 Efficacy of perampanel on patients with refractory epilepsy older than 12 years of age
Yui Otani, Aiko Nishikawa, Susumu Ito, Hirokazu Oguni, Satoru Nagata
(Pediatrics, Tokyo Women’s Medical University, Tokyo, Japan)

P-082 Efficacy and adverse reactions of perampanel therapy with intractable epilepsy
Yuka Nishizawa1, Tatsuyuki Sokoda2, Seiro Narumiya1, Tomoyuki Takano3, Yoshihiro Maruo2
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P-083 Seizure reduction with perampanel administration in a case of tuberous sclerosis
Hisako Yamamoto, NATSUKO ARAI, HITOSHI YAMAMOTO
(The Department of Pediatrics, St.Marianna University of Medicine, Kanagawa, Japan)

P-084 The clinical study of Perampanel against intractable epilepsy in our hospital
Atsushi Imamura, Emiko Kobayashi, Kuniko Tokoro
(Department of Pediatrics, Gifu Prefectural General Medical Center)

P-085 A case of Lennox-Gastaut syndrome dramatically responding in seizures and behaviors to perampanel
Naoko Matsuda, Humika Endoh, Katsuhiro Kobayashi, Tomoyuki Akiyama
(Department of Child Neurology, Okayama University Hospital, Okayama, Japan)

Poster Presentation 15

P-086 A case of Neuronal ceroid lipofuscinos with successive treatment by Perampanel
Ken Momasaki, Shirou Ozasa, Keiko Nomura
(Department of Pediatrics, Kumamoto University, Kumamoto, Japan)

P-087 A case of Dravet syndrome with effectiveness of perampanel additional administration
Kazuyuki Yotsumata
(Kagoshima City Hospital, Kagoshima, Japan)

P-088 Efficacy of prampanel in a female with progressive myoclonus epilepsy due to Gaucher disease type 3
Mayu Tahara, NORIMICHI HIGURASHI, HIROYUKI IDA
(Department of Pediatrics, Jikei University school of Medicine, Tokyo, Japan)

P-089 A case of drug-resistant epilepsy related to gliomatosis cerebri with good response to perampanel
Chiho Tokorodani, RITSUO NISHIUCHI, KIYOSHI KIKKAWA
(The department of pediatrics, Kochi health sciences center, Kochi, Japan)
The 60th Annual Meeting of the Japanese Society of Child Neurology

Poster Presentation 16

P-090  A case of absence epilepsy with visual-sensitivity
Yoshiyuki Watabe, Ryouta Kuribayashi, George Imataka
(The Department of Pediatrics, Dokkyo University of Medicine, Tochigi, Japan)

P-091  Two cases of absence epilepsy caused by SYNGAP1 mutations
Yu Kobayashi1, TAKAO KOMATSUBARA1, MOEMI HOJO1, SHINICHI MAGARA1, JUN
TOHYAMA2, MITSUHIRO KATO2, MITSUUKO NAKASHIMA3, NAOMICHI MATSUMOTO4
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3.Deptartment of Biochemistry, Hamamatsu University School of Medicine, Hamamatsu, Japan,
4.Deptartment of Human Genetics, Yokohama City University Graduate School of Medicine,
Yokohama, Japan)

P-092  West syndrome associated with 1p35 deletion including BAI2
Taichi Imaizumi1−2, NOBUHIKO OKAMOTO1, KEIKO YAMAMOTO-SHIMOJIMA1, YUMIKO
ONDO1, TOSHIYUKI YAMAMOTO1
(1.Institute of Medical Genetics, Tokyo Women's Medical University, Tokyo, Japan,
2.Deptartment of Pediatrics, Tokyo Women's Medical University, Tokyo, Japan)

P-093  An infant with neonatal seizure identified STXBP1 variant
Takao Hoshina1, TOSHIYUKI SETO1, KENJI FUJITA1, NORIKATSU HIKITA1, SATORU
SAKUMA1, TOSHIYUKI YAMAMOTO2, HARUO SHINTAKU2
(1.Deptartment of Pediatrics, Osaka City University Graduate School of Medicine, Osaka,
Japan, 2.Institute of Medical Genetics, Tokyo Women's Medical University, Tokyo, Japan)

P-094  A patient with epileptic encephalopathy associated with highly abnormal EEG and a MED13L
mutation
Tomoe Yanagishita1,2, TAICHI IMAIZUMI1,2, KEIKO YAMAMOTO-SHIMOJIMA1, HIKARU
KITAHARA1, KATSUMI IMAI1, TOSHIYUKI YAMAMOTO1
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2.Deptartment of Pediatrics, Tokyo Women's Medical University, Tokyo, Japan, 3.Deptartment
of Pediatrics, Tokyo Women's Medical University, Tokyo, Japan)

P-095  Two cases of intractable epilepsy and involuntary movements with regression mimicking PME
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consortium, Tokyo, Japan)

Poster Presentation 17

P-096  Novel SMC1A mutation in a case with seizures in cluster and developmental disorder
Hiroe Ueno1, HIDEKAZU TACHIBANA1, HITOSHI KASHIKI1, TAKUMI OKADA1, MAMI
FUKUMA1, TOMOYUKI SHIMAZU1, CHIZURU IKEDA1, HOSEKI IMAMURA1, MEGUMI
HIRATA1, TAKEHI HIROTA1, TAKESHI MIZUGUCHI1, NAOMICHI MATSUMOTO1, MITSUHIRO
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Disabilities, Kumamoto, Japan, 3.Yokohama City University Graduate School of Medicine,
Kanagawa, Japan, 4.Deptartment of Pediatric, Showa University School of Medicine, Tokyo,
Japan)

P-097  5q14.2-q15 triplication case: developmental delay, microcephaly, repetitive movements and epilepsy
Hiroyo Matsushita1, Sozo Okano1, Katsumi Hayakawa2, Soichi Mukaida3, Kazuhiro Shiraishi3,
Mitsuko Nakashima4, Naomichi Matsumoto4, Mitsuhiro Kato5
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Organization Utano Hospital, Kyoto, Japan, 4.Deptartment of Human Genetics, Yokohama City
University Graduate School of Medicine, Yokohama, Japan)

P-098  Focal impaired awareness seizure manifesting as apnea in a case of 4p-syndrome with continuous
EEG
Shoichiro Kanabuchi, Mina Yokoyama, Kaoru Yamamoto, Atsrou Saida, Nao Umehara,
Masaaki Oghara, Isao Kusawaka
(Department of Pediatrics, St. Lukes International Hospital, Tokyo, Japan)
P-099 A novel SEPSECS mutation in a girl with progressive cerebellocerebral atrophy/intractable epilepsy
Akiko Yamamoto¹, HIDEOMI OOTA¹, YUJI IWASAKI¹, MAKIKO KAGA¹, MITSUHIRO KATO², Eriko Koshimizu³, Satoko MIYATAKE³, Naomichi Matsumoto³
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P-100 A case with PEX1 gene mutation with epileptic encephalopathy
Kayo Kunisada, MOTOKO OGINO, ATUSHI MORII, MARI HATANAKA, MIHO FUKUI, SHUICHI SIMAKAWA, HIROSHI TAMAI
(Department of Pediatrics, Osaka Medical College, Osaka, Japan)

Poster Presentation

P-101 A case of refractory neonatal seizure with KCNQ2 mutation
Sanae Yamazaki¹, Aiko Hirano¹, Takeshi Okinaga¹, Mitsuhiro Kato²
(1.Belland general hospital, Osaka, Japan, 2.Showa university faculty of medicine)

P-102 A case report: possible benign neonatal convulsion
Shodo Hirano, Akitto Watanabe
(Toyonaka Municipal Hospital)

P-103 A male case with CDKL5-associated encephalopathy manifesting transient methylmalonic acidemia
Satoshi Akamine¹, Yoshito Ishizaki¹, Yasunari Sakai¹, Hiroyuki Torisu², Ryoko Fukai³, Noriko Miyake³, Kazuhiro Ohkubo³, Masafumi Sanefuji¹, Ayumi Sakata¹, Masahiko Kimura³, Seiji Yamaguchi³, Osamu Sakamoto³, Hiroto Saitou³, Naomichi Matsumoto³, Shouichi Ohga¹
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P-104 A case of crying seizure that presents status epilepticus, requiring differentiation from epilepsy
Yuki Shimazaki¹, ATSUKO OBA², RYUKI MATSUURA³, SHINICHIRO HAMANO³
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Poster Presentation

P-105 MELAS patient with m.G4450A mutation
Mari Kuwajima¹, HITOSHI OSAKA¹, MASAHIDE GOTO¹, TAKAHIRO IKEDA¹, KEI MURAYAMA², HIROKO SHIMBO³, TAKANORI YAMAGATA³
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P-106 Diagnosis of mitochondrial disease with cerebellar atrophy in the early stage of the clinical course
Haruna Yokoyama¹, Takashi Saitou¹, Eri Takeshita¹, Hirofumi Komaki¹, Akihiko Ishiyama¹, Yuko Motohashi¹, Eiji Nakagawa¹, Kenji Sugai¹, Ichizo Nishino⁴, Yuichi Gotou¹, Masayuki Sasaki¹
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P-107 Clinical course and brain MRI findings of MELAS due to m.14453G>A
Kei Iwata¹,²,³, AKIHIKO ISHIYAMA¹, ERI TAKESHITA¹, YUKO MOTOHASHI¹, TAKASHI SAITO¹, HIROHUMI KOMAKI¹, EJI NAKAGAWA¹, KENJI SUGAI¹, ICHIZO NIshino²,³, YUICHI GOTO²,³, MASAYUKI SASAKI¹
Poster Presentation 20

P-108 Association between severity score, Intelligence and Cognitive function in patients with MELAS
Rio Mukasa, Syuichi Yatsuga, Miyuki Kitamura, Yasutoshi Koga
(dept. of Peditr., Kurume Univ. Sch. of Med. Fukuoka, Japan)

P-109 A 13 years old boy case of the suspicion of the MELAS that optic neuritis occurred in a row
Tetsuharu Kamioka, NAHOKO UEDA, RYOSUKE URABE, ITARU HAYAKAWA, GO TAKEI,
SATO SUZUKI, HIROSHI TERASHIMA, MASAYA KUBOTA
(Division of Neurology, National Center for Child Health and Development, Tokyo, Japan)

Poster Presentation 21

P-110 A case of Leigh syndrome with SLC19A3 gene mutations in the neonatal period
Maki Nodera1, Yuichi Suzuki1, Yuichiro Asano2, Ryo Maeda3, Kazuhide Suyama1, Asako Kato1,
Yukihiko Kawasaki1, Mitsuhiro Hosoya1, Kei Murayama2
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P-111 Auditory brainstem response and neurological prognosis in Leigh syndrome
Kenshi Sei1, TATROU KUMAKI1, AYAKO YAMAMOTO1, YU TUYUSAKI1, KAZUSHI
ICHIKAWA1, MEGUMI TAJI1, MIZUE IAI2, SUMIMASA YAMASHITA1, TOMOHIDE GOTO1,
AKIRA OOTAKE2
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Hospital, Saitama, Japan)

P-112 Mitochondrial dysfunction of hyperornithinemia, hyperammonemia, and homocitrullinuria
syndrome
Hiroaki Ono1, TOMOKO TAMADA1, YOSUKE SHIGEMATSU2
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P-113 Sibling cases of pontocerebellar hypoplasia type 6 with respiratory chain Complex IV deficiency
Yasuhiro Kimoto1, Elina Taniguchi1, Maiko Utoyama1, Akihiko Nakahara2, Toshio Ikeda1,
Hirotake Sawada1, Hiroshi Moritake1, Kei Murayama2, Akira Ootake4
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Japan, 3. The Department of Metabolism, Chiba Children's Hospital, Chiba, Japan, 4. The
Department of Pediatrics, Saitama Medical University, Saitama, Japan)

P-114 A case of molybdenum cofactor deficiency identified with MOCS1 mutation
Yu Abe, YU AIHARA, WAKABA ENDO, MITSUGU UEMATSU, SHIGEO KURE
(Department of Pediatrics, Toho University School of Medicine, Sendai, Japan)

P-115 Sodium phenylbutyrate improved clinical state in an adult patient with arginase 1 deficiency
Mayumi Matsufuji1, EIKO TAKESHITA2, YORIKO WATANABE2, KAORI FUKUI2,
HIROMI IWATA1, KUNIHITO HAMAMOTO1, TOSHIHITO HANA1, SACHIO TAKASHIMA3
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P-116 Long-term prognosis of enzyme replacement therapy in patients with infantile—onset Pompe
disease
Hideaki Mashimo1, Yohane Miyata1, Ikuko Shirai1, Satoko Kumada1, Hiroya Nishida1, Shunpei
Uchino1,2, Konomi Shimoda3, Yasuo Hachiya1,3, Eiji Kurihara1
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Japan)

P-117 Urinary mulberry cells observed in one Fabry disease boy with normal kidney function
Poster Presentation

P-118 A girl with Fabry disease presenting with refractory chronic migraine
Yuki Kihara1, YASUSHI ITO2, KAORU ETO4, HIDETSUGU NAKATSUKASA1, KAORUKO MOTOE1, SATORU NAGATA1
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P-119 A case of GM1 gangliosidosis type 2: what are useful clinical data for early diagnosis?
Yukio Sawaishi1, Miyuki Toyono1, Eiji Nanba2, Naomichi Matsumoto3
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P-120 Two cases of GM2 gangliosidoses
Asako Arai, Naoto Iwanami, Daisuke Azuma, Tamotsu Matsunaga
(Department of Pediatrics, Toda Chuo General Hospital, Saitama, Japan)

P-121 A case of Congenital disorder of glycosylation type II developed intracranial hemorrhage
Koji Tominaga1,2, RYOKO HAYASHI1, MIKA HIROTSUNE1, JUNPEI TANIGAWA1, YOSHIKO IWATANI1,2, KURIKO SHIMONO1,2, SHIN NABATEM1, NAOKI KAGAWA4, KAZUHIKO BESSHO1, TADASHI KANAME1, KEIICHI OZONO1
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P-122 Expert opinion on the management of Intracerebroventricular (ICV) drug delivery
Christoph Schwering1, Irene Slavc2, Jessica L Cohen-Pfeffer3, Sridharan Gururangan1, Elaina Jurecki1, Jeanne Krauser1, Tom Lester3, Daniel Lim4, Marcos Maldaun6, Adam J Shaywitz3, Manfred Westphal1
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Poster Presentation 22

P-123 Consecutive electroencephalographic recordings at the initial stage of pediatric limbic encephalitis
Kazuya Itomi1, MOTOMASA SUZUKI1, YASUKO KOJIMA1, MAHITO ATOBE1, YUUSUKE AOKI1, YUKITOSHI TAKAHASHI2, KEI SAKUMA2
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P-124 A case of 14-year-old girl with anti-NMDA receptor encephalitis treated by cyclophosphamide
Yukako Yae1, GO KAWANO1, TORU IMAGI1, YUKIHIRO AKITA1, TOYOJIRO MATSUISHI2, YUKITOSHI TAKAHASHI3
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P-125 Anti-N-methyl-D-aspartate receptor encephalitis treated with cyclophosphamide in children
Hiromi Aoyama1, Yoshimi Watanabe1, Kazuo Kodama1, Yuktoshi Takahashi2, Hiroshi Sakuma3, Taku Omata1
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P-126 A male encephalitis case with antibodies to NMDA-type GluR
Shiori Hamada, KIMIAKI UETAKE, KOKI NIKAIDO, TOSHIHIDE WATANABE, HIDEAKI SHIRAISHI, YUKITOSHI TAKAHASHI
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P-127 A case of anti-NMDAR encephalitis with extreme spindle-like EEG pattern
Minako Ide, TAKEO KATOU, SACHI TOKUNAGA, TAKAKO MATSUMOTO, TOSHIROU MAIHARA
(Pediatrics, Hyogo Prefectural Amagasaki General Medical Center, Hyogo, Japan)

P-128 An infantile case of anti-NMDAR encephalitis with IRAK4 gene mutation
Yoshiyuki Kobayashi, NOBUTSUNE ISHIKAWA, SATOSHI OKADA, HIROO TANI, YUTA EGUCHI, MASAO KOBAYASHI
(Department of Pediatrics, Hiroshima University Hospital, Hiroshima, Japan)

P-129 A case of acute hemorrhagic leukoencephalitis mimicking a brain tumor
Naohiro Yamamoto, Hisashi Kawawaki, Masataka Hukuoka, Kiyohiro Kin, Megumi Nukui, Takeshi Inoue, Ichiro Kuki, Shin Okazaki, Dyun Kubota, Shimichiro Hamano
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Poster Presentation 23

P-130 A case of Rett syndrome developing anti-MOG antibody-positive acute disseminated encephalomyelitis
Hiroo Tani, Nobutsune Ishikawa, Yoshiyuki Kobayashi, Yuta Eguchi, Toshiyuki Takahashi, Kimihiko Kaneko, Masao Kobayashi
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P-131 Characteristics of brain lesion in neuromyelitis optica spectrum disorder with MOG antibody
Azusa Ikeda, Hitkari Kaba, Yoshihiro Watanabe, Saoko Takeshita, Kimihiko Kaneko, Toshiyuki Takahashi
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P-132 A case of anti-MOG antibody-positive disorder with optic neuritis following mumps virus infection
Shinya Mizunuma, YUKO TSUDA, AKIRA TAMURA, KOUITI MINAMI
(Department of Pediatrics, Wakayama Medical University, Wakayama, Japan)

P-133 A case of Rheumatic chorea with Anti-Glutamate receptor antibodies in cerebrospinal fluid
Tsuyoshi Matsuoka, MASAHIKO HIYANE, MASAHARU OHFU, YUKITOSHI TAKAHASHI
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P-134 Combination of methotrexate with cyclophosphamide pulse is effective for CLIPPERS
Wakaba Endo, Yu Abe, Yurika Uematsu, Mitsugu Uematsu, Shigeo Kure
(Department of Pediatrics, Tohoku University School of Medicine, Sendai, Japan)

P-135 Efficacy of low-dose azathioprine in generalized myasthenia gravis
Saoko Takeshita, Yoshihiro Watanabe, Yuu Fujiwara, Hikari Kaba, Moe Ito
(Department of Pediatrics, Yokohama City University Medical Center, Yokohama, Japan)

Poster Presentation 24

P-136 Acute disseminated encephalomyelitis with peripheral neuropathy associated with cytomegalovirus infection
Tomoya Takeuchi, Fumie Kitai, Syunsuke Ogaya
(Department of Pediatrics, Japanese Red Cross Nagoya Daiichi Hospital, Aichi, Japan)

P-137 Prospective study about developmental delay with congenital cytomegalovirus infection
Satoshi Takenaka, MARIKO KASAI, ATSUSHI SATO, YU KAKIMOTO, TAKAYUKI MORI, KONOMI SHIMODA, YOKO MIZUNO, MASASHI MIZUGUCHI, AKIRA OKA
(Department of Pediatrics, Shizuoka Institute of Epilepsy and Neurological Disorders, Shizuoka, Japan)
P-138 A case of postencephalitic epilepsy secondary to cytomegalovirus ventriculoencephalitis
Masaru Nasuno1, Mitsuo Motobayashi2, Yoshihiro Osawa1, Manami Morikawa3, Takenori Natsume1, Yoshimitsu Yanagisawa1, Yuji Inaba1
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P-139 Clinical feature of acute flaccid myelitis associated with enterovirus D68
Marie Noda1, Pin Fee Chong2, Sawa Yasumoto3, Akihisa Okumura4, Harushi Mori3, Ryutaro Kira2, Keiko Taya6, Hiroyuki Torisu1
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P-140 Long—term survival SSPE case achieved by intrathecal injection of ribavirin and interferon alpha
Shimpei Abe1, MITSURU IKENO1, TOSHIKI SHIMIZU2, AKIHIKARI OKUMURA2
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P-141 A case of infected subdural hematoma associated with Kawasaki disease
Hitoshi Ogata, TADASHI SHIOHAMA, RYOTA EBATA, TOMOKO UCHIDA, HIRONOBU KOBAKASHI, NAOKI SAITO, KATSUNORI FUJII, NAOKI SHIMOJO
(Department of Pediatrics, Chiba University Graduate School of Medicine, Chiba, Japan)

Poster Presentation25

P-142 Is levetiracetam effective with Tic syndrome?
Hiroshi Ozawa1, KENICHIROU TSUNEMATSU2
(1.Deartment of Child Neurology, Shimada Ryokiu Center Hachioji, Tokyo, Japan, 2.Department of Pediatrics, Hino Municipal Hospital, Tokyo, Japan)

P-143 A 2-year-old boy with Leigh encephalitis presenting dystonia of lower extremities
Masato Hiyane1, TSUYOSHI MATSUOKA2, MASAHARU OHHU1, YUICHI GOTO2
(1.Division of child neurology, Okinawa prefectural southern medical center & children’s medical center, Haebaru, Japan, 2.Medical genome center, National Center of Neurology and Psychiatry, Tokyo, Japan)

P-144 A case of a 9-year-old girl with antiphospholipid antibody-associated choreic movement
Yasuhiro Shibata1, Masato Mori1, Keiko Okumura2
(1.Department of Pediatrics Matsudo City General Hospital /Chiba prefecture /Japan, 2.Nadogaya Abiko Hospital /Chiba prefecture /Japan)

P-145 Perampanel for erratic myoclonus-like involuntary movement in Angelman syndrome
Osamu Kawano1, NORIKO NAMATAME1, Tomoshibo Ito2, KIYOSHI EGAWA1, NAOKO ASAHINA1, SHINOBU KOUSAKA1, HIDEAKI SHIRAISHI1
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P-146 L-thyroxine-responsive drop attacks in childhood benign hereditary chorea: a case report
Tadashi Shiohama1, HIROHUMI OHASHI2, KENJI SHIMIZU3, KATSUNORI FUJII1, DAIJU OBA3, TOMOZUMI TAKATANI1, MITSUHIRO KATO4, NAOKI SHIMOJO4
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P-147 Therapeutic usefulness of Levodopa, a case of Brain-lung-throid syndrome
Akio Fujino1, ASAMI KUMANO1, AKEMI TSUDA1, HIDEO TSUDA2, KENJI KUROSAWA2
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**Poster Presentation**

**P-148** Characteristics of epilepsy of extremely low birth weight infants  
Michiko Torio¹, MASAYUKI OCHI², YURI SONODA³, YOSHITO ISHIZAKI¹, MASAFUMI SANEFUJI², YASUNARI SAKAI³, SHOICHI OHGA¹  
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**P-149** Characteristics of development in low birth weight infants received developmental physical therapy  
Kaori Kamatsuka¹, SAORI MIYAGISHIMA¹, MASAKI KOYASHI², RISA IGARASHI², NAOKI KOZUKA³  
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**P-150** Correlation between results in K-test and IQ at the age of six in low birth weight infants  
Masahiro Ishii¹, MASAYUKI SHIMONO², RYOUTA IGARASHI¹, YUMEKO MATSUDA¹, TOMOFUMI FUKUDA¹, AYAKO SENJU¹, SHIIHO TANAKO¹, NAOKI SHIOTA², KOICHI KUSUHARA³  
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**P-151** Outcomes in light-for-date neonates with very low birth weight by cohort  
Akiko Takeshita¹, KYOKO HIROSAWA¹, TOMOKO TAKAMURA², KEN IMAI², ATSUSHI UCHIYAMA², SATORU NAGATA¹  
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**P-152** The characteristics of neurodevelopmental disorder with low birth weight infant and twin  
Yukiko Nakamura, CHIKA KOUNO, MAKI OOSAWA, YURI OZAWA, HIROSHI OZAWA (The department of Neuropediatrics, Shimada Ryoiku Center Hachioji, Tokyo, Japan)

**P-153** Age related change of head and trunk coordination during level walking  
Akio Yamamoto, Kana Nakayama, Yusuke Watanabe, Satoshi Takada (Kobe University, Graduate School of Health Science)

**P-154** Diagnosing Klinefelter syndrome in children and adolescent  
Hitomi Hayashi¹, TAKAHIRO INOUE², YUKIKO HIROSAWA¹, TAKAKO IGARASHI¹, KAZUKO YOSHIMURA¹, ATSUSHI ISHII¹, HIROSHI IDEGUCHI¹, REIMI TURUSAWA², ATSUSHI OGAWA², SAWA YASUMOTO³, SHINICHI HIROSE¹  
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**Poster Presentation27**

**P-155** Dynamic changes in cerebral blood flow imaging of brain MRI with treatment of anorexia nervosa  
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**P-156** Effective psychosomatic intervention for gait disturbance: a report of two cases  
Shiori Moriyama¹, Sou Uchida¹, Makiko Kurokawa², Hideaki Mashimo³, Kazue Sagii, Akiko Miyata⁴, Mamiko Yamada¹, Miku Wada¹, Kyoko Tamura¹, Shizuka Hirano¹, Sachiko Simosato¹, Hiroshi Yoneyama²  
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**P-157** Effects of physical activity on eating disorders  
Etsuko Kanda (Kikkoman General Hospital)

**P-158** Clinical analysis of KIREU children  
Masao Kawatani¹, Takuya Kosaka¹, Genrei Ohta¹, Hiroshi Kometani², Yusei Ohshima¹, Akemi Tomoda³, Michio Hiratani⁴
Poster Presentation 28

P-159 Treatment of ramelteon for sleep disturbance in children with developmental disorder
Emi Shirahata, AIKO ITO, CHIZURU SEIWA
(Yamagata Prefectual Medical and Rehabilitation for Children)

P-160 Efficacy of ramelteon on sleep disorder in infant with developmental disorder
Takuya Kosaka1, Genrei Ohta1,2, Hiroshi Kometani1,3, Masao Kawatani1,2, Yusei Ohshima1, Michio Hiratani2
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P-161 Polysomnographic analysis of a 9-year-old boy with four sleep terrors episodes per night
Kumi Kato-nishimura
(Ota Memorial Sleep Center, Kanagawa, Japan)

P-162 Impaired executive function in junior high school students with abnormal sleep time
Mako Momoda1, Arika Yoshizaki2, Fumiyo Nagatani2, Ikuko Mohri1,2,4, Tomoko Nishimura3, Masako Taniike1,2,4
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P-163 The search for biomarkers of the therapeutic effect in circadian rhythm sleep disorders in children
Makiko Toyoura1, YUKO TOYOTA1, AKIO NAKAI1, TERUHISA MIKE1, YUKURO KONISHI1, KIYOSHI KIKUCHI2, SEIKI TAJIMA2,3, YASUKO FUNABIKI1,3, HAYAO EBISE2, TOSHIHIRO YONEYAMA4, MIKIO AOKI4, YOUICHI NABE SHIMA5
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P-164 Surgically treated obstructive sleep apnea syndrome with Angelman syndrome in 2 pediatric patients
Takahiro Abiko1, Kazuyuki Nakamura1, Jyun-ichi Yokoyama1, Shino Okuyama1, Tetsuo Mitsui1, Mahito Chiba2, Seiji Kakehata2
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P-165 A twin pair with PLA2G6-associated neurodegeneration exhibiting OSA and similar PSG findings
Masaya Tachibana1,2, SHIN NABATAME2, KYOKO HAYASHI2, MIKA HIROTSUNE2, IKUKO HIRATA1,2, GENKICHI IZUMI3, KYOKO HOSHINO1,2,4, IKUKO MOHR1,2, KEIICHI OZONO2, MASAKO TANIKE1,2
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Poster Presentation 29

P-166 A case of ATR-X syndrome with respiratory chain disorders
Kaori Aiba1,2,3, Hajime Sakuma1, Mari Sugimoto1, Norihisa Koyama1, Kenji Yokochi2, Akira Ohtake3
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P-167 A case with severe psychomotor retardation and diarrhea: Vici syndrome caused by EPG5 mutations?
Hidetsugu Nakatsukasa, KYOKO HIRASAWA, SHINO SHIMADA, AKIKO TAKESHITA, HIROKAZU OGUNI, TOSHIYUKI YAMAMOTO, SATORU NAGATA (1.Department of Pediatrics, Tokyo Women's Medical University, Tokyo, Japan, 2.Institute of medical genetics, Tokyo Women's Medical University, Tokyo, Japan)

P-168 A case of Helsmoortel-van der Aa syndrome with severe weight loss
Takahiro Yamamoto, KAZUO KUBOTA, NORIO KAWAMOTO, MINAKO KAWAMOTO, TAKESHI KIMURA, TOHRU HARADA, MITSUKO NAKASHIMA, HIRO TOMO SAITSU, TOSHIYUKI FUKAO (1.Department of Disability Medicine, Graduate School of Medicine, Gifu University, Gifu, Japan, 2.Department of Pediatrics, Graduate School of Medicine, Gifu University, Gifu, Japan, 3.Department of Surgery, Ogaki Municipal Hospital, Ogaki, Japan, 4.Department of Biochemistry, Hamamatsu University School of Medicine, Hamamatsu, Japan)

P-169 A case of Coffin-Siris syndrome with dysplasia in the macular area
Takako Fujita, YUKI KOHARA, Hitomi HAYASHI, Atsushi ISHI, Hiroshi IDEGUCHI, Takahito INOUE, Sawa YASUMOTO, Toshiyuki YAMAMOTO, Shinichi HIROSE (1.Department of Pediatrics, School of Medicine, Fukuoka University, Fukuoka, Japan, 2.Center of medical education, School of medicine, Fukuoka University, Fukuoka, Japan, 3.Institute of medical genetics, Tokyo Women's Medical University, Tokyo, Japan)

P-170 CREBBP mutations identified in patient without Rubinstein—Tybei syndrome phenotype
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P-171 Clinical course of a patient with CAPOS syndrome presenting encephalopathy and recurrent ataxia
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Poster Presentation 30

P-172 Five case reports of NDD patients diagnosed by genetic analysis in our center
Yoko Kishimoto, MAKI OHSAWA, Yuri Ozawa, Kaoru Amemiya, Chika Kono, Yukiko Nakamura, Keniciro Hata, Tadashi Kaname, Fumio Takada, Hiroshi Ozawa (1.Shimada Ryouiku Center Hachiouji, Tokyo, Japan, 2.Medical Genome Center, National Research Institute for Child Health and Development, Tokyo, Japan, 3.Department of Maternal-Fetal Biology, National Research Institute for Child Health and Development, Tokyo, Japan, 4.Department of Genome Medicine, National Research Institute for Child Health and Development, Tokyo, Japan.)

P-173 Collaborated Study of Fragile X syndrome and related diseases for promoting clinical research
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P-174 Repetitive acute encephalopathy, developmental delay and epilepsy in a girl with 1q44 deletion
Emi Iwabuchi, RYUTA TANAKA, TAKASHI TSUKAKOSHI, RYUTARO SUZUKI, TAKURO SATO, HUJIKO FUKUSHIMA, ISHO IZUMI, JYUNKO NAKAYAMA, NOBUKO MORIYAMA, TOSHIYUKI YAMAMOTO (1.IBARAKI CHILDREN'S HOSPITAL, 2.Ibaraki Prefectural University of Health Sciences Hospital, 3.Hitachinaka General Hospital, 4.Tokyo Women's Medical University Institute for Integrated Medical Sciences)

P-175 A fatal case of MERRF at 24 years of age initially presenting by Ohtahara syndrome
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P-176 COL4A1-related disorder presenting severe muscle complications
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P-177 Respiratory care of an adolescent case with congenital central hypoventilation syndrome (Part 2)
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Poster Presentation31

P-178 A five-year-old boy presenting with rapidly progressive walking disability with a CLN6 mutation
Ayumi Matsumoto¹, HITOSHI OSAKA¹, MASAKO NAGASHIMA¹, KAZUHIRO IWAMA², TAKESHI MIZUGUCHI³, TAKAHiro IKEDA¹, KAZUHIRO MURAMATSU¹, NAOMIChI MATSUMOTO², TAKANORI YAMAGATA¹
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P-179 Siblings of Neuronal Ceroid Lipofuscinosis 7
Jun Matsui¹, TAKAO MORIMUNE¹, NORIKO NISHIKURA¹, TATSUYUKI SOKODA¹, YOSHIHIRO MARUO¹, MITSUHIRO KATOU², MITSUKO NAKASHIMA³, NAOMIChI MATSUMOTO³
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P-180 An infant with epileptic spasms and gastroesophageal reflux caused by a de novo DYNC1H1 mutation
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P-181 A patient with dyskinetic cerebral palsy and infantile spasms with de novo mutation in GNB1
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Poster Presentation32

P-183 A case of interstitial deletion of chromosome 3p
Akiko Wakisaka¹, YO NIIDA², SHINYA YAMADA¹, SHINPEI YAMADA¹, AKIKO TOGA¹, AYANO YOKOI¹, NAMI NAKAMURA¹, KEIKO MARUHASHI¹, ICHIROU OHNO¹
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P-184 6q12q13 microdeletion syndrome in a Japanese boy diagnosed with autism spectrum disorder
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P-185 Two cases of mosaic trisomy 8 with body weight gain loss
Keisuke Nakajima¹, KOJII TAKAHAshI¹, MAHO UMEHARa¹, TETSUYA OOTA¹, MITSUHIRO HUKUYAMA²
Poster Presentation 33

P-186 Cervical spinal cord injury due to cervical spinal dysplasia with 22q11.2 deletion syndrome
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P-187 Two cases of 22q11.2 deletion syndrome presenting with convulsions and loss of consciousness
Naoko Nishiguchi, Tatsuharu Sato, Kaoru Moriyama, Kouhei Haraguchi, Kazuhiro Hashimoto, Daishi Inoue, Hiroyuki Moriuchi
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P-188 A genotype-phenotype correlation study for 4 patients with 3p13 deletion involving FOXP1
Keiko Yamamoto-shimojima1,2, WATARU MATSUMURA3, TETSUYA OKAZAKI3, YOSHIHIRO MAEGAKI3, NOBUHIKO OKAMOTO4, TOSHIYUKI YAMAMOTO3
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Poster Presentation 34

P-189 A case of mosaic partial trisomy 13 with borderline of mental retardation
Naomi Hisomi1, HIROSHI KURODA2, JUNPEI KOBAYASHI3, DAISUKE ANDO4, YOJI SASAHARA5, SETSUJI AIBA6, SHIGEO KURE1
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P-190 Leukoencephalopathy assessed by serial MRI in a patient with Jacobsen syndrome
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P-191 Phenytoin-responsive epileptic encephalopathy with a tandem duplication involving FGF12
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P-192 A Japanese girl with hypotonia-cystinuria syndrome
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P-193 Neuropsychological development of a boy with 1q24q25 microdeletion syndrome
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P-194 The evaluation of clinical course in 7 cases of trisomy 18 with home medical care
Kaoru Amemiya, AKIKO MIYATA
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P-195 Short-time admission of children with Trisomy 18 in our hospital
Saya Yamada1,2, Mika Yayakawa1,2, Hiroshi Tarui3, Susumu Sugiura1, Yoshiko Suzuki1, Yuko Hirata1,2, Yukikatsu Ochiai1, Masayuki Imai1
Poster Presentation 34

P-196 Two pediatric cases of abnormal rhythmic movement attacks induced by movements
Mutsumi Mizuno¹, Mari Akiyama¹, Fumika Endoh¹, Nagako Murakami², Osamu Mitani³, Katsuhiro Kobayashi¹
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P-197 A 6 years old girl case of eyelid myoclonia with absences
Satoshi Kidowaki, Kenichi Isoda
(Department of Pediatrics, Matsushita Memorial Hospital, Osaka, Japan)

P-198 A case of cortical myoclonus diagnosed by jerk-locked back averaging
Yu Kakimoto¹, TAKAYUKI MORI¹, SATOSHI TAKENAKA¹, KONOMI SHIMODA¹, ATSUSHI SATO¹, AKIRA OKA¹, MASASHI MIZUGUCHI²
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P-199 High-frequency oscillations of MEG in tuberous sclerosis complex
Yoshiko Iwatani¹, KURSIKO SHIMONO¹, RYOKO HAYASHI¹, MIKA HIROSUNE¹, JUNPEI TANIGAWA¹, KOJI TOMINAGA¹, SHIN NABATAME¹, SATORU OSHINO², HARUHIKO KISHIMA³, KEICHI OZONO¹
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Poster Presentation 35

P-200 Current situation and problems of foreign children with developmental disabilities
Tomoko Matsubayashi¹, KOICHI YAMAMOTO¹, MICHIKO TANAKA¹, ASUKA SEKI¹, YUJI SAKAKURA², KOICHI HIRANO², HIROKAZU SAIGUSA¹
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P-201 Supports for disabled child at the regional hospital: the possibility and problem
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P-202 A study on the necessity of acquisition of sensory information processing function in infancy
Akiko Araki, Takeshi Ujiie
(Ujiie memorial clinic for children, Sapor, Japan)

P-203 Neurocognitive impairment in survivors with pediatric brain tumor
Megumi Nukui¹,², TAKESHI KAMIKUBO³, ATSUSHI HAMAKURA³, MANABU YOSHIHASHI³, KEITA UEDA³, CHIKAKO KIYOTANI³, IORI SATO³, SATOMI SATO³, RYO NISHIKAWA¹, JUNICHI HARA¹
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P-204 Think about the necessity of outpatient departure from developmental patients in the area
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P-205 To spread music therapy to the pediatric medical field
Yukiko Ichida1, NOBORU YOSHIDA2, Taiki Shima1, Mariko Hosozawa1, Mitsuru Ikeno1, Shinpei Abe1, Shinichi Niijima2, Toshiaki Shimizu1
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Poster Presentation 36

P-206 Clinical manifestations of children with neurodevelopmental disorders whose siblings have dyslexia
Genrei Ohta1, MASAO KAWATANI1,4, TAKUYA KOSAKA1, SHIN-ICHIRO TAKIGUCHI2,4, HIROSHI KOMETANI3, MICHIO HIRATANI3, YUSEI OSHISHI1
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P-207 Three junior high school students presenting with reading/writing difficulties
Asuka Muramatsu1, SONOKO MIZOROGI1, KAORU FUJIOKA1, HIDEAKI KANEMURA1, KANJI SUGITA1, MASAO AIHARA2
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P-208 Study of development of new test for dyscalculia
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P-209 Visual information processing in very low birth weight children with learning disability
Miho Fukui1, SHUICHI SHIMAKAWA1, MARI HATANAKA1, MEKUMI MIZUTA2, NAOKO KURIMOTO1, TAKASHI TAKESHITA3, TOMOKO MIURA1, OKUMURA TOMOHITO1, MAKOTO NAKANISHI2, EIJI WAKAMIYA1, HIROSHI TAMA1
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P-210 Two cases of developmental disorder graduated medical support
Aki Kurihara, KAORI SASAKI, SAKIKO KOMORI
(Department of Pediatrics, Tokyo Metropolitan Tama Rehabilitation Center for Disabled Children, Tokyo, Japan)

Poster Presentation 37

P-211 Decision process of drug selection for ADHD in childhood
Yuichi Suzuki1,2, MAKI NODERA1, HIROYUKI MORITA1, ASAKO KATO1, YUKIHIKO KAWASAKI1, MITSUAKI HOSOYA1
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P-212 Effects and side effects of extended—release guanfacine
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P-213 Current status of ADHD medication use at Hamamatsu City Welfare and Medical Center for Development
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P-214 Therapy of guanfacine for children with attention deficit hyperactivity disorder (ADHD)
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P-215 Clinical efficacy study of guanfacine hydrochloride in child ADHD
Tsuyoshi Harada
The 60th Annual Meeting of the Japanese Society of Child Neurology

(The Parkside Heart Development Clinic, Fukuoka, Japan)

P-216 ADHD-RS score judgment using Japanese version score sheet
Hideyo Kinugasa, YURI NAKAMURA, YUMI TADA, TAKAKO MAKI
(Tsukuba Gakuen Hospital, Tsukuba, Japan)

P-217 Improving dyspraxia with guanfacine administration for Attention deficit disorder boy
Seiji Watanabe, Yoshinori Okumura, Akinobu Tamari, Tomomi Murakami
(The Department Pediatric Neurology, Shizuoka Children's Hospital, Shizuoka, Japan)

Poster Presentation

P-218 How long antiepileptic drugs be continued and when EEGs be recorded with frequent febrile seizures
Koji Takahashi, KEISUKE NAKAJIMA, Tetsuya Ohta
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P-219 Clinical characteristics of complex febrile seizures in the acute phase
Tsukasa Tanaka1,2, HIROAKI NAGASE1, KAZUMI TOMIOKA1, MASAIRO NISHIYAMA1, HIROSHI YAMAGUCHI1,2, YUSUKE ISHIDA1,2, YUSUKE TOYOSHIMA1,2, AZUSA MARUYAMA2, HIROSHI KUROSAWA3, KYOKO FUJITA4, YOSHIYUKI UETANI4, SATOSHI TAKADA5, Kazumoto Iijima1
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P-220 The depth of barbiturate coma for refractory status epilepticus with fever
Kazumi Tomioka1, HIROAKI NAGASE1, TSUKASA TANAKA1, MASAIRO NISHIYAMA1, YO OKIDUKA2, YUICHI TAKAMI3, HIROSHI YAMAGUCHI1, YUSUKE ISHIDA2, YUSUKE TOYOSHIMA1, AZUSA MARUYAMA2, HIROSHI KUROSAWA3, KYOKO FUJITA4, YOSHIYUKI UETANI4, SATOSHI TAKADA4, Kazumoto Iijima1
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P-221 A case of tuberous sclerosis with super refractory status epilepticus
Shingo Numamoto, HIROKAZU KURAHASHI, KEI SAKUMA, AKIHISA OKUMURA
(Department of pediatrics, Aichi Medical University, Aichi, Japan)

P-222 Microglial VNUT derived ATP mediates astrogliosis-dependent epileptogenesis after status epilepticus
Fumikazu Sano1,2, EIJI SHIGETOMI1, SCHUICHI KOIZUM1, HIDEAKI KANEMURA2, KAZUHIRO IKENAKA3, KENJI TANAKA4, MASAO AIHARA2
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P-223 An infant case with status epilepticus caused by excessive liquid intake
Fujiko Fukushima1, RYUTARO SUZUKI1, TAKURO SATO1, EMI IWABUCHI1, ISYO IZUMI1
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Poster Presentation

P-224 A case of intractable epilepsy who cured without AEDs, after steroid pulse therapy & pranlukast
Hikaru Kitahara, Yukitoshi Takahashi, Asako Horino, Shinsaku Yoshitomi, Jun Mine, Tokito Yamaguchi, Hideyuki Otani, Hiroko Ikeda, Katsumi Imai, Hideo Shigematsu, Yushi Inoue
(National Epilepsy Center, Shizuoka Institute of Epilepsy and Neurological Disorders, Shizuoka, Japan)
P-225 A case of localization-related epilepsy successfully treated by prograf
Hideyuki Ohtani, Rumiko Takayama, Tomoko Nagase, Hikari Kitahara, Keiko Morioka,
Yasuyuki Ohmatsu, Shinsaku Yoshitomi, Noriyosi Koike, Asako Horino, Jyun Mine,
Tokito Yamaguchi, Hiroko Ikeda, Hideo Shigematsu, Katsumi Imai, Yukitoshi Takahashi
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Shizuoka Japan, 2. Hokkaido medical center for child health and rehabilitation, Hokkaido,
Japan)

P-226 A case of Menkes disease with infantile spasms which responded well to TRH therapy
Koichi Tanda, ATSUNA KOTANI, YOSUKE MIYAMOTO, YUMINA SUGAHARA, AKIRA
NISHIMURA
(The Department of Pediatrics, Japanese Red Cross Kyoto Daiichi Hospital, Japan)

P-227 7 cases of psychogenic non-epileptic seizure successfully treated by psychotherapy
Yoshiko Hirano, Hiroshi Maruyama
(Matudo clinic)

P-228 A case in which kanbakudaisoutou was effective for epilepsy over tic
Suji Hashimoto
(St. Marianna University School of Medicine, Yokohama City Seibu Hospital)

P-229 Effects of antiepileptic drugs on shuddering attacks
Yasushi Ito, HIROKAZU OGUNI, SATOSHI NAGATA
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Poster Presentation 40

P-230 A case of GLUT-1 deficiency with modified Atkins diet for the purpose of promoting development
Kozue Kobayashi, Mitsuhiro Kato, Akira Hojo, Masaru Tatsuno
(Department of Pediatrics, Showa University School of Medicine, Tokyo, Japan)

P-231 Efficacy of ketogenic diet for ESES syndrome and late dumping syndrome: a case report
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Natsume, Yuji Inaba
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Matsumoto, Japan, 4. Department of Pediatric Neurology, Nagano Children's Hospital,
Azumino, Japan)

P-232 An experience of ketogenic diet treatment for brain tumor
Kenji Inoue, TOMOHIRO KUMADA, MINORU SHIBATA, IKUKO HIEJIMA, FUMIITO
NOZAKI, ANRI HAYASHI, MIOKO MORI, SAEEKO SASAKI, TATSUYA FUJII
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P-233 A successful ketogenic diet of PDHC deficiency with Ohtahara syndrome
Maki Toyama, SADAO NAKAMURA, YUIKO HAMADA, YASUTUGU CHINEN, ERI
TAKESHTA, YUICHI GOTO, KOICHI NAKANISHI
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Poster Presentation 41

P-234 Severe arrhythmogenic disorders may cause convulsions
Eri Ogawa, HIROTAKE OOKI, KAZUHIRO SHIBUYA, SAHOKO MIYAMA
(1. Tokyo Metropolitan Children's Medical Center, Department of Pediatric Neurology, Tokyo,
Japan, 2. Tokyo Metropolitan Children's Medical Center, Department of Pediatric Cardiology,
Tokyo, Japan)

P-235 A case of 15q tetrasomy: mental regression with exacerbation of seizures at school age
Akito Watanabe, SHODO HIRANO
(Pediatrics, Toyonaka Municipal Hospital, Osaka, Japan)

P-236 Childhood absence epilepsy with mental deterioration due to frequent seizures
Asami Ito¹,², Shuhei Fujino¹, SAHOKO MIYAMA¹
(1.Department of Pediatric Neurology, Tokyo Metropolitan Children's Medical Center, 2.Department of Pediatrics, Hiratsuka City Hospital)
P-237 A case of refractory epilepsy in which seizure clusters subsided due to cessation of Rufinamide
Seiko Suzuki, YUKO TOMONOH, HIROYUKI FUJITA
(Department of Pediatrics, Kitakyushu Rehabilitation Center for Children with Disabilities, Kitakyushu, Japan)
P-238 Clinical study of benign partial epilepsy in infancy
Shigehiro Nagai, TOMOKO KIRINO, YUMI FUJIHARA, TOMOHIRO FUJII
(Shikoku Medical Center for Children and Adults)
P-239 Analysis of the relation between epilepsy and allergic disease
Takuji Nakamura¹, Muneaki Matsuo²
(1.Department of Pediatrics, National Hospital Organization Ureshino Medical center, Saga, Japan, 2.Department of Pediatrics, Saga University, Saga, Japan)
P-240 A case of hypercalcemia which was caused by ACTH therapy
Reina Ogata, YUKIE YASUNAGA, KYOUKO WATANABE
(National Hospital Organization Kokura Medical Center,Fukuoka,Japan)
P-241 Hypertension accompanied by ACTH therapy
Masumune Sakamoto¹, Yu Fujiwara¹, Itaru Tateishi¹, Fumiko Tanaka¹, Hikari Kaba², Azusa Ikeda², Yoshihiro Watanabe², Saoko Takeshita¹
(1.Saiseikai Yokohamashi Nanbu Hospital, Kanagawa, Japan, 2.Yokohama City University Medical Center Children's Medical Center, Kanagawa, Japan)
P-242 Spontaneous remission of infantile spasms following severe pneumonia
Ayuko Igarashii¹,², Taiki Shima¹, Noboru Yoshida³, Mika Nakazawa¹, Mitsuru Ikeno¹, Shinpei Abe¹, Tomoyuki Nakazawa¹, Shinichi Niijima³, Toshiaki Shimizu¹
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P-243 Unexpected high valproate levels and neutropenia in an infant with West syndrome and SCAD deficiency
Yuki Suzuki¹, SUSUMU ITO¹, YUI OTANI¹, KAORU ETO¹, KEICHI HARA², HIROKAZU OGUNI², SATORU NAGATA¹
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P-244 Asymmetric epileptic spasms after callosotomy in children with West syndrome: lateralizing signs?
Daiki Uchida¹,², TOMONORI ONO¹,², RYOKO HONDA¹,³, YOSHIKI WATANABE¹,³, KEISUKE TODA⁴, HIROSHI BABA⁵
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P-245 Asymmetric epileptic spasms after callosotomy in children with West syndrome: lateralizing signs?
Daiki Uchida¹,², TOMONORI ONO¹,², RYOKO HONDA¹,³, YOSHIKI WATANABE¹,³, KEISUKE TODA⁴, HIROSHI BABA⁵
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P-246 The influence on metabolic functions by enzyme-inducing antiepileptic drugs in children
Noboru Yoshida¹, TOMOYUKI NAKAZAWA², SHINICHI NIJIIMA¹, TOSHIKI SHIMIZU³
P-247 Analysis of valproate-induced hematologic changes in patients with epilepsy
Momoko Oka, Takeshi Matsushige, Fumitaka Kouno, Hirofumi Inoue, Madoka Hoshide, Shunj Hasegawa
(Yamaguchi University Graduate School of Medicine Department of Pediatrics)

P-248 Latent liver fibrosis associated with long-term phenobarbital therapy
Yasu Hachiya, Chisato Seki, Hiromi Seki
(Department of Pediatrics, National Hospital Organization Higashinagano Hospital, Nagano, Japan)

P-249 Investigation of obesity in patients with childhood epilepsy
Chizuru Ikeda, Mami Fukuma, Hidekazu Tachibana, Hitoshi Kashiki, Takumi Okada, Tomoyuki Shimazu, Hiroe Ueno, Hoseki Imamura
(Department of Pediatrics, Kumamoto Saishunso National Hospital, Kumamoto, Japan)

P-250 Quantitative GABA measurement by MR spectroscopy in a case of vigabatrin-induced encephalopathy
Ayako Yamamoto, Tomohide Goto, Tatsuro Kumaki, Kenshi Sei, Yusuke Fuzii, Yoshiaki Ichioka, Megumi Matsumoto, Masashiki Tsuzuki, Mizue Iai, Yoshizumi Yamashita
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P-251 Clinical analysis in patients administered valproic acid or levetiracetam as first-line therapy
Shohei Nomura, Mitsuru Kashiwagi, Chizu Oba, Takuya Tanabe, Hiroshi Tamai
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P-252 Clinical experience with levetiracetam in patients with epilepsy in our department
Takuya Hiraide, Rei Urushibata, Taiju Hayashi, Tomoko Matsubayashi, Tokiko Fukuda
(Department of Pediatrics, Hamamatsu University School of Medicine, Shizuoka, Japan)

P-253 Efficacy of intravenous administration of levetiracetam in a boy with absence status epilepticus
Hazuki Nonoyama, Ryuki Matsuura, Satoru Ikemoto, Shinichiro Hamano
(1.Department of Pediatrics, Atsugi City Hospital, Kanagawa, Japan, 2.Department of Pediatrics, The Jikei University, Tokyo, Japan, 3.Department of Neurology, Saitama Children's Medical Center, Saitama, Japan)

P-254 Usefulness of levetiracetam for the reduction of adverse reactions in an epileptic
Takamasa Kishi
(Department of Pediatrics, KKR Hiroshima Memorial Hospital, Hiroshima, Japan)

P-255 Efficacy and safety of lacosamide in pediatric focal epilepsy
Takayuki Mori, Yuki Kakegawa, Mariko Kasai, Satoshi Takenaka, Konomi Shimoda, Atsushi Satoh, Akira Oka, Masashi Mizuguchi
(1.The Department of Pediatrics, University of Tokyo, Tokyo, Japan, 2.School of International Health, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan)

P-256 Efficacy of lacosamide in patients with intractable epilepsy
Takeya Awashima, Atsuo Nezu, Hidee Arai, Makiko Kurosawa, Yuka Masuda, Jiu Yuguuchi, Naoko Miura, Maiko Kita
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P-257 Prognosis of seizure after treatment for epilepsy in child
Yuichi Takami, Taku Nakagawa
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P-258 Developmental outcome in patients with epileptic spasms: relationship with antibodies to GluN2B
(Shizuoka Institute of Epilepsy and Neurological disorders, Shizuoka, Japan)

P-259 Long term seizure follow up from onset to adulthood in Dravet syndrome
Tomoshiro Ito1,2, Osamu Kawano1, Noriko Namatame1, Kiyoshi Egawa1, Naoko Asahina1, Shinobu Kohsaka1, Hideaki Shiraiishi1
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P-260 The predictive factors of short/long term outcome in children with localization related epilepsy
Sayaka Kamei1,2, FUMIKAZU SANO, HIDEAKI KANEMURA, MASAO AIHARA
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P-261 Factors related to adaptive behavior of childhood epilepsy: preliminary study
Riyo Ueda1, YOSHIMI KAGA1, ERI TAKESHITA2, YUKO SAWAI, TAKASHI SAITO2, YUKO MOTOHASHI2, AKIHIKO ISHIYAMA2, TAKASHI SAITO2, HIROHUMI KOMAKI2, EIJI NAKAGAWA2, KENJI SUGAI2, MASAYUKI SASAKI2, MASUMI INAGAKI1
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Poster Presentation 46

P-262 A study of cases in which head MRI was performed to clarify the cause of headache
Satoru Kobayashi
(The Department of Pediatrics, Nagoya City West Medical Center, Nagoya, Japan)

P-263 Study on preventive treatment of headache in 14 children
Yuko Omata1, Yoshiko Takahashi1, Tomoko Nakazawa1, Yoshimi Watanabe2, Kazuo Kodama2, Hiromi Aoyama2, Taku Omata2
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P-264 Cyclic vomiting syndrome with disturbance of consciousness
Takaaki Sawada1,2, KEN MOMOSAKI2, SHIRO OZASA2, KEIKO NOMURA2
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P-265 The effectiveness of lamotrigine : two patients with intractable cyclic vomiting
Kou Sasaki1, AKIRA KUMAKURA1, Rie Ishimine1, Masatoshi Nakata2, Daisuke Hata1
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P-266 A study of growing pains patient in our clinic
Kaori Ogita1,2, TOSHIYUKI HIKITA1,2, MASAKAZU MIMAKI1
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P-267 New approach for evaluation of orthostatic dysregulation with sleep polygraph
Ryuta Ishii, Masao Suda, Koutarou Yuge, Shinichirou Nagamitsu, Yushirou Yamashita
(The department of pediatrics & child health, Kurume University, Fukuoka, Japan)

Poster Presentation 47

P-268 A case of X-linked Charcot-Marie-Tooth disease diagnosed from family history of acute encephalopathy
Ken Ito1,2, KENTAROU KOGAWA1,2, MISAKO KINOSHITA1,2, KENJIRO KIKUCHI2
(1.The Jikei University, 2.Fuji City General Hospital)

P-269 Two siblings of Charcot-Marie-Tooth disease presenting as recurrent weakness after febrile illnesses
Noriko Nishikura1, TAKAO MORIMUNE1, JUN MATUI1, TATSUYUKI SOKOA1, CHIHIRO SAWAI1, YUKO SAKAUE1, YOSHIHIRO TAKEUCHI1, YOSHIHIRO MARUO1, YUJIRO HIGUCHI2, AKIHIRO HASHIGUCHI2, HIROSHI TAKASHIMA2
A case of Charcot-Marie-Tooth disease 1B recognizing infantile onset MPZ gene mutation
Masao Suda¹, RYUTA ISHI², KOTARO YUGE¹, SHINICHIRO NAGAMITSU¹, AKIHIRO HASHIGUCHI¹, HIROSHI TAKASHIMA², YUSHIRO YAMASHITA¹
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A case of severe Guillain-Barré syndrome associated with human parvovirus B19 infection
Jun Nagahama¹, SHINSUKE MARUYAMA¹, YUSEI BABA¹, CHIHIRO YONEE², KIYOKO SAMESHIMA², KAZUYUKI YTOSUMATA³, NOZOMI SANO², YOSHIFUMI KAWANO¹
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Two cases of critical illness polyneuropathy and myopathy
Tomoko Uchida, KTSUNORI FUJII, KOTA NAGAOKA, HIRONOBU KOBAYASHI, KENTARO OKUNUSHI, NAOKI SAITO, RYOTA EBATA, TADASHI SHIOHAMA, NAOKI SHIMOJO
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A case of childhood chronic inflammatory with demyelinating polyneuropathy with alopecia universalis
Yukimune Okubo¹, KAZUTO SASAKI², TAKUYA MIYABAYASHI¹, RYO SAITO¹, SATO SUZUKI¹, WAKABA ENDO¹, TAKEHIKO INUI¹, NORIKO TOGASHI¹, KAZUHIRO HAGINOYA¹
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An autopsy case of SMID patient with liver cirrhosis due to non-1-coholic steatohepatitis
Yumi Okoshi¹, KEIKO TOMINAGA¹, JINRO NAGATA¹, NAOYUKI TANUMA¹, Michiro Fukumizu¹, Nobutaka Araki¹, Touri Igari³
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The central nervous system disorder in three autopsy cases of Duchenne muscular dystrophy
Hidetoshi Ishigaki, HIROFUMI KOMAKI, ERI TAKESHITA, YUKO MOTOHASHI, AKIHIKO ISHIYAMA, TAKASHI SAITO, EIJI NAKAGAWA, KENJI SUGAI, YUKO SAITO, MASAYUKI SASAKI
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An autopsy report of peliosis hepatis associated with myotubular myopathy
Daisuke Ieda¹, AYAKO HATTHORI¹, IKUMI HORI¹, YUJI NAKAMURA¹, YUTAKA NEGISHI¹, TAKESHI ENDO¹, NAOKI ANDO¹, KANA FUJII², TAKEYUKI MURASE², HIROSHI INAGAKI¹, IKUYA NONAKA², SHINJI SAITO¹
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Development of the human superior colliculus: a morphological study
Katsuyuki Yamaguchi
(Department of Pathology, Dokkyo Medical University, Mibu, Japan)

Image analyses of Arterial spin labeling (ALS) to find usefulness for Acute encephalopathy

Poster Presentation 48
P-275 An autopsy case of SMID patient with liver cirrhosis due to non-1-coholic steatohepatitis
Yumi Okoshi¹, KEIKO TOMINAGA¹, JINRO NAGATA¹, NAOYUKI TANUMA¹, Michiro Fukumizu¹, Nobutaka Araki¹, Touri Igari³
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P-276 The central nervous system disorder in three autopsy cases of Duchenne muscular dystrophy
Hidetoshi Ishigaki, HIROFUMI KOMAKI, ERI TAKESHITA, YUKO MOTOHASHI, AKIHIKO ISHIYAMA, TAKASHI SAITO, EIJI NAKAGAWA, KENJI SUGAI, YUKO SAITO, MASAYUKI SASAKI
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P-277 An autopsy report of peliosis hepatis associated with myotubular myopathy
Daisuke Ieda¹, AYAKO HATTHORI¹, IKUMI HORI¹, YUJI NAKAMURA¹, YUTAKA NEGISHI¹, TAKESHI ENDO¹, NAOKI ANDO¹, KANA FUJII², TAKEYUKI MURASE², HIROSHI INAGAKI¹, IKUYA NONAKA², SHINJI SAITO¹
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P-278 Development of the human superior colliculus: a morphological study
Katsuyuki Yamaguchi
(Department of Pathology, Dokkyo Medical University, Mibu, Japan)

Poster Presentation 49
P-279 Image analyses of Arterial spin labeling (ALS) to find usefulness for Acute encephalopathy
Masanori Ito1, KOZUE KUWABARA1, MITSUMASA FUKUDA2, TAKAHIRO MOTOKI3
(1.Ehime Prefectural Central Hospital, 2.Ehime Prefectural Niihama Hospital, 3.Ehime University Graduate School of Medicine, Department of Pediatrics)

P-280 Brain MRI findings of six infants with child abuse: shaken baby syndrome, neglect and physical abuse
Rie Ishimine, Akira Kumakura, Kouta Sasaki, Daisuke Hata
(Kitano hospital tazuke kofukai medical research institute, Osaka, Japan)

P-281 A case of the acute cerebellar ataxia which admitted a lesion in posterior funiculus by MRI
Manaka Matsunaga, Kazuyuki Yotsumata
(Kagoshima City Hospital, Kagoshima, Japan)

P-282 A case of leptomeningeal melanomatosis mimicking Sturge-Weber syndrome type 3
Syoko Yamauchi1, Tetsuhiro Fukuyama1, Yuka Hattori1, Hideko Nakajima1, Yuka Misawa1, Yuji Inaba1, Machiko Hosoya2
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P-283 A case of interhemispheric arachnoid cyst detected in fetal period
Yosuke Miyamoto, ATSUNA KOTANI, YUMINA SUGAHARA, KOICHI TANDA, AKIRA NISHIMURA
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P-284 Is FCD Type 1 detectable by MRI?
Tokito Yamaguchi, Ichirou KUKI, Kazuki Tsukamoto, Akito Watanabe, Asako Horino, Sinsaku Yoshitomi, Rumiko Takayama, Hideyuki Ohtani, Hiroko Ikeda, Katsumi Imai, Hide Shigematsu, Yukitoshi Takahashi, Naotaka Usui, Kazumi Matsuda, Yushi Inoue
(National Epilepsy Center, Shizuoka Institute of Epilepsy and Neurological Disorder, Shizuoka Japan)

P-286 Two Duchenne muscular dystrophy patients with cerebral infarction
Fumihito Nozaki, Tomohiro Kumada, Minoru Shibata, Kenji Inoue, Saeko Sasaki, Anri Hayashi, Tatsuya Fuji
(Department of Pediatrics, Shiga Medical Center for Children, Moriyama, Shiga)

P-287 A study of the association between scoliosis and the age of ambulatory loss in dystrophinopathy
Terumi Murakami1,2, Takahisa Tamura1, Mikiya Suzuki1, Kazunari Monma1, Toshiki Shigeyama3, Sachiko Namatame3, Yuka Wakabayashi1, Kouhei Morimoto1, Kana Yatabe3, Katsuhisa Ogata1
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P-288 A severe LMNA-related congenital muscular dystrophy caused by a novel mutation
Lee Tomoko1, Hideki Shimomura1, Chikako Mure1, Maiko Misaki1, Tsubasa Koda1, Akio Shibata1, Kumi Kawamoto1, Yoko Okada2, Makoto Koizumi2, Kyoko Ito3, Yasuhiro Takashima1
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P-289 A case of CFTD with progressive cerebellar atrophy presented a diagnostic difficulty
Sadaro Nakamura1, MAKI TOMIYAMA1, YUIKO HAMADA1, YASUTUGU CHINEN1, ICHIZO NISHINO2, KOICHI NAKANISHI1
P-290 An early treatment for rhabdomyolysis by viral infection in Fukuyama congenital muscular dystrophy
Hirokazu Takechi¹, Atsuko Oba¹, Kenjiro Kikuchi², Yasuyuki Wada¹
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P-291 A case of severe dilated cardiomyopathy caused by compound heterozygous of FKTN gene point mutations
Naoko Shiba¹,², AKINORI NAKAMURA³,⁴, TOMOHIRO CHIYONOBU¹, TATSUJI HASEGAWA¹, MICHIKO YOSHIDA¹, AKARI TAKAI¹, SATOSHI SAKAUE¹, YUI ZEN¹, TAKASHI MORITA¹, MASAFUMI MORIMOTO¹
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P-292 Effects of Nusinersen for spinal muscular atrophy type 1 and type 2 less than 3—years of age
Takenori Tozawa¹, TOMOHIRO CHIYONOBU¹, TATSUJI HASEGAWA¹, MICHIKO YOSHIDA¹, AKARI TAKAI¹, SATOSHI SAKAUE¹, YUI ZEN¹, TAKASHI MORITA¹, MASAFUMI MORIMOTO¹
(1. Department of Pediatrics, Graduate School of Medical Science, Kyoto Prefectural University of Medicine, Kyoto, Japan, 2. Kyoto chubu medical center, Nantan, Japan)

P-293 A case of spinal muscular atrophy type 1 treated with Nusinersen
Daisuke Tajima, Kohsuke Tsuji, Katsuya Tashiro
(Department of Pediatrics, Karatsu Red Cross Hospital, Saga, Japan)

P-294 Explore evaluation methods of therapeutic effect on spinal muscular atrophy
Kotaro Yuge¹, MASAO SUDA¹, RYUTA ISHII¹, TOSHIHIRO MORISAKI¹, SHINICHIRO NAGAMITSU¹, MOTOMU YOSHIDA², MINORU YAGI², YUSUHIRO YAMASHITA¹
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P-295 An SMA patient with a SMN hybrid gene, presenting an intermediate phenotype between types 2 and 3
Mari Sugimoto¹, HAJIME SAKUMA¹, KAORI AIBA¹, YASUKO TOGAWA¹, NORIHISA KOYAMA¹, KENJI YOKOCHI², HISAIHIDE NISHIO³
(1. Toyohashi municipal hospital, Aichi, Japan, 2. Seirei mikatahara general hospital, Shizuoka, Japan, 3. Kobe university graduate school of medicine, Kobe, Japan)

P-296 A case of severe spinal muscular atrophy type 1 with the necroses of the fingers and toes
Mari Inami, MAKIKO SHIMAZAKI, YOHANE MIYATA, MIWA NAKAGAWA, KOZUE OHKUMA, SAMON TANAKA, KUNIMASA YAN
(Kyorin university faculty of medicine department of pediatrics)

P-297 Spinal muscular atrophy type 0 with eye movement disorder from neonatal period
Moeri Tsuji, FUMIYA YAMASHITA, KENICHI MAEDA, RYOKO NAKAMURA, PINFEE CHONG, RYUTARO KIRA
(Department of Pediatric Neurology, Fukuoka Children's Hospital, Fukuoka, Japan)

Poster Presentation 51

P-292 Effects of Nusinersen for spinal muscular atrophy type 1 and type 2 less than 3—years of age
Takenori Tozawa¹, TOMOHIRO CHIYONOBU¹, TATSUJI HASEGAWA¹, MICHIKO YOSHIDA¹, AKARI TAKAI¹, SATOSHI SAKAUE¹, YUI ZEN¹, TAKASHI MORITA¹, MASAFUMI MORIMOTO¹
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P-293 A case of spinal muscular atrophy type 1 treated with Nusinersen
Daisuke Tajima, Kohsuke Tsuji, Katsuya Tashiro
(Department of Pediatrics, Karatsu Red Cross Hospital, Saga, Japan)

P-294 Explore evaluation methods of therapeutic effect on spinal muscular atrophy
Kotaro Yuge¹, MASAO SUDA¹, RYUTA ISHII¹, TOSHIHIRO MORISAKI¹, SHINICHIRO NAGAMITSU¹, MOTOMU YOSHIDA², MINORU YAGI², YUSUHIRO YAMASHITA¹
(1. Department of Pediatrics, Kurume University School of Medicine, Fukuoka, Japan, 2. Department of Pediatric Surgery, Kurume University School of Medicine, Fukuoka, Japan)

P-295 An SMA patient with a SMN hybrid gene, presenting an intermediate phenotype between types 2 and 3
Mari Sugimoto¹, HAJIME SAKUMA¹, KAORI AIBA¹, YASUKO TOGAWA¹, NORIHISA KOYAMA¹, KENJI YOKOCHI², HISAIHIDE NISHIO³
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(Kyori university faculty of medicine department of pediatrics)

P-297 Spinal muscular atrophy type 0 with eye movement disorder from neonatal period
Moeri Tsuji, FUMIYA YAMASHITA, KENICHI MAEDA, RYOKO NAKAMURA, PINFEE CHONG, RYUTARO KIRA
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Poster Presentation 52

P-298 Effectiveness of hydrochlorothiazide in a family with normokalemic periodic paralysis
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P-299 Myotonia congenita successfully treated with carbamazepine and acetazolamide
Kazushi Ichikawa1, TATSURO KUMAKI1, AYAKO YAMAMOTO1, TAKESHI SEI1, YU TSUYUSAKI1, MEGUMI TSUJI1, MIZUE IAI1, SUMIMASA YAMASHITA1, KENJI KUROSAWA2, TOMOHIDE GOTO1
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P-300 One family of congenital myotonia
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P-301 Care and prevention of foot disorders in Bethlem myopathy patients
Kumiko Ishiguro1, KEIKO ISHIKAMI1, TAKATOSHI SATO1, MINOBU SHICHIJI1, TERUMI HIRAIHARA1,2, ICHIZO NISHINO1, MADOKA MORI1, SATORU NAGATA1
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Poster Presentation53

P-302 Sequence analysis of KCNQ2 in acute encephalopathy with biphasic seizures and late reduced diffusion
Akiko Shibata1,2, MAKIKO SAITO1, HIROSHI MATSUMOTO3, SAWAKO YAMAZAKI4, AI HOSHI2, ATSUSHI ISHI2, SHINICHI HIROSE5, AKIRA OKA1, MASASHI MIZUGUCHI1
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P-303 Retrospective study of 6 patients with AESD in our hospital
Tatsuya Kawaguchi, TAKAHUMI SAKAKIBARA, MIDORI SHIMA
(Department of Pediatrics, Nara medical university)

P-304 Hyperglycemia in children with febrile status epilepticus and AESD
Takuya Hayashida1, Wataru Matsumura1, Yoshiaki Saito1, Yoshihiro Maegaki1, Masami Togawa2
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P-305 Acute encephalopathy developing after non-prolonged and non-complicated febrile seizure
Yuji Sugawara, SAYAKA TAKEDA, TAKESHI HASEGAWA
(Department of Pediatrics, Soka Municipal Hospital, Soka, Japan)

P-306 An acute encephalopathy with reduced diffusion in BRAF-associated cardio-facial-cutaneous syndrome
Sayaka Okuzono1, YASUNARI SAKAI1, MARIE NODA1, SOOYOUNG LEE2, RYOKO FUKAI1, NORIKO MIYAKE1, MASAFUMI SANEFUJI1, SATOSHI AKAMINE1, YOSHIHITO ISHIKAMI1, HIROYUKI TORISU1, RYUTARO KIRA2, NAOMICHI MATSUMOTO4, SHOICHI OHGA1
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P-307 Cross spectrum analysis of electroencephalography during the acute phase in AESD
Masayoshi Oguri1, Yoshiaki Saito2, Hitoshi Sejima3, Hiroyuki Trisu4, Sooyoung Lee5, Toru Okanishi6, Yasuaki Hirooka1, Yoshihiro Maegaki2
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Poster Presentation 54

P-308 Two cases of AESD complicated with spasms in recovery phase
Kiyotaka Zaha, KENJI UEMATSU, YASUKO NAKAMURA, HIROSHI MATSUMOTO
(National Defense Medical College, Department of Pediatrics, Saitama, Japan)

P-309 Arterial-Spin-Labeling MRI in acute phase of AESD
Hirokazu Tsuchie, Takuya Hayashida, Hiroyuki Yamada, Wataru Matsumura, Yoshiaki Saito, Yoshibiro Maegaki, Kouhei Haraguchi, Nanako Nishiguchi, Kazuhiko Hashimoto, Tatsuharu Sato
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P-310 Regional cerebral blood flow analysis in acute encephalopathy by MRI 3D—arterial spin labeling
Rei Urushibata, Taiju Hayashi, Takuya Hiraide, Tokiko Fukuda
(Department of Pediatrics, Hamamatsu University School of Medicine, Shizuoka, Japan)

P-311 Cerebrospinal fluid amino acid profiling of patients with encephalopathy
Mitsuji Moriya, RIKIO SUZUKI, TARO KITAMURA, TOSHIYUKI NISHIO, MASARU TAKAYANAGI, TOSHIHIRO OHURA
(The Department of Pediatrics, Sendai City Hospital, Miyagi, Japan)

P-312 Early heart rate after visit of hospital and prognosis of acute encephalopathy patient
Sora Okita, ATSUKO KANAGAWA, TOMOSHI NAKAJIRI, Kaori Sasaki, ATSUSI NISIYAMA, YOSHINOBU OYAZATO
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P-313 12 cases of acute necrotizing encephalopathy of childhood
Mitsui Moriya, RIKIO SUZUKI, TARO KITAMURA, TOSHIYUKI NISHIO, MASARU TAKAYANAGI, TOSHIHIRO OHURA
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Poster Presentation 55

P-314 Brain MRI in three directions reveals the inflammation site of the limbic encephalitis
Kyojuke Ibi, Katsunori Fujii, Mariko Arakawa, Yuta Asakura, Akihiro Iguchi, Shuichi Tanese, Yuri Fujibe, Hironobu Kobayashi, Masayoshi Senda, Katsuhiko Kitazawa, Akihito Honda
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P-315 Limbic encephalitis due to herpes simplex virus in case of 8-year-old girl
Miki Iizumi, KAZUHIRO YAMAMOTO, HIDETSUNA TSUNOMIYA, SATOSHI ONISHI, MICHIKO KITA, YUYA HASHIMURA, YO OKIZUKA, TAKAMICHI UCHIYAMA, HIROTAKA MINAMI
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P-316 A case of various neurological symptoms accompanied with reversible splenial lesions
Tsukasa Ohashi, SAWAKO YAMAZAKI, KAZUKI KODERA
(1. Department of Pediatrics, Niigata University Medical and Dental Hospital, Niigata, Japan, 2. Department of Pediatrics, Niigata Minami Hospital, Niigata, Japan)

P-317 Transient diabetes insipidus in neonatal encephalitis associated with human parechovirus type 3
Yuto Arai, Hiroki Nikaido, Naoko Koseki, Toshihde Watanabe
(Hokkaido Medical Center for Child Health and Rehabilitation, Hokkaido, Japan)

P-318 Congenital adrenal hyperplasia-associated encephalopathy of neonatal onset
Marie Sasaki, Toshihke Takenouchi, Yuki Sakaguchi, Takao Takahashi
(1. Department of Pediatrics, School of Medicine, Keio University, Tokyo, Japan, 2. Center for Medical Genetics, Keio University School of Medicine, Tokyo, Japan)

P-319 Three cases of ROHHAD syndrome suspected of encephalitis/encephalopathy at onset
Tae Ikeda, KEN NAKAJIMA, RIE NAKAI, TAIKAN OBOSHI, TOMOKAZU KIMIZU, YUKIKO MOGAMI, KEIKO YANAGIHARA, YASUHIRO SUZUKI
(Osaka Women’s and Children’s Hospital, Osaka, Japan)

P-320 A suspected reversible cerebral vasospasm in syn with recurrent thunderclap headache for 3 month
The 60th Annual Meeting of the Japanese Society of Child Neurology

Yusuke Aoki¹, Yasuko Kojima¹, Mahito Atobe¹, Motomasa Suzuki¹, Kazuya Itomi¹, Hirokatsu Osawa²
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Poster Presentation 56

P-321 Venous angioma with arteriovenous shunt
Yuri Sonoda¹,², Yuko Ichimiya¹,², Kouichi Arimura¹, Satoshi Akamine¹, Michiko Torio¹, Yoshito Ishizaki¹, Masafumi Sanefuji¹, Yasunari Sakai¹,², Shoichii Ohga¹
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P-322 A case of medullary venous malformation with transient thrombosis in its central medullary vein
Ruka Nakasone¹, Hidetsuna Utsunomiya², Yu Kageyama³, Atsuko Hara², Shogo Hukuya², Kazushige Maeno¹, Michiko Onishi¹, Yuya Hashimura¹, Takamichi Uchiyama¹, Yo Okizuka¹, Hirotaka Minami¹
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P-323 Rhythmic high voltage slow wave and big build up on EEG in two patients with Moyamoya disease
Mayu Ohtsu¹,², Humiko Tanaka¹
(1.The Department of Pediatrics, Saiseikai Yokohamashi Nanbu Hospital, Kanagawa, Japan, 2.The Department of Neuropediatrics, Chiisaki Hanano Sono, A Society of St. Telegia, Kanagawa, Japan)

P-324 Reduced diffusion of white matter after stroke like episode in a boy with Sturge-Weber syndrome
Kenichi Maeda, Fumiya Yamashita, Ryoko Nakamura, Chong Pin Fee, Ryutaro Kaira
(Departments of Pediatric Neurology, Fukuoka Children's Hospital, Fukuoka, Japan)

Poster Presentation 57

P-325 A case of infantile onset idiopathic intracranial hypertension
Fumiya Yamashita, KENICHI MAEDA, RYOKO NAKAMURA, PIN FEE CHONG, RYUTARO KIRA
(Department of Pediatric Neurology, Fukuoka Children's Hospital, Fukuoka, Japan)

P-327 A difficult diagnosis of cerebrospinal fluid leak in a girl with no traumatic injury
Mari Tani¹, Rie Tomita², Kaori Koyano¹, Yukihiko Konishi¹, Tomoko Nishida³, Takashi Kusaka¹
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P-328 A case of factor XI deficiency presenting with prolonged course of traumatic subdural hematoma
Nobuyoshi Sugiyama¹, Mariko Ikegami¹,², Chinami Kaiga¹, Yoshihiro Miyashita¹, Shin-Ichi Matsuda¹
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P-329 A symptomatic epidural fluid collection after lumbar puncture
Yoshikazu Kitami, Asami Ito, Takayuki Mori, Sahoko Miyama
(The Department of Neurology, Tokyo Metropolitan Children's Medical Center, Tokyo, Japan)

P-330 A case of Chiari II malformation with apnea and dysphagia who showed improvement during the course
Nozomi Sano¹, Chihiro Yonee¹, Mayumi Matsufuji¹, Shingo Fujio², Tatsuki Ooyoshi²
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