

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

**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 (Paediatric 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 Lecture2

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 Lecture3

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 Lecture4

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 Lecture5

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 Hokkuri Senddai)

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)

Symposium1

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

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- 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
Hirosaki Sakuma¹, HIROKO TADA^{1,2}, TOMONORI SUZUKI^{1,3}, SETSUKO HASEGAWA^{1,3}, TAKAKO MATSUOKA^{1,4}
(1. Department of Brain Development and Neural Regeneration, Tokyo Metropolitan Institute of Medical Science, Tokyo, Japan, 2. Division 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.)

Symposium2

- 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)

Symposium3

- 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 patients'

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association

Michiyo Yoshida (Association for Congenital Toxoplasma and Cytomegalovirus Infections, Japan)

Symposium4

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^{1,2}, HARUKA SUGIMOTO², YUICHI GOTO²
(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 mitochondria 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)

Symposium5

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 Aoki¹, Christina Andica¹, Akifumi Hagiwara^{1,2}
(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)

Symposium6

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 the treatment of Angelman syndrome
Kee-Hong Kim¹, Jennifer Daily¹, Anthony Arulanandam¹, Mark J. Pykett¹, Kevin Nash², Edwin J Weeber²
(1. Agilis Biotherapeutics, USA, 2. University of South Florida, USA)

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- 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)

Symposium7

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 these seizures and epilepsy with a future classification road map
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)
- 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)

Symposium8

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)

Symposium9

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 nerve disorders ; Hereditary neuropathy

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

Symposium10

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)

Symposium11

Chair: Hirotooshi 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)

Symposium12

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)

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- 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)

Symposium13

Chair: Kyoko Tanaka (Department of Psychosocial Medicine National Center for Child Health and Development),
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 Support & 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 Development)

Symposium14

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)

Symposium15

Chair: Masaya Kubota (National Center for 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 Okanishi¹, Ayataka Fujimoto² (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 spectrum disorder and TAND
Atsushi Sato (Department of Pediatrics, The University of Tokyo Hospital, Tokyo, Japan)
- 5) Tuberous Sclerosis-transition issues
Harumi Yoshinaga¹, FUMIKA ENDOH² (1. Minami-Okayama Medical Hospital, Tsukubo, Japan, 2. Department of Child Neurology, Okayama University Hospital, Okayama, Japan)

Symposium16

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)

Symposium17

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)

Symposium18

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

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

Symposium19

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)

Symposium20

Chair: Hirotomo Saito (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 Saito (Department of Pediatrics and Neonatology, Nagoya City University Graduate
School of Medical Sciences, Nagoya, Japan.)

Symposium21

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)

Symposium22

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 sbuse
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 Emergensity, 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)

Symposium23

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 neuromatabolic 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-Pickdisease 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.Department 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 Epileptics 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 convulsive status epilepticus as second line treatment
Ryuki Matsuura^{1,2}, 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 in treatment of status epilepticus
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, Tokyo 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

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- 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 Seminar1

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 Seminar2

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, YOSHIMI 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, Asahikawa Habilitation Center for Disabled Children, Asahikawa, Japan, 3.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, Fuki, 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 Seminar3

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, YOSHIYASU 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,

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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-
Hiroschi Otake (Showa University School of Medicine, Tokyo, Japan)

Committee's Seminar4

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

Seminar hold by the Joint Research Support Committee, Part1: The reports of the collaborative studies supported by the Japanese Society of Child Neurology

- 1) Metabolome analysis in acute encephalitis/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 Azumagawa¹, ICHIRO NAKASHIMA², KIMIHIKO KANEKO, HIROYUKI TORISU, YASUNARI SAKAI, RYUTARO KIRA, HIROSHI SAKUMA, KEIKO TANAKA, HIDETO NAKAJIMA, SHUICHI SHIMAKAWA, HIROSHI TAMAI (1. The Department of Pediatrics, Seikeikai 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
Toyojiro Matsuishi¹, KOTARO YUGE², 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 Seminar5

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

Seminar hold 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 Seminar6

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

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- 2) Naoko Ishihara (Department of Pediatrics, Fujita Health University School of Medicine)
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 Seminar7

- 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 (Aiku Research Institute, Imperial Gift Foundation, Tokyo, Japan)

Committee's Seminar8

- 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 Seminar1

- 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 Seminar2

- 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

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- 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 Shiraishi (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 electrophysiological evaluation of brain function in children with developmental disorders
Yoshimi Kaga (Department of Developmental Disorders, National Institute of Mental Health, NCNP, Tokyo, Japan)
- 4) Electrophysiological 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 Funatsuka (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)

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

Practical Education Seminar6

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 Seminar7

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 Seminar8

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 Seminar9

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

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- 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 Seminar10

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) Intervention to childhood autism spectrum disorder: its trend between past and future
Mikio Hiraiwa (Rabbit developmental research, Saitama, Japan)
 - 2) Applied Behavior Analysis (ABA) as a 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 Seminar11

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 Seminar12

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 Seminar1

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 Seminar2

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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 Seminar3

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 Seminar4

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 Seminar5

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 Seminar6

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 Seminar7

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 Seminar8

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 Seminar9

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 Seminar10

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 Seminar11

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 Seminar12

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 Seminar13

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 Seminar14

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) Unsuig function of AMPA/glutamate receptor in neurology, psychiatry and neuroscience
Motohiro Okada (Department of Neuropsychiatry, Mie University Graduate School of Medicine, Tsu, Japan.)

Luncheon Seminar15

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 elecrotretinogram recording in vigabatrin-exposed patients
Tomoka Kanbe (Division of Ophthalmology, Saitama Children's Medical Center, Saitama, Japan)

Luncheon Seminar16

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 Seminar17

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 Seminar18

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 Seminar19

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 Seminar20

Chair: Atsuo Nezu (Yokohama Medical and Welfare Centre, Konan)
For advance in the uptake of the Japan Obstetric Compensation System

Luncheon Seminar21

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. Mendell^{2,3,4}, Samiah Al-Zaidy^{2,3}, Richard Shell³, W. Dave Arnold⁴, Louise Rodino-Klapac^{2, 4}, Thomas W. Prior⁵, Linda Lowes^{2, 3}, Lindsay Alfano^{2, 3}, Katherine Berry^{2, 3}, Kathleen Church^{2, 3}, John T. Kissel³, Sukumar Nagendran¹, James L'Italien¹, Courtney Wells¹, Arthur H.M. Burghes^{4, 6}, Kevin D. Foust¹, Kathrin Meyer², Shibi Likhite², Brian K. Kaspar^{2, 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 Session1

- 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 Wu^{1, 3}, Hiroko Yanagisawa¹, Keiko Akiyama¹, Takashi Miyajima^{1, 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 iPSC cells
Takeshi Yoshida^{1, 2}, Tomonari Awaya³, Tatsuya Jonouchi², Ryo Kimura³, Shigemi Kimura⁴, Kanako Maizuru¹, Masatoshi Nakata^{1, 3}, Atsushi Yokoyama¹, Takumi Era⁵, Hidetoshi Sakurai², Toshio Heike^{1, 6}
(Department of pediatrics, Kyoto University Hospital, Kyoto, Japan¹, Center for iPSC Cell Research and Application (CiRA), Kyoto University, Kyoto, Japan², Department of Anatomy and Developmental Biology, Graduate School of Medicine, Kyoto University, Kyoto, Japan³,

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Kumamoto City Child Development Support Center, Kumamoto, Japan⁴, Department of Cell Modulation, Institute of Molecular Embryology and Genetics (IMEG), Kumamoto University, Kumamoto, Japan⁵, Department of Pediatrics, Hyogo Prefectural Amagasaki General Medical Center, Hyogo, Japan⁶)

- 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 Neurology, The University of Tokyo, Tokyo, Japan²)

English Session2

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 Hamano^{1,2}, 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 Neurology, 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, Takashi Tokunaga³, Riku Hamada³, Asami Ito⁴, Yuki Matsuyama^{5,6}, Eiji Kurihara¹, Hideaki Mashimo¹, Yohane Miyata¹, Ikuko Shirai¹, Kuniko Kohyama⁷, Hiroshi Sakuma⁷, Yasuhiro Nakata², Satoko Kumada¹ (Department of Neuropediatrics, 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 Yamamoto^{1,2}, Yusaku Miyamoto^{1,2}, Kanako Takeda^{1,2}, 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 Session3

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

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- Kazuyuki Nakamura¹, Mitsuhiro Kato^{1, 2}, Takahiro Abiko¹, Takashi Kanbayashi³, Mitsuko Nakashima^{4, 5}, Hiroto Saito^{4, 5}, Naomichi Matsumoto⁵
(Department of Pediatrics, Yamagata University Faculty of Medicine, Yamagata, Japan¹, Department of Pediatrics, Showa University School of Medicine, Tokyo, Japan², Department of Psychiatry, Akita University Graduate School of Medicine, Akita, Japan³, Department of Biochemistry, Hamamatsu University School of Medicine, Hamamatsu, Japan⁴, Department of Human Genetics, Yokohama City University Graduate School of Medicine, Yokohama, Japan⁵)
- E-012 A sporadic case of CAPOS syndrome
Hiroyuki Kashii^{1, 2}, Itaru Hayakawa², Hiroshi Terashima², Rika Kosaki³, Kenjiro Kosaki⁴, Hiroshi Watanabe¹, Masaya Kubota²
(Department of Pediatrics, Teikyo University Hospital, Mizonokuchi, Kawasaki, Japan¹, Division of Neurology, National Center for Child Health and Development, Tokyo, Japan², Division of Medical Genetics, National Center for Child Health and Development, Tokyo, Japan³, Center for Medical Genetics, Keio University School of Medicine, Tokyo, Japan⁴)
- E-013 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 Hori¹, Yutaka Negishi¹, Naoki Ando^{1, 5}, Ichiro Kuki², Naomichi Matsumoto³, Shinichi Hirose⁴, Shinji Saitoh¹
(Department of Pediatrics and Neonatology, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan¹, Department of Pediatric Neurology, Osaka City General Hospital, Osaka, Japan², Department of Human Genetics, Yokohama City University Graduate School of Medicine, Yokohama, Japan³, Department of Pediatrics, School of Medicine, Fukuoka University, Fukuoka, Japan⁴, Josai Kids Clinic, Nagoya, Japan⁵)
- E-014 Intra-cellular localization to validate pathogenicity for genetic diseases
Takeshi Kouga¹, Hitoshi Osaka¹, Chihiro Ohba², Eriko Jimbo¹, Takanori Yamagata¹, Hiroto Saito³, Naomichi Matsumoto²
(Department of Pediatrics, Jichi Medical University, Tochigi, Japan¹, Department of Human Genetics, Graduate School of Medicine, Yokohama City University, Yokohama, Japan², Department of Biochemistry, Hamamatsu University School of Medicine, Hamamatsu, Japan³)
- E-015 Paroxysmal dyskinesia disorders diagnosed by comprehensive genetic analysis.
Naoko Ishihara¹, Misa Miyake¹, Yoshiki Kawamura¹, Hidehito Inagaki², Takema Kato², Makiko Tsutsumi², Tadayoshi Hata³, Tetsushi Yoshikawa¹, Hiroki Kurahashi²
(Department of Pediatrics, Fujita Health University School of Medicine, Toyoake, Japan¹, Division of Molecular Genetics, Institute for Comprehensive Medical Science, Fujita Health University, Toyoake, Japan², Faculty of Medical Technology, Fujita Health University School of Health Sciences, Toyoake, Japan³)
- E-016 Utility of single-fiber electromyography in patients with *CACNA1A* mutation
Ayaka Hirasawa¹, Akihiko Ishiyama¹, Eri Takeshita¹, Yuko Shimizu-motohashi¹, Takashi Saito¹, Hiroyuki Komaki¹, Eiji Nakagawa¹, Kenji Sugai¹, Shota Yuasa², Kohei Hamanaka³, Satoko Miyatake³, Naomichi Matsumoto³, Masayuki Sasaki¹
(Department of Child Neurology, National Center Hospital, National Center of Neurology and Psychiatry (NCNP), Tokyo, Japan¹, Department of Pediatrics, Kameda Medical Center, Chiba, Japan², Department of Human Genetics, Yokohama City University Graduate School of Medicine, Yokohama, Japan³)

English Session4

- Chair: Tomohiro Chiyonobu (Department of Pediatrics, Kyoto Prefectural University of Medicine, Kyoto, Japan),
Tomonari Awaya (Department of Anatomy and Developmental Biology, Kyoto University Graduate School of Medicine, Kyoto, Japan, Translational Research Department for Skin and Brain Diseases, Kyoto University Graduate School of Medicine, Kyoto, Japan)
- E-017 Prenatal Zika virus infection in mice dysregulates cortical development and causes microcephaly
Kimino Fujimura^{1, 2, 3}, Tojo Nakayama^{1, 4}, Dylan Vaughan^{1, 4}, Andrew Kodani^{1, 5}, Ann Durbin⁶, Irene Bosch⁷, Mauro Teixeira⁸, Lee Gehrke^{6, 7, 9}, Ganeshwaran Hitoshi Mochida^{1, 4, 10}
(Division of Genetics and Genomics, Department of Medicine, Boston Children's Hospital, MA, USA¹, Department of Pediatrics, Keio University School of Medicine, Tokyo, Japan², Department of Pediatrics, Shin-yurigaoka General Hospital, Kawasaki, Kanagawa, Japan³, Department of Pediatrics, Harvard Medical School, Boston, MA, USA⁴, Department of

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Biochemistry and Biophysics, Cardiovascular Research Institute, University of California, San Francisco, CA, USA⁵, Program in Virology, Division of Medical Sciences, Harvard Medical School, Boston, MA, USA⁶, Institute for Medical Engineering and Science, Massachusetts Institute of Technology, Cambridge, MA, USA⁷, Department of Biochemistry and Immunology, Institute of Biological Sciences, Universidade Federal de Minas Gerais, Belo Horizonte, Brazil⁸, Department of Microbiology and Immunobiology, Harvard Medical School, Boston, MA, USA⁹, Pediatric Neurology Unit, Department of Neurology, Massachusetts General Hospital, Boston, MA, USA¹⁰)

- E-018 Dysregulation of gene expression underlies microcephaly due to Zika virus infection in mice
Ganeshwaran Hitoshi Mochida^{1, 2, 3}, Tojo Nakayama^{1, 2}, Amanda Guise⁴, Kimino Fujimura^{1, 5, 6}, Dylan Vaughan^{1, 2}, Andrew Kodani^{1, 2}, Ann Durbin⁷, Irene Bosch⁸, Mauro Teixeira⁹, Lee Gehrke^{7, 8, 10}
(Division of Genetics and Genomics, Boston Children's Hospital, Boston, MA, USA¹, Department of Pediatrics, Harvard Medical School, Boston, MA, USA², Pediatric Neurology Unit, Massachusetts General Hospital, Boston, MA, USA³, F. M. Kirby Neurobiology Center, Boston Children's Hospital, Boston, MA, USA⁴, Department of Pediatrics, Keio University School of Medicine, Tokyo, Japan⁵, Department of Pediatrics, Shin-yurigaoka General Hospital, Kanagawa, Japan⁶, Program in Virology, Division of Medical Sciences, Harvard Medical School, Boston, MA, USA⁷, Institute for Medical Engineering and Science, Massachusetts Institute of Technology, Cambridge, MA, USA⁸, Departamento de Bioquímica e Imunologia, Instituto de Ciências Biológicas, Universidade Federal de Minas Gerais, Minas Gerais, Brazil⁹, Department of Microbiology and Immunobiology, Harvard Medical School, Boston, MA, USA¹⁰)
- E-019 The effect of missense mutation site on the phenotype of glucose transporter-1 deficiency syndrome.
Shin Nabatame^{1, 2, 3}, Hidehito Kondo^{1, 2}, Ryoko Hayashi^{1, 2}, Mika Hirotsune^{1, 2}, Junpei Tanigawa^{1, 2}, Yoshiko Iwatani^{1, 2, 3}, Koji Tominaga^{1, 2, 3}, Kuriko Shimono^{1, 2, 3}, Keiichi Ozono^{1, 2}
(Department of Pediatrics, Graduate School of Medicine, Osaka University, Suita, Japan¹, Epilepsy Center, Osaka University Hospital, Suita, Japan², Division of Developmental Neuroscience, United Graduate School of Child Development, Osaka University, Suita, Japan³)
- E-020 Brain MRI findings of the best correlation with neurological outcomes in tuberous sclerosis complex
Tohru Okanishi¹, Ayataka Fujimoto², Sotaro Kanai¹, Shinji Itamura¹, Shinpei Baba¹, Hideo Enoki¹
(Department of Child Neurology, Seirei-Hamamatsu General Hospital, Shizuoka, Japan¹, Comprehensive Epilepsy Center, Seirei-Hamamatsu General Hospital, Shizuoka, Japan²)
- E-021 Combination of topiramate and lacosamide is effective for Paramyotonia congenita
Yoshie Kurokawa, Akihiko Miyauchi, 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 Wakamoto¹, Mika Kawabe¹, Yoshiaki Yano¹, Satoko Miyatake², Naomichi Matsumoto², Kinji Ohno³
(Department of Pediatrics, Ehime Rehabilitation Center for Children, Toon, Japan¹, Department of Human Genetics, Yokohama City University Graduate School of Medicine, Yokohama, Japan², Division of Neurogenetics, Nagoya University Graduate School of Medicine, Nagoya, Japan³)

English Session5

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 Takiguchi¹, Takashi X Fujisawa², Koji Shimada², Kai Makita², Yoshifumi Mizuno¹, Hirotaka Kosaka^{1, 2}, Akemi Tomoda^{1, 2}
(Department of Child and Adolescent Psychological Medicine, University of Fukui Hospital, Fukui, Japan¹, Research Center for Child Mental Development, University of Fukui, Fukui, Japan²)
- E-024 Effects of medical music-care therapy for children with neurodevelopmental disorders
Naomitsu Suzuki¹, Emiko Shiba^{1, 2}, Tetsuro Sakai^{1, 3}

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- (Department of Pediatrics, Tsukuba Clinic for Mental Sick Children & Adolescents, Ibaraki, Japan¹, Department of Pediatrics, Juntendo University Nerima Hospital, Tokyo, Japan², Department of Pediatrics, Yuhai Memorial Hospital, Ibaraki, Japan³)
- E-025 Clinical futures of sluggish cognitive tempo, an another attention disorder
Shuhei Suzuki¹, Tomika Kondo¹, Yasunori Oka^{1, 2}
(Suzuki Clinic, Osaka, Japan¹, Center for Sleep Medicine, Ehime, Japan²)
- E-026 MPH-induced hemodynamic responses in medication-naive ADHD with and without ASD : an fNIRS study
Takahiro Ikeda¹, Yukifumi Monden^{1, 2}, Tatsuya Tokuda³, Masako Nagashima¹, Hideo Shimoizumi⁴, Ippeita Dan³, Takanori Yamagata¹
(Department of pediatrics, Jichi medical university, Tochigi, Japan¹, International University of Health and Welfare Rehabilitation Center, Tochigi, Japan², Applied Cognitive Neuroscience Laboratory, Chuo University, Tokyo, Japan³, Nasu Institute for Developmental Disabilities, International University of Health and Welfare Rehabilitation Center, Tochigi, Japan⁴)
- E-027 Is congenital cytomegalovirus infection associated with autism spectrum disorder?
Noriyuki Nishimura¹, Kaori Maeyama¹, Kazumi Tomioka¹, Hiroaki Nagase¹, Mieko Yoshioka², Yasuko Takagi², Takeshi Kato³, Masami Mizobuchi⁴, Shinji Kitayama⁵, Satoshi Takada⁶, Masashi Nagai¹, Nana Sakakibara¹, Masahiro Nishiyama¹, Ichiro Morioka¹, Kazumoto Iijima¹
(Department of Pediatrics, Kobe University Graduate School of Medicine, Kobe, Japan¹, Kobe City Pediatric and General Rehabilitation Center for the Challenged, Kobe, Japan², Western Kobe City Pediatric and General Rehabilitation Center for the Challenged, Kobe, Japan³, Department of Developmental Pediatrics, Shizuoka Children's Hospital, Shizuoka, Japan⁴, Himeji City Center for the Disabled, Himeji, Japan⁵, Kobe University Graduate School of Health Science, Kobe, Japan⁶)
- E-028 Decrease in the frequency of each angle of memory guided saccade in Tourette syndrome and ADHD
Kyoko Hoshino¹, Hideki Fukuda¹, Yusuke Sugiyama^{1, 2}, Yuri Nagao¹, Kazue Kimura¹, Masaharu Hayashi¹, Shinichi Tokushige^{1, 3}, Yasuo Terao^{1, 2, 4}
(Segawa Memorial Neurological Clinic for Children, Tokyo, Japan¹, Department of Neurology, Tokyo University, Tokyo, Japan², Department of Neurology, Kyorin University, Tokyo, Japan³, Department of Cell-Physiology, Kyorin University, Tokyo, Japan⁴)
- E-029 Hiragana decoding impairment in three Japanese children with periventricular leukomalacia
Naoko Kurahashi¹, Shunsuke Ogaya², Yuki Maki³, Takeshi Suzuki¹, Yosuke Hosokawa¹, Keitaro Yamada¹, Koichi Maruyama¹, Kosaburo Aso¹, Miho Nakamura^{4, 5}
(Department of Pediatric Neurology, Aichi Prefectural Colony Central Hospital, Aichi Human Service Center, Kasugai, Japan¹, Department of Pediatrics, Japanese Red Cross Nagoya Daiichi Hospital, Nagoya, Japan², Department of Pediatrics, Nagoya University Graduate School of Medicine, Nagoya, Japan³, Department of Functioning Science, Institute for Developmental Research, Aichi Human Service Center, Kasugai, Japan⁴, Okazaki Medical Center for Child Development, Okazaki, Japan⁵)

English Session6

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, Kazuhito 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^{1, 2}, Masato Sawada², Koya Kawase^{1, 2}, Naoko Kaneko², Takuya Miyamoto², Itsuki Ajioka³, Shinji Saitoh¹, Kazunobu Sawamoto²
(Department of Pediatrics and Neonatology, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan¹, Department of Developmental and Regenerative Biology, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan², Center for Brain Integration Research, Tokyo Medical and Dental University, Tokyo, Japan³)
- E-032 Pathophysiology of neuronal network damage in the mouse model of extremely preterm infants
Kimiko Deguchi^{1, 2}, Ken-ichiro Kubo¹, Ken Inoue³, Kazunori Nakajima¹
(Department of Anatomy Keio University School of Medicine, Tokyo, Japan¹, Deguchi Pediatric Clinic, Nagasaki, Japan², National Institute of Neuroscience, NCNP, Dept. of Mental Retardation and Birth Defect Research, Tokyo, Japan³)

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- E-033 Ganglionic eminence in normal and neuronal migration disorder cases detected by fetal neuroscan
Ritsuko Pooh (CRIFM Clinical Research Institute of Fetal Medicine PMC, Osaka, Japan)
- ~~E-034~~ Genomic analysis identifies masqueraders of full-term cerebral palsy
Yusuke Takezawa¹, Atsuo Kikuchi¹, Kazuhiro Haginoya^{1, 2, 3}, Yurika Numata-uematsu³,
Takehiko Inui^{2, 3}, Mai Anzai^{2, 3}, Sato Suzuki², Takuya Miyabayashi², Saeko Yamamura-suzuki²,
Yukimune Okubo^{2, 3}, Wakaba Endo^{2, 3}, Noriko Togashi², Yasuko Kobayashi³, Akira Onuma³,
Shigeo Kure¹
(Department of Pediatrics, Tohoku University School of Medicine, Miyagi, Japan¹, Department
of Pediatric Neurology, Miyagi Children's Hospital, Miyagi, Japan², Department of Pediatric
Neurology, Takuto Rehabilitation Center for Children, Miyagi, Japan³)
- E-035 A proposal : enquiry about lack of best attainable cancer medicine for the most vulnerable persons
Satoshi Honjo¹, Shoichiro Ohno^{1, 2}
(Department of Paediatrics, National Hospital Organization Fukuoka Hospital, Fukuoka,
Japan¹, Ohno Paediatrics and Internal Medicine Clinic, Nogata, Japan²)

English Session7

- 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 Ullrich 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
Saito³, Masayuki Sasaki³
(Department of Child Neurology, National Center Hospital, National Center of Neurology and
Psychiatry, Tokyo, Japan¹, The Department of Pediatrics, Ibaraki Children's Hospital, Mito,
Japan², Department of Laboratory Medicine, National Center Hospital, National Center of
Neurology and Psychiatry, Tokyo, Japan³)
- 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 Okamoto^{1, 2}, Mitsumasa Fukuda^{1, 3}, Risako Urate^{1, 4}, Isao Saito^{1, 5}, Takahiro Motoki¹,
Toshihiro Jogamoto¹, Kaori Hino¹, Takatoshi Hosokawa^{6, 7}, Kenji Mori⁸, Yukihiko Konishi⁹,
Eiichi Ishii¹
(Department of Pediatrics, Ehime University Graduate School of Medicine, Toon, Ehime,
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Japan², Department of Pediatrics, Ehime Prefectural Niihama Hospital, Niihama, Ehime,
Japan³, Student, School of Medicine, Ehime University, Toon, Ehime, Japan⁴, Department of
Community Health Systems Nursing, Ehime University Graduate School of Medicine, Toon,
Ehime, Japan⁵, Department of Pediatrics, Kochi Medical School, Kochi, Japan⁶, Department of
Pediatrics, Hosogi Hospital, Kochi, Kochi, Japan⁷, Department of Child Health & Nursing,
Institute of Biomedical Sciences, Tokushima University Graduate School, Tokushima, Japan⁸,
Department of Pediatrics, Faculty of Medicine, Kagawa University, Kagawa, Japan⁹)
- E-039 When does SMN shortage become evident in spinal muscular atrophy patients?
Noriyuki Nishimura¹, Sota Iwatani¹, Keiji Yamana¹, Masashi Nagai¹, Ryosuke Bou¹, Hiroyuki
Awano¹, Kaori Maeyama¹, Masahiro Nishiyama¹, Hiroaki Nagase¹, Masami Mizobuchi²,
Kazumichi Fijioka¹, Ichiro Morioka¹, Kazumoto Iijima¹, Hisahide Nishio³
(Department of Pediatrics, Kobe University Graduate School of Medicine, Kobe, Japan¹,
Department of Developmental Pediatrics, Shizuoka Children's Hospital, Shizuoka, Japan.²,
Department of Epidemiology, Kobe University Graduate School of Medicine, Kobe, Japan.³)
- E-040 Autosomal dominant spinal muscular atrophy due to a novel mutation in the motor adaptor BICD2
Mieko Yoshioka¹, Naoya Morisada², Daisaku Toyoshima³, Hisahide Nishio⁴, Kazumoto Iijima⁵,
Yasuhiro Takeshima⁶, Tomoko Uehara⁷, Kenjiro Kosaki⁷
(Department of Pediatric Neurology, Kobe City Pediatric and General Rehabilitation Center for
the Challenged, Kobe, Japan¹, Department of Clinical Genetics, Hyogo Prefectural Kobe

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E-041 Microinfarction in juvenile dermatomyositis

Michio Inoue^{1,2}, Akinori Uruha³, Jean-Luc Charuel⁴, Lucile Musset⁴, Shigeaki Suzuki⁵, Masataka Kuwana⁶, Tsuneyo Mimori⁷, Ichizo Nishino^{1,2}
(Department of Neuromuscular Research, National Institute of Neuroscience, National Center of Neurology and Psychiatry, Tokyo, Japan¹, Medical Genome Center, National Center of Neurology and Psychiatry, Tokyo, Japan², 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, Pitié-Salpêtrière University Hospital, Paris, France³, Department of Immunology, Immunochemistry & Autoimmunity Laboratory, Public Assistance-Hospitals of Paris, Pitié-Salpêtrière University Hospital, Paris, France⁴, Department of Neurology, Keio University School of Medicine, Tokyo, Japan⁵, Department of Allergy and Rheumatology, Nippon Medical School Graduate School of Medicine, Tokyo, Japan⁶, Department of Rheumatology and Clinical Immunology, Graduate School of Medicine, Kyoto University, Kyoto, Japan⁷)

English Session8

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 hypersarhythmia in West syndrome

Yu Okai¹, Yuji Ito^{1,2}, Satoshi Maesawa³, Epifanio Bagarinao³, Yuki Maki¹, Masaharu Tanaka¹, Yoko Sakaguchi¹, Atsuko Ohno¹, Hiroyuki Yamamoto¹, Tomohiko Nakata¹, Hiroyuki Kidokoro¹, Tamiko Negoro¹, Kazuyoshi Watanabe¹, Jun Natsume¹
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E-043 EEG-fMRI in children with ECSWS : difference between the electroclinical stages of ECSWS

Yuji Ito^{1,2}, Yu Okai^{1,2}, Satoshi Maesawa², Epifanio Bagarinao², Hiroyuki Kidokoro^{1,2}, Hiroyuki Yamamoto^{1,2}, Yuki Maki¹, Masaharu Tanaka¹, Yoko Sakaguchi¹, Atsuko Ohno¹, Tomohiko Nakata¹, Tamiko Negoro¹, Kazuyoshi Watanabe¹, Jun Natsume^{1,2}
(Department of Pediatrics, Nagoya University Graduate School of Medicine, Nagoya, Japan¹, Brain and Mind Research Center, Nagoya University, Nagoya, Japan²)

E-044 Epileptogenic high-frequency oscillations skip the motor area in drug-resistant multilobar epilepsy

Yasushi Iimura^{1,2}, Hiroshi Otsubo¹
(Division of Neurology, The Hospital for Sick Children, Toronto, Ontario, Canada¹, Department of Neurosurgery, University of Juntendo, Tokyo, Japan²)

E-045 The Wada test might predict postoperative fine finger motor deficit after hemispherotomy

Ayataka 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, Japan¹, Department of Neural Regenerative Medicine, Research Institute for Frontier Medicine, Sapporo Medical University School of Medicine, Sapporo, Japan²)

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, Kaoru Ishida², Kohei Adachi³, Shiro Baba⁴, Keisuke Toda⁵, Hiroshi Baba⁶
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Neurosurgery, Nagasaki University School of Medicine, Nagasaki, Japan⁴, Department of Neurosurgery, National Nagasaki Kawatana Medical Center, Kawatana, Japan⁵, Epilepsy Center, Nishi-Isahaya Hospital, Isahaya, Japan⁶)

- E-048 CDKL5 controls synaptic localization of GluN2B-NMDA receptors and regulates seizure susceptibility

Teruyuki Tanaka¹, Kosuke Okuda¹, Shizuka Kobayashi², Masahiro Fukaya³, Aya Watanabe¹, Takuto Murakami¹, Mai Hagiwara¹, Hiroyuki Sakagami³, Toshiya Manabe², Masashi Mizuguchi¹

(Department of Developmental Medical Sciences, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan¹, Division of Neuronal Network, The Institute of Medical Science, The University of Tokyo, Tokyo, Japan², Department of Anatomy, Kitasato University School of Medicine, Sagamihara, Japan³)

Oral Presentation01

Epilepsy/Convulsion West syndrome

- O-001 Long-term weekly ACTH therapy may prevent recurrence of West syndrome: Report of 6 cases
Shimpei Baba¹, TOHRU OKANISHI¹, MITSUYO NISHIMURA³, SOTARO KANAI¹, SHINJI ITAMURA¹, YOSUKE MASUDA², AYATAKA FUJIMOTO², HIDEO ENOKI¹

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- O-002 Efficacy of vitamin B6 therapy as first line treatment for West syndrome

Ryuki Matsuura^{1,2}, SHIN-ICHIRO HAMANO¹, ATSURO DAIDA¹, JUN KUBOTA^{1,2}, ERIKA HIWATARI¹, SATORU IKEMOTO^{2,3}, REIKO KOICHIHARA³, MOTOYUKI MINAMITANI¹

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- 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 KOBAYASHI

(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^{1,2,3}, RYOKO HAYASHI^{2,3}, MIKA HIROTSUNE^{2,3}, YOSHIKO IWATANI^{1,2,3}, KOUJI TOMINAGA^{1,2,3}, SHIN NABATAME^{2,3}, MASAKO TANIIKE^{1,2}, KEIICHI OZONO^{2,3}

(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 spasm?

Sotaro Kanai¹, Tohru Okanishi¹, Masayoshi Oguri², Shinji Itamura¹, Shimpei Baba¹, Mitsuyo Nishimura³, Ayataka Fujimoto⁴, Hideo Enoki¹

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- O-006 Efficacy of rufinamide for patients with intractable epilepsy including tonic seizure

Motoyuki Minamitani^{1,2}, Schin-ichiro Hamano^{1,2}, Ryuki Matsuura^{1,2}, Satoru Ikemoto^{1,2}, Erika Hiwatari¹, Jun Kubota^{1,2}, Atsuro Daita¹ (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

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- Shin Okazaki, ICHIROU KUKI, HISASHI KAWAWAKI, MASATAKA FUKUOKA, KIYOHIRO KIN, MEGUMI NUKUI, TAKESHI INOUE
(Department of Pediatric Neurology, Osaka City General Hospital, Osaka, Japan)
- O-008 Effect of lacosamide on intractable epilepsy
Haruka Oguro¹, Tomohiro Nakayama^{1,2}, Junko Nakayama¹, Naoko Nakayama², Kayo Tokeji¹, Hiroshi Maruyama², Nobuaki Iwasaki¹
(1. Department of Pediatrics, Ibaraki Prefectural University of Health Sciences Hospital, Ibaraki, Japan, 2. Department of Pediatrics, Matsudo Clinic, Chiba, Japan)
- O-009 Add-on therapy of perampanel in the patients with intractable epilepsy
Chizu Oba¹, MITSURU KASHIWAGI¹, TAKUYA TANABE², SYOHEI NOMURA¹, MOTOKO OGINO³, MARI HATANAKA³, ATSUSHI MORI⁴, HIROMI TOSHIKAWA³, MIHO FUKUI³, SOSUKE YOSHIKAWA⁵, SHUICHI SHIMAKAWA³, Yukitsugu Azumakawa⁴, EIJI WAKAMIYA⁶, HIROSHI TAMAI³
(1. Department of Pediatrics, Hirakata City Hospital, Osaka, Japan, 2. Department of Pediatric Neurology, Tanabe Children's Clinic, Osaka, Japan, 3. Department of Pediatrics, Osaka Medical College, Osaka, Japan, 4. Department of Pediatrics, Seikeikai Hospital, Osaka, Japan)
- 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, NIKAIDOU 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 Nakayama^{1,2}, HARUKA OOGURO¹, NAOKO NAKAYAMA², KAYO TOKEJI¹, JUNKO NAKAYAMA¹, HIROSHI MARUYAMA², NOBUAKI IWASAKI¹
(1. Department of Pediatrics, Ibaraki Prefectural University of Health Sciences Hospital, Ibaraki, Japan, 2. Department of Pediatrics, Matsudo Clinil, Chiba, Japan)

Oral Presentation03

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 Taira^{1,2}, 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 Hirata^{1,2,3}, Shin-ichiro Hamano², Ryuki Matsuura^{2,3}, Atsuko Oba³, Yuji Kumagai⁴, Satoru Ikemoto^{2,3}, Erika Hiwatari²
(1. Department of Pediatrics, Tokyo Metropolitan Kita Medical and Rehabilitation Center, Tokyo, Japan, 2. Division of Neurology, Saitama Children's Medical Center, Saitama, Japan, 3. Department of Pediatrics, Jikei University School of Medicine, Tokyo, Japan, 4. Department of Pediatrics, Toukatsu Hospital, Chiba, Japan)
- O-016 Recognition about epilepsy in nursing teacher in comparison with non-nursing teacher
Ken Takada^{1,2,3}, 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 ARAI¹, MAKIKO KUROSAWA¹, JIU YUGUCHI¹, TAKEYA AWASHIMA¹, NAOKO MIURA¹, MAIKO KITA¹
(1. Yokohama Medical and Welfare Centre, Konan, Yokohama, Japan, 2. Yokohama Residential Care and Medical Centre for Developmentally Disabled Person, Yokohama, Japan)

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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, YOSHIHIRO HIRATA¹, HIDEAKI SHIRAIISHI¹, DAISUKE SATO¹, SHINJI SAITOH², YUKITOSHI TAKAHASHI³, HIRONOBU OKUNO⁴, MITSURU ISHIKAWA⁴, HIDEYUKI OKANO⁴
(1.Department of Pediatrics, Hokkaido University Graduate School of Medicine, Hokkaido, Japan, 2.Department of Neonatology and Pediatrics, Nagoya City University Graduate School of Medical Sciences, Aichi, Japan, 3.Department of Pediatrics, National Epilepsy Center Shizuoka Institute of Epilepsy and Neurological Disorders, Shizuoka, Japan, 4.Department of Physiology, Keio University School of Medicine, Tokyo, Japan)
- O-020 Clinical, genetic, and biochemical analyses for PI3K-AKT-mTOR pathway-associated megalencephaly
Ikumi Hori¹, Fuyuki Miya^{2,3}, YUJI NAKAMURA¹, DAISUKE IEDA¹, YUTAKA NEGISHI¹, AYAKO HATTORI¹, TATSUHIKO TSUNODA^{2,3}, YONEHIRO KANEMURA^{4,5}, KENJIRO KOSAKI⁶, SHINJI SAITOH¹
(1.Department of Pediatrics and Neonatology, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan, 2.Medical Research Institute, Tokyo Medical and Dental University, Tokyo, Japan, 3.Center for Integrative Medical Sciences, RIKEN, Yokohama, Japan, 4.Division of Regenerative Medicine, Institute for Clinical Research, Osaka National Hospital, National Hospital Organization, Osaka, Japan)
- 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 SAITOH¹
(1.Department of Pediatrics and Neonatology, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan, 2.Department of Pediatrics, Jichi Medical University, Tochigi, Japan, 3.Department of Child Neurology, National Center Hospital, National Center of Neurology and Psychiatry (NCNP), Tokyo, Japan, 4.Department of Child Neurology Nishi-Niigata Chuo National Hospital Niigata, Japan)
- O-022 Phenotypic and genomic analysis of bilateral lambdoid and sagittal synostosis
Yuri Sakaguchi^{1,2}, TOSHIKI TAKENOUCHE¹, KENJIRO KOSAKI², TAKAO TAKAHASHI¹
(1.Department of Pediatrics, Keio University School of Medicine, Tokyo, Japan, 2.Center for Medical Genetics, 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, Hiroto Saito³, Toshiyuki Yamamoto⁴, Hitoshi Osaka⁵, 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

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- Masaharu Ohfu^{1,2}, TSUYOSHI MATSUOKA¹, MASATO HIYANE¹, Satoru Takahashi³
(1.Division of childneurology, Okinawa prefectural medical center & children's medical center, Okinawa, Japan, 2.Division of Pediatrics, Nanbu Tokushukai Hospital, Okinawa, Japan, 3.Department of Pediatrics, Asahikawa Medical University, Asahikawa, Japan)
- O-026 Involuntary movement presenting with concomitant use of risperidone and methylphenidate
Asuka Taneoka, TATSUHARU SATO, KAZUHIKO HASHIMOTO, NANAOKO 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 Miyata^{1,2}, HIROTAKA YOSHIDA³, TAKERU HONDA³, SATOKO KUMADA¹, HIDEAKI MASHIMO¹, HIROYA NISHIDA¹, IKUKO SHIRAI¹, FUSAKO YOKOCHI⁸, SHINJI KAKEI³, KOHEI HAMANAKA⁴, SATOKO MIYATAKE⁴, Naomichi Matsumoto⁴, AYAKO HATTORI⁵, TOSHITAKA KAWARAI⁶, MAKOTO TANIGUCHI⁷
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Oral Presentation06

Congenital abnormality/Neurocutaneous syndrome

- O-030 Examination of lumbosacral cutaneous abnormalities
Toshiyuki Maeda¹, KUMIKO JINNOUCHI¹, FUMIO ICHINOSE¹, KEIKO HIRABARU², MANABU IWANAGA¹, SHOKO SHIMOKAWA³, MUNEAKEI MATSUO¹
(1.Department of Pediatrics, Faculty of Medicine, Saga University, Saga, Japan, 2.Saga Prefectural Hospital Koseikan, Saga, Japan, 3.Department 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 KAWAWAKI¹, SHIN OKAZAKI¹, KIYOHIRO KIM¹, MASATAKA FUKUOKA¹, TAKESHI INOUE¹, MEGUMI NUKUI¹, NORITSUGU KUNIHIRO², TAKEHIRO UDA², YASUHIRO MATSUSAKA², HIROAKI SAKAMOTO², KIYOTAKA TOMIWA³
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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 YOSHINAGA^{1,2}, KATSUHIRO KOBAYASHI¹
(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 Orii, 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 HATTORI⁵, SHIGEO KURE¹
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Oral Presentation07

Developmental disorderAutism spectrum disorder

- O-035 Tympanic deep body temperature as a biomarker of autism spectrum disorders ; The second report
Tomohiro Nakayama^{1,2}, HARUKA OOGURO¹, NAOKO NAKAYAMA², 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 Prefarentioal 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 TODA², 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, YOSHIMI TSUDA¹, TAISUKE KITAOKA³,
SHOJIRO KYOTANI³
(1.Department of pediatrics, Japanese Red Cross Tokushima Hinomine Rehabilitation Center
for People with Disabilities, Tokushima, Japan, 2.Department of pharmacy, Japanese Red
Cross Tokushima Hinomine Rehabilitation Center for People with Disabilities, Tokushima,
Japan, 3.Tokushima Bunri University, Graduate School of Pharmaceutical Sciences,
Tokushima, Japan)
- O-039 Early weight gain effects of second-generation antipsychotic treatment in autism spectrum
disorder
Yuko Hayashi¹, AKEMI TOROBU², KAYO KAMOSHITA²
(1.Department of Pediatirics ,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 Ito^{1,2}, KENJI MORI³, MASAFUMI HARADA⁴, SONOKA HISAOKA⁴, YOSHIHIRO
TODA², TATSUO MORI², AYA GOJI², YOKO TAKAMI², MASAHITO MIYAZAKI², SHOJI
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of Education, Tokushima, Japan, 2.Department of Pediatrics, Institute of Biomedical Sciences,
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Tokushima University Graduate School, 3-18-15 Kuramoto-cho, Tokushima City, Tokushima
770-8503, Japan., 4.Department of Radiology, Institute of Biomedical Sciences, Tokushima
University Graduate School, 3-18-15 Kuramoto-cho, Tokushima City, Tokushima 770-8503,
Japan.)
- O-041 In utero exposure to valproic acid throughout pregnancy cause autistic phenotype in offspring mice
Takayuki Mitsuhashi¹, Satoko Hattori², Kimino Fujimura¹, Shinsuke Shibata³, Tsuyoshi
Miyakawa², Takao Takahashi¹
(1.Pediatrics, Keio University School of Medicine, Tokyo, Japan, 2.Division of Systems Medical
Science, Institute for Comprehensive Medical Science, Fujita Health University, Aichi, Japan,
3.Electron Microscope Laboratory, Keio University School of Medicine, Tokyo, Japan)

Oral Presentation08

Developmental disorder

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- O-042 Pathophysiology of Kanji writing disability in Japanese children
Mari Hatanaka¹, EIJI WAKAMIYA², MIHO FUKUI¹, MAKOTO NAKANISHI³, TAKASHI TAKESHITA³, TOMOKO MIURA⁴, TOMOHITO OKUMURA³, MEKUMI MIZUTA³, NAOKO KURIMOTO³, SHUICHI SHIMAKAWA¹, HIROSHI TAMAI¹
(1.Department of Pediatrics,Osaka Medical College, Osaka, Japan, 2.Department of Nursing, Faculty of Nursing and Rehabilitations, Aino University Ibaraki, Osaka, Japan, 3.LD Center, Osaka Medical College, Osaka, Japan, 4.LD Center, Seikeikai Hospital, Osaka, Japan)
- 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
(Division 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 SAITOH
(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 Hashimoto^{1,2,3}, Keitaro Sueda², Kazuyori Yagyu^{2,3}
(1.Department 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.Department 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 (2)
Keitaro Sueda¹, KAZUYORI YAGYU^{1,2}, RYUSAKU HASHIMOTO^{1,3}
(1.Sapporo Child Physical & Mental Health Care Center, Child Psychiatry, Sapporo, Japan, 2.Department of Child and Adolescent Psychiatry, Hokkaido University Graduate, School of Medicine, Sapporo, Japan, 3.Department 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 Sanefuji^{1,2}, YUKO ICHIMIYA^{2,3}, NORIYUKI KAKU^{2,3}, MICHIKO TORIO², SOOYOUNG LEE⁴, YURI SONODA², SATOSHI AKAMINE², YOSHITO ISHIZAKI², YASUNARI SAKAI², SHOUICHI OHGA²
(1.Research Center for Environment and Developmental Medical Sciences, Kyushu University, Fukuoka, Japan, 2.Department of Pediatrics, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan, 3.Emergency and Critical Care Center, Kyushu University Hospital, Fukuoka, Japan, 4.Department of Critical Care, Fukuoka Children's Hospital, Fukuoka, Japan)
- O-048 A validation study of predictive score for early diagnosis of AESD
Sho Narahara¹, TATSUYA FUKASAWA¹, TETSUO KUBOTA¹, YUTAKA NEGISHI², HIROYUKI YAMAMOTO³, SHINJI SAITOH², AKIHISA OKUMURA⁴, JUN NATSUME³
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- O-049 Epilepsy after pediatric acute encephalopathy (AESD) : a quantitative MRI study
Yuko Ichimiya^{1,2}, Masafumi Sanefuji^{1,3}, Yuri Sonoda¹, Michiko Torio¹, Noriyuki Kaku^{1,2}, Sooyoung Lee⁴, 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

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Yuki Maki¹, Masaharu Tanaka¹, Yu Okai¹, Yoko Sakaguchi¹, Hiroyuki Yamamoto¹, Atsuko Ohno¹, Tomohiko Nakata¹, Tatsuya Fukasawa², Takeshi Tsuji³, Hiroyuki Kidokoro¹, Tetsuo Kubota², Akihisa Okumura⁴, Shinji Saitoh⁵, Jun Natsume¹

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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)

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Infection/Immunity

O-053 Efficacy of serial monitoring of serum levels of neurofilament in hematopoietic cell transplantation

Yoshihiro Osawa¹, Mitsuo Motobayashi^{1,2}, Masaru Nasuno¹, Manami Morikawa³, Takenori Natsume¹, Toshimitsu Yanagisawa¹, Yuji Inaba⁴

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O-054 Effectiveness of intravenous immunoglobulin therapy in childhood myasthenia gravis

Atsuko Oba^{1,2}, 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 BAFF/APRIL system in childhood-onset ocular myasthenia gravis

Mitsuo Motobayashi¹, TAKAFUMI NISHIMURA², Yoshihiro Osawa³, Masaru Nasuno³, Manami Morikawa⁴, Takenori Natsume³, Toshimitsu Yanagisawa³, Tomoko Mizuno⁵, Yasuo Hachiya⁶, Manami Akasaka⁷, Yuji Inaba^{8,9}

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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 MORIUCHI⁵, TOMOYUKI FUJII⁶, AKIRA OKA⁷, HIROSHI KIMURA⁸

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Oral Presentation11

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, MASUKO FUNAHASHI, KEIKO AKAHOSHI, TOSHIHIDE SHIIKI

(Department of Pediatrics Tokyo Children's Rehabilitation Hospital, Tokyo, Japan)

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- O-059 Investigation of cycling antibiotic therapy for patients with profound multiple disabilities
Hironori Matsufuji¹, SAKIE OKAZAKI², TAMAKI NAKAMURA¹, NAOKO ISHIKAWA^{1,3}, HIROSHI ISUMI¹, TAKASHI ICHIYAMA¹, YOSHITSUGU SUGIO¹
(1.Department of Pediatrics, Tsudumigaura medical center for children with disabilities, Syunan, Japan, 2.Department of Pediatrics, Yamaguchi Rousai Hospital, Sanyo Onoda, Japan, 3.Department 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, Hygo)
- O-061 Thoracic and tracheal deformations in patients with severe motor and intellectual disabilities
Takeshi Suzuki, YOUSUKE HOSOKAWA, NAOKO KURAHASHI, KEITAROU YAMADA, KOUICHI MARUYAMA, KOUSABUROU 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)

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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 Sugai¹, Masayuki Sasaki¹, Ichizo Nishino²
(1.Department of Child Neurology, National Center Hospital, National Center of Neurology and Psychiatry, Tokyo, Japan, 2.Department of Neuromuscular Research, National Center of Neurology and Psychiatry, Tokyo, Japan)
- O-064 Clinical features in 4 cases of pediatric onset FHL1 gene mutation
Shohei Kusabiraki¹, Michio Inoue², Akihiko Ishiyama^{1,2}, Nei Ohya³, Hiroaki Miyahara⁴, Eri Takeshita¹, Yuko Motohashi¹, Takashi Saito¹, Hirohumi Komaki¹, Eiji Nakagawa¹, Kenji Sugai¹, Masayuki Sasaki¹, Ichizo Nishino²
(1.Department of Child Neurology, National Center Hospital, National Center of Neurology and Psychiatry, Tokyo, Japan, 2.Department of Neuromuscular Research, National Institute of Neuroscience, National Center of Neurology and Psychiatry, Tokyo, Japan, 3.Department of Neurology, National Center Hospital, National Center of Neurology and Psychiatry, Tokyo, Japan, 4.Department of Pediatrics, Oita University, Oita, Japan)
- O-065 A report of four children cases performed single fiber electromyography
Kentaro Kawamura¹, Akiyo Yamamoto¹, Kousuke Tsuchida¹, Shinobu Fukumura¹, Tomihiro Imai², Hiroyuki 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 TAKADA³, YUMIKO IWATA³, MASAYUKI NAKAGAWA³, TSUYOSHI MATSUMURA², KIMIKO INOUE³
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Muscular disease

- O-067 The questionnaire survey about the process and the notice of diagnosis for the FCMD patient's family
Minobu Shichiji¹, KEIKO ISHIGAKI¹, TAKATOSHI SATO¹, MIZUSA MATSUDA², SATORU NAGATA¹

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- (1.The Department of Pediatrics, Tokyo Women's Medical University, Tokyo, Japan, 2.The school of medicine, Tokyo Women's Medical University, Tokyo, Japan)
- O-068 Management of patients with FCMD on respiratory dysfunction and dysphagia
Michiko Makino, SHUUJI MATUI, KEIKO WADA, MASUKO FUNAHASHI, TOSHIHIDE SHIIKI (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 ISHIGURO¹, MINOBU SHICHIJI¹, TERUMI MURAKAMI¹, HUTOSHI WADA³, TETSUO IKAI³, IZUMI KONDO⁴, KEIKO ISHIGAKI¹, 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 KOMAKI^{1,2}, YUKO MOTOHASHI¹, AKIHIKO ISHIYAMA¹, KAZUHISA MIYOSHI³, IKURO YAMAMIYA³, NOBUKO YAMADA³, NAOKO MINAMI³
(1.Department of Child Neurology, National Center Hospital, National Center of Neurology and Psychiatry, Tokyo, Japan, 2.Department of Clinical Research Promotion, National Center Hospital, National Center of Neurology and Psychiatry, Tokyo, Japan, 3.Taiho Pharmaceutical Co. Ltd.)
- O-071 Urinary titin is an accurate biomarker for Duchenne muscular dystrophy detection
Hiroyuki Awano¹, Masaaki Matsumoto¹, Masashi Nagai¹, Taku Shirakawa², Nobuhiro Maruyama³, Yo-ichi Nabeshima⁴, Masafumi Matsuo², Kazumoto Iijima¹
(1.Department of Pediatrics, Kobe University Graduate School of Medicine, Kobe, Japan, 2.Department of Physical Therapy, Faculty of Rehabilitation, Kobe Gakuin University, Kobe, Japan, 3.Diagnostic and Research Reagents Division, Immuno-Biological Laboratories Co., Ltd., Fujioka, Japan, 4.Laboratory of Molecular Life Science Foundation for Biomedical Research and Innovation, Kobe, Japan)
- O-072 Single-institutional study of cardiac involvement in non-Duchenne/Becker muscular dystrophy
Hirokuni Yamazawa, Atsuhito Takeda, Gaku Izumi, Osamu Sasaki, Jiro Abe, Takanori Fujimoto
(Department of Pediatrics, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Sapporo, Japan)
- 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, yuuji nakamachi¹, masafumi matsuo³, kazutomo iijima², jun saegusa¹
(1.Department of Clinical Laboratory, Kobe University Hospital, Kobe, Japan, 2.Department of Pediatrics, Kobe University Graduate School of Medicine, Kobe, Japan, 3.Department of Physical Therapy, Faculty of Rehabilitation, Kobe Gakuin University, Kobe, Japan)

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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, Jyunko Nakayama², Arito Yozu⁴, Haruka Ohguro², Kayo Tokeji², Kenichi Yoshikawa¹, Kazushi Takahashi¹, Keiko Enomoto¹, Kumiko Sano¹, Aoi Kubota¹, Masafumi Mizukami³
(1.Department of Physical Therapy, Ibaraki Prefectural University of Health Sciences hospital, Ibaraki, Japan, 2.Department of Pediatrics, Ibaraki Prefectural University of Health Sciences Hospital, Ibaraki, Japan, 3.Department of Physical Therapy, School of Healthcare, Ibaraki Prefectural University of Health Sciences, Ibaraki, Japan, 4.Center for Medical Science, Ibaraki Prefectural University of Health Sciences, Ibaraki, Japan)
- O-075 New-type cerebral palsy in extremely preterm with basal ganglia atrophy
Satori Hirai, YUKIHIRO KITAI, KAEKO 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 Medical and Welfare Center, Kobe Japan)

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- O-077 Summary and consideration of VF to SMID-the utility of lateral position and supine position
Masao Morita (Funabashi Hutawa Hospital, Funabashi, 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)

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Developmental disorder/Rehabilitation/ Support

- O-079 Long term outcome of developmental disorders children without mental retardation
Kanji 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 UYAMA¹, KAZUHIRO OHTANI¹, MADOKA TORIYAMA¹, MANABU KAWATA², HIROMICHI KATO¹, SHINPEI OSAWA³, ICHIRO MATSUMOTO¹
(1.Department of Education, Hokkaido University, Sapporo, Japan, 2.Research and Clinical Center for Child Development, Department of Education, Hokkaido University, Sapporo, Japan, 3.Faculty of Humanities, Sapporo Gakuin University, Ebetsu, Japan)
- 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)

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Mental disorder/Sleep disorder

- O-085 Strategy of inpatient treatment for children with eating disorder
Ryoko Otani¹, AKARI ARAKAWA^{1,2}, TAKESHI INOUE^{1,2}, YUKI KOSHINO¹, HISASHI ITABASHI², KEIICHI SHIMAMURA^{1,2}, 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 YTOYOURA¹, AKIO NAKAI¹, SEIKI TAJIMA^{1,2}
(1.Hyogo Children's Sleep & Developmental Medical Research Center, 2.National Rehabilitation Center for Persons with Disabilities)
- O-087 Effect of VPA treatment for sleep disturbance in developmental disorders
Hiroshi Shiraku^{1,2}, 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)

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Acute encephalopathy

- O-089 Extracellular ADP augments microglial inflammasome activation via the P2Y12 receptor
Tomonori Suzuki^{1,2}, 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 Azuma^{2,3}, Akio Masuda⁴, Tatsuya Okuno⁴, Eri Nakahara⁵, Takuji Imamura⁶, Makiko Saitoh⁷, Masashi Mizuguchi⁸, Kinji Ohno⁴, Akihisa Okumura^{1,5}
(1.Department of Pediatrics, Aichi Medical University, Nagakute, Japan, 2.Department of Pediatrics, Nagoya University Graduate School of Medicine, Nagoya, Japan, 3.Institute of Genetic Medicine, Newcastle University, Newcastle upon Tyne, UK, 4.Division of Neurogenetics, Center for Neurological Disease and Cancer, Nagoya University Graduate School of Medicine, Nagoya, Japan)
- 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 Ishida^{1,2}, HIROSHI YAMAGUCHI^{1,2}, KAZUMI TOMIOKA², TSUKASA TANAKA^{1,2}, MASAHIRO NISHIYAMA², KYOKO FUJITA³, DAISAKU TOYOSHIMA¹, AZUSA MARUYAMA¹, HIROAKI NAGASE², HIROSHI KUROSAWA⁴, YOSHIYUKI UETANI³, SATOSHI TAKADA⁵, KAZUMOTO IJIMA²
(1.Department of Neurology, Hyogo Prefectural Kobe Children's Hospital, Kobe, Japan, 2.Department of Pediatrics, Kobe University Graduate School of Medicine, Kobe, Japan, 3.Department of Emergency and Hospital Medicine, Hyogo Prefectural Kobe Children's Hospital, Kobe, Japan, 4.Department of Pediatric Critical Care Medicine, Hyogo Prefectural Kobe Children's Hospital, Kobe, Japan)
- O-093 A nationwide survey of norovirus-associated encephalitis/encephalopathy in Japan
Taiki Shima¹, Akihisa Okumura², Shinpei Abe¹, Mitsuru Ikeno¹, 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 ishihara², misa miyake², hidetaka nakai¹, satoru kishohara¹, tetsushi yoshikawa²
(1.Toyokawa City Hospital, Aichi, Japan, 2.Fujita Health University, Aichi, Japan)

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Acute encephalopathy Autoimmune encephalopathy

- O-095 The possibility of epilepsy prevention with cyclosporin A in acute encephalopathy
Tetsuhiro Fukuyama¹, Shouko Yamauchi¹, Yuka 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 Daida^{1,2}, Shin-ichiro Hamano¹, Jun Kubota¹, Erika Hiwatari¹, Satoru Ikemoto³, Ryuki Matsuura¹, Reiko Koichihara³, Gaku Yamanaka², Motoyuki Minamitani¹, Yukitoshi Takahashi⁴
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- 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 Yamaguchi^{1,4}, Yusuke Ishida^{1,4}, Daisaku Toyoshima⁴, Azusa Maruyama⁴, Satoshi Takada⁵, Kazumoto Iijima¹
(1.Department of Pediatrics, Kobe University Graduate School of Medicine, Kobe, Japan, 2.Department of Pediatrics, Kakogawa Central City Hospital, Kakogawa, Japan, 3.Department of Pediatrics, Japanese Red Cross Society Himeji Hospital, Himeji, Japan, 4.Department of Neurology, Hyogo Prefectural Kobe Children's Hospital, Kobe, Japan)
- O-100 Estimate pathology from cytokine analysis of cases diagnosed as "limbic encephalitis"
Hiroko Tada^{1,2}, HIROSHI SAKUMA¹, TOMONORI SUZUKI¹, KUNIKO KOHYAMA¹, MASA HARU HAYASHI^{1,3}
(1.Department of Development Neuroimmunology Project, Tokyo Metropolitan Institute of Medical Science, Tokyo, Japan, 2.Devision of Pediatrics, Chibaken Saiseikai Narashino Hospital, Narashino, Japan, 3.Department of Nursing, Shukutoku University, Chiba, Japan)

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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 MOGAMI¹, KEIKO YANAGIHARA¹, NOBUHIKO OKAMOTO², AKIHIRO YASUHARA³, YASUHIRO SUZUKI¹
(1.Department of Pediatric Neurology,Osaka Women's and children's Hospital,Osaka,Japan, 2.Department of Medical Genetics,Osaka Women's and children's Hospital,Osaka,Japan)
- O-102 Biallelic mutations in *NALCN*: Expanding the genotypic and phenotypic spectra of IHPRF1
Toshiki Takenouchi¹, Mie Inaba², Seiji Mizuno², Takao Takahashi¹, Kenjiro Kosaki³
(1.Department of Pediatrics, Keio University School of Medicine, Tokyo, Japan, 2.Department of Pediatrics, Aichi Human Service Center, Central Hospital, Aichi, Japan, 3.Center for Medical Genetics, Keio University School of Medicine, Tokyo, Japan)
- 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.Department of Pediatric Neurology, Miyagi Children's Hospital, Miyagi, Japan, 2.Department 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 KAWASHIMA³, KAZUYA ITOMI⁴, KEN MOMOSAKI⁵, 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 OOHASHI², SHINJI SAITO², TAKANORI YAMAGATA¹
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Epilepsy/Convulsion Diagnosis/Gene

- O-106 Characteristics of epileptic seizures with CDKL5 mutation

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Keiko Morioka¹, YUKITOSHI TAKAHASHI¹, Daisuke Shirai¹, Kazuki Tsukamoto¹, Ohboshi Taikan¹, Soichi Mukaida¹, Nobusuke Kimura¹, Yuki Ueda¹, Tokito Yamaguchi¹, Hideyuki Otani¹, Katsuki Imai¹, Hideo Shigematsu¹, Yusi Inoue¹, Mitsuhiro Kato², Toshiyuki Yamamoto³

(1.Shizuoka institute of Epilepsy and Neurological Disorders, Shizuoka,Japan, 2.Showa University,Tokyo,Japan, 3.Tokyo women's medical university,Tokyo,Japan)

- 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, EIJI NAKAGAWA¹, KENJI SUGAI¹, MASAYUKI SASAKI¹, YURI UCHIYAMA⁴, ATSUSHI FUJITA⁴, MITSUKO NAKASHIMA⁴, HIROTOMO SAITSU⁴, NAOMICHI MATSUMOTO⁴
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- O-109 Three patients with excessive X-chromosomes complicated with focal epilepsy
Mayuko Shirakura¹, Yasushi Ito^{1,3}, Eriko Mizoguchi¹, Kaori Kawano¹, Nozomi Ishii¹, Kazuhiko Kabe², Hirokazu Oguni³, 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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- O-111 Comparison of clinical features between Panayiotopoulos syndrome and acute encephalopathy
Saori Kawakami¹, Hiroshi Terashima², Akira Ishiguro¹, Masaya Kubota²
(1.Department Postgraduate Education and Training, National Center for Child Health and Development, Tokyo, Japan, 2.Division of Neurology, National Center for Child Health and Development, Tokyo, Japan)

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- O-112 High-amplitude fast waves during childhood provide a diagnostic clue for SENDA
Hiroyuki Kidokoro¹, Mitsuo Motobayashi², Tetsuo Kubota³, Ryoko Takano², Naoko Shiba², Yoko Sakaguchi¹, Yu Okai¹, Masaharu Tanaka¹, Yuki Maki¹, Hiroyuki Yamamoto¹, Atuko Ohno¹, Tomohiko Nakata¹, Kazuhiro Muramatsu⁴, Kenji Yokochi⁵, 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 ISHIHARA²
(1.Department of Pediatrics, Toyokawa City Hospital, Toyokawa, Japan, 2.Department of Pediatrics, Fujita Health University School of Medicine, Toyoake, Japan)
- O-114 Central apnea due to bronchiolitis in early infancy is non-epileptic: a point-of-care EEG study

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Itaru Hayakawa, HIROSHI TERASHIMA, NAHOKO KATAYAMA-UEDA, RYOSUKE URABE, GO TAKEI, SATO SUZUKI-MUROMOTO, TETSU HARU KAMIOKA, MASAYA KUBOTA (Division of Neurology, Department of Medical Subspecialties, National Center for Child Health and Development, Tokyo, Japan)

- O-115 Reduced-lead electroencephalography among children with altered mental status in the ER
Hiroshi Yamaguchi^{1,2}, YUSUKE ISHIDA^{1,2}, KAZUMI TOMIOKA², TSUKASA TANAKA^{1,2}, MASAHIRO NISHIYAMA², DAISAKU TOYOSHIMA¹, AZUSA MARUYAMA¹, HIROAKI NAGASE², SATOSHI TAKADA³, YOSHIYUKI UETANI⁴, KAZUMOTO IJIMA²
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- O-116 A study on high frequency oscillations associated with spikes in scalp sleep EEG in childhood
Yuji Ohuchi^{1,2}, Tomoyuki Akiyama¹, Yuki Hyoudou¹, Hiroki Tsuchiya¹, Yoshiyuki Hanaoka¹, Takashi Shibata¹, Mari Akiyama¹, Fumika Endo¹, Makiro 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, Kakurou 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 Ikemoto^{1,2}, Shin-ichiro Hamano¹, Ryuki Matsuura^{1,2}, Atsuro Daida¹, Jun Kubota^{1,2}, Erika Hiwatari¹, Motoyuki Minamitani¹
(1.Saitama Children's Medical Center, Department of Neurology, Saitama, Japan, 2.Jikei University School of Medicine, Department of Pediatrics, Tokyo, Japan)

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- 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, EIJI NAKAGAWA¹, NORIKO SATO², AKIYOSHI KAKITA³, YUKO SAITO⁴, TAISUKE OTSUKI^{5,6}, 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 KANAI¹, SHINJI ITAMURA¹, SHINPEI BABA¹, HIDEO ENOKI¹
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- 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.Devision 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 TAKEISHITA¹, YUKO MOTOHASHI¹, AKIHIKO ISHIYAMA¹, TAKASHI SAITO¹, HIROFUMI KOMAKI¹, EIJI 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 Kaku^{1,2}, Koichi Mizuguchi⁴, Hirokazu Sakai³, 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)

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Mitsuhiro Matsuo¹, AKIKO FJII¹, KAZUNORI MOTOYAMA¹, TAMAO NAGAOKA¹, MUTSUKO MIYAZAKI¹, KAORU 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)

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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 Kyoko Hoshino, YURI NAGAO, KAZUE KIMURA,
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Yuri Nagao, KYOKO HOSHINO, KAZUE KIMURA, JUN UCHINO, MASAHARU HAYASHI,
KEI HACHIMORI
(Segawa Memorial Neurological Clinic for Children, Tokyo, Japan)
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Yoshifumi Mizuno¹, MINGYOUNG JUNG^{2,3}, SHINICHIRO TAKIGUCHI¹, AKEMI
TOMODA^{1,2,3}
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Hamamatsu University School of Medicine, Chiba University and University of Fukui, Fukui,
Japan)

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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 Tanaka¹, Tomohide Goto², Eri Ogawa¹, Shiori Tanaka¹, Asami Ito¹, Kenji Kurosawa³,
Kenjiro Kosaki⁴
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- O-137 Kampo therapy for chronic headache in children
Eiji Kurihara
(Department of Neuropediatrics, Tokyo Metropolitan Neurological Hospital, Tokyo, Japan)
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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)

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Norikazu Shimizu, AYUMI HAYASHI, AKIKO NISHIHARA, 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
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Kaoru Eto¹, Arif Hossein², Hiroko Yanagisawa², Ninji Miyazawa², Wu Chen², Yoshikatsu Eto²,
Satoru Nagata¹
(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 Mucopolysaccharidosis type II/III with neurological symptoms due to spinal cord compression
Hidehito Kondo¹, Yusuke Hamada², Takanobu Otomo^{1,3}, Kenichi Sakamoto⁴, Sachiko Nakaoka¹,
Toko Shibuya¹, Norio Sakai^{1,5}, Keiichi Ozono¹
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- O-142 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)
- O-143 Can we treat Leigh syndrome due to ECHS1 deficiency?
Ikuko Shirai¹, ERIKA OGAWA², KEI MURAYAMA³, AKIRA OHTAKE⁴, HIDEAKI MASHIMO¹, HIROYA NISHIDA¹, YOHANE MIYATA¹, EIJI KURIHARA¹, SATOKO KUMADA¹
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Masahiro Ito, HISAMITSU TAMAKI, RYUTAROU YAMADA
(Tokyo Metropolitan Bokuto Hospital, Tokyo Japan)
- O-145 Therapeutic regimen of L-arginine for patients with MELAS
Yasutoshi Koga¹, EISUKE INOUE², HIDEFUMI NAKAMURA³, YASUHIRO SUZUKI⁵, MASAYA KUBOTA³, katsunori FUJII⁴
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Mitsuru Ikeno¹, shinpei abe¹, taiki shima¹, masaaki hori², shinichi niijima³, 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.Department of Pediatrics, Juntendo University Nerima Hospital, Tokyo, Japan)
- O-147 The neonatal disseminated cerebral hemorrhage
Kensuke Fujishiro¹, Katsunori Fujii¹, Tomoko Uchida¹, Tadashi Shiohama¹, Katsuki Sugita², rie Sakamoto³, Eiji Katou³, Naoki Shimojyou¹
(1.Pediatrics, University of Chiba, Chiba, Japan, 2.Department of Education, University of Chiba, Chiba, Japan, 3.Neonatology, Funabashi Central Hospital, Funabashi, Japan)
- O-148 Relationships between DWI/MRS at acute phase and development of West syndrome among HIE patients
Akihito Takeuchi^{1,2}, Motoharu Ochi^{1,3}, Mariko Hattori¹, Takushi Inoue^{2,3}
(1.Division of Neonatology, NHO Okayama Medical Center, 2.Division of Neuropediatrics, NHO Okayama Medical Center, 3.Department of Pediatrics, NHO Okayama Medical Center)
- O-149 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, Okazaki City Hospital)
- O-150 The clinical study for the very low birth weight babies with posthemorrhagic hydrocephalus
Yuya Sato¹, Kyoko Hirasawa¹, akiko Takeshita¹, ken imai², satoru nagata¹
(1.Tokyo Women's Medical University Hospital, Tokyo, Japan, 2.Tokyo Women's Medical University Hospital, Tokyo, Japan)
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Kyouko Hirasawa¹, Akiko Takeshita^{1,2}, Yuya Sato¹, Ken Imai², Satoru Nagata¹
(1.The Development of Pediatrics, Tokyo Women's Medical University, Tokyo, Japan, 2.Department of Perinatology, Maternal and Perinatal center, Tokyo Women's Medical Center)
- O-152 Neurodevelopmental outcomes at 3 years of age in infants born with a birth weight of 500g or less
Hirosuke Inoue^{1,2}, YUKI MATSUSHITA^{1,2}, MASAYUKI OCHIAI^{1,2}, YOSHITO ISHIZAKI¹, MASAYUKI SANEFUJI¹, YASUNARI SAKAI¹, SHOUICHI OHGA^{1,2}
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Kentaro Sano¹, Yuka MUROFUSHI², YOKO MORIYAMA², NAOKI ANDOU³, MITSURU IKENO⁴, KEN INOUE⁵, HITOSHI OSAKA⁶, TOMOHIDE GOTO⁷, MASAYUKI SASAKI⁵, KAZUHIRO HAGINOYA⁸, MASAFUMI MORIMOTO⁹, TAKAHITO WADA¹, JUN-ICHI TAKANASHI²
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- O-154 Childhood-onset cerebellar atrophy In Japan: Questionnaire survey of pediatric neurologists
Hiroya Ono¹, YUUKO MOTOHASHI¹, KAZUSHI MARUO², ERI TAKEHITA¹, TAKASHI SAITO¹, AKIHIKO ISHIYAMA¹, HIROFUMI KOMAKI¹, EIJI NAKAGAWA¹, KENJI SUGAI¹, MASAYUKI SASAKI¹
(1.Department of Child Neurology, National Center of Neurology and Psychiatry, Tokyo, Japan, 2.Faculty of Medicine Research, University of Tsukuba, Ibaraki, Japan)
- O-155 Functional analysis of neuronal disease by direct conversion from fibroblasts to nerve cells
Yurika Uematsu¹, MITSUGU UEMATSU¹, RYOU SATO^{1,2}, KEN INOUE³, 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 reserch, national centar of neurology and psychiatry, Kodaira, Japan)
- O-156 Transient hyperintensity and swelling in globus pallidus and substantia nigra suggests SENDA/BPAN
Akihiko Ishiyama^{1,2}, Yoshihiko Saito¹, Yusaku Miyamoto⁴, Eri Takeshita¹, Yuko Motohashi¹, Takashi Saito¹, Hirofumi Komaki¹, Eiji Nakagawa¹, Kenji Sugai¹, Noriko Sato³, Ichizo Nishino², Masayuki Sasaki¹
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- O-157 Siblings of acyl CoA oxidase deficiency caused by a novel ACOX1 gene mutation
Takashi Enokizono¹, Nobuyuki Shimozawa², Atsushi Morita¹, Shiena Watanabe¹, Mai Tanaka¹, Tatsuyuki Ohto¹, Kazuhiro Iwama³, Takeshi Mizuguchi³, Naomichi Matsumoto³
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Masataka Fukuoka¹, Hisashi Kawawaki¹, Kiyohiro Kim¹, Takeshi Inoue¹, Megumi Nukui¹, Ichiro Kuki¹, Shin Okazaki¹, Noritsugu Kunihiro², Yasuhiro Matsuzaka², Junichi Ishikawa^{3,5}, Kiyoko Amo³, Masao Togawa³, Atsushi Ujira⁴, Hiroshi Rinka⁵
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- O-159 Seven cases of childhood cerebrovascular disease entering our intensive care unit: A case series
Yuko Nakamura¹, TAKEHIRO NIITSU¹, RYOUSUKE HUKUSHIMA², IKUYA UETA¹, Motoyuki MINAMITANI³, SHINICHIRO HAMANO³

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3.Division of Neurology, Saitama Children's Medical Center,Saitama,Japan)
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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 Yamanaka^{1,2}, ATSUKO HARADA², DAISUKE SAKAMOTO^{2,4}, HIDETSUNA
UTSUNOMIYA³
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Neurosurgery, Hyogo College of Medicine, Hyogo, Japan, 5.Emergency and critical care center,
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Ryoko Hayashi^{1,3}, KURIKO SHIMONO^{1,2,3}, MIKA HIROTSUNE^{1,3}, YOSHIKO IWATANI^{1,2,3},
MASAYA TACHIBANA^{1,2}, KOJI TOMINAGA^{1,2}, SHIN NABATAME^{1,3}, IKUKO MORI^{1,2},
SATORU OSHINO³, HIROKI KATO⁵, HARUHIKO KISHIMA^{3,4}, Keiichi Ozono^{1,3}, MASAKO
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Osaka University, Suita, Japan, 3.Epilepsy Center, Osaka University Hospital, Suita, Japan,
4.Department of Neurosurgery, Graduate School of Medicine, Osaka University,Suita, Japan)
- O-163 Two cases of ring chromosome 20 syndrome with non—convulsive status epilepticus
Hirokazu Yamagishi¹, MASAHIDE GOTOU¹, HITOSHI OSAKA¹, MARI KUWASHIMA¹,
KAZUHIRO MURAMATSU¹, KENSUKE KAWAI², 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 OBOSHI, RIE NAKAI, YUUICHI KIMIZU, TAE IKEDA, YUKIKO
MOGAMI, YASUHIRO SUZUKI
(Department of Pediatric Neurology, Osaka Woman's and Childres's Hospital)
- O-165 Switching from CBZ to LCM improved hyponatremia in 6 patients with SMID
Tomohiro Fujii, Tomoko Kirino, Yumi Fujihara, Shigehiro Nagai (National Hospital
Organization Shikoku Medical Center for Children and Adults, 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 Presentation31

Febrile seizure

- O-168 Adherence among pediatricians to the Guidelines for Management of Febrile Seizures 2015
Masaharu Tanaka¹, Jun Natsume^{1,2,3}, Kuniaki Iyoda³, Hideaki Kanemura³, Masaya Kubota³,
Noriko Kojimahara³, Takuya Tanabe³, Harumi Yoshinaga³, Shinichi Nijjima³, Shinichiro
Hamano³, Masakazu Mimaki³, Hideo Sugie³, Tokiko Fukuda³, Yoshihiro Maegaki³
(1.Department of Pediatrics, Nagoya University Graduate School of Medicine, Nagoya, Japan,
2.Department of Developmental Disability Medicine, Nagoya University Graduate School of
Medicine, Nagoya, Japan, 3.The Working Group of the Guidelines for Management of Febrile
Seizures, Japan)

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- O-169 Prevalence of epilepsy after febrile seizure including older child
Motoko Ogino^{1,2}, Mitsuru Kashiwagi², Takuya Tenabe³, Chizu Ooba², Shohei Nomura², Sosuke Yoshikawa⁴, Shuichi Shimakawa¹, Koji Azumakawa⁵, Hiroshi Tamai¹
(1.Department of Pediatrics, Osaka Medical College Hospital, Osaka, Japan, 2.Department 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 course of complex febrile seizures
Mitsuru Kashiwagi¹, TAKUYA TANABE², MOTOKO OGINO^{1,3}, Chizu Oba¹, SHOHEI NOMURA¹, SOSUKE YOSHIKAWA⁴, SYUICHI SHIMAKAWA³, KOUJI AZUMAKAWA⁵, HIROSHI TAMAI³
(1.Department of Pediatrics, Hirakata City Hospital, 2.Department of Pediatric Neurology, Tanabe Pediatric clinic, 3.Department of Pediatrics, Osaka Medical College, 4.Department of Pediatrics, Daiichitowakai 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, TOSHIHIRO OHURA
(Division of Pediatrics, Sendai City Hospital, Sendai, Japan)

Oral Presentation32

Spinal muscular atrophy

- O-173 Nusinersen therapy for SMA under the cooperation between pediatrician and anesthesiologist
Masashi Nagai¹, Hiroyuki Awano¹, Masaaki Matsumoto¹, ryousuke Bo¹, Kazumi Tomioka¹, Tsukasa Tanaka¹, Masahiro Nishiyama¹, Kaori Maeyama¹, Hiroaki Nagase¹, Norihiko Obata², Satoshi Mizobuchi², Hisahide Nishio³, Kadumoto Iijima¹
(1.Department of Pediatrics, Kobe University Graduate school of Medicine, Kobe, Japan, 2.Division of Anesthesiology, Department of Surgery Related, Kobe University Graduate School of Medicine, Kobe, Japan, 3.Department of Community Medicine and Social Healthcare Sciences, Kobe University Graduate School of Medicine, Kobe, Japan)
- O-174 The effectiveness of nusinersen in 3 patients with spinal muscular atrophy type I receiving TPPV
Naoko Taniguchi^{1,2}, KEIKO ISHIGAKI¹, MINOBU SHICHIJI¹, TAKATOSHI SATO¹, HAYATO SUZUKI³, KOTA KASHIMA³, KAHO NAKAMURA³, MIKIKO HASEGAWA³, TETSUO IKAI⁴, SATORU NAGATA¹
(1.Department of Pediatrics, Tokyo Women's Medical University, Tokyo, Japan, 2.Department of Pediatrics, Hyogo College Of Medicine, Hyogo, Japan, 3.Department of Rehabilitation Medicine, School of Medicine, Tokyo Women's Medical University, Tokyo, Japan, 4.Department of Rehabilitation, Tokyo Women's Medical University, Tokyo, Japan)
- O-175 Nusinersen treatment in patients with SMA type 1 with tracheostomy and mechanical ventilation
Hideki Shimomura¹, Tomoko Lee¹, Chikako Mure¹, Yuka Yotsumoto², Hiroyuki Awano³, Hisahide Nishio⁴
(1.Department of Pediatrics, Hyogo College of Medicine, Nishinomiya, Japan, 2.Department of Pediatrics, Takatsuki General Hospital, Osaka, Japan., 3.Department of Pediatrics, Kobe University Graduate School of Medicine, Kobe, Japan, 4.Department of Community Medicine and Social Healthcare Sciences, Kobe University Graduate School of Medicine, Kobe, Japan)
- O-176 A case of spinal muscular atrophy type 1 treated by nusinersen from early infancy
Eri Nishino, Noriko Namatame, Osamu Kawano, Kiyoshi Egawa, Naoko Asahina, Hideaki Shiraiishi (Department of Pediatrics, Hokkaido University Hospital, Hokkaido, Japan)
- O-177 Effects of nusinersen in two cases of spinal muscular atrophy type 1
Taiju Hayashi¹, YUSUKE ITO², REI URUSHIBATA¹, TSUTOMU SHIODA³, TAKUYA HIRAIDE¹, KEIKO HIRANO², TOKIKO FUKUDA¹
(1.Department of Pediatrics Hamamatsu University School of Medicine, Hamamatsu-city, Japan, 2.Department of Pediatrics Iwata City Hospital, Iwata-city, Japan, 3.Department of Pediatrics Shizuoka Saiseikai General Hospital, Shizuoka-city, Japan)
- O-178 Efficacy of nusinersen for infantile—onset spinal muscular atrophy
Akiyo Yamamoto, KOUSUKE TSUCHIDA, MIYAKO MIZUKAMI, KENTAROU KAWAMURA, SHINOBU FUKUMURA, HIROYUKI TSUTSUMI

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(The Department of Pediatrics, University of Sapporo Medical University, Sapporo, Japan)

Oral Presentation33

Palliative medicine/Home care

- O-179 Advance care planning for adolescent patients with life-threatening neurological conditions
Nobuyuki Yotani¹, Yoshiyuki Kizawa², Haruo Shintaku³
(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 Kobato institution, Kasugai, Aichi)
- O-181 Think about the current state of adult transitional medicine for pediatric neurological diseases
Sunao Tomita¹, ASAMI ITOH^{1,2}
(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, Seijiro Aso^{1,2}
(1.Japanese Red Cross Medical Center, Tokyo, Japan, 2.Aso Child Clinic, Tokyo, Japan)

Poster Presentation01

- P-001 Usability of the specific chronic diseases in childhood database using TSC data
Tetsuya Okazaki^{1,2}, TOMONARI AWAYA², MASAHARU HAYASHI³, HIROFUMI KOMAKI⁴, AKINORI MORIICHI⁵, 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 nishikori⁴ (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 hemangioma mimicking to Sturge-Weber syndrome
Chihiro Oba, Katsunori Fujii, Kota Nagaoka, Hironobu Kobayashi, Naoki Saitou, Tomoko Uchida, Tadashi Shiohama, Naoki Shimojo (Department of Pediatrics, Chiba University Graduate School of Medicine, Chiba, Japan)
- P-004 The gastrointestinal 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 Nakazawa^{1,2}, MITSURU IKENO¹, SHINPEI ABE¹, TAIKI SHIMA¹, SHINICHI NIIJIMA³, TOSHIKI SHIMIZU¹, MADOKA NAKAJIMA⁴, HIDENORI SUGANO⁴
(1.Department of Pediatrics, Juntendo University Faculty of Medicine, Tokyo, Japan, 2.Department of Pediatrics, Sanikukai Hospital, Tokyo, Japan, 3.Department of Pediatrics,

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Juntendo Nerima Hospital, Tokyo, Japan, 4.Department of Neurosurgery, Juntendo University Faculty of Medicine, Tokyo, Japan)

- P-006 Clinical features of 10 cases with megalencephaly
Shinsuke Katou¹, SHINOBU FUKUMURA², AKIYO YAMAMOTO², KENTARO KAWAMURA², HIROYUKI TSUTSUMI², AKI ISHIKAWA³, TOSHIHIDE WATANABE⁴, AKIKO TSUDUKI⁵, TOSHIYUKI MIYASHITA⁶, IKUMI HORI⁷, SHINJI SAITOU⁷
(1.Department of Pediatrics, Rumoi City Hospital, 2.Department of Pediatrics, Sapporo Medical University School of Medicine, Sapporo, Japan, 3.Department of Medical Genetics, Sapporo Medical University School of Medicine, Sapporo, Japan, 4.Department of Child Neurology, Hokkaido Medical Center for Child Health and Rehabilitation, Sapporo, Japan)

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, TETSU HARU KAMIOKA, SATO SUZUKI, HIROSHI TERASHIMA, MASAYA KUBOTA
(Division of Neurology, National Center for Child Health and Development, Tokyo, Japan)
- P-009 Team approach for Tuberous Sclerosis in Tokyo Medical University Hospital
Yu Ishida¹, GAKU YAMANAKA¹, MIKA TAKEHISHITA¹, NATSUMI MORISHITA¹, TOMOKO MORI¹, SHINICHIRO MORICHI¹, SOKEN GO¹, YASUYUKI MORISHIMA^{1,2}, SHINGO OANA¹, HIRONAO NUMABE^{1,2}, HISASHI KAWASHIMA¹
(1.Department of Pediatrics, Tokyo Medical University, Tokyo, Japan, 2.Clinical Genetics Center, Tokyo Medical University, Tokyo, Japan)
- P-010 Gene expression profile corresponding to autism-like behaviors in mouse models of tuberous sclerosis
Hirofumi Kashii^{1,2,3}, ATSUSHI SATO^{2,4}, SHINYA KASAI², YOKO HAGINO², HIROKO KOTAJIMA², MIHO TANAKA², TOSHIYUKI KOBAYASHI⁵, OKIO HINO⁵, KAZUTAKA IKEDA², AKIRA OKA^{1,4}, MASASHI MIZUGUCHI³
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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 TAKANAKA¹, ATSUSHI SATOU¹, AKIRA OKA¹, MASASHI MIZUGUCHI³
(1.The Department of Pediatrics, University of Tokyo, Tokyo, Japan, 2.Juuyo pediatric clinic, Tokyo, Japan, 3.Department of Developmental Medical Sciences, School of International Health, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan)
- P-012 Importance of the comprehensive medical care for patients with tuberous sclerosis complex in TWMMU
Aiko Nishikawa, Susumu Ito, Yui Otani, Hirokazu Oguni, Satoru Nagata
(Department of Pediatrics, Tokyo Women's Medical University, Tokyo, Japan)
- P-013 Glioblastoma secondary to tuberous sclerosis: a case who required emergent surgery
Hiromitsu Miura¹, Takahiro Motoki¹, Kaori Hino¹, Toshihiro Jogamoto¹, Akira Makino², Mitsumasa Fukuda², Eiichi Ishii¹
(1.The Department of Pediatrics, University of Ehime, Ehime, Japan, 2.Ehime Prefectural Niihama Hospital, Ehime, Japan)

Poster Presentation03

- P-014 A case of PHACE syndrome

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Atsuko Ohno¹, YUKI MAKI¹, MASAHIRO TANAKA¹, YU OKAI¹, YOKO SAKAGUCHI¹, HIROYUKI YAMAMOTO¹, TOMOHIKO NAKATA¹, YUKAKO MURAMATSU¹, HIROYUKI KIDOKORO¹, JUN NATSUME^{1,2}

(1.Department of Pediatrics, Nagoya University, Aichi, Japan, 2.Department of Development Disability Medicine, Nagoya University, Aichi, Japan)

- P-015 Escobar syndrome with mutations in the fetal subunit of the acetylcholine receptor (CHRNA3) Tomohiko Nakata¹, SEIJI MIZUNO², YUKI MAKI¹, MASAHIRO TANAKA¹, YU OKAI¹, YOKO SAKAGUCHI¹, HIROYUKI YAMAMOTO¹, ATSUKO ONO¹, HIROYUKI KIDOKORO¹, ISSEI IMOTO³, KINJI OHNO⁴, JUN NATSUME^{1,5}
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- P-016 Amygdala and midbrain in patients with Gorlin syndrome Hideki Uchikawa^{1,2}, Katsunori Fujii¹, Tadashi Shiohama¹, Naoki Shimojo¹
(1.Department of Pediatrics, Graduate School of Medicine, Chiba University, Chiba, Japan, 2.Eastern Chiba Medical Center, Togane, Japan)
- P-017 A girl with Moebius syndrome associated with Kallmann syndrome Wataru Matsumura, Yoshiaki Saito, Yoshihiro Maegaki
(Department of Child Neurology, Tottori University Faculty of Medicine, Yonago, Japan)
- P-018 A case of Aicardi-Goutieres syndrome with persistent serum IFN- α elevation Kazuo Kubota¹, HIDENORI OHNISHI¹, YOSHINORI TSURUSAKI², KENJI ORII³, TOSHIYUKI YAMAMOTO⁴, NAOMICHI MATSUMOTO², TOSHIYUKI FUKAO¹
(1.Department of Pediatrics, Gifu University Graduate School of Medicine, Gifu, Japan, 2.Department of Human Genetics, Yokohama City University, Graduate School of Medicine, Yokohama, Japan, 3.Nagamori Pediatrics Clinic, 4.Institute of Medical Genetics, Tokyo Women's Medical University, Tokyo, Japan, 5.Department of Developmental Disability Medicine, Nagoya University Graduate School of Medicine, Nagoya, Japan)
- P-019 Efficacy of home high-flow nasal cannula on recurrent pulmonary infections in a CHARGE syndrome boy Aya Sato¹, Satoshi Hamada², Daisuke Abe¹, Takeshi Kanda¹, Setsuko Nishijima¹, Tsuyoshi Ishigami¹
(1.Hikone Municipal Hospital, Shiga, Japan, 2.Hikone Municipal Hospital, Shiga, Japan)
- P-020 A case of craniometaphyseal dysplasia with congenital facial nerve palsy Ryoko Nakamura, FUMIYA YAMASHITA, KENICHI MAEDA, PIN FEE CHONG, RYUTARO KIRA
(Department of Pediatric Neurology, Fukuoka Children's Hospital, Fukuoka, Japan)

Poster Presentation04

- P-021 The method to estimate stature from tibial length on the adults with severe cerebral palsy Kenji Kihara^{1,2}, Mariko Yagi³, Yoko Kawasaki³, Yoko Matsumoto³, Mio Nishimura³, Satoshi Takada²
(1.Nikoniko-house medical welfare center, Kobe, Japan, 2.Kobe university graduate school of health science, Kobe, Japan, 3.Nikoniko-house medical welfare center, Kobe, Japan)
- 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)
(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)
(Department of Neurology, Gunma Children's Medical Center, Shibukawa, Japan)
- P-024 Effectiveness of inhaled tobramycin for refractory pneumonia in severely-retarded children Yoshimichi Hirayama (Department of Pediatrics Naha city hospital, Okinawa, Japan)
(Department of Pediatrics Naha city hospital, Okinawa, Japan)

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- 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 severely Disabled and Handicapped)
(Tokyo Metropolitan Medical Center for severely Disabled and Handicapped)

Poster Presentation05

- P-027 The role of Respiratory Care Team
Shiho Honzawa¹, ERIKO NAKANO², SAIKO TANAKA², MASAMICHI OOKI³, KUNIKO KOYAMA⁴, 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, 4.Tokyo,Japan)
(1.Tokyo Metropolitan Tobu Medical Center for persons with developmental/multiple disabilities,Tokyo,Japan, 2.Tokyo,Japan, 3.Tokyo,Japan, 4.Tokyo,Japan)
- P-028 Long-term prognosis of epilepsy in patients with cerebral palsy
Yoshiko Tsubouchi^{1,2}, AYAKO TANABE³, YOSHIAKI SAITO², 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 Sano², Kiyoko Samesima², Chihiro Yonee² (1.Department of Pediatrics, Kagoshima Prefectural Hokusatsu Hospital, Kagosima, Japan, 2.Department of Pediatrics, Minamikyusyu Hospital, Kagosima, Japan)
- P-030 The utility of parent-child hospitalization for rihabilitation from the viewpoint of family support
Megumi Shiota, NAOTO YAMAGUCHI, JUNKO OHINATA (National Rihabilitation Center for Children with Disabilities)
(National Rihabilitation 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, Jiu Yuguchi¹, 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, HITOSHI 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)
- P-033 記述なし

Poster Presentation06

- P-034 Home health service in children with chronic neurologic disease
Mariko Maezawa¹, Kayo Fukuoka¹, Rumiko Sueoka¹, Terumasa Tsuchiya²
(1.Tsurumi University, Department of Dental Hygiene, Yokohama, Kanagawa, Japan, 2.Azabu Kouki clinic, Tokyo, Japan)
- P-035 Survey results of acceptance 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

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Kyoko Fujita¹, YOSHIAKI CHOU¹, YUKIYA KURAHASHI¹, MASAYO TSUDA¹, KATSUNORI KAMIMURA¹, AZUSA MARUYAMA², RYOJIRO TANAKA¹, TERUKO TAKUMI¹, YOSHIYUKI UETANI¹

(1.Department of Emergency and Hospital Medicine, Hyogo Prefectural Kobe Children's Hospital, Hyogo, Japan, 2.Department of Neurology, Hyogo Prefectural Kobe Children's Hospital, Hyogo, Japan)

- P-038 True needs revealed from questionnaires to families using short-term residential facility for child Sato Suzuki—muromoto¹, NAHOKO KATAYAMA-UEDA¹, RYOSUKE URABE¹, ITARU HAYAKAWA¹, TETSUHARU KAMIOKA¹, GO TAKEI¹, HIROSHI TERASHIMA¹, NOBUYUKI YOTANI², MASAYA KUBOTA¹
(1.Division of Neurology, National Center for Child Health and Development, 2.Division of Palliative Medicine, National Center for Child Health and Development)
- 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 Sato^{1,2}, MIHO TANAKA^{2,3,4}, SHINYA KASAI², YOKO HAGINO², HIROKO KOTAJIMA², HIROFUMI KASHII^{2,5}, YASUMASA NISHITO⁶, MASUMI INAGAKI⁴, ICHIRO SORA⁷, MASASHI MIZUGUCHI⁸, KAZUTAKA IKEDA^{2,3}
(1.Department of Pediatrics, The University of Tokyo Hospital, Tokyo, Japan, 2.Addictive Substance Project, Tokyo Metropolitan Institute of Medical Science, Tokyo, Japan, 3.Niigata University Graduate School of Medical and Dental Sciences, Niigata, Japan, 4.Department of Developmental Disorders, National Institute of Mental Health, National Center of Neurology and Psychiatry, Kodaira, Japan)
- P-042 Neural correlates for judging and sensing of auditory information in ASD individuals: An fMRI study
Keisuke Wakusawa^{1,2,3}, TAKAHIRO NARA³, CHIEKO NARA⁴, YUKI KUBOTA⁴, SHIGEO KURE⁴, HIROYUKI YOKOYAMA⁵
(1.Research Center for Child Mental Development, Hamamatsu University School of Medicine, Hamamatsu, Japan, 2.Department of Advanced brain science, Institute of Development, Aging and Cancer, Tohoku University, Sendai, Japan, 3.Department of developmental psychiatry, Miyagi Children's hospital, Sendai, Japan, 4.Department of Pediatrics, Tohoku University School of Medicine, Sendai, Japan)
- P-043 Evaluation of social development in children with autism spectrum disorders whom we intervened early
Kaoru Moriyama^{1,2}, AKIKO FUJII¹, MITSUHIRO MATSUO¹, MUTSUKO MIYAZAKI¹, TAMAO NAGAOKA¹, KAZUNORI MOTOYAMA¹, HIROYUKI MORIUCHI² (1.Nagasaki Prefectural Children's Medical Welfare Center, Japan, 2.Nagasaki University Hospital, Japan)
(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)
(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, FUMIHITO NOZAKI, IKUKO HIEJIMA, ANRI HAYASHI, MIOKO 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 Fujii¹, Nozomi Hijikata², Ayumi Ochiai³, Mana Matsuoka¹, Mari Yamasaki¹, Yuko Ogawa¹

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Poster Presentation08

- 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 Mizorogi^{1,2}, MIRI SATO³, YUKA AKIYAMA², HIROSHI YOKOMICHI², ZENTARO YAMAGATA^{2,3}, 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, Kazuhisa Inoue⁴, Hiromi Kotani², Satomi Shimizu⁵, Rika Ochiai⁶, Yoko Muto⁸, Toshihiro Kato⁷, Takashi Otani⁹, Natsumi Maruo¹, Keiko Okubo¹
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Poster Presentation09

- 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)
(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 Suzuki^{1,3}, YASUSHI ITO^{1,2,3}, 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 Neurology, 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 Uenishi³, Ikuko Mohri^{1,2,4}, Masako Taniike^{1,2,4}
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Poster Presentation10

- 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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of Pediatrics, Showa University School of Medicine, Tokyo, Japan, 3.Department of Human
Genetics, Yokohama City University Graduate School of Medicine, Kanagawa, Japan)
- P-059 A case of cortical dysplasia and microcephaly with a TUBG1 mutation
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Shiro Ozasa⁴, Mitsuhiro Kato⁵
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3.Department of Pediatrics, Ehime Prefectural Niihama Hospital, Niihama, Ehime, Japan,
4.Department of Pediatrics, Kumamoto University, Kumamoto, Japan)
- 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 Matsumoto², Kazuhiro Hagonoya¹
(1.Department of neurology, Miyagi Children's Hospital, Sendai, Japan, 2.Department of
Human Genetics, Yokohama City University Graduate School of Medicine, Yokohama, Japan)
- P-061 A case with mucopolidosis complicated with cerebral dysplasia and cerebral infarction
Koji Morita¹, KENTARO HANAOKA¹, KOZUE KOBAYASHI², AKIRA HOJO², MITSUHIRO
KATO², KATSUMI MIZUNO¹, MASARU TATSUNO², SATOKO MIYATAKE³, NAOMICHI
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2.Department of Pediatrics, Showa University School, Tokyo, Japan, 3.Graduate School of
Genetics, Yokohama City University School of Medicine, Kanagawa, Japan)
- P-062 A case of MEHMO syndrome with leukodystrophy and diabetes
Mioko Mori¹, Tomohiro Kumada¹, Toshiki Takeuchi², Tomoko Uehara², Hisato Suzuki²,
Kenjiro Kosaki², Katsuyuki Matsui³, Yoshihiro Maruo³, Minoru Shibata¹, Fumihito Nozaki¹,
Ikuko Hiejima¹, Anri Hayashi¹, Kenji Inoue¹, Saeko Sasaki¹, Tatsuya Fujii¹
(1.Shiga Medical Center for Children, Shiga, Japan, 2.Center for Medical Genetics, Keio
University School of Medicine Tokyo, Japan, 3.Department of Pediatrics, Shiga University of
Medical Science Hospital, Shiga, Japan)
- P-063 A case of Leukoencephalopathy with calcifications and cysts caused by mutations in SNORD118
Kazuo Kodama¹, TAKU OMATA¹, YOSHIMI WATANABE¹, HIROMI AOYAMA¹, JUN-ICHI
TAKANASHI², KAZUHIRO IWAMA³, TAKESHI MIZUGUCHI³, NAOMICHI MATSUMOTO³
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Medical University, Yachiyo Medical Center, Yachiyo, Japan, 3.Department of Human Genetics
Yokohama City University Graduate School of Medicine, Yokohama, Japan)
- P-064 A case of mild intellectual disability and epilepsy arising from a novel PPP2R1A mutation
Yoshihiro Watanabe¹, AZUSA IKEDA¹, HIKARI KABA¹, SAOKO TAKESHITA¹, MITSUKO
NAKASHIMA^{2,3}, NAOMICHI MATSUMOTO³
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Yokohama, Japan)

Poster Presentation11

- P-065 Novel case of ZTTK syndrome including a case overlapping with inherited GPI deficiency
Junpei Tanigawa^{1,2}, NOBUHIKO OKAMOTO³, KOJI TOMINAGA^{1,2,4}, MASAHIRO KITAI⁵,
SHIN NABATAME^{1,2}, SATOKO MIYATAKE⁶, NORIKO MIYAKE⁶, NAOMICHI
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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 Haraguchi^{1,2}, Nanako Nishiguchi¹, Tatsuharu Sato¹, Hiroyuki Moriuchi¹
(1.Pediatrics,Nagasaki University Hospital,Nagasaki,Japan, 2.Sasebo City General Hospital,Nagasaki,Japan)
- P-067 A case with intellectual disability possibly caused by NACC1 mutation
Motomasa Suzuki, YASUKO KOJIMA, MAHITO ATOBE, YUSUKE AOKI, KAZUYA ITOMI
(Department 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 Eguchi^{1,3}, Nobutsune Ishikawa^{1,3}, Hiroo Tani^{1,3}, Yoshiyuki Kobayashi^{1,3}, Koji Iida^{2,3}, Masao Kobayashi¹
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Poster Presentation12

- 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 NISHIMURA³, SOTARO KANAI¹, SHINJI ITAMURA¹, YOSUKE MASUDA², HIDEO ENOKI¹, 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, mitsuyo nishimura³, 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 Presentation13

- P-075 Successful treatment of West syndrome by high-dose vitamin B6 in a boy with Klinefelter's syndrome

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University Medical Center, Yokohama, Japan)

- 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 Kamioka, 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
(1.The Department of Pediatrics, Ohta Nishinouchi Hospital, Fukushima, Japan, 2.The
Department of Pediatrics, University of Tokyo, Tokyo, Japan)

Poster Presentation14

- 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
(1.Nagahama Red Cross Hospital, Shiga, Japan, 2.The Department of Pediatrics, University
of Shiga Medical Medical Science, Shiga, Japan, 3.Biwako Gakuen Yasu, Shiga, Japan)
- 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, Katsuhiko Kobayashi, Tomoyuki Akiyama
(Department of Child Neurology, Okayama University Hospital, Okayama, Japan)

Poster Presentation15

- P-086 A case of Neuronal ceroid lipofuscinos with successive treatment by Perampanel
Ken Momosaki, 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)

Poster Presentation16

- 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 TOHYAMA¹, MITSUHIRO KATO², MITSUKO NAKASHIMA³, NAOMICHI MATSUMOTO⁴
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- P-092 West syndrome associated with 1p35 deletion including BAI2
Taichi Imaizumi^{1,2}, NOBUHIKO OKAMOTO³, KEIKO YAMAMOTO-SHIMOJIMA¹, YUMIKO ONDO¹, TOSHIYUKI YAMAMOTO¹
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- P-093 An infant with neonatal seizure identified STXBP1 variant
Takao Hoshina¹, TOSHIYUKI SETO¹, KENJI FUJITA¹, NORIKATSU HIKITA¹, SATORU SAKUMA¹, TOSHIYUKI YAMAMOTO², HARUO SHINTAKU¹
(1.Department 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 Yanagishita^{1,2}, TAICHI IMAIZUMI^{1,3}, KEIKO YAMAMOTO-SHIMOJIMA¹, HIKARU KITAHARA⁴, KATSUMI IMAI⁴, TOSHIYUKI YAMAMOTO¹
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- P-095 Two cases of intractable epilepsy and involuntary movements with regression mimicking PME
Fumio Ichinose¹, Muneaki Matsuo¹, consortium IRUD-P²
(1.Department of Pediatrics, Faculty of Medicine, Saga University, Saga, Japan, 2.IRUD-P consortium, Tokyo, Japan)

Poster Presentation17

- 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 HIRATA², TAKESHI MIZUGUCHI³, NAOMICHI MATSUMOTO³, MITSUHIRO KATO⁴
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- P-097 5q14.2-q15 triplication case: developmental delay, microcephaly, repetitive movements and epilepsy
Hiroko Matsushita¹, Sozo Okano¹, Katsumi Hayakawa², Soichi Mukaida³, Kazuhiro Shiraishi³, Mitsuko Nakashima⁴, Naomichi Matsumoto⁴, Mitsuhiro Kato⁵
(1.Kyoto City Hospital, Kyoto, Japan, 2.Kyoto City Hospital, Kyoto, Japan, 3.National Hospital Organization Utano Hospital, Kyoto, Japan, 4.Department 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, Atsurou Daida, Nao Umehara, Masaaki Ogihara, Isao Kusawaka
(Department of Pediatrics , St. Lukes International Hospital , Tokyo , Japan)

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- 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
(1.Tokyo Metropolitan Tobu Medical Center for persons with Developmental Multiple Disabilities,Tokyo, Japan, 2.SHOWA University School of Medicine, 3.Department of human genetics, Yokohama City University Graduate School of Medicine)
- P-100 A case with PEX1gene mutation with epileptic encephalopathy
Kayo Kunisada, MOTOKO OGINO, ATUSHI MORI, MARI HATANAKA, MIHO FUKUI, SHUICHI SIMAKAWA, HIROSHI TAMAI
(Department of Pediatrics ,Osaka Medical College,Osaka,Japan)

Poster Presentation18

- 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 pediatrics,Tokyo , Japan)
- P-102 A case report: possible benign neonatal convulsion
Shodo Hirano, Akito 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 Ohkubo¹, Masafumi Sanefuji¹, Ayumi Sakata⁴, Masahiko Kimura⁵, Seiji Yamaguchi⁵, Osamu Sakamoto⁶, Hiroto Saito⁷, 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
(1.Department of Pediatrics, Jikei University Daisan Hospital, Tokyo, Japan, 2.Department of Pediatrics, Jikei University Kashiwa Hospital, Chiba, Japan, 3.Division of Neurology, Saitama Children's Medical Center, Saitama, Japan)

Poster Presentation19

- P-105 MELAS patient with m.G4450A mutation
Mari Kuwajima¹, HITOSHI OSAKA¹, MASAHIDE GOTO¹, TAKAHIRO IKEDA¹, KEI MURAYAMA², HIROKO SHIMBO³, TAKANORI YAMAGATA¹
(1.Department of Pediatric, Jichi Medical University, Tochigi, Japan, 2.Chiba Children's Hospital, Chiba, Japan, 3.Kanagawa Children's Medical Center Clinical Research Institute, Kanagawa, Japan)
- 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 Nishino², Yuichi Gotou³, Masayuki Sasaki¹
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- P-107 Clinical course and brain MRI findings of MELAS due to m.14453G>A
Kei Iwata^{1,2,3,4}, AKIHIKO ISHIYAMA¹, ERI TAKESHITA¹, YUKO MOTOHASHI¹, TAKASHI SAITO¹, HIROHUMI KOMAKI¹, EIJI NAKAGAWA¹, KENJI SUGAI¹, ICHIZO NIHINO^{2,3}, YUICHI GOTO^{2,4}, MASAYUKI SASAKI¹

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- P-108 Association between severity score, Intelligence and Cognitive function in patients with MELAS
Rio Mukasa, Syuichi Yatsuga, Miyuki Kitamura, Yasutoshi Koga
(dept. of Pediatr., 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 Presentation20

- P-110 A case of Leigh syndrome with SLC19A3 gene mutations in the neonatal period
Maki Nodera¹, Yuichi Suzuki¹, Yuichiro Asano¹, Ryo Maeda¹, Kazuhide Suyama¹, Asako Kato¹, Yukihiko Kawasaki¹, Mitsuaki Hosoya¹, Kei Murayama²
(1.Department of Pediatrics, Fukushima Medical University School of Medicine, Fukushima, Japan, 2.Department of Metabolism, Chiba Children's Hospital, Chiba, Japan)
- P-111 Auditory brainstem response and neurological prognosis in leigh syndrome
Kenshi Sei¹, TATUROU KUMAKI¹, AYAKO YAMAMOTO¹, YU TUYUSAKI¹, KAZUSHI ICHIKAWA¹, MEGUMI TUJI¹, MIZUE IAI¹, SUMIMASA YAMASHITA¹, TOMOHIDE GOTO¹, AKIRA OOTAKE²
(1.Kanagawa Children's Medical center, Kanagawa, Japan, 2.Saitama Medical University Hospital, Saitama, Japan)
- P-112 Mitochondrial dysfunction of hyperornithinemia, hyperammonemia, and homocitrullinuria syndrome
Hiroaki Ono¹, TOMOKO TAMADA¹, YOSUKE SHIGEMATSU²
(1.The Department of Pediatrics, Hiroshima Prefectural Hospital, Hiroshima. Japan, 2.The Department of Pediatrics, Faculty of Medical Sciences, University of Fukui, Eiheiji-cho, Fukui)
- 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 Murayama³, Akira Ootake⁴
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- P-114 A case of molybdenum cofactor deficiency identified with MOCS1 mutation
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(Department of Pediatrics, Tohoku University School of Medicine, Sendai, Japan)
- P-115 Sodium phenylbutyrate improved clinical state in an adult patient with arginase 1 deficiency
Mayumi Matsufuji¹, EIKO TAKESHITA¹, YORIKO WATANABE², KAORI FUKUI², HIROMI IWATA¹, KUNIHIRO HAMAMOTO¹, TOSHIO HANAI¹, SACHIO TAKASHIMA¹
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Hideaki Mashimo¹, Yohane Miyata¹, Ikuko Shirai¹, Satoko Kumada¹, Hiroya Nishida¹, Shunpei Uchino^{1,2}, Konomi Shimoda^{1,2}, Yasuo Hachiya^{1,3}, Eiji Kurihara¹
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- P-117 Urinary mulberry cells observed in one Fabry disease boy with normal kidney function

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- Pin Fee Chong^{1,2}, Fumiya Yamashita¹, Kenichi Maeda¹, Ryoko Nakamura¹, Kimitoshi Nakamura³, Ryutaro Kira¹
(1.Department of Pediatric Neurology, Fukuoka Children's Hospital, Fukuoka, Japan, 2.Department of General Pediatrics and Interdisciplinary Medicine, 3.Department of Pediatrics, Kumamoto University, Kumamoto, Japan)
- P-118 A girl with Fabry disease presenting with refractory chronic migraine
Yuki Kihara¹, YASUSHI ITO², KAORU ETO³, HIDETSUGU NAKATSUKASA¹, KAORUKO MOTOE¹, SATORU NAGATA¹
(1.Tokyo Women's Medical University Hospital, 2.Aiiku Hospital, 3.Saiseikai Kurihshi Hospital)
- P-119 A case of GM1 gangliosidosis type 2: what are useful clinical data for early diagnosis?
Yukio Sawaishi¹, Miyuki Toyono¹, Eiji Nanba², Naomicih Matsumoto³
(1.Akita Prefectural Center on Development and Disability, Akita, Japan, 2.Division of Functional Genomics, Research Center for Bioscience and Technology, Yonago, Japan, 3.Department of Human Genetics, Graduate School of Medicine, Yokohama, Japan)
- P-120 Two cases of GM2 gangliosidoses
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(Department of Pediatrics, Toda Chuo General Hospital, Saitama, Japan)
- P-121 A case of Congenital disorder of glycosylation typeII developed intracranial hemorrhage
Koji Tominaga^{1,2}, RYOKO HAYASHI¹, MIKA HIROTSUNE¹, JUNPEI TANIGAWA¹, YOSHIKO IWATANI^{1,2}, KURIKO SHIMONO^{1,2}, SHIN NABATAME¹, NAOKI KAGAWA³, KAZUHIKO BESSHO¹, TADASHI KANAME⁴, KEIICHI OZONO¹
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Christoph Schwering¹, Irene Slavic², Jessica L Cohen-Pfeffer³, Sridharan Gururangan⁴, Elaina Jurecki³, Jeanne Krauser⁴, Tom Lester³, Daniel Lim⁵, Marcos Maldaun⁶, Adam J Shaywitz³, Manfred Westphal¹
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Kazuya Itomi¹, MOTOMASA SUZUKI¹, YASUKO KOJIMA¹, MAHITO ATOBE¹, YUUSUKE AOKI¹, YUKITOSHI TAKAHASHI², KEI SAKUMA³
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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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Hiromi Aoyama¹, Yoshimi Watanabe¹, Kazuo Kodama¹, Yukitoshi Takahashi², Hiroshi Sakuma³, Taku Omata¹
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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 Yamamoto¹, Hisashi Kawawaki¹, Masataka Hukuoka¹, Kiyohiro Kin¹, Megumi Nukui¹, Takeshi Inoue¹, Ichiro Kuki¹, Shin Okazaki¹, Jun Kubota², Shinichiro Hamano²
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Hiroo Tani^{1,2}, Nobutsune Ishikawa^{1,2}, Yoshiyuki Kobayashi^{1,2}, Yuta Eguchi¹, Toshiyuki Takahashi³, Kimihiko Kaneko³, Masao Kobayashi¹
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Azusa Ikeda¹, Hikari Kaba¹, Yoshihiro Watanabe¹, Saoko Takeshita¹, Kimihiko Kaneko², Toshiyuki Takahashi^{2,3}
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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 Matsuoka¹, MASAHIKO HIYANE¹, MASAHARU OHFU¹, YUKITOSHI TAKAHASHI² (1.Division of Child Neurology, Okinawa Prefectural Nanbu Medical Center and Children 's Medical Center, Haebaru, Japan, 2.Shizuoka Institute of Epilepsy and Neurological Disorders, Shizuoka, Japan)
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(Department of Pediatrics, Tohoku University School of Medicine, Sendai, Japan)
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Saoko Takeshita, Yoshihiro Watanabe, Yuu Fujiwara, Hikari Kaba, Moe Ito
(Department of Pediatrics, Yokohama City University Medical Center, Yokohama, Japan)

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(Department of Pediatrics, Japanese Red Cross Nagoya Daiichi Hospital, Aichi, Japan)
- P-137 Prospective study about developmental delay with congenital cytomegalovirus infection
Satoshi Takenaka¹, MARIKO KASAI¹, ATSUSHI SATO¹, YU KAKIMOTO¹, TAKAYUKI MORI¹, KONOMI SHIMODA¹, YOKO MIZUNO², MASASHI MIZUGUCHI³, AKIRA OKA¹

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- P-138 A case of postencephalitic epilepsy secondary to cytomegalovirus ventriculoencephalitis
Masaru Nasuno¹, Mitsuo Motobayashi², Yoshihiro Osawa¹, Manami Morikawa³, Takenori Natsume¹, Toshimitsu Yanagisawa¹, Yuji Inaba⁴
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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 Mori⁵, 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, TOSHIAKI SHIMIZU¹, AKIHISA OKUMURA²
(1.The Department of Pediatrics, Juntendo University, Tokyo, Japan, 2.The Department of Pediatrics, Aichi Medical University, Aichi, Japan)
- P-141 A case of infected subdural hematoma associated with Kawasaki disease
Hitoshi Ogata, TADASHI SHIOHAMA, RYOTA EBATA, TOMOKO UCHIDA, HIRONOBU KOBAYASHI, NAOKI SAITO, KATSUNORI FUJII, NAOKI SHIMOJO
(Department of Pediatrics, Chiba University Graduate School of Medicine, Chiba, Japan)

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Hiroshi Ozawa¹, KENICHIROU TSUNEMATSU²
(1.Deoartment of Child Neurology, Shimada Ryoiku 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 MATSUOKA¹, MASAHARU OHFU¹, 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 Shiba¹, 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, Tomoshiro Ito², KIYOSHI EGAWA¹, NAOKO ASAHINA¹, SHINOBU KOUSAKA¹, HIDEAKI SHIRAIISHI¹
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- P-146 L-thyroxine-responsive drop attacks in childhood benign hereditary chorea: a case report
Tadashi Shiohama¹, HIROHUMI OHASHI², KENJI SHIMIZU², KATSUNORI FUJII¹, DAIJU OBA², TOMOZUMI TAKATANI¹, MITSUHIRO KATO³, NAOKI SHIMOJO¹
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- P-147 Therapeutic usefulness of Levodopa, a case of Brain-lung-throid syndrome
Akio Fujine¹, ASAMI KUMANO¹, AKEMI TSUDA¹, HIDEO TSUDA², KENJI KUROSAWA³
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- P-148 Characteristics of epilepsy of extremely low birth weight infants
Michiko Torio¹, MASAYUKI OCHIAI², YURI SONODA³, YOSHITO ISHIZAKI¹, MASAFUMI SANEFUJI³, YASUNARI SAKAI¹, 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 KOBAYASHI², 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 SHIMONO¹, RYOUTA IGARASHI¹, YUMEKO MATSUDA¹, TOMOFUMI FUKUDA¹, AYAKO SENJU¹, SHIHO TAKANO¹, NAOKI SHIOTA², KOICHI KUSUHARA¹
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- P-151 Outcomes in light-for-date neonates with very low birth weight by cohort
Akiko Takeshita^{1,2}, KYOKO HIRASAWA¹, TOMOKO TAKAMURA³, KEN IMAI², ATSUSHI UCHIYAMA², SATORU NAGATA¹
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Yukiko Nakamura, CHIKA KOUNO, MAKI OOSAWA, YURI OZAWA, HIROSHI OZAWA
(The department of Neuropediatrics, Shimada Ryoiku Center Hachioji, Tokyo, Japan)
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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, TAKAHITO INOUE¹, YUKIKO IHARA¹, TAKAKO FUJITA¹, KAZUKO YOSHIMURA¹, ATSUSHI ISHII¹, HIROSHI IDEGUCHI¹, REIMI TURUSAWA², ATSUSHI OGAWA², SAWA YASUMOTO³, SHINICHI HIROSE¹
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Genrei Ohta¹, MASAO KAWATANI¹, TAKUYA KOSAKA¹, HIROSHI KOMETANI², YUSEI OHSHIMA¹
(1.Department of Pediatrics, University of Fukui, Fukui, Japan, 2.Houju Memorial Hospital, Ishikawa, Japan)
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Shiori Moriyama¹, Sou Uchida¹, Makiko Kurokawa², Hideaki Mashimo³, Kazue Sagi⁴, Akiko Miyata⁴, Mamiko Yamada¹, Miku Wada⁴, Kyoko Takamura¹, Shizuka Hirano¹, Sachiko Simosato¹, Hiroshi Yoneyama¹
(1.Tachikawa Hospital, Tokyo, Japan, 2.Tachikawa Hospital, Tokyo, Japan, 3.Tokyo Metropolitan Neurological Hospital, Tokyo, Japan, 4.Saiwai Kosomo Clinic, Tokyo, Japan)
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Etsuko Kanda (Kikkoman General Hospital)
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Masao Kawatani^{1,3,4}, Takuya Kosaka¹, Genrei Ohta^{1,4}, Hiroshi Kometani², Yusei Ohshima¹, Akemi Tomoda³, Michio Hiratani⁴

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(Yamagata Prefectural Medical and Rehabilitation for Children)
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Takuya Kosaka¹, Genrei Ohta^{1,2}, Hiroshi Kometani^{1,3}, Masao Kawatani^{1,2}, Yusei Ohshima¹, Michio Hiratani²
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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 Mohri^{1,2,4}, Tomoko Nishimura³, Masako Taniike^{1,2,4}
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Makiko Toyoura¹, YUKO TOYOTA¹, AKIO NAKAI¹, TERUHISA MIIKE¹, YUKURO KONISHI¹, KIYOSHI KIKUCHI¹, SEIKI TAJIMA^{2,5}, YASUKO FUNABIKI^{1,3}, HAYAO EBISE⁴, TOSHIHIRO YONEYAMA⁴, MIKIO AOKI⁴, YOUICHI NABESHIMA⁵
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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 Tachibana^{1,2}, SHIN NABATAME², RYOKO HAYASHI², MIKA HIROTSUNE², IKUKO HIRATA^{1,2}, GENKICHI IZUMI³, KYOKO HOSHINO^{3,4}, IKUKO MOHRI^{1,2}, KEIICHI OZONO², MASAKO TANIIKE^{1,2}
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- P-166 A case of ATR-X syndrome with respiratory chain disorders
Kaori Aiba^{1,2,3}, 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 Nakatsukasa¹, KYOKO HIRASAWA¹, SHINO SHIMADA¹, AKIKO TAKESHITA¹, HIROKAZU OGUNI¹, TOSHIYUKI YAMAMOTO², SATORU NAGATA¹ (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^{1,2}, KAZUO KUBOTA², NORIO KAWAMOTO², MINAKO KAWAMOTO², TAKESHI KIMURA², TOHRU HARADA³, MITSUKO NAKASHIMA⁴, HIROTOMO SAITSU⁴, TOSHIYUKI FUKAO²
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- P-169 A case of Coffin-Siris syndrome with dysplasia in the macular area
Takako Fujita¹, Yukiko IHARA¹, Hitomi HAYASHI¹, Atsushi ISHII¹, Hiroshi IDEGUCHI¹, Takahito INOUE¹, Sawa YASUMOTO², Toshiyuki YAMAMOTO³, Shinichi HIROSE¹
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- P-170 CREBBP mutations identified in patient without Rubinstein—Taybi syndrome phenotype
Kaori Fukui¹, Yoriko Watanabe^{1,2}, Koichiro Yoshiura³, Kotaro Yuge¹, Yushiro Yamashita¹
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- P-171 Clinical course of a patient with CAPOS syndrome presenting encephalopathy and recurrent ataxia
Hideshi Kawashima¹, Sawako Yamazaki^{1,2}, Shinya Tsukano¹, Shinichi Magara³, takao komatsubara³, yu kobayashi³, Moemi Hougami³, Jun Toyama³, atsushi ishi⁴, shinichi hirose⁴
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Yoko Kishimoto^{1,2}, Maki Ohsawa¹, Yuri Ozawa¹, Kaoru Amemiya¹, Chika Kono¹, Yukiko Nakamura¹, Keniciro Hata³, Tadashi Kaname⁴, Fumio Takada⁵, Hiroshi Ozawa¹
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- P-173 Collaborated Study of Fragile X syndrome and related diseases for promoting clinical research
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Emi Iwabuchi¹, RYUTA TANAKA¹, TAKASHI TSUKAKOSHI¹, RYUTARO SUZUKI¹, TAKURO SATO¹, HUJIKO FUKUSHIMA¹, ISHO IZUMI¹, JYUNKO NAKAYAMA², NOBUKO MORIYAMA³, TOSHIYUKI YAMAMOTO⁴
(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)
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- Rima Ando^{1,2}, KEIKO OKUMURA¹, TOMOYUKI TAKANO¹, SYOUSAKU YAMASAKI¹
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Satomi Okano¹, Ryosuke Tanaka¹, Akie Okayama¹, Nao Suzuki¹, Satoru Takahashi¹, Ichizo Nishino², Hiroshi Azuma¹
(1.Department of Pediatrics, Asahikawa Medical University, Asahikawa,Japan, 2.National Center of Neurology and Psychiatry Institute of Neuroscience)
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Hitomi Hino, TOMOHITO FUJIOKA
(Shikoku Central Hospital of the Mutual aid Association of Public School Teachers, Shikokuchuo, Japan)

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Ayumi Matsumoto¹, HITOSHI OSAKA¹, MASAKO NAGASHIMA¹, KAZUHIRO IWAMA², TAKESHI MIZUGUCHI², TAKAHIRO IKEDA¹, KAZUHIRO MURAMATSU¹, NAOMICHI MATSUMOTO², TAKANORI YAMAGATA¹
(1.Department of Pediatrics, Jichi medical university, Tochigi, Japan, 2.Department of human genetics, Yokohama city university graduated school of medicine, Yokohama, Japan)
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(1.The Department of Pediatrics, Shiga University of Medical Science, Shiga, Japan, 2.The Department of Pediatrics, Showa University, Tokyo, Japan, 3.The Department of Genetics, Yokohama city University, Kanagawa, Japan)
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Atsuko Arisaka¹, NAOKI MATSUBARA¹, RIE MIYATA¹, MITSUHIRO KATOU², MITSUKO NAKASHIMA³, NAOMICHI MATSUMOTO³
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Takuya Miyabayashi¹, Wakaba Endo¹, Takehiko Inui¹, Ryo Sato¹, Yukimune Okubo¹, Noriko Togashi¹, Tsuyoshi Mizuguchi², Naomichi Matsumoto²
(1.Department of Pediatric Neurology, Miyagi Children's Hospital, 2.Department of Human Genetics, Yokohama City University Graduate School of Medicine)
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Naomi Hino-fukuyo, ATSUO KIKUCHI, KAZUHIRO HAGINOYA, MIEKO HIROSE, HIROYUKI YOKOYAMA, SHIGEO KURE
(Department of Pediatrics, Graduate school of Medicine, Tohoku University, Sendai, Japan)

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Akiko Wakisaka¹, YO NIIDA², SHINYA YAMADA¹, SHINPEI YAMADA¹, AKIKO TOGA¹, AYANO YOKOI¹, NAMI NAKAMURA¹, KEIKO MARUHASHI¹, ICHIROU OHNO¹
(1.Department of Pediatrics,National Hospital Organization Iou Hospital,Kanazawa,Japan, 2.Center for Medical Genetics,KanazawaMedical University Hospital,Ishikawa,Japan)
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Takako Matsumoto, Toshiro Maihara
(Hyogo prefectural Amagasaki General hospital, Hyogo, Japan)
- P-185 Two cases of mosaic trisomy 8 with body weight gain loss
Keisuke Nakajima¹, KOUJI TAKAHASHI¹, MAHO UMEHARA¹, TETSUYA OOTA¹, TETSUHIRO HUKUYAMA²

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- (1.JA Toride General Medical Center, Ibaraki, Japan, 2.Nagano Children's Hospital, Nagano, Japan)
- P-186 Cervical spinal cord injury due to cervical spinal dysplasia with 22q11.2 deletion syndrome
Hiromi Suzuki¹, ASAMI ITO⁴, HIROSHI YOSHIHASHI², SATOSHI IHARA³, SAHOKO MIYAMA¹
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Nanako Nishiguchi, Tatsuharu Sato, Kaoru Moriyama, Kouhei Haraguchi, Kazuhiko Hashimoto, Daishi Inoue, Hiroyuki Moriuchi
(The Department of Pediatrics, Nagasaki University Hospital, Nagasaki, Japan)
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Keiko Yamamoto-shimajima^{1,2}, WATARU MATSUMURA³, TETSUYA OKAZAKI³, YOSHIHIRO MAEGAKI³, NOBUHIKO OKAMOTO⁴, TOSHIYUKI YAMAMOTO²
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- P-190 Leukoencephalopathy assessed by serial MRI in a patient with Jacobsen syndrome
Shuhei Fujino¹, SAHOKO MIYAMA¹, HIROSHI YOSHIHASHI², SATOSHI IHARA³
(1.Department of Pediatric Neurology, Tokyo Metropolitan Children's Medical Center, Tokyo, Japan, 2.Department of Medical Genetics, Tokyo Metropolitan Children's Medical Center, Tokyo, Japan, 3.Department of Neurosurgery, Tokyo Metropolitan Children's Medical Center, Tokyo, Japan)
- P-191 Phenytoin-responsive epileptic encephalopathy with a tandem duplication involving FGF12
Atsuo Kikuchi¹, Tomoko Kobayashi^{1,2}, Rui-ming Shi^{1,3}, Ryo Sato¹, Mitsugu Uematsu¹, Kumiko An⁴, Shigeo Kure¹
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- P-192 A Japanese girl with hypotonia-cystinuria syndrome
Kyoko Takano^{1,2}, KEIKO WAKUI^{1,2}, TETSUHIRO FUKUYAMA³
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- P-193 Neuropsychological development of a boy with 1q24q25 microdeletion syndrome
Masaharu Moroto^{1,2}, Yui Zen^{2,3,4}, Shinsuke Adachi², Kenichi Isoda^{2,5}, Tomohito Okumura⁶, Atsuhiko Handa⁷, Maki Fukami⁸, Gen Nishimura⁹
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Kaoru Amemiya, AKIKO MIYATA
(Saiwaikodomoclinic,Tokyo,Japan)
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Katsuhiko Kobayashi¹
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Fukuyama Hospital, 3.Fukuyama City Hospital)
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Satoshi Kidowaki, Kenichi Isoda
(Department of Pediatrics, Matsushita Memorial Hospital, Osaka, Japan)
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Yu Kakimoto¹, TAKAYUKI MORI¹, SATOSHI TAKENAKA¹, KONOMI SHIMODA¹, ATSUSHI
SATO¹, AKIRA OKA¹, MASASHI MIZUGUCHI²
(1.Department of Pediatrics, The University of Tokyo Hospital, Tokyo, Japan, 2.Department of
Developmental Medical Sciences, Graduate School of Medicine, The University of Tokyo, Tokyo,
Japan)
- P-199 High-frequency oscillations of MEG in tuberous sclerosis complex
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JUNPEI TANIGAWA^{1,4}, KOJI TOMINAGA^{1,2,4}, SHIN NABATAME^{1,4}, SATORU OSHINO^{3,4},
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Pediatric Neurology, Hamamatsu City Medical Center for Developmental Medicine,
Hamamatsu, Japan)
- P-201 Supports for disabled child at the regional hospital: the possibility and problem
Toshino Motojima^{1,2}, Fumie Ikeda³, Teruhito Furuichi^{3,4}, Hirokazu Arakawa²
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Rihabiritation, Motoijma General Hospital, Gunma, Japan, 4.The Department of
Rehabilitation, Dokkyo Medical University, Tochigi, Japan)
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Akiko Araki, Takeshi Ujiie
(Ujiie memorial clinic for children, Saporu, Japan)
- P-203 Neurocognitive impairment in survivors with pediatric brain tumor
Megumi Nukui^{1,2}, TAKESHI KAMIKUBO¹, ATSUHUMI KAWAMURA¹, MANABU
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International Medical Center, Saitama, Japan, 4.The Department of Pediatric Hematology and
Oncology, Osaka City General Hospital, Osaka, Japan)
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Hiroto Akaike^{1,2}, Erika Ogawa¹
(1.The Department of Pediatrics, Fujinomiya City General Hospital, Shizuoka, Japan, 2.The
Department of Pediatrics, Kawasaki Medical School, Okayama, Japan)

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Yukiko Ichida¹, NOBORU YOSHIDA², Taiki Shima¹, Mariko Hosozawa¹, Mitsuru Ikeno¹,
Shinpei Abe¹, Shinichi Nijima², Toshiaki Shimizu¹
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HIROSHI KOMETANI³, MICHIO HIRATANI⁴, YUSEI OHSHIMA¹
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Adolescent Psychological Medicine, University of Fukui, Fukui, Japan, 3.Houju Memorial
Hospital, Ishikawa, Japan, 4.Hiratani child developmental clinic, Fukui, Japan)
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Asuka Muramatsu¹, SONOKO MIZOROGI¹, KAORU FUJIOKA¹, HIDEAKI KANEMURA¹,
KANJI SUGITA¹, MASAO AIHARA²
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Sawako Ooba¹, TATSUYA KOEDA², YOSHIHIRO MAEGAKI³
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Center for Child Health and Development , Tokyo,Japan, 3.Tottori University Hospital
Deperntment of Child Neurology , Tottori,Japan)
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Nursing, Faculty of Nursing and Rehabilitations, Aino University, Osaka, Japan)
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(Department of Pediatrics, Tokyo Metropolitan Tama Rehabilitation Center for Disabled
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Hosoya¹
(1.Department of Pediatrics, Fukushima Medical University School of
Medicine,Fukushima,Japan, 2.Fukushima Prefectural Rehabilitation Center)
- P-212 Effects and side effects of extended—release guanfacine
Tadayuki Kumagai¹, KYOKO HOSHINO^{1,2}
(1.Division of pediatrics, Fujieda Municipal General Hospital, Shizuoka, Japan, 2.Segawa
Memorial Neurological Clinic for Children, Tokyo, Japan)
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(Hamamatsu City Welfare and Medical Center for Development, Department of Pediatric
Neurology, Hamamatsu, Japan)
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Genkichi Izumi¹, TAKAKO MARUYAMA², KYOKO HOSHINO^{1,3} (1.Department of Pediatrics,
National Hospital Organization Minami Wakayama Medical Center, Tanabe, Japan, 2.Clinical
psychotherapist, National Hospital Organization Minami Wakayama Medical Center, Tanabe,
Japan, 3.Segawa Memorial Neurological Clinic for Children, Tokyo, Japan)
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- (The Parkside Heart Development Clinic, Fukuoka, Japan)
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- P-220 The depth of barbiturate coma for refractory status epilepticus with fever
Kazumi Tomioka¹, HIROAKI NAGASE¹, TSUKASA TANAKA¹, MASAHIRO NISHIYAMA¹, YOKIDUKA², YUICHI TAKAMI³, HIROSHI YAMAGUCHI⁴, YUSUKE ISHIDA⁴, DAISAKU TOYOSHIMA⁴, AZUSA MARUYAMA⁴, HIROSHI KUROSAWA⁵, KYOKO FUJITA⁶, YOSHIYUKI UETANI⁶, SATOSHI TAKADA⁷, Kazumoto Iijima¹
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(Department of pediatrics, Aichi Medical University, Aichi, Japan)
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- P-223 A infant case with status epilepticus caused by excessive liquid intaking
Fujiko Fukushima¹, RYUUTA TANAKA¹, HITOMI KIMURA², HIROTO IDESAWA¹, YUGO TSUKADA¹, RYUTARO SUZUKI¹, TAKURO SATO¹, EMI IWABUCHI¹, ISYO IZUMI¹
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Hikaru Kitahara, Yukitoshi Takahashi, Asako Horino, Shinsaku Yoshitomi, Jun Mine, Tokito Yamaguchi, Hideyuki Otani, Hiroko Ikeda, Katsumi Imai, Hideo Shigematsu, Yushi Inoue
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Hideyuki Ohtani¹, Rumiko Takayama², Tomoko Nagase¹, Hikari Kitahara¹, Keiko Morioka¹, Yasuyuki Ohmatsu¹, Shinsaku Yoshitomi¹, Noriyosi Koike¹, Asako Horino¹, Jyun Mine¹, Tokito Yamaguchi¹, Hiroko Ikeda¹, Hideo Shigematsu¹, Katsumi Imai¹, Yukitoshi Takahashi¹
(1.National Epilepsy Center Shizuoka Institute of Epilepsy and Neurological Dis order, Shizuoka Japan, 2.Hokkaido medical center for child health and rehabilitation, Hokkaido, Japan)
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(The Department of Pediatrics, Japanese Red Cross Kyoto Daiichi Hospital, Japan)
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Yasushi Ito^{1,2,3}, HIROKAZU OGUNI¹, SATOSHI NAGATA¹
(1.Department of Pediatrics, School of Medicine, Tokyo Women's Medical University, Tokyo, Japan, 2.The Department of Pediatrics, Aiiku Hospital, Maternal and Child Health Center, Tokyo, Japan, 3.Tsuchiya Children's Hospital, Saitama, Tokyo)

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(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
Manami Morikawa¹, Mitsuo Motobayashi², Yoshihiro Osawa³, Masaru Nasuno¹, Takenori Natsume¹, Yuji Inaba⁴
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Kenji Inoue, TOMOHIRO KUMADA, MINORU SHIBATA, IKUKO HIEJIMA, FUMIHIRO NOZAKI, ANRI HAYASHI, MIOKO MORI, SAEKO SASAKI, TATSUYA FUJII
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Maki Toyama¹, SADAO NAKAMURA¹, YUIKO HAMADA¹, YASUTUGU CHINEN¹, ERI TAKESHITA^{2,3}, YUICHI GOTO², KOICHI NAKANISHI¹
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(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)
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Akito Watanabe, SHODO HIRANO
(Pediatrics, Toyonaka Municipal Hospital, Osaka, Japan)
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- Asami Ito^{1,2}, Shuhei Fujino¹, SAHOKO MIYAMA¹
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(1.Department of Pediatrics, Juntendo University, Tokyo, Japan, 2.Department of Pediatrics, Tokyo Rinkai Hospital, Tokyo, Japan, 3.Department of Pediatrics, Juntendo University Nerima Hospital, Tokyo, Japan)
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- (1.Pediatrics Division, Juntendo University Nerima Hospital, Tokyo, Japan, 2.Toshima Hospital, Tokyo, Japan, 3.Pediatrics division, Juntendo University Faculty of Medicine, Tokyo, Japan)
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(1.Department of Pediatrics, Hirakata City Hospital, 2.Department of Pediatric Neurology, Tanabe Pediatric clinic, 3.Department of Pediatrics, Osaka Medical College)
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Hazuki Nonoyama^{1,2}, Ryuki Matsuura³, Satoru Ikemoto³, Shinichiro Hamano³
(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)
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(1.Tazuke kofukai medical research institute Kitano hospital, Osaka, Japan, 2.Kyoto University Graduate School of Medicine Anatomy and Developmental Biology)
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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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- (1.Department of Pediatrics, Faculty of Medicine, University of the Ryukyus, Okinawa, Japan, 2.Department of Neuromuscular Research, National Center of Neurology and Psychiatry, Tokyo, Japan)
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(1.The Jikei University Kashiwa Hospital, 2.The Jikei University School of Medicine Department of Pediatrics)
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(1.Department of Pediatrics, Graduate School of Medical Science, Kyoto Prefectural University of Medicine, Kyoto, Japan, 2.Kyoto chubu medical center, Nantan, Japan)
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(Department of Pediatrics, Karatsu Red Cross Hospital, Saga, Japan)
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(1.Toyohashi municipal hospital, Aichi, Japan, 2.Seirei mikatahara general hospital, Shizuoka, Japan, 3.Kobe university graduate school of medicine, Kobe, Japan)
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(Kyorin university faculty of medicine department of pediatrics)
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Yuichi Akaba¹, yoshiaki sasaki¹, hiroki kajino¹, satoru takahashi²
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Tatsuya Kawaguchi, TAKAHUMI SAKAKIBARA, MIDORI SHIMA
(Department of Pediatrics, Nara medical university)

P-304 Hyperglycemia in children with febrile status epilepticus and AESD

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P-305 Acute encephalopathy developing after non-prolonged and non-complicated febrile seizure

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Tsukasa Ohashi¹, SAWAKO YAMAZAKI², KAZUKI KODERA²
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